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(54) **Title**: METHODS AND COMPOSITIONS FOR DIAGNOSIS AND PROGNOSIS OF RENAL INJURY AND RENAL FAILURE

(57) **Abstract**: Disclosed are methods and compositions for monitonng, diagnosis, prognosis, and determination of treatment regimens in subjects suffering from or suspected of having a renal injury The methods use assays that detect one or more markers selected from the group consisting of Cytoplasmic aspartate aminotransferase, soluble Tumor necrosis factor receptor superfamily member 5, soluble CD40 Ligand, soluble C-X-C Motif chemokine 16, SIOO-AI2, Eotaxin, soluble E-selectin, Fibronectin, Granulocyte colony-stimulating factor, Granulocyte-macrophage colony-stimulating factor, Heparin-binding growth factor 2, soluble Hepatocyte growth factor receptor, Interleukin-I receptor antagonist, Interleukin-I beta, lnterleukιn-10, lnterieukιn-15, lnterieukιn-3, Myeloperoxidase, Nidogen-I, soluble Oxidized low-density lipoprotein receptor I, Pappalysin-I, soluble P-selectin glycoprotein ligand I, Antileukoproteinase, soluble Kit ligand, Tissue inhibitor of metalloproteinaseI, Tissue inhibitor of metalloproteinase 2, soluble Tumor necrosis factor, soluble Vascular cell adhesion molecule I, and Vascular endothelial growth factor A.

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METHODS AND COMPOSITIONS FOR DIAGNOSIS AND PROGNOSIS OF RENAL INJURY AND RENAL FAILURE

[0001] This application is an Australian national phase filing of International Patent Application No. PCT/US2009/061561 (publication No. WO 2010/048346) filed on October 21, 2009, which claims priority from USSN 61/115,044 filed November 15, 2008; USSN 61/107,290 filed October 21, 2008; USSN 61/113,102 filed November 10, 2008; U.S. USSN 61/107,301 filed October 21, 2008; USSN 61/115,047 filed November 15, 2008; USSN 61/115,051 filed November 15, 2008; USSN 61/113,045 filed November 10, 2008; USSN 61/115,057 filed November 15, 2008; USSN 61/117,167 filed November 22, 2008; USSN 61/117,157 filed November 22, 2008; USSN 61/117,146 filed November 22, 2008; USSN 61/107,281 filed October 21, 2008; USSN 61/115,022 filed November 14, 2008; USSN 61/117,154 filed November 22, 2008; USSN 61/117,152 filed November 22, 2008; USSN 61/115,019 filed November 14, 2008; USSN 61/115,017 filed November 14, 2008; USSN 61/113,021 filed November 10, 2008; USSN 61/113,056 filed November 10, 2008; USSN 61/107,297 filed October 21, 2008; USSN 61/115,045 filed November 15, 2008; USSN 61/107,304 filed October 21, 2008; USSN 61/113,050 filed November 10, 2008; USSN 61/115,048 filed November 15, 2008; USSN 61/113,096 filed November 10, 2008; USSN 61/117,140 filed November 22, 2008; USSN 61/117,172 filed November 22, 2008; USSN 61/113,083 filed November 10, 2008; and USSN 61/117,141 filed November 22, 2008, the contents of which are incorporated herein in their entirety by way of reference.

BACKGROUND OF THE INVENTION

[0002] The following discussion of the background of the invention is merely provided to aid the reader in understanding the invention and is not admitted to describe or constitute prior art to the present invention.

[0003] The kidney is responsible for water and solute excretion from the body. Its functions include maintenance of acid-base balance, regulation of electrolyte concentrations, control of blood volume, and regulation of blood pressure. As such, loss of kidney function through injury and/or disease results in substantial morbidity and mortality. A detailed discussion of renal injuries is provided in Harrison's Principles of Internal Medicine, 17th Ed., McGraw Hill, New York, pages

1741-1830, which are hereby incorporated by reference in their entirety. Renal disease and/or injury may be acute or chronic. Acute and chronic kidney disease are described as follows (from Current Medical Diagnosis & Treatment 2008, 47th Ed, McGraw Hill, New York, pages 785-815, which are hereby incorporated by reference in their entirety): "Acute renal failure is worsening of renal function over hours to days, resulting in the retention of nitrogenous wastes (such as urea nitrogen) and creatinine in the blood. Retention of these substances is called azotemia. Chronic renal failure (chronic kidney disease) results from an abnormal loss of renal function over months to years".

[0004] Acute renal failure (ARF, also known as acute kidney injury, or AKI) is an abrupt (typically detected within about 48 hours to 1 week)reduction in glomerular filtration. This loss of filtration capacity results in retention of nitrogenous (urea and creatinine) and non-nitrogenous waste products that are normally excreted by the kidney, a reduction in urine output, or both. It is reported that ARF complicates about 5% of hospital admissions, 4-15% of cardiopulmonary bypass surgeries, and up to 30% of intensive care admissions. ARF may be categorized as prerenal, intrinsic renal, or postrenal in causation. Intrinsic renal disease can be further divided into glomerular, tubular, interstitial, and vascular abnormalities. Major causes of ARF are described in the following table, which is adapted from the Merck Manual, 17th ed., Chapter 222, and which is hereby incorporated by reference in their entirety:

Type	**Risk Factors**
Prerenal	
ECF volume depletion	Excessive diuresis, hemorrhage, GI losses, loss of intravascular fluid into the extravascular space (due to ascites, peritonitis, pancreatitis, or burns), loss of skin and mucus membranes, renal salt- and water-wasting states
Low cardiac output	Cardiomyopathy, MI, cardiac tamponade, pulmonary embolism, pulmonary hypertension, positive-pressure mechanical ventilation
Low systemic vascular resistance	Septic shock, liver failure, antihypertensive drugs
Increased renal vascular resistance	NSAIDs, cyclosporines, tacrolimus, hypercalcemia, anaphylaxis, anesthetics, renal artery obstruction, renal vein thrombosis, sepsis, hepatorenal syndrome
Decreased efferent arteriolar tone (leading to decreased GFR from reduced glomerular transcapillary pressure, especially in patients with bilateral renal artery stenosis)	ACE inhibitors or angiotensin II receptor blockers
Intrinsic Renal	
Acute tubular injury	Ischemia (prolonged or severe prerenal state): surgery, hemorrhage, arterial or venous obstruction; Toxins: NSAIDs, cyclosporines, tacrolimus, aminoglycosides, foscarnet, ethylene glycol, hemoglobin, myoglobin, ifosfamide, heavy metals, methotrexate, radiopaque contrast agents, streptozotocin
Acute glomerulonephritis	ANCA-associated: Crescentic glomerulonephritis,

Type	Risk Factors
	polyarteritis nodosa, Wegener's granulomatosis; Anti-GBM glomerulonephritis: Goodpasture's syndrome; Immune-complex: Lupus glomerulonephritis, postinfectious glomerulonephritis, cryoglobulinemic glomerulonephritis
Acute tubulointerstitial nephritis	Drug reaction (eg, β-lactams, NSAIDs, sulfonamides, ciprofloxacin, thiazide diuretics, furosemide, phenytoin, allopurinol, pyelonephritis, papillary necrosis
Acute vascular nephropathy	Vasculitis, malignant hypertension, thrombotic microangiopathies, scleroderma, atheroembolism
Infiltrative diseases	Lymphoma, sarcoidosis, leukemia
Postrenal	
Tubular precipitation	Uric acid (tumor lysis), sulfonamides, triamterene, acyclovir, indinavir, methotrexate, ethylene glycol ingestion, myeloma protein, myoglobin
Ureteral obstruction	Intrinsic: Calculi, clots, sloughed renal tissue, fungus ball, edema, malignancy, congenital defects; Extrinsic: Malignancy, retroperitoneal fibrosis, ureteral trauma during surgery or high impact injury
Bladder obstruction	Mechanical: Benign prostatic hyperplasia, prostate cancer, bladder cancer, urethral strictures, phimosis, paraphimosis, urethral valves, obstructed indwelling urinary catheter; Neurogenic: Anticholinergic drugs, upper or lower motor neuron lesion

[0005] In the case of ischemic ARF, the course of the disease may be divided into four phases. During an initiation phase, which lasts hours to days, reduced perfusion of the kidney is evolving into injury. Glomerular ultrafiltration reduces, the flow of filtrate is reduced due to debris within the tubules, and back leakage of filtrate through injured epithelium occurs. Renal injury can be mediated during this phase by reperfusion of the kidney. Initiation is followed by an extension phase which is characterized by continued ischemic injury and inflammation and may involve endothelial damage and vascular congestion. During the maintenance phase, lasting from 1 to 2 weeks, renal cell injury occurs, and glomerular filtration and urine output reaches a minimum. A recovery phase can follow in which the renal epithelium is repaired and GFR gradually recovers. Despite this, the survival rate of subjects with ARF may be as low as about 60%.

[0006] Acute kidney injury caused by radiocontrast agents (also called contrast media) and other nephrotoxins such as cyclosporine, antibiotics including aminoglycosides and anticancer drugs such as cisplatin manifests over a period of days to about a week. Contrast induced nephropathy (CIN, which is AKI caused by radiocontrast agents) is thought to be caused by intrarenal vasoconstriction (leading to ischemic injury) and from the generation of reactive oxygen species that are directly toxic to renal tubular epithelial cells. CIN classically presents as an acute (onset within 24-48h) but reversible (peak 3-5 days, resolution within 1 week) rise in blood urea nitrogen and serum creatinine.

[0007] A commonly reported criteria for defining and detecting AKI is an abrupt (typically within about 2-7 days or within a period of hospitalization) elevation of serum creatinine. Although

the use of serum creatinine elevation to define and detect AKI is well established, the magnitude of the serum creatinine elevation and the time over which it is measured to define AKI varies considerably among publications. Traditionally, relatively large increases in serum creatinine such as 100%, 200%, an increase of at least 100% to a value over 2 mg/dL and other definitions were used to define AKI. However, the recent trend has been towards using smaller serum creatinine rises to define AKI. The relationship between serum creatinine rise, AKI and the associated health risks are reviewed in Praught and Shlipak, *Curr Opin Nephrol Hypertens* 14:265-270, 2005 and Chertow et al, *J Am Soc Nephrol* 16: 3365-3370, 2005, which, with the references listed therein, are hereby incorporated by reference in their entirety. As described in these publications, acute worsening renal function (AKI) and increased risk of death and other detrimental outcomes are now known to be associated with very small increases in serum creatinine. These increases may be determined as a relative (percent) value or a nominal value. Relative increases in serum creatinine as small as 20% from the pre-injury value have been reported to indicate acutely worsening renal function (AKI) and increased health risk, but the more commonly reported value to define AKI and increased health risk is a relative increase of at least 25%. Nominal increases as small as 0.3 mg/dL, 0.2 mg/dL or even 0.1 mg/dL have been reported to indicate worsening renal function and increased risk of death. Various time periods for the serum creatinine to rise to these threshold values have been used to define AKI, for example, ranging from 2 days, 3 days, 7 days, or a variable period defined as the time the patient is in the hospital or intensive care unit. These studies indicate there is not a particular threshold serum creatinine rise (or time period for the rise) for worsening renal function or AKI, but rather a continuous increase in risk with increasing magnitude of serum creatinine rise.

[0008] One study (Lassnigg et all, J Am Soc Nephrol 15:1597-1605, 2004, hereby incorporated by reference in its entirety) investigated both increases and decreases in serum creatinine. Patients with a mild fall in serum creatinine of -0.1 to -0.3 mg/dL following heart surgery had the lowest mortality rate. Patients with a larger fall in serum creatinine (more than or equal to -0.4 mg/dL) or any increase in serum creatinine had a larger mortality rate. These findings caused the authors to conclude that even very subtle changes in renal function (as detected by small creatinine changes within 48 hours of surgery) seriously effect patient's outcomes. In an effort to reach consensus on a unified classification system for using serum creatinine to define AKI in clinical trials and in clinical practice, Bellomo *et al., Crit Care.* 8(4):R204-12, 2004, which is hereby incorporated by reference in its entirety, proposes the following classifications for stratifying AKI patients:

"Risk": serum creatinine increased 1.5 fold from baseline OR urine production of <0.5 ml/kg body weight/hr for 6 hours;

"Injury": serum creatinine increased 2.0 fold from baseline OR urine production <0.5 ml/kg/hr for 12 h;

"Failure": serum creatinine increased 3.0 fold from baseline OR creatinine >355 μmol/l (with a rise of >44) or urine output below 0.3 ml/kg/hr for 24 h or anuria for at least 12 hours;

And included two clinical outcomes:

"Loss": persistent need for renal replacement therapy for more than four weeks.

"ESRD": end stage renal disease—the need for dialysis for more than 3 months.

These criteria are called the RIFLE criteria, which provide a useful clinical tool to classify renal status. As discussed in Kellum, *Crit. Care Med.* 36: S141-45, 2008 and Ricci *et al., Kidney Int.* 73, 538-546, 2008, each hereby incorporated by reference in its entirety, the RIFLE criteria provide a uniform definition of AKI which has been validated in numerous studies.

[0009] More recently, Mehta *et al., Crit. Care* 11:R31 (doi:10.1186.cc5713), 2007, hereby incorporated by reference in its entirety, proposes the following similar classifications for stratifying AKI patients, which have been modified from RIFLE:

"Stage I": increase in serum creatinine of more than or equal to 0.3 mg/dL (≥ 26.4 μmol/L) or increase to more than or equal to 150% (1.5-fold) from baseline OR urine output less than 0.5 mL/kg per hour for more than 6 hours;

"Stage II": increase in serum creatinine to more than 200% (> 2-fold) from baseline OR urine output less than 0.5 mL/kg per hour for more than 12 hours;

"Stage III": increase in serum creatinine to more than 300% (> 3-fold) from baseline OR serum creatinine ≥ 354 μmol/L accompanied by an acute increase of at least 44 μmol/L OR urine output less than 0.3 mL/kg per hour for 24 hours or anuria for 12 hours.

[0010] The CIN Consensus Working Panel (McCollough et al, Rev Cardiovasc Med. *2006;7(4):177-197,* hereby incorporated by reference in its entirety*)* uses a serum creatinine rise of 25% to define Contrast induced nephropathy (which is a type of AKI).Although various groups propose slightly different criteria for using serum creatinine to detect AKI, the consensus is that small changes in serum creatinine, such as 0.3 mg/dL or 25%, are sufficient to detect AKI (worsening renal function) and that the magnitude of the serum creatinine change is an indicator of the severity of the AKI and mortality risk.

[0011] Although serial measurement of serum creatinine over a period of days is an accepted method of detecting and diagnosing AKI and is considered one of the most important tools to evaluate AKI patients, serum creatinine is generally regarded to have several limitations in the diagnosis, assessment and monitoring of AKI patients. The time period for serum creatinine to rise to values (e.g., a 0.3 mg/dL or 25% rise) considered diagnostic for AKI can be 48 hours or longer depending on the definition used. Since cellular injury in AKI can occur over a period of hours, serum creatinine elevations detected at 48 hours or longer can be a late indicator of injury, and relying on serum

creatinine can thus delay diagnosis of AKI. Furthermore, serum creatinine is not a good indicator of the exact kidney status and treatment needs during the most acute phases of AKI when kidney function is changing rapidly. Some patients with AKI will recover fully, some will need dialysis (either short term or long term) and some will have other detrimental outcomes including death, major adverse cardiac events and chronic kidney disease. Because serum creatinine is a marker of filtration rate, it does not differentiate between the causes of AKI (pre-renal, intrinsic renal, post-renal obstruction, atheroembolic, etc) or the category or location of injury in intrinsic renal disease (for example, tubular, glomerular or interstitial in origin). Urine output is similarly limited, Knowing these things can be of vital importance in managing and treating patients with AKI.

[0012] These limitations underscore the need for better methods to detect and assess AKI, particularly in the early and subclinical stages, but also in later stages when recovery and repair of the kidney can occur. Furthermore, there is a need to better identify patients who are at risk of having an AKI.

BRIEF SUMMARY OF THE INVENTION

[0013] It is an object of the invention to provide methods and compositions for evaluating renal function in a subject. As described herein, measurement of one or more markers selected from the group consisting of Cytoplasmic aspartate aminotransferase, soluble Tumor necrosis factor receptor superfamily member 5, soluble CD40 Ligand, soluble C-X-C Motif chemokine 16, S100-A12, Eotaxin, soluble E-selectin, Fibronectin, Granulocyte colony-stimulating factor, Granulocyte-macrophage colony-stimulating factor, Heparin-binding growth factor 2 , soluble Hepatocyte growth factor receptor, Interleukin-1 receptor antagonist, Interleukin-1 beta, Interleukin-10, Interleukin-15, Interleukin-3, Myeloperoxidase, Nidogen-1, soluble Oxidized low-density lipoprotein receptor 1, Pappalysin-1, soluble P-selectin glycoprotein ligand 1, Antileukoproteinase, soluble Kit ligand, Tissue inhibitor of metalloproteinase 1, Tissue inhibitor of metalloproteinase 2, soluble Tumor necrosis factor, soluble Vascular cell adhesion molecule 1, and Vascular endothelial growth factor A (collectively referred to herein as "kidney injury markers, and individually as a "kidney injury marker") can be used for diagnosis, prognosis, risk stratification, staging, monitoring, categorizing and determination of further diagnosis and treatment regimens in subjects suffering or at risk of suffering from an injury to renal function, reduced renal function, and/or acute renal failure (also called acute kidney injury).

[0014] These kidney injury markers may be used, individually or in panels comprising a plurality of kidney injury markers, for risk stratification (that is, to identify subjects at risk for a future injury to renal function, for future progression to reduced renal function, for future progression to ARF, for future improvement in renal function, *etc.*); for diagnosis of existing disease (that is, to identify subjects who have suffered an injury to renal function, who have progressed to reduced renal function,

who have progressed to ARF, *etc.*); for monitoring for deterioration or improvement of renal function; and for predicting a future medical outcome, such as improved or worsening renal function, a decreased or increased mortality risk, a decreased or increased risk that a subject will require renal replacement therapy (*i.e.*, hemodialysis, peritoneal dialysis, hemofiltration, and/or renal transplantation, a decreased or increased risk that a subject will recover from an injury to renal function, a decreased or increased risk that a subject will recover from ARF, a decreased or increased risk that a subject will progress to end stage renal disease, a decreased or increased risk that a subject will progress to chronic renal failure, a decreased or increased risk that a subject will suffer rejection of a transplanted kidney, *etc.*

[0015] In a first aspect, the present invention relates to methods for evaluating renal status in a subject. These methods comprise performing an assay method that is configured to detect one or more kidney injury markers of the present invention in a body fluid sample obtained from the subject. The assay result(s), for example a measured concentration of one or more markers selected from the group consisting of Cytoplasmic aspartate aminotransferase, soluble Tumor necrosis factor receptor superfamily member 5, soluble CD40 Ligand, soluble C-X-C Motif chemokine 16, S100-A12, Eotaxin, soluble E-selectin, Fibronectin, Granulocyte colony-stimulating factor, Granulocyte-macrophage colony-stimulating factor, Heparin-binding growth factor 2 , soluble Hepatocyte growth factor receptor, Interleukin-1 receptor antagonist, Interleukin-1 beta, Interleukin-10, Interleukin-15, Interleukin-3, Myeloperoxidase, Nidogen-1, soluble Oxidized low-density lipoprotein receptor 1, Pappalysin-1, soluble P-selectin glycoprotein ligand 1, Antileukoproteinase, soluble Kit ligand, Tissue inhibitor of metalloproteinase 1, Tissue inhibitor of metalloproteinase 2, soluble Tumor necrosis factor, soluble Vascular cell adhesion molecule 1, and Vascular endothelial growth factor A is/are then correlated to the renal status of the subject. This correlation to renal status may include correlating the assay result(s) to one or more of risk stratification, diagnosis, prognosis, staging, classifying and monitoring of the subject as described herein. Thus, the present invention utilizes one or more kidney injury markers of the present invention for the evaluation of renal injury.

[0016] In certain embodiments, the methods for evaluating renal status described herein are methods for risk stratification of the subject; that is, assigning a likelihood of one or more future changes in renal status to the subject. In these embodiments, the assay result(s) is/are correlated to one or more such future changes. The following are preferred risk stratification embodiments.

[0017] In preferred risk stratification embodiments, these methods comprise determining a subject's risk for a future injury to renal function, and the assay result(s) is/are correlated to a likelihood of such a future injury to renal function. For example, the measured concentration(s) may each be compared to a threshold value. For a "positive going" kidney injury marker, an increased likelihood of suffering a future injury to renal function is assigned to the subject when the measured concentration is above the threshold, relative to a likelihood assigned when the measured

concentration is below the threshold. For a "negative going" kidney injury marker, an increased likelihood of suffering a future injury to renal function is assigned to the subject when the measured concentration is below the threshold, relative to a likelihood assigned when the measured concentration is above the threshold.

[0018] In other preferred risk stratification embodiments, these methods comprise determining a subject's risk for future reduced renal function, and the assay result(s) is/are correlated to a likelihood of such reduced renal function. For example, the measured concentrations may each be compared to a threshold value. For a "positive going" kidney injury marker, an increased likelihood of suffering a future reduced renal function is assigned to the subject when the measured concentration is above the threshold, relative to a likelihood assigned when the measured concentration is below the threshold. For a "negative going" kidney injury marker, an increased likelihood of future reduced renal function is assigned to the subject when the measured concentration is below the threshold, relative to a likelihood assigned when the measured concentration is above the threshold.

[0019] In still other preferred risk stratification embodiments, these methods comprise determining a subject's likelihood for a future improvement in renal function, and the assay result(s) is/are correlated to a likelihood of such a future improvement in renal function. For example, the measured concentration(s) may each be compared to a threshold value. For a "positive going" kidney injury marker, an increased likelihood of a future improvement in renal function is assigned to the subject when the measured concentration is below the threshold, relative to a likelihood assigned when the measured concentration is above the threshold. For a "negative going" kidney injury marker, an increased likelihood of a future improvement in renal function is assigned to the subject when the measured concentration is above the threshold, relative to a likelihood assigned when the measured concentration is below the threshold.

[0020] In yet other preferred risk stratification embodiments, these methods comprise determining a subject's risk for progression to ARF, and the result(s) is/are correlated to a likelihood of such progression to ARF. For example, the measured concentration(s) may each be compared to a threshold value. For a "positive going" kidney injury marker, an increased likelihood of progression to ARF is assigned to the subject when the measured concentration is above the threshold, relative to a likelihood assigned when the measured concentration is below the threshold. For a "negative going" kidney injury marker, an increased likelihood of progression to ARF is assigned to the subject when the measured concentration is below the threshold, relative to a likelihood assigned when the measured concentration is above the threshold.

[0021] And in other preferred risk stratification embodiments, these methods comprise determining a subject's outcome risk, and the assay result(s) is/are correlated to a likelihood of the occurrence of a clinical outcome related to a renal injury suffered by the subject. For example, the measured concentration(s) may each be compared to a threshold value. For a "positive going" kidney

injury marker, an increased likelihood of one or more of: acute kidney injury, progression to a worsening stage of AKI, mortality, a requirement for renal replacement therapy, a requirement for withdrawal of renal toxins, end stage renal disease, heart failure, stroke, myocardial infarction, progression to chronic kidney disease, *etc.*, is assigned to the subject when the measured concentration is above the threshold, relative to a likelihood assigned when the measured concentration is below the threshold. For a "negative going" kidney injury marker, an increased likelihood of one or more of: acute kidney injury, progression to a worsening stage of AKI, mortality, a requirement for renal replacement therapy, a requirement for withdrawal of renal toxins, end stage renal disease, heart failure, stroke, myocardial infarction, progression to chronic kidney disease, *etc.*, is assigned to the subject when the measured concentration is below the threshold, relative to a likelihood assigned when the measured concentration is above the threshold.

[0022] In such risk stratification embodiments, preferably the likelihood or risk assigned is that an event of interest is more or less likely to occur within 180 days of the time at which the body fluid sample is obtained from the subject. In particularly preferred embodiments, the likelihood or risk assigned relates to an event of interest occurring within a shorter time period such as 18 months, 120 days, 90 days, 60 days, 45 days, 30 days, 21 days, 14 days, 7 days, 5 days, 96 hours, 72 hours, 48 hours, 36 hours, 24 hours, 12 hours, or less. A risk at 0 hours of the time at which the body fluid sample is obtained from the subject is equivalent to diagnosis of a current condition.

[0023] In preferred risk stratification embodiments, the subject is selected for risk stratification based on the pre-existence in the subject of one or more known risk factors for prerenal, intrinsic renal, or postrenal ARF. For example, a subject undergoing or having undergone major vascular surgery, coronary artery bypass, or other cardiac surgery; a subject having pre-existing congestive heart failure, preeclampsia, eclampsia, diabetes mellitus, hypertension, coronary artery disease, proteinuria, renal insufficiency, glomerular filtration below the normal range, cirrhosis, serum creatinine above the normal range, or sepsis; or a subject exposed to NSAIDs, cyclosporines, tacrolimus, aminoglycosides, foscarnet, ethylene glycol, hemoglobin, myoglobin, ifosfamide, heavy metals, methotrexate, radiopaque contrast agents, or streptozotocin are all preferred subjects for monitoring risks according to the methods described herein. This list is not meant to be limiting. By "pre-existence" in this context is meant that the risk factor exists at the time the body fluid sample is obtained from the subject. In particularly preferred embodiments, a subject is chosen for risk stratification based on an existing diagnosis of injury to renal function, reduced renal function, or ARF.

[0024] In other embodiments, the methods for evaluating renal status described herein are methods for diagnosing a renal injury in the subject; that is, assessing whether or not a subject has suffered from an injury to renal function, reduced renal function, or ARF. In these embodiments, the assay result(s), for example a measured concentration of one or more markers selected from the group

consisting of Cytoplasmic aspartate aminotransferase, soluble Tumor necrosis factor receptor superfamily member 5, soluble CD40 Ligand, soluble C-X-C Motif chemokine 16, S100-A12, Eotaxin, soluble E-selectin, Fibronectin, Granulocyte colony-stimulating factor, Granulocyte-macrophage colony-stimulating factor, Heparin-binding growth factor 2 , soluble Hepatocyte growth factor receptor, Interleukin-1 receptor antagonist, Interleukin-1 beta, Interleukin-10, Interleukin-15, Interleukin-3, Myeloperoxidase, Nidogen-1, soluble Oxidized low-density lipoprotein receptor 1, Pappalysin-1, soluble P-selectin glycoprotein ligand 1, Antileukoproteinase, soluble Kit ligand, Tissue inhibitor of metalloproteinase 1, Tissue inhibitor of metalloproteinase 2, soluble Tumor necrosis factor, soluble Vascular cell adhesion molecule 1, and Vascular endothelial growth factor A is/are correlated to the occurrence or nonoccurrence of a change in renal status. The following are preferred diagnostic embodiments.

[0025] In preferred diagnostic embodiments, these methods comprise diagnosing the occurrence or nonoccurrence of an injury to renal function, and the assay result(s) is/are correlated to the occurrence or nonoccurrence of such an injury. For example, each of the measured concentration(s) may be compared to a threshold value. For a positive going marker, an increased likelihood of the occurrence of an injury to renal function is assigned to the subject when the measured concentration is above the threshold (relative to the likelihood assigned when the measured concentration is below the threshold); alternatively, when the measured concentration is below the threshold, an increased likelihood of the nonoccurrence of an injury to renal function may be assigned to the subject (relative to the likelihood assigned when the measured concentration is above the threshold). For a negative going marker, an increased likelihood of the occurrence of an injury to renal function is assigned to the subject when the measured concentration is below the threshold (relative to the likelihood assigned when the measured concentration is above the threshold); alternatively, when the measured concentration is above the threshold, an increased likelihood of the nonoccurrence of an injury to renal function may be assigned to the subject (relative to the likelihood assigned when the measured concentration is below the threshold).

[0026] In other preferred diagnostic embodiments, these methods comprise diagnosing the occurrence or nonoccurrence of reduced renal function, and the assay result(s) is/are correlated to the occurrence or nonoccurrence of an injury causing reduced renal function. For example, each of the measured concentration(s) may be compared to a threshold value. For a positive going marker, an increased likelihood of the occurrence of an injury causing reduced renal function is assigned to the subject when the measured concentration is above the threshold (relative to the likelihood assigned when the measured concentration is below the threshold); alternatively, when the measured concentration is below the threshold, an increased likelihood of the nonoccurrence of an injury causing reduced renal function may be assigned to the subject (relative to the likelihood assigned when the measured concentration is above the threshold). For a negative going marker, an increased likelihood of the occurrence of an injury causing reduced renal function is assigned to the subject

when the measured concentration is below the threshold (relative to the likelihood assigned when the measured concentration is above the threshold); alternatively, when the measured concentration is above the threshold, an increased likelihood of the nonoccurrence of an injury causing reduced renal function may be assigned to the subject (relative to the likelihood assigned when the measured concentration is below the threshold).

[0027] In yet other preferred diagnostic embodiments, these methods comprise diagnosing the occurrence or nonoccurrence of ARF, and the assay result(s) is/are correlated to the occurrence or nonoccurrence of an injury causing ARF. For example, each of the measured concentration(s) may be compared to a threshold value. For a positive going marker, an increased likelihood of the occurrence of ARF is assigned to the subject when the measured concentration is above the threshold (relative to the likelihood assigned when the measured concentration is below the threshold); alternatively, when the measured concentration is below the threshold, an increased likelihood of the nonoccurrence of ARF may be assigned to the subject (relative to the likelihood assigned when the measured concentration is above the threshold). For a negative going marker, an increased likelihood of the occurrence of ARF is assigned to the subject when the measured concentration is below the threshold (relative to the likelihood assigned when the measured concentration is above the threshold); alternatively, when the measured concentration is above the threshold, an increased likelihood of the nonoccurrence of ARF may be assigned to the subject (relative to the likelihood assigned when the measured concentration is below the threshold).

[0028] In still other preferred diagnostic embodiments, these methods comprise diagnosing a subject as being in need of renal replacement therapy, and the assay result(s) is/are correlated to a need for renal replacement therapy. For example, each of the measured concentration(s) may be compared to a threshold value. For a positive going marker, an increased likelihood of the occurrence of an injury creating a need for renal replacement therapy is assigned to the subject when the measured concentration is above the threshold (relative to the likelihood assigned when the measured concentration is below the threshold); alternatively, when the measured concentration is below the threshold, an increased likelihood of the nonoccurrence of an injury creating a need for renal replacement therapy may be assigned to the subject (relative to the likelihood assigned when the measured concentration is above the threshold). For a negative going marker, an increased likelihood of the occurrence of an injury creating a need for renal replacement therapy is assigned to the subject when the measured concentration is below the threshold (relative to the likelihood assigned when the measured concentration is above the threshold); alternatively, when the measured concentration is above the threshold, an increased likelihood of the nonoccurrence of an injury creating a need for renal replacement therapy may be assigned to the subject (relative to the likelihood assigned when the measured concentration is below the threshold).

[0029] In still other preferred diagnostic embodiments, these methods comprise diagnosing a subject as being in need of renal transplantation, and the assay result(s0 is/are correlated to a need for renal transplantation. For example, each of the measured concentration(s) may be compared to a threshold value. For a positive going marker, an increased likelihood of the occurrence of an injury creating a need for renal transplantation is assigned to the subject when the measured concentration is above the threshold (relative to the likelihood assigned when the measured concentration is below the threshold); alternatively, when the measured concentration is below the threshold, an increased likelihood of the nonoccurrence of an injury creating a need for renal transplantation may be assigned to the subject (relative to the likelihood assigned when the measured concentration is above the threshold). For a negative going marker, an increased likelihood of the occurrence of an injury creating a need for renal transplantation is assigned to the subject when the measured concentration is below the threshold (relative to the likelihood assigned when the measured concentration is above the threshold); alternatively, when the measured concentration is above the threshold, an increased likelihood of the nonoccurrence of an injury creating a need for renal transplantation may be assigned to the subject (relative to the likelihood assigned when the measured concentration is below the threshold).

[0030] In still other embodiments, the methods for evaluating renal status described herein are methods for monitoring a renal injury in the subject; that is, assessing whether or not renal function is improving or worsening in a subject who has suffered from an injury to renal function, reduced renal function, or ARF. In these embodiments, the assay result(s), for example a measured concentration of one or more markers selected from the group consisting of Cytoplasmic aspartate aminotransferase, soluble Tumor necrosis factor receptor superfamily member 5, soluble CD40 Ligand, soluble C-X-C Motif chemokine 16, S100-A12, Eotaxin, soluble E-selectin, Fibronectin, Granulocyte colony-stimulating factor, Granulocyte-macrophage colony-stimulating factor, Heparin-binding growth factor 2 , soluble Hepatocyte growth factor receptor, Interleukin-1 receptor antagonist, Interleukin-1 beta, Interleukin-10, Interleukin-15, Interleukin-3, Myeloperoxidase, Nidogen-1, soluble Oxidized low-density lipoprotein receptor 1, Pappalysin-1, soluble P-selectin glycoprotein ligand 1, Antileukoproteinase, soluble Kit ligand, Tissue inhibitor of metalloproteinase 1, Tissue inhibitor of metalloproteinase 2, soluble Tumor necrosis factor, soluble Vascular cell adhesion molecule 1, and Vascular endothelial growth factor A is/are correlated to the occurrence or nonoccurrence of a change in renal status. The following are preferred monitoring embodiments.

[0031] In preferred monitoring embodiments, these methods comprise monitoring renal status in a subject suffering from an injury to renal function, and the assay result(s) is/are correlated to the occurrence or nonoccurrence of a change in renal status in the subject. For example, the measured concentration(s) may be compared to a threshold value. For a positive going marker, when the measured concentration is above the threshold, a worsening of renal function may be assigned to the subject; alternatively, when the measured concentration is below the threshold, an improvement of

renal function may be assigned to the subject. For a negative going marker, when the measured concentration is below the threshold, a worsening of renal function may be assigned to the subject; alternatively, when the measured concentration is above the threshold, an improvement of renal function may be assigned to the subject.

[0032] In other preferred monitoring embodiments, these methods comprise monitoring renal status in a subject suffering from reduced renal function, and the assay result(s) is/are correlated to the occurrence or nonoccurrence of a change in renal status in the subject. For example, the measured concentration(s) may be compared to a threshold value. For a positive going marker, when the measured concentration is above the threshold, a worsening of renal function may be assigned to the subject; alternatively, when the measured concentration is below the threshold, an improvement of renal function may be assigned to the subject. For a negative going marker, when the measured concentration is below the threshold, a worsening of renal function may be assigned to the subject; alternatively, when the measured concentration is above the threshold, an improvement of renal function may be assigned to the subject.

[0033] In yet other preferred monitoring embodiments, these methods comprise monitoring renal status in a subject suffering from acute renal failure, and the assay result(s) is/are correlated to the occurrence or nonoccurrence of a change in renal status in the subject. For example, the measured concentration(s) may be compared to a threshold value. For a positive going marker, when the measured concentration is above the threshold, a worsening of renal function may be assigned to the subject; alternatively, when the measured concentration is below the threshold, an improvement of renal function may be assigned to the subject. For a negative going marker, when the measured concentration is below the threshold, a worsening of renal function may be assigned to the subject; alternatively, when the measured concentration is above the threshold, an improvement of renal function may be assigned to the subject.

[0034] In other additional preferred monitoring embodiments, these methods comprise monitoring renal status in a subject at risk of an injury to renal function due to the pre-existence of one or more known risk factors for prerenal, intrinsic renal, or postrenal ARF, and the assay result(s) is/are correlated to the occurrence or nonoccurrence of a change in renal status in the subject. For example, the measured concentration(s) may be compared to a threshold value. For a positive going marker, when the measured concentration is above the threshold, a worsening of renal function may be assigned to the subject; alternatively, when the measured concentration is below the threshold, an improvement of renal function may be assigned to the subject. For a negative going marker, when the measured concentration is below the threshold, a worsening of renal function may be assigned to the subject; alternatively, when the measured concentration is above the threshold, an improvement of renal function may be assigned to the subject.

[0035] In still other embodiments, the methods for evaluating renal status described herein are methods for classifying a renal injury in the subject; that is, determining whether a renal injury in a subject is prerenal, intrinsic renal, or postrenal; and/or further subdividing these classes into subclasses such as acute tubular injury, acute glomerulonephritis acute tubulointerstitial nephritis, acute vascular nephropathy, or infiltrative disease; and/or assigning a likelihood that a subject will progress to a particular RIFLE stage. In these embodiments, the assay result(s), for example a measured concentration of one or more markers selected from the group consisting of Cytoplasmic aspartate aminotransferase, soluble Tumor necrosis factor receptor superfamily member 5, soluble CD40 Ligand, soluble C-X-C Motif chemokine 16, S100-A12, Eotaxin, soluble E-selectin, Fibronectin, Granulocyte colony-stimulating factor, Granulocyte-macrophage colony-stimulating factor, Heparin-binding growth factor 2 , soluble Hepatocyte growth factor receptor, Interleukin-1 receptor antagonist, Interleukin-1 beta, Interleukin-10, Interleukin-15, Interleukin-3, Myeloperoxidase, Nidogen-1, soluble Oxidized low-density lipoprotein receptor 1, Pappalysin-1, soluble P-selectin glycoprotein ligand 1, Antileukoproteinase, soluble Kit ligand, Tissue inhibitor of metalloproteinase 1, Tissue inhibitor of metalloproteinase 2, soluble Tumor necrosis factor, soluble Vascular cell adhesion molecule 1, and Vascular endothelial growth factor A is/are correlated to a particular class and/or subclass. The following are preferred classification embodiments.

[0036] In preferred classification embodiments, these methods comprise determining whether a renal injury in a subject is prerenal, intrinsic renal, or postrenal; and/or further subdividing these classes into subclasses such as acute tubular injury, acute glomerulonephritis acute tubulointerstitial nephritis, acute vascular nephropathy, or infiltrative disease; and/or assigning a likelihood that a subject will progress to a particular RIFLE stage, and the assay result(s) is/are correlated to the injury classification for the subject. For example, the measured concentration may be compared to a threshold value, and when the measured concentration is above the threshold, a particular classification is assigned; alternatively, when the measured concentration is below the threshold, a different classification may be assigned to the subject.

[0037] A variety of methods may be used by the skilled artisan to arrive at a desired threshold value for use in these methods. For example, the threshold value may be determined from a population of normal subjects by selecting a concentration representing the 75th, 85th, 90th, 95th, or 99th percentile of a kidney injury marker measured in such normal subjects. Alternatively, the threshold value may be determined from a "diseased" population of subjects, e.g., those suffering from an injury or having a predisposition for an injury (e.g., progression to ARF or some other clinical outcome such as death, dialysis, renal transplantation, *etc.*), by selecting a concentration representing the 75th, 85th, 90th, 95th, or 99th percentile of a kidney injury marker measured in such subjects. In another alternative, the threshold value may be determined from a prior measurement of a kidney injury marker in the same subject; that is, a temporal change in the level of a kidney injury marker in the subject may be used to assign risk to the subject.

[0001] The foregoing discussion is not meant to imply, however, that the kidney injury markers of the present invention must be compared to corresponding individual thresholds. Methods for combining assay results can comprise the use of multivariate logistical regression, loglinear modeling, neural network analysis, n-of-m analysis, decision tree analysis, calculating ratios of markers, *etc.* This list is not meant to be limiting. In these methods, a composite result which is determined by combining individual markers may be treated as if it is itself a marker; that is, a threshold may be determined for the composite result as described herein for individual markers, and the composite result for an individual patient compared to this threshold.

[0038] The ability of a particular test to distinguish two populations can be established using ROC analysis. For example, ROC curves established from a "first" subpopulation which is predisposed to one or more future changes in renal status, and a "second" subpopulation which is not so predisposed can be used to calculate a ROC curve, and the area under the curve provides a measure of the quality of the test. Preferably, the tests described herein provide a ROC curve area greater than 0.5, preferably at least 0.6, more preferably 0.7, still more preferably at least 0.8, even more preferably at least 0.9, and most preferably at least 0.95.

[0039] In certain aspects, the measured concentration of one or more kidney injury markers, or a composite of such markers, may be treated as continuous variables. For example, any particular concentration can be converted into a corresponding probability of a future reduction in renal function for the subject, the occurrence of an injury, a classification, etc. In yet another alternative, a threshold that can provide an acceptable level of specificity and sensitivity in separating a population of subjects into "bins" such as a "first" subpopulation (e.g., which is predisposed to one or more future changes in renal status, the occurrence of an injury, a classification, etc.) and a "second" subpopulation which is not so predisposed. A threshold value is selected to separate this first and second population by one or more of the following measures of test accuracy:

an odds ratio greater than 1, preferably at least about 2 or more or about 0.5 or less, more preferably at least about 3 or more or about 0.33 or less, still more preferably at least about 4 or more or about 0.25 or less, even more preferably at least about 5 or more or about 0.2 or less, and most preferably at least about 10 or more or about 0.1 or less;

a specificity of greater than 0.5, preferably at least about 0.6, more preferably at least about 0.7, still more preferably at least about 0.8, even more preferably at least about 0.9 and most preferably at least about 0.95, with a corresponding sensitivity greater than 0.2, preferably greater than about 0.3, more preferably greater than about 0.4, still more preferably at least about 0.5, even more preferably about 0.6, yet more preferably greater than about 0.7, still more preferably greater than about 0.8, more preferably greater than about 0.9, and most preferably greater than about 0.95;

a sensitivity of greater than 0.5, preferably at least about 0.6, more preferably at least about 0.7, still more preferably at least about 0.8, even more preferably at least about 0.9 and most preferably at least

about 0.95, with a corresponding specificity greater than 0.2, preferably greater than about 0.3, more preferably greater than about 0.4, still more preferably at least about 0.5, even more preferably about 0.6, yet more preferably greater than about 0.7, still more preferably greater than about 0.8, more preferably greater than about 0.9, and most preferably greater than about 0.95;

at least about 75% sensitivity, combined with at least about 75% specificity;

a positive likelihood ratio (calculated as sensitivity/(1-specificity)) of greater than 1, at least about 2, more preferably at least about 3, still more preferably at least about 5, and most preferably at least about 10; or

a negative likelihood ratio (calculated as (1-sensitivity)/specificity) of less than 1, less than or equal to about 0.5, more preferably less than or equal to about 0.3, and most preferably less than or equal to about 0.1.

The term "about" in the context of any of the above measurements refers to +/- 5% of a given measurement.

[0040] Multiple thresholds may also be used to assess renal status in a subject. For example, a "first" subpopulation which is predisposed to one or more future changes in renal status, the occurrence of an injury, a classification, etc., and a "second" subpopulation which is not so predisposed can be combined into a single group. This group is then subdivided into three or more equal parts (known as tertiles, quartiles, quintiles, etc., depending on the number of subdivisions). An odds ratio is assigned to subjects based on which subdivision they fall into. If one considers a tertile, the lowest or highest tertile can be used as a reference for comparison of the other subdivisions. This reference subdivision is assigned an odds ratio of 1. The second tertile is assigned an odds ratio that is relative to that first tertile. That is, someone in the second tertile might be 3 times more likely to suffer one or more future changes in renal status in comparison to someone in the first tertile. The third tertile is also assigned an odds ratio that is relative to that first tertile.

[0041] In certain embodiments, the assay method is an immunoassay. Antibodies for use in such assays will specifically bind a full length kidney injury marker of interest, and may also bind one or more polypeptides that are "related" thereto, as that term is defined hereinafter. Numerous immunoassay formats are known to those of skill in the art. Preferred body fluid samples are selected from the group consisting of urine, blood, serum, saliva, tears, and plasma.

[0042] The foregoing method steps should not be interpreted to mean that the kidney injury marker assay result(s) is/are used in isolation in the methods described herein. Rather, additional variables or other clinical indicia may be included in the methods described herein. For example, a risk stratification, diagnostic, classification, monitoring, etc. method may combine the assay result(s) with one or more variables measured for the subject selected from the group consisting of demographic information (e.g., weight, sex, age, race), medical history (e.g., family history, type of

surgery, pre-existing disease such as aneurism, congestive heart failure, preeclampsia, eclampsia, diabetes mellitus, hypertension, coronary artery disease, proteinuria, renal insufficiency, or sepsis, type of toxin exposure such as NSAIDs, cyclosporines, tacrolimus, aminoglycosides, foscarnet, ethylene glycol, hemoglobin, myoglobin, ifosfamide, heavy metals, methotrexate, radiopaque contrast agents, or streptozotocin), clinical variables (e.g., blood pressure, temperature, respiration rate), risk scores (APACHE score, PREDICT score, TIMI Risk Score for UA/NSTEMI, Framingham Risk Score), a glomerular filtration rate, an estimated glomerular filtration rate, a urine production rate, a serum or plasma creatinine concentration, a urine creatinine concentration, a fractional excretion of sodium, a urine sodium concentration, a urine creatinine to serum or plasma creatinine ratio, a urine specific gravity, a urine osmolality, a urine urea nitrogen to plasma urea nitrogen ratio, a plasma BUN to creatnine ratio, a renal failure index calculated as urine sodium / (urine creatinine / plasma creatinine), a serum or plasma neutrophil gelatinase (NGAL) concentration, a urine NGAL concentration, a serum or plasma cystatin C concentration, a serum or plasma cardiac troponin concentration, a serum or plasma BNP concentration, a serum or plasma NTproBNP concentration, and a serum or plasma proBNP concentration. Other measures of renal function which may be combined with one or more kidney injury marker assay result(s) are described hereinafter and in Harrison's Principles of Internal Medicine, 17th Ed., McGraw Hill, New York, pages 1741-1830, and Current Medical Diagnosis & Treatment 2008, 47th Ed, McGraw Hill, New York, pages 785-815, each of which are hereby incorporated by reference in their entirety.

[0043] When more than one marker is measured, the individual markers may be measured in samples obtained at the same time, or may be determined from samples obtained at different (e.g., an earlier or later) times. The individual markers may also be measured on the same or different body fluid samples. For example, one kidney injury marker may be measured in a serum or plasma sample and another kidney injury marker may be measured in a urine sample. In addition, assignment of a likelihood may combine an individual kidney injury marker assay result with temporal changes in one or more additional variables.

[0044] In various related aspects, the present invention also relates to devices and kits for performing the methods described herein. Suitable kits comprise reagents sufficient for performing an assay for at least one of the described kidney injury markers, together with instructions for performing the described threshold comparisons.

[0045] In certain embodiments, reagents for performing such assays are provided in an assay device, and such assay devices may be included in such a kit. Preferred reagents can comprise one or more solid phase antibodies, the solid phase antibody comprising antibody that detects the intended biomarker target(s) bound to a solid support. In the case of sandwich immunoassays, such reagents can also include one or more detectably labeled antibodies, the detectably labeled antibody comprising antibody that detects the intended biomarker target(s) bound to a detectable label.

Additional optional elements that may be provided as part of an assay device are described hereinafter.

[0046] Detectable labels may include molecules that are themselves detectable (e.g., fluorescent moieties, electrochemical labels, ecl (electrochemical luminescence) labels, metal chelates, colloidal metal particles, *etc.*) as well as molecules that may be indirectly detected by production of a detectable reaction product (*e.g.*, enzymes such as horseradish peroxidase, alkaline phosphatase, *etc.*) or through the use of a specific binding molecule which itself may be detectable (*e.g.*, a labeled antibody that binds to the second antibody, biotin, digoxigenin, maltose, oligohistidine, 2,4-dintrobenzene, phenylarsenate, ssDNA, dsDNA, *etc.*).

[0047] Generation of a signal from the signal development element can be performed using various optical, acoustical, and electrochemical methods well known in the art. Examples of detection modes include fluorescence, radiochemical detection, reflectance, absorbance, amperometry, conductance, impedance, interferometry, ellipsometry, *etc.* In certain of these methods, the solid phase antibody is coupled to a transducer (*e.g.*, a diffraction grating, electrochemical sensor, etc) for generation of a signal, while in others, a signal is generated by a transducer that is spatially separate from the solid phase antibody (*e.g.*, a fluorometer that employs an excitation light source and an optical detector). This list is not meant to be limiting. Antibody-based biosensors may also be employed to determine the presence or amount of analytes that optionally eliminate the need for a labeled molecule.

BRIEF DESCRIPTION OF THE FIGURES

[0048] Fig. 1 provides data tables determined in accordance with Example 6 for the comparison of marker levels in urine samples collected for Cohort 1 (patients that did not progress beyond RIFLE stage 0) and in urine samples collected from subjects at 0, 24 hours, and 48 hours prior to reaching stage R, I or F in Cohort 2. Tables provide descriptive statistics, AUC analysis, and sensitivity, specificity and odds ratio calculations at various threshold (cutoff) levels for the various markers.

[0049] Fig. 2 provides data tables determined in accordance with Example 7 for the comparison of marker levels in urine samples collected for Cohort 1 (patients that did not progress beyond RIFLE stage 0 or R) and in urine samples collected from subjects at 0, 24 hours, and 48 hours prior to reaching stage I or F in Cohort 2. Tables provide descriptive statistics, AUC analysis, and sensitivity, specificity and odds ratio calculations at various threshold (cutoff) levels for the various markers.

[0050] Fig. 3 provides data tables determined in accordance with Example 8 for the comparison of marker levels in urine samples collected for Cohort 1 (patients that reached, but did not progress beyond, RIFLE stage R) and in urine samples collected from subjects at 0, 24 hours, and 48 hours prior to reaching stage I or F in Cohort 2. Tables provide descriptive statistics, AUC analysis, and

sensitivity, specificity and odds ratio calculations at various threshold (cutoff) levels for the various markers.

[0051] Fig. 4 provides data tables determined in accordance with Example 9 for the comparison of marker levels in urine samples collected for Cohort 1 (patients that did not progress beyond RIFLE stage 0) and in urine samples collected from subjects at 0, 24 hours, and 48 hours prior to reaching stage F in Cohort 2. Tables provide descriptive statistics, AUC analysis, and sensitivity, specificity and odds ratio calculations at various threshold (cutoff) levels for the various markers.

[0052] Fig. 5 provides data tables determined in accordance with Example 6 for the comparison of marker levels in plasma samples collected for Cohort 1 (patients that did not progress beyond RIFLE stage 0) and in plasma samples collected from subjects at 0, 24 hours, and 48 hours prior to reaching stage R, I or F in Cohort 2. Tables provide descriptive statistics, AUC analysis, and sensitivity, specificity and odds ratio calculations at various threshold (cutoff) levels for the various markers.

[0053] Fig. 6 provides data tables determined in accordance with Example 7 for the comparison of marker levels in plasma samples collected for Cohort 1 (patients that did not progress beyond RIFLE stage 0 or R) and in plasma samples collected from subjects at 0, 24 hours, and 48 hours prior to reaching stage I or F in Cohort 2. Tables provide descriptive statistics, AUC analysis, and sensitivity, specificity and odds ratio calculations at various threshold (cutoff) levels for the various markers.

[0054] Fig. 7 provides data tables determined in accordance with Example 8 for the comparison of marker levels in plasma samples collected for Cohort 1 (patients that reached, but did not progress beyond, RIFLE stage R) and in plasma samples collected from subjects at 0, 24 hours, and 48 hours prior to reaching stage I or F in Cohort 2. Tables provide descriptive statistics, AUC analysis, and sensitivity, specificity and odds ratio calculations at various threshold (cutoff) levels for the various markers.

[0055] Fig. 8 provides data tables determined in accordance with Example 9 for the comparison of marker levels in plasma samples collected for Cohort 1 (patients that did not progress beyond RIFLE stage 0) and in plasma samples collected from subjects at 0, 24 hours, and 48 hours prior to reaching stage F in Cohort 2. Tables provide descriptive statistics, AUC analysis, and sensitivity, specificity and odds ratio calculations at various threshold (cutoff) levels for the various markers.

DETAILED DESCRIPTION OF THE INVENTION

[0056] The present invention relates to methods and compositions for diagnosis, differential diagnosis, risk stratification, monitoring, classifying and determination of treatment regimens in subjects suffering or at risk of suffering from injury to renal function, reduced renal function and/or

acute renal failure through measurement of one or more kidney injury markers. In various embodiments, a measured concentration of one or more markers selected from the group consisting of Cytoplasmic aspartate aminotransferase, soluble Tumor necrosis factor receptor superfamily member 5, soluble CD40 Ligand, soluble C-X-C Motif chemokine 16, S100-A12, Eotaxin, soluble E-selectin, Fibronectin, Granulocyte colony-stimulating factor, Granulocyte-macrophage colony-stimulating factor, Heparin-binding growth factor 2 , soluble Hepatocyte growth factor receptor, Interleukin-1 receptor antagonist, Interleukin-1 beta, Interleukin-10, Interleukin-15, Interleukin-3, Myeloperoxidase, Nidogen-1, soluble Oxidized low-density lipoprotein receptor 1, Pappalysin-1, soluble P-selectin glycoprotein ligand 1, Antileukoproteinase, soluble Kit ligand, Tissue inhibitor of metalloproteinase 1, Tissue inhibitor of metalloproteinase 2, soluble Tumor necrosis factor, soluble Vascular cell adhesion molecule 1, and Vascular endothelial growth factor A, or one or more markers related thereto, are correlated to the renal status of the subject.

[0057] For purposes of this document, the following definitions apply:

As used herein, an "injury to renal function" is an abrupt (within 14 days, preferably within 7 days, more preferably within 72 hours, and still more preferably within 48 hours) measurable reduction in a measure of renal function. Such an injury may be identified, for example, by a decrease in glomerular filtration rate or estimated GFR, a reduction in urine output, an increase in serum creatinine, an increase in serum cystatin C, a requirement for renal replacement therapy, *etc*. "Improvement in Renal Function" is an abrupt (within 14 days, preferably within 7 days, more preferably within 72 hours, and still more preferably within 48 hours) measurable increase in a measure of renal function. Preferred methods for measuring and/or estimating GFR are described hereinafter.

As used herein, "reduced renal function" is an abrupt (within 14 days, preferably within 7 days, more preferably within 72 hours, and still more preferably within 48 hours) reduction in kidney function identified by an absolute increase in serum creatinine of greater than or equal to 0.1 mg/dL ($\geq$ 8.8 μmol/L), a percentage increase in serum creatinine of greater than or equal to 20% (1.2-fold from baseline), or a reduction in urine output (documented oliguria of less than 0. 5 ml/kg per hour).

As used herein, "acute renal failure" or "ARF" is an abrupt (within 14 days, preferably within 7 days, more preferably within 72 hours, and still more preferably within 48 hours) reduction in kidney function identified by an absolute increase in serum creatinine of greater than or equal to 0.3 mg/dl ($\geq$ 26.4 μmol/l), a percentage increase in serum creatinine of greater than or equal to 50% (1. 5-fold from baseline), or a reduction in urine output (documented oliguria of less than 0.5 ml/kg per hour for at least 6 hours). This term is synonymous with "acute kidney injury" or "AKI."

[0058] In this regard, the skilled artisan will understand that the signals obtained from an immunoassay are a direct result of complexes formed between one or more antibodies and the target biomolecule (*i.e.*, the analyte) and polypeptides containing the necessary epitope(s) to which the antibodies bind. While such assays may detect the full length biomarker and the assay result be

expressed as a concentration of a biomarker of interest, the signal from the assay is actually a result of all such "immunoreactive" polypeptides present in the sample. Expression of biomarkers may also be determined by means other than immunoassays, including protein measurements (such as dot blots, western blots, chromatographic methods, mass spectrometry, *etc.*) and nucleic acid measurements (mRNA quatitation). This list is not meant to be limiting.

[0059] As used herein, the term "Cytoplasmic aspartate aminotransferase" refers to one or more polypeptides present in a biological sample that are derived from the Cytoplasmic aspartate aminotransferase precursor (Swiss-Prot P17174 (SEQ ID NO: 1)).

10 20 30 40 50 60
MAPPSVFAEV PQAQPVLVFK LTADFREDPD PRKVNLGVGA YRTDDCHPWV
LPVVKKVEQK

70 80 90 100 110 120
IANDNSLNHE YLPILGLAEF RSCASRLALG DDSPALKEKR VGGVQSLGGT GALRIGADFL

130 140 150 160 170 180
ARWYNGTNNK NTPVYVSSPT WENHNAVFSA AGFKDIRSYR YWDAEKRGLD
LQGFLNDLEN

190 200 210 220 230 240
APEFSIVVLH ACAHNPTGID PTPEQWKQIA SVMKHRFLFP FFDSAYQGFA SGNLERDAWA

250 260 270 280 290 300
IRYFVSEGFE FFCAQSFSKN FGLYNERVGN LTVVGKEPES ILQVLSQMEK IVRITWSNPP

310 320 330 340 350 360
AQGARIVAST LSNPELFEEW TGNVKTMADR ILTMRSELRA RLEALKTPGT WNHITDQIGM

370 380 390 400 410
FSFTGLNPKQ VEYLVNEKHI YLLPSGRINV SGLTTKNLDY VATSIHEAVT KIQ

[0060] The following domains have been identified in Cytoplasmic aspartate aminotransferase:

Residues	Length	Domain ID
1	1	Initiator methionine
2-413	412	Cytoplasmic aspartate aminotransferase

[0061] As used herein, the term "tumor necrosis factor receptor superfamily member 5" refers to one or more polypeptides present in a biological sample that are derived from the tumor necrosis factor receptor superfamily member 5 precursor (Swiss-Prot P25942 (SEQ ID NO: 2)).

10 20 30 40 50 60

MVRLPLQCVL WGCLLTAVHP EPPTACREKQ YLINSQCCSL CQPGQKLVSD CTEFTETECL

70 80 90 100 110 120

PCGESEFLDT WNRETHCHQH KYCDPNLGLR VQQKGTSETD TICTCEEGWH CTSEACESCV

130 140 150 160 170 180

LHRSCSPGFG VKQIATGVSD TICEPCPVGF FSNVSSAFEK CHPWTSCETK DLVVQQAGTN

190 200 210 220 230 240

KTDVVCGPQD RLRALVVIPI IFGILFAILL VLVFIKKVAK KPTNKAPHPK QEPQEINFPD

250 260 270

DLPGSNTAAP VQETLHGCQP VTQEDGKESR ISVQERQ

[0062] Most preferably, the tumor necrosis factor receptor superfamily member 5 assay detects one or more soluble forms of tumor necrosis factor receptor superfamily member 5. Tumor necrosis factor receptor superfamily member 5 is a single-pass type I membrane protein having a large extracellular domain, most or all of which is present in soluble forms of tumor necrosis factor receptor superfamily member 5 generated either through alternative splicing event which deletes all or a portion of the transmembrane domain, or by proteolysis of the membrane-bound form. In the case of an immunoassay, one or more antibodies that bind to epitopes within this extracellular domain may be used to detect these soluble form(s). The following domains have been identified in tumor necrosis factor receptor superfamily member 5:

Residues	Length	Domain ID
1-20	20	signal sequence
21-277	257	tumor necrosis factor receptor superfamily member 5
21-193	173	extracellular
194-215	22	transmembrane
216-277	62	cytoplasmic

[0063] In addition, 1 alternative splice form of tumor necrosis factor receptor superfamily member 5 is known. This form is considered a tumor necrosis factor receptor superfamily member 5 for purposes of the present invention, and soluble forms of this alternative splice form is considered a soluble tumor necrosis factor receptor superfamily member 5 for purposes of the present invention.

[0064] As used herein, the term "CD40 ligand" refers to one or more polypeptides present in a biological sample that are derived from the CD40 ligand precursor (Swiss-Prot P29965 (SEQ ID NO: 3)).

10 20 30 40 50 60
MIETYNQTSP RSAATGLPIS MKIFMYLLTV FLITQMIGSA LFAVYLHRRL DKIEDERNLH

70 80 90 100 110 120
EDFVFMKTIQ RCNTGERSLS LLNCEEIKSQ FEGFVKDIML NKEETKKENS FEMQKGDQNP

130 140 150 160 170 180
QIAAHVISEA SSKTTSVLQW AEKGYYTMSN NLVTLENGKQ LTVKRQGLYY IYAQVTFCSN

190 200 210 220 230 240
REASSQAPFI ASLCLKSPGR FERILLRAAN THSSAKPCGQ QSIHLGGVFE LQPGASVFVN

250 260
VTDPSQVSHG TGFTSFGLLK L

[0065] Most preferably, the CD40 ligand assay detects one or more soluble forms of CD40 ligand. CD40 ligand is a single-pass type II membrane protein having a large extracellular domain, most or all of which is present in soluble forms of CD40 ligand generated either through alternative splicing event which deletes all or a portion of the transmembrane domain, or by proteolysis of the membrane-bound form. In the case of an immunoassay, one or more antibodies that bind to epitopes within this extracellular domain may be used to detect these soluble form(s). The following domains have been identified in CD40 ligand:

Residues	Length	Domain ID
1-261	261	CD40 ligand, membrane bound form
113-261	149	CD40 ligand, soluble form
47-261	215	extracellular
23-46	24	anchor signal
1-22	22	cytoplasmic
112-113	2	cleavage site

[0066] As used herein, the term "C-X-C motif chemokine 16" refers to one or more polypeptides present in a biological sample that are derived from the C-X-C motif chemokine 16 precursor (Swiss-Prot Q9H2A7 (SEQ ID NO: 4)).

10 20 30 40 50 60
MGRDLRPGSR VLLLLLLLLL VYLTQPGNGN EGSVTGSCYC GKRISSDSPP SVQFMNRLRK

70 80 90 100 110 120
HLRAYHRCLY YTRFQLLSWS VCGGNKDPWV QELMSCLDLK ECGHAYSGIV AHQKHLLPTS

130 140 150 160 170 180
PPISQASEGA SSDIHTPAQM LLSTLQSTQR PTLPVGSLSS DKELTRPNET TIHTAGHSLA

190 200 210 220 230 240
AGPEAGENQK QPEKNAGPTA RTSATVPVLC LLAIIFILTA ALSYVLCKRR RGQSPQSSPD

250

LPVHYIPVAP DSNT

[0067] Most preferably, the C-X-C motif chemokine 16 assay detects one or more soluble forms of C-X-C motif chemokine 16. C-X-C motif chemokine 16 is a single-pass type I membrane protein having a large extracellular domain, most or all of which is present in soluble forms of C-X-C motif chemokine 16 generated either through alternative splicing event which deletes all or a portion of the transmembrane domain, or by proteolysis of the membrane-bound form. In the case of an immunoassay, one or more antibodies that bind to epitopes within this extracellular domain may be used to detect these soluble form(s). The following domains have been identified in C-X-C motif chemokine 16:

Residues	Length	Domain ID
1-29	29	signal sequence
30-254	225	C-X-C motif chemokine 16
30-205	176	extracellular
206-226	21	transmembrane
227-254	28	cytoplasmic

[0068] As used herein, the term "Protein S100-A12" refers to one or more polypeptides present in a biological sample that are derived from the Protein S100-A12 precursor (Swiss-Prot P80511 (SEQ ID NO: 5)).

10 20 30 40 50 60
MTKLEEHLEG IVNIFHQYSV RKGHFDTLSK GELKQLLTKE LANTIKNIKD KAVIDEIFQG

70 80 90
LDANQDEQVD FQEFISLVAI ALKAAHYHTH KE

[0069] The following domains have been identified in Protein S100-A12:

Residues	Length	Domain ID
1	1	Initiator methionine
2-92	91	Protein S100-A12

[0070] As used herein, the term "Eotaxin" refers to one or more polypeptides present in a biological sample that are derived from the Eotaxin precursor (Swiss-Prot P51671 (SEQ ID NO: 6)).

10 20 30 40 50 60
MKVSAALLWL LLIAAAFSPQ GLAGPASVPT TCCFNLANRK IPLQRLESYR RITSGKCPQK

70 80 90

AVIFKTKLAK DICADPKKKW VQDSMKYLDQ KSPTPKP

[0071] The following domains have been identified in Eotaxin:

Residues	Length	Domain ID
1-23	23	Signal peptide
24-97	74	Eotaxin

[0072] As used herein, the term "E-selectin" refers to one or more polypeptides present in a biological sample that are derived from the E-selectin precursor (Swiss-Prot P16581 (SEQ ID NO: 7)).

10 20 30 40 50 60
MIASQFLSAL TLVLLIKESG AWSYNTSTEA MTYDEASAYC QQRYTHLVAI QNKEEIEYLN

70 80 90 100 110 120
SILSYSPSYY WIGIRKVNNV WVWVGTQKPL TEEAKNWAPG EPNNRQKDED CVEIYIKREK

130 140 150 160 170 180
DVGMWNDERC SKKKLALCYT AACTNTSCSG HGECVETINN YTCKCDPGFS GLKCEQIVNC

190 200 210 220 230 240
TALESPEHGS LVCSHPLGNF SYNSSCSISC DRGYLPSSME TMQCMSSGEW SAPIPACNVV

250 260 270 280 290 300
ECDAVTNPAN GFVECFQNPG SFPWNTTCTF DCEEGFELMG AQSLQCTSSG NWDNEKPTCK

310 320 330 340 350 360
AVTCRAVRQP QNGSVRCSHS PAGEFTFKSS CNFTCEEGFM LQGPAQVECT TQGQWTQQIP

370 380 390 400 410 420
VCEAFQCTAL SNPERGYMNC LPSASGSFRY GSSCEFSCEQ GFVLKGSKRL QCGPTGEWDN

430 440 450 460 470 480
EKPTCEAVRC DAVHQPPKGL VRCAHSPIGE FTYKSSCAFS CEEGFELHGS TQLECTSQGQ

490 500 510 520 530 540
WTEEVPSCQV VKCSSLAVPG KINMSCSGEP VFGTVCKFAC PEGWTLNGSA ARTCGATGHW

550 560 570 580 590 600
SGLLPTCEAP TESNIPLVAG LSAAGLSLLT LAPFLLWLRK CLRKAKKFVP ASSCQSLESD

610
GSYQKPSYIL

[0073] Most preferably, the E-selectin assay detects one or more soluble forms of E-selectin. E-selectin is a single-pass type I membrane protein having a large extracellular domain, most or all of which is present in soluble forms of E-selectin generated either through alternative splicing event

which deletes all or a portion of the transmembrane domain, or by proteolysis of the membrane-bound form. In the case of an immunoassay, one or more antibodies that bind to epitopes within this extracellular domain may be used to detect these soluble form(s). The following domains have been identified in E-selectin:

Residues	Length	Domain ID
1-21	21	signal sequence
22-610	589	E-selectin
22-556	535	extracellular
557-578	22	transmembrane
579-610	32	cytoplasmic

[0074] As used herein, the term "Fibronectin" refers to one or more polypeptides present in a biological sample that are derived from the Fibronectin precursor (Swiss-Prot P02751 (SEQ ID NO: 8)).

10 20 30 40 50 60
MLRGPGPGLL LLAVQCLGTA VPSTGASKSK RQAQQMVQPQ SPVAVSQSKP GCYDNGKHYQ

70 80 90 100 110 120
INQQWERTYL GNALVCTCYG GSRGFNCESK PEAEETCFDK YTGNTYRVGD TYERPKDSMI

130 140 150 160 170 180
WDCTCIGAGR GRISCTIANR CHEGGQSYKI GDTWRRPHET GGYMLECVCL GNGKGEWTCK

190 200 210 220 230 240
PIAEKCFDHA AGTSYVVGET WEKPYQGWMM VDCTCLGEGS GRITCTSRNR CNDQDTRTSY

250 260 270 280 290 300
RIGDTWSKKD NRGNLLQCIC TGNGRGEWKC ERHTSVQTTS SGSGPFTDVR AAVYQPQPHP

310 320 330 340 350 360
QPPPYGHCVT DSGVVYSVGM QWLKTQGNKQ MLCTCLGNGV SCQETAVTQT YGGNSNGEPC

370 380 390 400 410 420
VLPFTYNGRT FYSCTTEGRQ DGHLWCSTTS NYEQDQKYSF CTDHTVLVQT QGGNSNGALC

430 440 450 460 470 480
HFPFLYNNHN YTDCTSEGRR DNMKWCGTTQ NYDADQKFGF CPMAAHEEIC TTNEGVMYRI

490 500 510 520 530 540

GDQWDKQHDM GHMMRCTCVG NGRGEWTCIA YSQLRDQCIV DDITYNVNDT FHKRHEEGHM

550 560 570 580 590 600
LNCTCFGQGR GRWKCDPVDQ CQDSETGTFY QIGDSWEKYV HGVRYQCYCY GRGIGEWHCQ

610 620 630 640 650 660
PLQTYPSSSG PVEVFITETP SQPNSHPIQW NAPQPSHISK YILRWRPKNS VGRWKEATIP

670 680 690 700 710 720
GHLNSYTIKG LKPGVVYEGQ LISIQQYGHQ EVTRFDFTTT STSTPVTSNT VTGETTPFSP

730 740 750 760 770 780
LVATSESVTE ITASSFVVSW VSASDTVSGF RVEYELSEEG DEPQYLDLPS TATSVNIPDL

790 800 810 820 830 840
LPGRKYIVNV YQISEDGEQS LILSTSQTTA PDAPPDPTVD QVDDTSIVVR WSRPQAPITG

850 860 870 880 890 900
YRIVYSPSVE GSSTELNLPE TANSVTLSDL QPGVQYNITI YAVEENQEST PVVIQQETTG

910 920 930 940 950 960
TPRSDTVPSP RDLQFVEVTD VKVTIMWTPP ESAVTGYRVD VIPVNLPGEH GQRLPISRNT

970 980 990 1000 1010 1020
FAEVTGLSPG VTYYFKVFAV SHGRESKPLT AQQTTKLDAP TNLQFVNETD STVLVRWTPP

1030 1040 1050 1060 1070 1080
RAQITGYRLT VGLTRRGQPR QYNVGPSVSK YPLRNLQPAS EYTVSLVAIK GNQESPKATG

1090 1100 1110 1120 1130 1140
VFTTLQPGSS IPPYNTEVTE TTIVITWTPA PRIGFKLGVR PSQGGEAPRE VTSDSGSIVV

1150 1160 1170 1180 1190 1200
SGLTPGVEYV YTIQVLRDGQ ERDAPIVNKV VTPLSPPTNL HLEANPDTGV LTVSWERSTT

1210 1220 1230 1240 1250 1260
PDITGYRITT TPTNGQQGNS LEEVVHADQS SCTFDNLSPG LEYNVSVYTV KDDKESVPIS

1270 1280 1290 1300 1310 1320
DTIIPAVPPP TDLRFTNIGP DTMRVTWAPP PSIDLTNFLV RYSPVKNEED VAELSISPSD

1330 1340 1350 1360 1370 1380
NAVVLTNLLP GTEYVVSVSS VYEQHESTPL RGRQKTGLDS PTGIDFSDIT ANSFTVHWIA

1390 1400 1410 1420 1430 1440
PRATITGYRI RHHPEHFSGR PREDRVPHSR NSITLTNLTP GTEYVVSIVA LNGREESPLL

1450 1460 1470 1480 1490 1500
IGQQSTVSDV PRDLEVVAAT PTSLLISWDA PAVTVRYYRI TYGETGGNSP VQEFTVPGSK

1510 1520 1530 1540 1550 1560
STATISGLKP GVDYTITVYA VTGRGDSPAS SKPISINYRT EIDKPSQMQV TDVQDNSISV

1570 1580 1590 1600 1610 1620

KWLPSSSPVT GYRVTTTPKN GPGPTKTKTA GPDQTEMTIE GLQPTVEYVV SVYAQNPSGE

1630 1640 1650 1660 1670 1680
SQPLVQTAVT NIDRPKGLAF TDVDVDSIKI AWESPQGQVS RYRVTYSSPE DGIHELFPAP

1690 1700 1710 1720 1730 1740
DGEEDTAELQ GLRPGSEYTV SVVALHDDME SQPLIGTQST AIPAPTDLKF TQVTPTSLSA

1750 1760 1770 1780 1790 1800
QWTPPNVQLT GYRVRVTPKE KTGPMKEINL APDSSSVVVS GLMVATKYEV SVYALKDTLT

1810 1820 1830 1840 1850 1860
SRPAQGVVTT LENVSPPRRA RVTDATETTI TISWRTKTET ITGFQVDAVP ANGQTPIQRT

1870 1880 1890 1900 1910 1920
IKPDVRSYTI TGLQPGTDYK IYLYTLNDNA RSSPVVIDAS TAIDAPSNLR FLATTPNSLL

1930 1940 1950 1960 1970 1980
VSWQPPRARI TGYIIKYEKP GSPPREVVPR PRPGVTEATI TGLEPGTEYT IYVIALKNNQ

1990 2000 2010 2020 2030 2040
KSEPLIGRKK TDELPQLVTL PHPNLHGPEI LDVPSTVQKT PFVTHPGYDT GNGIQLPGTS

2050 2060 2070 2080 2090 2100
GQQPSVGQQM IFEEHGFRRT TPPTTATPIR HRPRPYPPNV GEEIQIGHIP REDVDYHLYP

2110 2120 2130 2140 2150 2160
HGPGLNPNAS TGQEALSQTT ISWAPFQDTS EYIISCHPVG TDEEPLQFRV PGTSTSATLT

2170 2180 2190 2200 2210 2220
GLTRGATYNI IVEALKDQQR HKVREEVVTV GNSVNEGLNQ PTDDSCFDPY TVSHYAVGDE

2230 2240 2250 2260 2270 2280
WERMSESGFK LLCQCLGFGS GHFRCDSSRW CHDNGVNYKI GEKWDRQGEN GQMMSCTCLG

2290 2300 2310 2320 2330 2340
NGKGEFKCDP HEATCYDDGK TYHVGEQWQK EYLGAICSCT CFGGQRGWRC DNCRRPGGEP

2350 2360 2370 2380
SPEGTTGQSY NQYSQRYHQR TNTNVNCPIE CFMPLDVQAD REDSRE

[0075] The following domains have been identified in Fibronectin:

Residues	Length	Domain ID
1-31	31	Signal peptide
32-2386	2355	Fibronectin

[0076] At least 14 other isoforms of Fibronectin are known and are considered "fibronectin" for purposes of the present invention.

[0077] As used herein, the term "Granulocyte colony-stimulating factor" refers to one or more polypeptides present in a biological sample that are derived from the Granulocyte colony-stimulating factor precursor (Swiss-Prot P09919 (SEQ ID NO: 9)).

10 20 30 40 50 60
MAGPATQSPM KLMALQLLLW HSALWTVQEA TPLGPASSLP QSFLLKCLEQ
VRKIQGDGAA

70 80 90 100 110 120
LQEKLVSECA TYKLCHPEEL VLLGHSLGIP WAPLSSCPSQ ALQLAGCLSQ LHSGLFLYQG

130 140 150 160 170 180
LLQALEGISP ELGPTLDTLQ LDVADFATTI WQQMEELGMA PALQPTQGAM PAFASAFQRR

190 200
AGGVLVASHL QSFLEVSYRV LRHLAQP

[0078] The following domains have been identified in Granulocyte colony-stimulating factor:

Residues	Length	Domain ID
1-29	29	Signal peptide
30-207	178	Granulocyte colony-stimulating factor

[0079] As used herein, the term "Granulocyte-macrophage colony-stimulating factor" refers to one or more polypeptides present in a biological sample that are derived from the Granulocyte-macrophage colony-stimulating factor precursor (Swiss-Prot P04141 (SEQ ID NO: 10)).

10 20 30 40 50 60
MWLQSLLLLG TVACSISAPA RSPSPSTQPW EHVNAIQEAR RLLNLSRDTA AEMNETVEVI

70 80 90 100 110 120
SEMFDLQEPT CLQTRLELYK QGLRGSLTKL KGPLTMMASH YKQHCPPTPE TSCATQIITF

130 140
ESFKENLKDF LLVIPFDCWE PVQE

[0080] The following domains have been identified in Granulocyte-macrophage colony-stimulating factor:

Residues	Length	Domain ID
1-17	17	Signal peptide
18-144	127	Granulocyte-macrophage colony-stimulating factor

[0081] As used herein, the term "Heparin-binding growth factor 2" refers to one or more polypeptides present in a biological sample that are derived from the Heparin-binding growth factor 2 precursor (Swiss-Prot P09038 (SEQ ID NO: 11)).

10 20 30 40 50 60
MAAGSITTLP ALPEDGGSGA FPPGHFKDPK RLYCKNGGFF LRIHPDGRVD GVREKSDPHI

70 80 90 100 110 120
KLQLQAEERG VVSIKGVCAN RYLAMKEDGR LLASKCVTDE CFFFERLESN NYNTYRSRKY

130 140 150
TSWYVALKRT GQYKLGSKTG PGQKAILFLP MSAKS

[0082] The following domains have been identified in Heparin-binding growth factor 2:

Residues	Length	Domain ID
1-9	9	Propeptide
10-155	146	Heparin-binding growth factor 2

[0083] As used herein, the term "hepatocyte growth factor receptor" refers to one or more polypeptides present in a biological sample that are derived from the hepatocyte growth factor receptor precursor (Swiss-Prot P08581 (SEQ ID NO: 12)).

10 20 30 40 50 60
MKAPAVLAPG ILVLLFTLVQ RSNGECKEAL AKSEMNVNMK YQLPNFTAET PIQNVILHEH

70 80 90 100 110 120
HIFLGATNYI YVLNEEDLQK VAEYKTGPVL EHPDCFPCQD CSSKANLSGG VWKDNINMAL

130 140 150 160 170 180
VVDTYYDDQL ISCGSVNRGT CQRHVFPHNH TADIQSEVHC IFSPQIEEPS QCPDCVVSAL

190 200 210 220 230 240
GAKVLSSVKD RFINFFVGNT INSSYFPDHP LHSISVRRLK ETKDGFMFLT DQSYIDVLPE

250 260 270 280 290 300
FRDSYPIKYV HAFESNNFIY FLTVQRETLD AQTFHTRIIR FCSINSGLHS YMEMPLECIL

310 320 330 340 350 360
TEKRKKRSTK KEVFNILQAA YVSKPGAQLA RQIGASLNDD ILFGVFAQSK PDSAEPMDRS

370 380 390 400 410 420
AMCAFPIKYV NDFFNKIVNK NNVRCLQHFY GPNHEHCFNR TLLRNSSGCE ARRDEYRTEF

430 440 450 460 470 480

TTALQRVDLF MGQFSEVLLT SISTFIKGDL TIANLGTSEG RFMQVVVSRS GPSTPHVNFL

490 500 510 520 530 540

LDSHPVSPEV IVEHTLNQNG YTLVITGKKI TKIPLNGLGC RHFQSCSQCL SAPPFVQCGW

550 560 570 580 590 600

CHDKCVRSEE CLSGTWTQQI CLPAIYKVFP NSAPLEGGTR LTICGWDFGF RRNNKFDLKK

610 620 630 640 650 660

TRVLLGNESC TLTLSESTMN TLKCTVGPAM NKHFNMSIII SNGHGTTQYS TFSYVDPVIT

670 680 690 700 710 720

SISPKYGPMA GGTLLTLTGN YLNSGNSRHI SIGGKTCTLK SVSNSILECY TPAQTISTEF

730 740 750 760 770 780

AVKLKIDLAN RETSIFSYRE DPIVYEIHPT KSFISGGSTI TGVGKNLNSV SVPRMVINVH

790 800 810 820 830 840

EAGRNFTVAC QHRSNSEIIC CTTPSLQQLN LQLPLKTKAF FMLDGILSKY FDLIYVHNPV

850 860 870 880 890 900

FKPFEKPVMI SMGNENVLEI KGNDIDPEAV KGEVLKVGNK SCENIHLHSE AVLCTVPNDL

910 920 930 940 950 960

LKLNSELNIE WKQAISSTVL GKVIVQPDQN FTGLIAGVVS ISTALLLLLG FFLWLKKRKQ

970 980 990 1000 1010 1020

IKDLGSELVR YDARVHTPHL DRLVSARSVS PTTEMVSNES VDYRATFPED QFPNSSQNGS

1030 1040 1050 1060 1070 1080

CRQVQYPLTD MSPILTSGDS DISSPLLQNT VHIDLSALNP ELVQAVQHVV IGPSSLIVHF

1090 1100 1110 1120 1130 1140

NEVIGRGHFG CVYHGTLLDN DGKKIHCAVK SLNRITDIGE VSQFLTEGII MKDFSHPNVL

1150 1160 1170 1180 1190 1200

SLLGICLRSE GSPLVVLPYM KHGDLRNFIR NETHNPTVKD LIGFGLQVAK GMKYLASKKF

1210 1220 1230 1240 1250 1260

VHRDLAARNC MLDEKFTVKV ADFGLARDMY DKEYYSVHNK TGAKLPVKWM ALESLQTQKF

1270 1280 1290 1300 1310 1320

TTKSDVWSFG VVLWELMTRG APPYPDVNTF DITVYLLQGR RLLQPEYCPD PLYEVMLKCW

1330 1340 1350 1360 1370 1380

HPKAEMRPSF SELVSRISAI FSTFIGEHYV HVNATYVNVK CVAPYPSLLS SEDNADDEVD

1390

TRPASFWETS

[0001] Most preferably, the hepatocyte growth factor receptor assay detects one or more soluble forms of hepatocyte growth factor receptor. Hepatocyte growth factor receptor is a single-pass type I membrane protein having a large extracellular domain, most or all of which is present in soluble forms of hepatocyte growth factor receptor generated either through alternative splicing event which deletes all or a portion of the transmembrane domain, or by proteolysis of the membrane-bound form. In the case of an immunoassay, one or more antibodies that bind to epitopes within this extracellular domain may be used to detect these soluble form(s). The following domains have been identified in hepatocyte growth factor receptor:

Residues	Length	Domain ID
1-24	24	signal sequence
25-1390	1366	hepatocyte growth factor receptor
25-932	908	extracellular
933-955	23	transmembrane
956-1390	435	cytoplasmic

[0002] As used herein, the term "Interleukin-1 receptor antagonist protein" refers to one or more polypeptides present in a biological sample that are derived from the Interleukin-1 receptor antagonist protein precursor (Swiss-Prot P18510 (SEQ ID NO: 13)).

10 20 30 40 50 60
MEICRGLRSH LITLLLFLFH SETICRPSGR KSSKMQAFRI WDVNQKTFYL RNNQLVAGYL

70 80 90 100 110 120
QGPNVNLEEK IDVVPIEPHA LFLGIHGGKM CLSCVKSGDE TRLQLEAVNI TDLSENRKQD

130 140 150 160 170
KRFAFIRSDS GPTTSFESAA CPGWFLCTAM EADQPVSLTN MPDEGVMVTK FYFQEDE

[0003] The following domains have been identified in Interleukin-1 receptor antagonist protein:

Residues	Length	Domain ID

1-25	25	Signal peptide
26-177	152	Interleukin-1 receptor antagonist protein

[0004] In addition, three variant isoforms of Interleukin-1 receptor antagonist protein are known. Isoform 2 replaces residues 1-21 with MAL; isoform 3 replaces residues 1-21 with MALADLYEEGGGGGGEGEDNADSK (SEQ ID NO: 2); and isoform 4 lacks residues 1-34.

[0005] As used herein, the term "Interleukin-1 beta" refers to one or more polypeptides present in a biological sample that are derived from the Interleukin-1 beta precursor (Swiss-Prot P01584 (SEQ ID NO: 14)).

10 20 30 40 50 60
MAEVPELASE MMAYYSGNED DLFFEADGPK QMKCSFQDLD LCPLDGGIQL RISDHHYSKG

70 80 90 100 110 120
FRQAASVVVA MDKLRKMLVP CPQTFQENDL STFFPFIFEE EPIFFDTWDN EAYVHDAPVR

130 140 150 160 170 180
SLNCTLRDSQ QKSLVMSGPY ELKALHLQGQ DMEQQVVFSM SFVQGEESND KIPVALGLKE

190 200 210 220 230 240
KNLYLSCVLK DDKPTLQLES VDPKNYPKKK MEKRFVFNKI EINNKLEFES AQFPNWYIST

250 260
SQAENMPVFL GGTKGGQDIT DFTMQFVSS

[0006] The following domains have been identified in Interleukin-1 beta:

Residues	Length	Domain ID
1-116	116	Propeptide
117-269	153	Interleukin-1 beta

[0007] As used herein, the term "Interleukin-10" refers to one or more polypeptides present in a biological sample that are derived from the Interleukin-10 precursor (Swiss-Prot P22301 (SEQ ID NO: 15)).

10 20 30 40 50 60
MHSSALLCCL VLLTGVRASP GQGTQSENSC THFPGNLPNM LRDLRDAFSR VKTFFQMKDQ

70 80 90 100 110 120
LDNLLLKESL LEDFKGYLGC QALSEMIQFY LEEVMPQAEN QDPDIKAHVN SLGENLKTLR

130 140 150 160 170
LRLRRCHRFL PCENKSKAVE QVKNAFNKLQ EKGIYKAMSE FDIFINYIEA YMTMKIRN

[0008] The following domains have been identified in Interleukin-10:

Residues	Length	Domain ID
1-18	18	Signal peptide
19-178	160	Interleukin-10

[0009] As used herein, the term "Interleukin-15" refers to one or more polypeptides present in a biological sample that are derived from the Interleukin-15 precursor (Swiss-Prot P40933 (SEQ ID NO: 16)).

```
      10        20        30        40        50        60
MRISKPHLRS ISIQCYLCLL LNSHFLTEAG IHVFILGCFS AGLPKTEANW VNVISDLKKI

      70        80        90       100       110       120
EDLIQSMHID ATLYTESDVH PSCKVTAMKC FLLELQVISL ESGDASIHDT VENLIILANN

     130       140       150       160
SLSSNGNVTE SGCKECEELE EKNIKEFLQS FVHIVQMFIN TS
```

[0010] The following domains have been identified in Interleukin-15:

Residues	Length	Domain ID
1-29	29	Signal peptide
30-48	19	Propeptide
49-162	114	Interleukin-15

[0011] In addition, two variant Interleukin-15 isoforms are known. Isoform 2 replaces residues 1-37 with MVLGTIDLCS (SEQ ID NO: 17; and isoform 3 replaces residues 1-47 with MDFQVQIFSFLLISASVIMSR (SEQ ID NO: 18).

[0012] As used herein, the term "Interleukin-3" refers to one or more polypeptides present in a biological sample that are derived from the Interleukin-3 precursor (Swiss-Prot P08700 (SEQ ID NO: 19)).

```
      10        20        30        40        50        60
MSRLPVLLLL QLLVRPGLQA PMTQTTPLKT SWVNCSNMID EIITHLKQPP LPLLDFNNLN

      70        80        90       100       110       120
GEDQDILMEN NLRRPNLEAF NRAVKSLQNA SAIESILKNL LPCLPLATAA PTRHPIHIKD

     130       140       150
GDWNEFRRKL TFYLKTLENA QAQQTTLSLA IF
```

[0013] The following domains have been identified in Interleukin-3:

Residues	Length	Domain ID

1-19	19	Signal peptide
20-152	133	Interleukin-3

[0014] As used herein, the term "Myeloperoxidase" refers to one or more polypeptides present in a biological sample that are derived from the Myeloperoxidase precursor (Swiss-Prot P05164 (SEQ ID NO: 20)).

10 20 30 40 50 60
MGVPFFSSLR CMVDLGPCWA GGLTAEMKLL LALAGLLAIL ATPQPSEGAA PAVLGEVDTS

70 80 90 100 110 120
LVLSSMEEAK QLVDKAYKER RESIKQRLRS GSASPMELLS YFKQPVAATR TAVRAADYLH

130 140 150 160 170 180
VALDLLERKL RSLWRRPFNV TDVLTPAQLN VLSKSSGCAY QDVGVTCPEQ DKYRTITGMC

190 200 210 220 230 240
NNRRSPTLGA SNRAFVRWLP AEYEDGFSLP YGWTPGVKRN GFPVALARAV SNEIVRFPTD

250 260 270 280 290 300
QLTPDQERSL MFMQWGQLLD HDLDFTPEPA ARASFVTGVN CETSCVQQPP CFPLKIPPND

310 320 330 340 350 360
PRIKNQADCI PFFRSCPACP GSNITIRNQI NALTSFVDAS MVYGSEEPLA RNLRNMSNQL

370 380 390 400 410 420
GLLAVNQRFQ DNGRALLPFD NLHDDPCLLT NRSARIPCFL AGDTRSSEMP ELTSMHTLLL

430 440 450 460 470 480
REHNRLATEL KSLNPRWDGE RLYQEARKIV GAMVQIITYR DYLPLVLGPT AMRKYLPTYR

490 500 510 520 530 540
SYNDSVDPRI ANVFTNAFRY GHTLIQPFMF RLDNRYQPME PNPRVPLSRV FFASWRVVLE

550 560 570 580 590 600
GGIDPILRGL MATPAKLNRQ NQIAVDEIRE RLFEQVMRIG LDLPALNMQR SRDHGLPGYN

610 620 630 640 650 660
AWRRFCGLPQ PETVGQLGTV LRNLKLARKL MEQYGTPNNI DIWMGGVSEP LKRKGRVGPL

670 680 690 700 710 720
LACIIGTQFR KLRDGDRFWW ENEGVFSMQQ RQALAQISLP RIICDNTGIT TVSKNNIFMS

730 740
NSYPRDFVNC STLPALNLAS WREAS

[0015] The following domains have been identified in Myeloperoxidase:

Residues	Length	Domain ID
1-48	48	Signal peptide

49-745	697	89 kDa Myeloperoxidase
49-164	116	propeptide
155-745	591	84 kDa Myeloperoxidase
165-278	114	Myeloperoxidase light chain
279-745	467	Myeloperoxidase heavy chain

[0016] As used herein, the term "Nidogen-1" refers to one or more polypeptides present in a biological sample that are derived from the Nidogen-1 precursor (Swiss-Prot P14543 (SEQ ID NO: 21)).

10 20 30 40 50 60
MLASSSRIRA AWTRALLLPL LLAGPVGCLS RQELFPFGPG QGDLELEDGD DFVSPALELS

70 80 90 100 110 120
GALRFYDRSD IDAVYVTTNG IIATSEPPAK ESHPGLFPPT FGAVAPFLAD LDTTDGLGKV

130 140 150 160 170 180
YYREDLSPSI TQRAAECVHR GFPEISFQPS SAVVVTWESV APYQGPSRDP DQKGKRNTFQ

190 200 210 220 230 240
AVLASSDSSS YAIFLYPEDG LQFHTTFSKK ENNQVPAVVA FSQGSVGFLW KSNGAYNIFA

250 260 270 280 290 300
NDRESIENLA KSSNSGQQGV WVFEIGSPAT TNGVVPADVI LGTEDGAEYD DEDEDYDLAT

310 320 330 340 350 360
TRLGLEDVGT TPFSYKALRR GGADTYSVPS VLSPRRAATE RPLGPPTERT RSFQLAVETF

370 380 390 400 410 420
HQQHPQVIDV DEVEETGVVF SYNTDSRQTC ANNRHQCSVH AECRDYATGF
CCSCVAGYTG

430 440 450 460 470 480
NGRQCVAEGS PQRVNGKVKG RIFVGSSQVP IVFENTDLHS YVVMNHGRSY TAISTIPETV

490 500 510 520 530 540
GYSLLPLAPV GGIIGWMFAV EQDGFKNGFS ITGGEFTRQA EVTFVGHPGN LVIKQRFSGI

550 560 570 580 590 600
DEHGHLTIDT ELEGRVPQIP FGSSVHIEPY TELYHYSTSV ITSSSTREYT VTEPERDGAS

610 620 630 640 650 660
PSRIYTYQWR QTITFQECVH DDSRPALPST QQLSVDSVFV LYNQEEKILR YAFSNSIGPV

670 680 690 700 710 720
REGSPDALQN PCYIGTHGCD TNAACRPGPR TQFTCECSIG FRGDGRTCYD IDECSEQPSV

730 740 750 760 770 780
CGSHTICNNH PGTFRCECVE GYQFSDEGTC VAVVDQRPIN YCETGLHNCD IPQRAQCIYT

790 800 810 820 830 840

GGSSYTCSCL PGFSGDGQAC QDVDECQPSR CHPDAFCYNT PGSFTCQCKP GYQGDGFRCV

850 860 870 880 890 900
PGEVEKTRCQ HEREHILGAA GATDPQRPIP PGLFVPECDA HGHYAPTQCH GSTGYCWCVD

910 920 930 940 950 960
RDGREVEGTR TRPGMTPPCL STVAPPIHQG PAVPTAVIPL PPGTHLLFAQ TGKIERLPLE

970 980 990 1000 1010 1020
GNTMRKTEAK AFLHVPAKVI IGLAFDCVDK MVYWTDITEP SIGRASLHGG EPTTIIRQDL

1030 1040 1050 1060 1070 1080
GSPEGIAVDH LGRNIFWTDS NLDRIEVAKL DGTQRRVLFE TDLVNPRGIV TDSVRGNLYW

1090 1100 1110 1120 1130 1140
TDWNRDNPKI ETSYMDGTNR RILVQDDLGL PNGLTFDAFS SQLCWVDAGT
NRAECLNPSQ

1150 1160 1170 1180 1190 1200
PSRRKALEGL QYPFAVTSYG KNLYFTDWKM NSVVALDLAI SKETDAFQPH KQTRLYGITT

1210 1220 1230 1240
ALSQCPQGHN YCSVNNGGCT HLCLATPGSR TCRCPDNTLG VDCIERK

[0017] The following domains have been identified in Nidogen-1:

Residues	Length	Domain ID
1-28	28	signal sequence
29-1247	1219	Nidogen-1

[0018] As used herein, the term "oxidized low-density lipoprotein receptor 1" refers to one or more polypeptides present in a biological sample that are derived from the oxidized low-density lipoprotein receptor 1 precursor (Swiss-Prot P78380 (SEQ ID NO: 22)).

10 20 30 40 50 60

MTFDDLKIQT VKDQPDEKSN GKKAKGLQFL YSPWWCLAAA TLGVLCLGLV
VTIMVLGMQL

70 80 90 100 110 120

SQVSDLLTQE QANLTHQKKK LEGQISARQQ AEEASQESEN ELKEMIETLA RKLNEKSKEQ

130 140 150 160 170 180

MELHHQNLNL QETLKRVANC SAPCPQDWIW HGENCYLFSS GSFNWEKSQE
KCLSLDAKLL

190 200 210 220 230 240

KINSTADLDF IQQAISYSSF PFWMGLSRRN PSYPWLWEDG SPLMPHLFRV RGAVSQTYPS

250 260 270

GTCAYIQRGA VYAENCILAA FSICQKKANL RAQ

[0019] Most preferably, the oxidized low-density lipoprotein receptor 1 assay detects one or more soluble forms of oxidized low-density lipoprotein receptor 1. Oxidized low-density lipoprotein receptor 1 is a single-pass type II membrane protein having a large extracellular domain, most or all of which is present in soluble forms of oxidized low-density lipoprotein receptor 1 generated either through alternative splicing event which deletes all or a portion of the transmembrane domain, or by proteolysis of the membrane-bound form. In the case of an immunoassay, one or more antibodies that bind to epitopes within this extracellular domain may be used to detect these soluble form(s). The following domains have been identified in oxidized low-density lipoprotein receptor 1:

Residues	Length	Domain ID
1-273	273	oxidized low-density lipoprotein receptor 1, membrane bound form
1-36	36	cytoplasmic
37-57	21	membrane anchor signal
58-273	216	extracellular

[0020] As used herein, the term "Pappalysin-1" refers to one or more polypeptides present in a biological sample that are derived from the Pappalysin-1 precursor (Swiss-Prot Q13219 (SEQ ID NO: 23)).

10 20 30 40 50 60
MRLWSWVLHL GLLSAALGCG LAERPRRARR DPRAGRPPRP AAGPATCATR AARGRRASPP

70 80 90 100 110 120
PPPPPGGAWE AVRVPRRRQQ REARGATEEP SPPSRALYFS GRGEQLRVLR ADLELPRDAF

130 140 150 160 170 180
TLQVWLRAEG GQRSPAVITG LYDKCSYISR DRGWVVGIHT ISDQDNKDPR YFFSLKTDRA

190 200 210 220 230 240
RQVTTINAHR SYLPGQWVYL AATYDGQFMK LYVNGAQVAT SGEQVGGIFS PLTQKCKVLM

250 260 270 280 290 300
LGGSALNHNY RGYIEHFSLW KVARTQREIL SDMETHGAHT ALPQLLLQEN WDNVKHAWSP

310 320 330 340 350 360
MKDGSSPKVE FSNAHGFLLD TSLEPPLCGQ TLCDNTEVIA SYNQLSSFRQ PKVVRYRVVN

370 380 390 400 410 420
LYEDDHKNPT VTREQVDFQH HQLAEAFKQY NISWELDVLE VSNSSLRRRL ILANCDISKI

430 440 450 460 470 480
GDENCDPECN HTLTGHDGGD CRHLRHPAFV KKQHNGVCDM DCNYERFNFD GGECCDPEIT

490 500 510 520 530 540
NVTQTCFDPD SPHRAYLDVN ELKNILKLDG STHLNIFFAK SSEEELAGVA TWPWDKEALM

550 560 570 580 590 600
HLGGIVLNPS FYGMPGHTHT MIHEIGHSLG LYHVFRGISE IQSCSDPCME TEPSFETGDL

610 620 630 640 650 660
CNDTNPAPKH KSCGDPGPGN DTCGFHSFFN TPYNNFMSYA DDDCTDSFTP NQVARMHCYL

670 680 690 700 710 720
DLVYQGWQPS RKPAPVALAP QVLGHTTDSV TLEWFPPIDG HFFERELGSA CHLCLEGRIL

730 740 750 760 770 780
VQYASNASSP MPCSPSGHWS PREAEGHPDV EQPCKSSVRT WSPNSAVNPH TVPPACPEPQ

790 800 810 820 830 840
GCYLELEFLY PLVPESLTIW VTFVSTDWDS SGAVNDIKLL AVSGKNISLG PQNVFCDVPL

850 860 870 880 890 900
TIRLWDVGEE VYGIQIYTLD EHLEIDAAML TSTADTPLCL QCKPLKYKVV RDPPLQMDVA

910 920 930 940 950 960
SILHLNRKFV DMDLNLGSVY QYWVITISGT EESEPSPAVT YIHGRGYCGD GIIQKDQGEQ

970 980 990 1000 1010 1020
CDDMNKINGD GCSLFCRQEV SFNCIDEPSR CYFHDGDGVC EEFEQKTSIK DCGVYTPQGF

1030 1040 1050 1060 1070 1080
LDQWASNASV SHQDQQCPGW VIIGQPAASQ VCRTKVIDLS EGISQHAWYP CTISYPYSQL

1090 1100 1110 1120 1130 1140
AQTTFWLRAY FSQPMVAAAV IVHLVTDGTY YGDQKQETIS VQLLDTKDQS HDLGLHVLSC

1150 1160 1170 1180 1190 1200
RNNPLIIPVV HDLSQPFYHS QAVRVSFSSP LVAISGVALR SFDNFDPVTL SSCQRGETYS

1210 1220 1230 1240 1250 1260
PAEQSCVHFA CEKTDCPELA VENASLNCSS SDRYHGAQCT VSCRTGYVLQ IRRDDELIKS

1270 1280 1290 1300 1310 1320
QTGPSVTVTC TEGKWNKQVA CEPVDCSIPD HHQVYAASFS CPEGTTFGSQ CSFQCRHPAQ

1330 1340 1350 1360 1370 1380
LKGNNSLLTC MEDGLWSFPE ALCELMCLAP PPVPNADLQT ARCRENKHKV GSFCKYKCKP

1390 1400 1410 1420 1430 1440

GYHVPGSSRK SKKRAFKTQC TQDGSWQEGA CVPVTCDPPP PKFHGLYQCT NGFQFNSECR

1450 1460 1470 1480 1490 1500
IKCEDSDASQ GLGSNVIHCR KDGTWNGSFH VCQEMQGQCS VPNELNSNLK LQCPDGYAIG

1510 1520 1530 1540 1550 1560
SECATSCLDH NSESIILPMN VTVRDIPHWL NPTRVERVVC TAGLKWYPHP ALIHCVKGCE

1570 1580 1590 1600 1610 1620
PFMGDNYCDA INNRAFCNYD GGDCCTSTVK TKKVTPFPMS CDLQGDCACR DPQAQEHSRK

DLRGYSHG

[0021] The following domains have been identified in Pappalysin-1:

Residues	Length	Domain ID
1-22	22	Signal peptide
23-80	58	Propeptide
81-1628	1548	Pappalysin-1

[0022] As used herein, the term "P-selectin glycoprotein ligand 1" refers to one or more polypeptides present in a biological sample that are derived from the P-selectin glycoprotein ligand 1 precursor (Swiss-Prot Q14242 (SEQ ID NO: 24)).

10 20 30 40 50 60

MPLQLLLLLI LLGPGNSLQL WDTWADEAEK ALGPLLARDR RQATEYEYLD YDFLPETEPP

70 80 90 100 110 120

EMLRNSTDTT PLTGPGTPES TTVEPAARRS TGLDAGGAVT ELTTELANMG NLSTDSAAME

130 140 150 160 170 180

IQTTQPAATE AQTTQPVPTE AQTTPLAATE AQTTRLTATE AQTTPLAATE AQTTPPAATE

190 200 210 220 230 240

AQTTQPTGLE AQTTAPAAME AQTTAPAAME AQTTPPAAME AQTTQTTAME AQTTAPEATE

250 260 270 280 290 300

AQTTQPTATE AQTTPLAAME ALSTEPSATE ALSMEPTTKR GLFIPFSVSS VTHKGIPMAA

310 320 330 340 350 360

SNLSVNYPVG APDHISVKQC LLAILILALV ATIFFVCTVV LAVRLSRKGH MYPVRNYSPT

370 380 390 400 410

EMVCISSLLP DGGEGPSATA NGGLSKAKSP GLTPEPREDR EGDDLTLHSF LP

[0023] Most preferably, the P-selectin glycoprotein ligand 1 assay detects one or more soluble forms of P-selectin glycoprotein ligand 1. P-selectin glycoprotein ligand 1 is a single-pass type I membrane protein having a large extracellular domain, most or all of which is present in soluble forms of P-selectin glycoprotein ligand 1 generated either through alternative splicing event which deletes all or a portion of the transmembrane domain, or by proteolysis of the membrane-bound form. In the case of an immunoassay, one or more antibodies that bind to epitopes within this extracellular domain may be used to detect these soluble form(s). The following domains have been identified in P-selectin glycoprotein ligand 1:

Residues	Length	Domain ID
1-17	17	signal sequence
18-41	24	propeptide
42-412	371	P-selectin glycoprotein ligand 1
18-320	303	extracellular
321-341	21	transmembrane
342-412	71	cytoplasmic

[0024] As used herein, the term "Antileukoproteinase" refers to one or more polypeptides present in a biological sample that are derived from the Antileukoproteinase precursor (Swiss-Prot P03973 (SEQ ID NO: 25)).

10 20 30 40 50 60
MKSSGLFPFL VLLALGTLAP WAVEGSGKSF KAGVCPPKKS AQCLRYKKPE CQSDWQCPGK

70 80 90 100 110 120
KRCCPDTCGI KCLDPVDTPN PTRRKPGKCP VTYGQCLMLN PPNFCEMDGQ CKRDLKCCMG

130
MCGKSCVSPV KA

[0025] The following domains have been identified in Antileukoproteinase:

Residues	Length	Domain ID
1-25	25	signal sequence
26-132	107	Antileukoproteinase

[0026] As used herein, the term "Kit ligand" refers to one or more polypeptides present in a biological sample that are derived from the Kit ligand precursor (Swiss-Prot P21583 (SEQ ID NO: 26)).

10 20 30 40 50 60
MKKTQTWILT CIYLQLLLFN PLVKTEGICR NRVTNNVKDV TKLVANLPKD YMITLKYVPG

70 80 90 100 110 120
MDVLPSHCWI SEMVVQLSDS LTDLLDKFSN ISEGLSNYSI IDKLVNIVDD LVECVKENSS

130 140 150 160 170 180
KDLKKSFKSP EPRLFTPEEF FRIFNRSIDA FKDFVVASET SDCVVSSTLS PEKDSRVSVT

190 200 210 220 230 240
KPFMLPPVAA SSLRNDSSSS NRKAKNPPGD SSLHWAAMAL PALFSLIIGF AFGALYWKKR

250 260 270
QPSLTRAVEN IQINEEDNEI SMLQEKEREF QEV

In addition, a soluble splice variant form of Kit ligand has been described (SEQ ID NO:27):

10 20 30 40 50 60

MKKTQTWILT CIYLQLLLFN PLVKTEGICR NRVTNNVKDV TKLVANLPKD YMITLKYVPG

70 80 90 100 110 120

MDVLPSHCWI SEMVVQLSDS LTDLLDKFSN ISEGLSNYSI IDKLVNIVDD LVECVKENSS

130 140 150 160 170 180

KDLKKSFKSP EPRLFTPEEF FRIFNRSIDA FKDFVVASET SDCVVSSTLS PEKGKAKNPP

190 200 210 220 230 240

GDSSLHWAAM ALPALFSLII GFAFGALYWK KRQPSLTRAV ENIQINEEDN EISMLQEKER

EFQEV

[0027] Most preferably, the Kit ligand assay detects one or more soluble forms of Kit ligand. Kit ligand is a single-pass type I membrane protein having a large extracellular domain, most or all of which is present in soluble forms of Kit ligand generated either through alternative splicing event which deletes all or a portion of the transmembrane domain, or by proteolysis of the membrane-bound form. In the case of an immunoassay, one or more antibodies that bind to epitopes within this extracellular domain may be used to detect these soluble form(s). The following domains have been identified in Kit ligand:

Residues Length Domain ID

1-25	25	signal sequence
26-273	248	Kit ligand
26-214	189	extracellular
215-237	23	transmembrane
238-273	36	cytoplasmic

[0028] As used herein, the term "Metalloproteinase inhibitor 1" refers to one or more polypeptides present in a biological sample that are derived from the Metalloproteinase inhibitor 1 precursor (Swiss-Prot P01033 (SEQ ID NO: 28)).

10 20 30 40 50 60
MAPFEPLASG ILLLLWLIAP SRACTCVPPH PQTAFCNSDL VIRAKFVGTP EVNQTTLYQR

70 80 90 100 110 120
YEIKMTKMYK GFQALGDAAD IRFVYTPAME SVCGYFHRSH NRSEEFLIAG KLQDGLLHIT

130 140 150 160 170 180
TCSFVAPWNS LSLAQRRGFT KTYTVGCEEC TVFPCLSIPC KLQSGTHCLW TDQLLQGSEK

190 200
GFQSRHLACL PREPGLCTWQ SLRSQIA

[0029] The following domains have been identified in Metalloproteinase inhibitor 1:

Residues	Length	Domain ID
1-18	23	signal sequence
24-207	184	Metalloproteinase inhibitor 1

[0030] As used herein, the term "Metalloproteinase inhibitor 2" refers to one or more polypeptides present in a biological sample that are derived from the Metalloproteinase inhibitor 2 precursor (Swiss-Prot P16035 (SEQ ID NO: 29)).

10 20 30 40 50 60
MGAAARTLRL ALGLLLLATL LRPADACSCS PVHPQQAFCN ADVVIRAKAV SEKEVDSGND

70 80 90 100 110 120
IYGNPIKRIQ YEIKQIKMFK GPEKDIEFIY TAPSSAVCGV SLDVGGKKEY LIAGKAEGDG

130 140 150 160 170 180
KMHITLCDFI VPWDTLSTTQ KKSLNHRYQM GCECKITRCP MIPCYISSPD ECLWMDWVTE

190 200 210 220
KNINGHQAKF FACIKRSDGS CAWYRGAAPP KQEFLDIEDP

[0031] The following domains have been identified in Metalloproteinase inhibitor 2:

Residues	Length	Domain ID
1-26	26	Signal peptide
27-220	194	Metalloproteinase inhibitor 2

[0032] As used herein, the term "Tumor necrosis factor" refers to one or more polypeptides present in a biological sample that are derived from the Tumor necrosis factor precursor (Swiss-Prot P01375 (SEQ ID NO: 30)).

```
      10        20        30        40        50        60
MSTESMIRDV ELAEEALPKK TGGPQGSRRC LFLSLFSFLI VAGATTLFCL LHFGVIGPQR

      70        80        90       100       110       120
EEFPRDLSLI SPLAQAVRSS SRTPSDKPVA HVVANPQAEG QLQWLNRRAN ALLANGVELR

     130       140       150       160       170       180
DNQLVVPSEG LYLIYSQVLF KGQGCPSTHV LLTHTISRIA VSYQTKVNLL SAIKSPCQRE

     190       200       210       220       230
TPEGAEAKPW YEPIYLGGVF QLEKGDRLSA EINRPDYLDF AESGQVYFGI IAL
```

[0033] Most preferably, the Tumor necrosis factor assay detects one or more soluble forms of Tumor necrosis factor. Tumor necrosis factor is a single-pass type II membrane protein having a large extracellular domain, some or all of which is present in soluble forms of Tumor necrosis factor generated either through alternative splicing event which deletes all or a portion of the transmembrane domain, or by proteolysis of the membrane-bound form. In the case of an immunoassay, one or more antibodies that bind to epitopes within this extracellular domain may be used to detect these soluble form(s). The following domains have been identified in Tumor necrosis factor:

Residues	Length	Domain ID
1-233	233	Tumor necrosis factor, membrane form
77-233	157	Tumor necrosis factor, soluble form
36-56	35	Anchor signal
57-233	177	extracellular
1-35	35	cytoplasmic

[0034] As used herein, the term "Vascular cell adhesion molecule 1" refers to one or more polypeptides present in a biological sample that are derived from the Vascular cell adhesion molecule 1 precursor (Swiss-Prot P19320 (SEQ ID NO: 31)).

```
      10        20        30        40        50        60
MPGKMVVILG ASNILWIMFA ASQAFKIETT PESRYLAQIG DSVSLTCSTT GCESPFFSWR
```

70 80 90 100 110 120
TQIDSPLNGK VTNEGTTSTL TMNPVSFGNE HSYLCTATCE SRKLEKGIQV EIYSFPKDPE

130 140 150 160 170 180
IHLSGPLEAG KPITVKCSVA DVYPFDRLEI DLLKGDHLMK SQEFLEDADR KSLETKSLEV

190 200 210 220 230 240
TFTPVIEDIG KVLVCRAKLH IDEMDSVPTV RQAVKELQVY ISPKNTVISV NPSTKLQEGG

250 260 270 280 290 300
SVTMTCSSEG LPAPEIFWSK KLDNGNLQHL SGNATLTLIA MRMEDSGIYV CEGVNLIGKN

310 320 330 340 350 360
RKEVELIVQE KPFTVEISPG PRIAAQIGDS VMLTCSVMGC ESPSFSWRTQ IDSPLSGKVR

370 380 390 400 410 420
SEGTNSTLTL SPVSFENEHS YLCTVTCGHK KLEKGIQVEL YSFPRDPEIE MSGGLVNGSS

430 440 450 460 470 480
VTVSCKVPSV YPLDRLEIEL LKGETILENI EFLEDTDMKS LENKSLEMTF IPTIEDTGKA

490 500 510 520 530 540
LVCQAKLHID DMEFEPKQRQ STQTLYVNVA PRDTTVLVSP SSILEEGSSV NMTCLSQGFP

550 560 570 580 590 600
APKILWSRQL PNGELQPLSE NATLTLISTK MEDSGVYLCE GINQAGRSRK EVELIIQVTP

610 620 630 640 650 660
KDIKLTAFPS ESVKEGDTVI ISCTCGNVPE TWIILKKKAE TGDTVLKSID GAYTIRKAQL

670 680 690 700 710 720
KDAGVYECES KNKVGSQLRS LTLDVQGREN NKDYFSPELL VLYFASSLII PAIGMIIYFA

730
RKANMKGSYS LVEAQKSKV

[0035] Most preferably, the Vascular cell adhesion molecule 1 assay detects one or more soluble forms of Vascular cell adhesion molecule 1. Vascular cell adhesion molecule 1 is a single-pass type I membrane protein having a large extracellular domain, most or all of which is present in soluble forms of Vascular cell adhesion molecule 1 generated either through alternative splicing event which deletes all or a portion of the transmembrane domain, or by proteolysis of the membrane-bound form. In the case of an immunoassay, one or more antibodies that bind to epitopes within this extracellular domain may be used to detect these soluble form(s). The following domains have been identified in Vascular cell adhesion molecule 1:

Residues	Length	Domain ID
1-24	24	signal sequence
25-739	715	Vascular cell adhesion molecule 1

25-698	674	extracellular
699-720	22	transmembrane
721-739	19	cytoplasmic

[0036] As used herein, the term "Vascular endothelial growth factor A" refers to one or more polypeptides present in a biological sample that are derived from the Vascular endothelial growth factor A precursor (Swiss-Prot P15692 (SEQ ID NO: 32)).

10 20 30 40 50 60
MNFLLSWVHW SLALLLYLHH AKWSQAAPMA EGGGQNHHEV VKFMDVYQRS
YCHPIETLVD

70 80 90 100 110 120
IFQEYPDEIE YIFKPSCVPL MRCGGCCNDE GLECVPTEES NITMQIMRIK PHQGQHIGEM

130 140 150 160 170 180
SFLQHNKCEC RPKKDRARQE KKSVRGKGKG QKRKRKKSRY KSWSVYVGAR
CCLMPWSLPG

190 200 210 220 230
PHPCGPCSER RKHLFVQDPQ TCKCSCKNTD SRCKARQLEL NERTCRCDKP RR

[0037] The following domains have been identified in Vascular endothelial growth factor A:

Residues	Length	Domain ID
1-26	26	Signal peptide
27-232	483	Vascular endothelial growth factor A

In addition, nine other variant forms of Vascular endothelial growth factor A are known, and are considered Vascular endothelial growth factor A for purposes of the present invention. These are VEGF189, VEGF183, VEGF165, VEGF148, VEGF145, VEGF121, VEGF165B, VEGF121B, and VEGF111.

[0038] As used herein, the term "relating a signal to the presence or amount" of an analyte reflects this understanding. Assay signals are typically related to the presence or amount of an analyte through the use of a standard curve calculated using known concentrations of the analyte of interest. As the term is used herein, an assay is "configured to detect" an analyte if an assay can generate a detectable signal indicative of the presence or amount of a physiologically relevant concentration of the analyte. Because an antibody epitope is on the order of 8 amino acids, an immunoassay configured to detect a marker of interest will also detect polypeptides related to the marker sequence, so long as those polypeptides contain the epitope(s) necessary to bind to the antibody or antibodies used in the assay. The term "related marker" as used herein with regard to a biomarker such as one of the kidney injury markers described herein refers to one or more fragments, variants, etc., of a particular marker

or its biosynthetic parent that may be detected as a surrogate for the marker itself or as independent biomarkers. The term also refers to one or more polypeptides present in a biological sample that are derived from the biomarker precursor complexed to additional species, such as binding proteins, receptors, heparin, lipids, sugars, *etc*.

[0039] The term "positive going" marker as that term is used herein refer to a marker that is determined to be elevated in subjects suffering from a disease or condition, relative to subjects not suffering from that disease or condition. The term "negative going" marker as that term is used herein refer to a marker that is determined to be reduced in subjects suffering from a disease or condition, relative to subjects not suffering from that disease or condition.

[0040] The term "subject" as used herein refers to a human or non-human organism. Thus, the methods and compositions described herein are applicable to both human and veterinary disease. Further, while a subject is preferably a living organism, the invention described herein may be used in post-mortem analysis as well. Preferred subjects are humans, and most preferably "patients," which as used herein refers to living humans that are receiving medical care for a disease or condition. This includes persons with no defined illness who are being investigated for signs of pathology.

[0041] Preferably, an analyte is measured in a sample. Such a sample may be obtained from a subject, or may be obtained from biological materials intended to be provided to the subject. For example, a sample may be obtained from a kidney being evaluated for possible transplantation into a subject, and an analyte measurement used to evaluate the kidney for preexisting damage. Preferred samples are body fluid samples.

[0042] The term "body fluid sample" as used herein refers to a sample of bodily fluid obtained for the purpose of diagnosis, prognosis, classification or evaluation of a subject of interest, such as a patient or transplant donor. In certain embodiments, such a sample may be obtained for the purpose of determining the outcome of an ongoing condition or the effect of a treatment regimen on a condition. Preferred body fluid samples include blood, serum, plasma, cerebrospinal fluid, urine, saliva, sputum, and pleural effusions. In addition, one of skill in the art would realize that certain body fluid samples would be more readily analyzed following a fractionation or purification procedure, for example, separation of whole blood into serum or plasma components.

[0043] The term "diagnosis" as used herein refers to methods by which the skilled artisan can estimate and/or determine the probability ("a likelihood") of whether or not a patient is suffering from a given disease or condition. In the case of the present invention, "diagnosis" includes using the results of an assay, most preferably an immunoassay, for a kidney injury marker of the present invention, optionally together with other clinical characteristics, to arrive at a diagnosis (that is, the occurrence or nonoccurrence) of an acute renal injury or ARF for the subject from which a sample was obtained and assayed. That such a diagnosis is "determined" is not meant to imply that the diagnosis is 100% accurate. Many biomarkers are indicative of multiple conditions. The skilled

clinician does not use biomarker results in an informational vacuum, but rather test results are used together with other clinical indicia to arrive at a diagnosis. Thus, a measured biomarker level on one side of a predetermined diagnostic threshold indicates a greater likelihood of the occurrence of disease in the subject relative to a measured level on the other side of the predetermined diagnostic threshold.

[0044] Similarly, a prognostic risk signals a probability ("a likelihood") that a given course or outcome will occur. A level or a change in level of a prognostic indicator, which in turn is associated with an increased probability of morbidity (e.g., worsening renal function, future ARF, or death) is referred to as being "indicative of an increased likelihood" of an adverse outcome in a patient.

[0045] Marker Assays

[0046] In general, immunoassays involve contacting a sample containing or suspected of containing a biomarker of interest with at least one antibody that specifically binds to the biomarker. A signal is then generated indicative of the presence or amount of complexes formed by the binding of polypeptides in the sample to the antibody. The signal is then related to the presence or amount of the biomarker in the sample. Numerous methods and devices are well known to the skilled artisan for the detection and analysis of biomarkers. *See, e.g.*, U.S. Patents 6,143,576; 6,113,855; 6,019,944; 5,985,579; 5,947,124; 5,939,272; 5,922,615; 5,885,527; 5,851,776; 5,824,799; 5,679,526; 5,525,524; and 5,480,792, and *The Immunoassay Handbook*, David Wild, ed. Stockton Press, New York, 1994, each of which is hereby incorporated by reference in its entirety, including all tables, figures and claims.

[0047] The assay devices and methods known in the art can utilize labeled molecules in various sandwich, competitive, or non-competitive assay formats, to generate a signal that is related to the presence or amount of the biomarker of interest. Suitable assay formats also include chromatographic, mass spectrographic, and protein "blotting" methods. Additionally, certain methods and devices, such as biosensors and optical immunoassays, may be employed to determine the presence or amount of analytes without the need for a labeled molecule. *See, e.g.*, U.S. Patents 5,631,171; and 5,955,377, each of which is hereby incorporated by reference in its entirety, including all tables, figures and claims. One skilled in the art also recognizes that robotic instrumentation including but not limited to Beckman ACCESS®, Abbott AXSYM®, Roche ELECSYS®, Dade Behring STRATUS® systems are among the immunoassay analyzers that are capable of performing immunoassays. But any suitable immunoassay may be utilized, for example, enzyme-linked immunoassays (ELISA), radioimmunoassays (RIAs), competitive binding assays, and the like.

[0048] Antibodies or other polypeptides may be immobilized onto a variety of solid supports for use in assays. Solid phases that may be used to immobilize specific binding members include include those developed and/or used as solid phases in solid phase binding assays. Examples of suitable solid phases include membrane filters, cellulose-based papers, beads (including polymeric, latex and paramagnetic particles), glass, silicon wafers, microparticles, nanoparticles, TentaGels, AgroGels,

PEGA gels, SPOCC gels, and multiple-well plates. An assay strip could be prepared by coating the antibody or a plurality of antibodies in an array on solid support. This strip could then be dipped into the test sample and then processed quickly through washes and detection steps to generate a measurable signal, such as a colored spot. Antibodies or other polypeptides may be bound to specific zones of assay devices either by conjugating directly to an assay device surface, or by indirect binding. In an example of the later case, antibodies or other polypeptides may be immobilized on particles or other solid supports, and that solid support immobilized to the device surface.

[0049] Biological assays require methods for detection, and one of the most common methods for quantitation of results is to conjugate a detectable label to a protein or nucleic acid that has affinity for one of the components in the biological system being studied. Detectable labels may include molecules that are themselves detectable (*e.g.*, fluorescent moieties, electrochemical labels, metal chelates, *etc.*) as well as molecules that may be indirectly detected by production of a detectable reaction product (*e.g.*, enzymes such as horseradish peroxidase, alkaline phosphatase, *etc.*) or by a specific binding molecule which itself may be detectable (e.g., biotin, digoxigenin, maltose, oligohistidine, 2,4-dintrobenzene, phenylarsenate, ssDNA, dsDNA, etc.).

[0050] Preparation of solid phases and detectable label conjugates often comprise the use of chemical cross-linkers. Cross-linking reagents contain at least two reactive groups, and are divided generally into homofunctional cross-linkers (containing identical reactive groups) and heterofunctional cross-linkers (containing non-identical reactive groups). Homobifunctional cross-linkers that couple through amines, sulfhydryls or react non- specifically are available from many commercial sources. Maleimides, alkyl and aryl halides, alpha-haloacyls and pyridyl disulfides are thiol reactive groups. Maleimides, alkyl and aryl halides, and alpha-haloacyls react with sulfhydryls to form thiol ether bonds, while pyridyl disulfides react with sulfhydryls to produce mixed disulfides. The pyridyl disulfide product is cleavable. Imidoesters are also very useful for protein-protein cross-links. A variety of heterobifunctional cross-linkers, each combining different attributes for successful conjugation, are commercially available.

[0051] In certain aspects, the present invention provides kits for the analysis of the described kidney injury markers. The kit comprises reagents for the analysis of at least one test sample which comprise at least one antibody that a kidney injury marker. The kit can also include devices and instructions for performing one or more of the diagnostic and/or prognostic correlations described herein. Preferred kits will comprise an antibody pair for performing a sandwich assay, or a labeled species for performing a competitive assay, for the analyte. Preferably, an antibody pair comprises a first antibody conjugated to a solid phase and a second antibody conjugated to a detectable label, wherein each of the first and second antibodies that bind a kidney injury marker. Most preferably each of the antibodies are monoclonal antibodies. The instructions for use of the kit and performing the correlations can be in the form of labeling, which refers to any written or recorded material that is

attached to, or otherwise accompanies a kit at any time during its manufacture, transport, sale or use. For example, the term labeling encompasses advertising leaflets and brochures, packaging materials, instructions, audio or video cassettes, computer discs, as well as writing imprinted directly on kits.

[0052] Antibodies

[0053] The term "antibody" as used herein refers to a peptide or polypeptide derived from, modeled after or substantially encoded by an immunoglobulin gene or immunoglobulin genes, or fragments thereof, capable of specifically binding an antigen or epitope. *See, e.g.* Fundamental Immunology, 3rd Edition, W.E. Paul, ed., Raven Press, N.Y. (1993); Wilson (1994; J. Immunol. Methods 175:267-273; Yarmush (1992) J. Biochem. Biophys. Methods 25:85-97. The term antibody includes antigen-binding portions, i.e., "antigen binding sites," (e.g., fragments, subsequences, complementarity determining regions (CDRs)) that retain capacity to bind antigen, including (i) a Fab fragment, a monovalent fragment consisting of the VL, VH, CL and CHl domains; (ii) a F(ab')2 fragment, a bivalent fragment comprising two Fab fragments linked by a disulfide bridge at the hinge region; (iii) a Fd fragment consisting of the VH and CHl domains; (iv) a Fv fragment consisting of the VL and VH domains of a single arm of an antibody, (v) a dAb fragment (Ward et al., (1989) Nature 341:544-546), which consists of a VH domain; and (vi) an isolated complementarity determining region (CDR). Single chain antibodies are also included by reference in the term "antibody."

[0054] Antibodies used in the immunoassays described herein preferably specifically bind to a kidney injury marker of the present invention. The term "specifically binds" is not intended to indicate that an antibody binds exclusively to its intended target since, as noted above, an antibody binds to any polypeptide displaying the epitope(s) to which the antibody binds. Rather, an antibody "specifically binds" if its affinity for its intended target is about 5-fold greater when compared to its affinity for a non-target molecule which does not display the appropriate epitope(s). Preferably the affinity of the antibody will be at least about 5 fold, preferably 10 fold, more preferably 25-fold, even more preferably 50-fold, and most preferably 100-fold or more, greater for a target molecule than its affinity for a non-target molecule. In preferred embodiments, Preferred antibodies bind with affinities of at least about 10^7 M^{-1}, and preferably between about 10^8 M^{-1} to about 10^9 M^{-1}, about 10^9 M^{-1} to about 10^{10} M^{-1}, or about 10^{10} M^{-1} to about 10^{12} M^{-1} .

[0055] Affinity is calculated as $K_d = k_{off}/k_{on}$ (k_{off} is the dissociation rate constant, K_{on} is the association rate constant and K_d is the equilibrium constant). Affinity can be determined at equilibrium by measuring the fraction bound (r) of labeled ligand at various concentrations (c). The data are graphed using the Scatchard equation: r/c = K(n-r): where r = moles of bound ligand/mole of receptor at equilibrium; c = free ligand concentration at equilibrium; K = equilibrium association constant; and n = number of ligand binding sites per receptor molecule. By graphical analysis, r/c is plotted on the Y-axis versus r on the X-axis, thus producing a Scatchard plot. Antibody affinity

measurement by Scatchard analysis is well known in the art. *See, e.g.*, van Erp *et al., J. Immunoassay* 12: 425-43, 1991; Nelson and Griswold, *Comput. Methods Programs Biomed.* 27: 65-8, 1988.

[0056] The term "epitope" refers to an antigenic determinant capable of specific binding to an antibody. Epitopes usually consist of chemically active surface groupings of molecules such as amino acids or sugar side chains and usually have specific three dimensional structural characteristics, as well as specific charge characteristics. Conformational and nonconformational epitopes are distinguished in that the binding to the former but not the latter is lost in the presence of denaturing solvents.

[0057] Numerous publications discuss the use of phage display technology to produce and screen libraries of polypeptides for binding to a selected analyte. *See, e.g*, Cwirla *et al., Proc. Natl. Acad. Sci. USA* 87, 6378-82, 1990; Devlin *et al., Science* 249, 404-6, 1990, Scott and Smith, *Science* 249, 386-88, 1990; and Ladner *et al.*, U.S. Pat. No. 5,571,698. A basic concept of phage display methods is the establishment of a physical association between DNA encoding a polypeptide to be screened and the polypeptide. This physical association is provided by the phage particle, which displays a polypeptide as part of a capsid enclosing the phage genome which encodes the polypeptide. The establishment of a physical association between polypeptides and their genetic material allows simultaneous mass screening of very large numbers of phage bearing different polypeptides. Phage displaying a polypeptide with affinity to a target bind to the target and these phage are enriched by affinity screening to the target. The identity of polypeptides displayed from these phage can be determined from their respective genomes. Using these methods a polypeptide identified as having a binding affinity for a desired target can then be synthesized in bulk by conventional means. *See, e.g.*, U.S. Patent No. 6,057,098, which is hereby incorporated in its entirety, including all tables, figures, and claims.

[0058] The antibodies that are generated by these methods may then be selected by first screening for affinity and specificity with the purified polypeptide of interest and, if required, comparing the results to the affinity and specificity of the antibodies with polypeptides that are desired to be excluded from binding. The screening procedure can involve immobilization of the purified polypeptides in separate wells of microtiter plates. The solution containing a potential antibody or groups of antibodies is then placed into the respective microtiter wells and incubated for about 30 min to 2 h. The microtiter wells are then washed and a labeled secondary antibody (for example, an anti-mouse antibody conjugated to alkaline phosphatase if the raised antibodies are mouse antibodies) is added to the wells and incubated for about 30 min and then washed. Substrate is added to the wells and a color reaction will appear where antibody to the immobilized polypeptide(s) are present.

[0059] The antibodies so identified may then be further analyzed for affinity and specificity in the assay design selected. In the development of immunoassays for a target protein, the purified target

protein acts as a standard with which to judge the sensitivity and specificity of the immunoassay using the antibodies that have been selected. Because the binding affinity of various antibodies may differ; certain antibody pairs (*e.g.*, in sandwich assays) may interfere with one another sterically, *etc.*, assay performance of an antibody may be a more important measure than absolute affinity and specificity of an antibody.

Assay Correlations

[0060] The term "correlating" as used herein in reference to the use of biomarkers refers to comparing the presence or amount of the biomarker(s) in a patient to its presence or amount in persons known to suffer from, or known to be at risk of, a given condition; or in persons known to be free of a given condition. Often, this takes the form of comparing an assay result in the form of a biomarker concentration to a predetermined threshold selected to be indicative of the occurrence or nonoccurrence of a disease or the likelihood of some future outcome.

[0061] Selecting a diagnostic threshold involves, among other things, consideration of the probability of disease, distribution of true and false diagnoses at different test thresholds, and estimates of the consequences of treatment (or a failure to treat) based on the diagnosis. For example, when considering administering a specific therapy which is highly efficacious and has a low level of risk, few tests are needed because clinicians can accept substantial diagnostic uncertainty. On the other hand, in situations where treatment options are less effective and more risky, clinicians often need a higher degree of diagnostic certainty. Thus, cost/benefit analysis is involved in selecting a diagnostic threshold.

[0062] Suitable thresholds may be determined in a variety of ways. For example, one recommended diagnostic threshold for the diagnosis of acute myocardial infarction using cardiac troponin is the 97.5^{th} percentile of the concentration seen in a normal population. Another method may be to look at serial samples from the same patient, where a prior "baseline" result is used to monitor for temporal changes in a biomarker level.

[0063] Population studies may also be used to select a decision threshold. Reciever Operating Characteristic ("ROC") arose from the field of signal dectection therory developed during World War II for the analysis of radar images, and ROC analysis is often used to select a threshold able to best distinguish a "diseased" subpopulation from a "nondiseased" subpopulation. A false positive in this case occurs when the person tests positive, but actually does not have the disease. A false negative, on the other hand, occurs when the person tests negative, suggesting they are healthy, when they actually do have the disease. To draw a ROC curve, the true positive rate (TPR) and false positive rate (FPR) are determined as the decision threshold is varied continuously. Since TPR is equivalent with sensitivity and FPR is equal to 1 - specificity, the ROC graph is sometimes called the sensitivity vs (1 - specificity) plot. A perfect test will have an area under the ROC curve of 1.0; a random test will

have an area of 0.5. A threshold is selected to provide an acceptable level of specificity and sensitivity.

[0064] In this context, "diseased" is meant to refer to a population having one characteristic (the presence of a disease or condition or the occurrence of some outcome) and "nondiseased" is meant to refer to a population lacking the characteristic. While a single decision threshold is the simplest application of such a method, multiple decision thresholds may be used. For example, below a first threshold, the absence of disease may be assigned with relatively high confidence, and above a second threshold the presence of disease may also be assigned with relatively high confidence. Between the two thresholds may be considered indeterminate. This is meant to be exemplary in nature only.

[0065] In addition to threshold comparisons, other methods for correlating assay results to a patient classification (occurrence or nonoccurrence of disease, likelihood of an outcome, *etc.*) include decision trees, rule sets, Bayesian methods, and neural network methods. These methods can produce probability values representing the degree to which a subject belongs to one classification out of a plurality of classifications.

[0066] Measures of test accuracy may be obtained as described in Fischer *et al., Intensive Care Med.* 29: 1043-51, 2003, and used to determine the effectiveness of a given biomarker. These measures include sensitivity and specificity, predictive values, likelihood ratios, diagnostic odds ratios, and ROC curve areas. The area under the curve ("AUC") of a ROC plot is equal to the probability that a classifier will rank a randomly chosen positive instance higher than a randomly chosen negative one. The area under the ROC curve may be thought of as equivalent to the Mann-Whitney U test, which tests for the median difference between scores obtained in the two groups considered if the groups are of continuous data, or to the Wilcoxon test of ranks.

[0067] As discussed above, suitable tests may exhibit one or more of the following results on these various measures: a specificity of greater than 0.5, preferably at least 0.6, more preferably at least 0.7, still more preferably at least 0.8, even more preferably at least 0.9 and most preferably at least 0.95, with a corresponding sensitivity greater than 0.2, preferably greater than 0.3, more preferably greater than 0.4, still more preferably at least 0.5, even more preferably 0.6, yet more preferably greater than 0.7, still more preferably greater than 0.8, more preferably greater than 0.9, and most preferably greater than 0.95; a sensitivity of greater than 0.5, preferably at least 0.6, more preferably at least 0.7, still more preferably at least 0.8, even more preferably at least 0.9 and most preferably at least 0.95, with a corresponding specificity greater than 0.2, preferably greater than 0.3, more preferably greater than 0.4, still more preferably at least 0.5, even more preferably 0.6, yet more preferably greater than 0.7, still more preferably greater than 0.8, more preferably greater than 0.9, and most preferably greater than 0.95; at least 75% sensitivity, combined with at least 75% specificity; a ROC curve area of greater than 0.5, preferably at least 0.6, more preferably 0.7, still more preferably at least 0.8, even more preferably at least 0.9, and most preferably at least 0.95; an

odds ratio different from 1, preferably at least about 2 or more or about 0.5 or less, more preferably at least about 3 or more or about 0.33 or less, still more preferably at least about 4 or more or about 0.25 or less, even more preferably at least about 5 or more or about 0.2 or less, and most preferably at least about 10 or more or about 0.1 or less; a positive likelihood ratio (calculated as sensitivity/(1-specificity)) of greater than 1, at least 2, more preferably at least 3, still more preferably at least 5, and most preferably at least 10; and or a negative likelihood ratio (calculated as (1-sensitivity)/specificity) of less than 1, less than or equal to 0.5, more preferably less than or equal to 0.3, and most preferably less than or equal to 0.1

[0068] Additional clinical indicia may be combined with the kidney injury marker assay result(s) of the present invention. These include other biomarkers related to renal status. Examples include the following, which recite the common biomarker name, followed by the Swiss-Prot entry number for that biomarker or its parent: Actin (P68133); Adenosine deaminase binding protein (DPP4, P27487); Alpha-1-acid glycoprotein 1 (P02763); Alpha-1-microglobulin (P02760); Albumin (P02768); Angiotensinogenase (Renin, P00797); Annexin A2 (P07355); Beta-glucuronidase (P08236); B-2-microglobulin (P61679); Beta-galactosidase (P16278); BMP-7 (P18075); Brain natriuretic peptide (proBNP, BNP-32, NTproBNP; P16860); Calcium-binding protein Beta (S100-beta, P04271); Carbonic anhydrase (Q16790); Casein Kinase 2 (P68400); Cathepsin B (P07858); Ceruloplasmin (P00450); Clusterin (P10909); Complement C3 (P01024); Cysteine-rich protein (CYR61, O00622); Cytochrome C (P99999); Epidermal growth factor (EGF, P01133); Endothelin-1 (P05305); Exosomal Fetuin-A (P02765); Fatty acid-binding protein, heart (FABP3, P05413); Fatty acid-binding protein, liver (P07148); Ferritin (light chain, P02793; heavy chain P02794); Fructose-1,6-biphosphatase (P09467); GRO-alpha (CXCL1, (P09341); Growth Hormone (P01241); Hepatocyte growth factor (P14210); Insulin-like growth factor I (P01343); Immunoglobulin G; Immunoglobulin Light Chains (Kappa and Lambda); Interferon gamma (P01308); Lysozyme (P61626); Interleukin-1alpha (P01583); Interleukin-2 (P60568); Interleukin-4 (P60568); Interleukin-9 (P15248); Interleukin-12p40 (P29460); Interleukin-13 (P35225); Interleukin-16 (Q14005); L1 cell adhesion molecule (P32004); Lactate dehydrogenase (P00338); Leucine Aminopeptidase (P28838); Meprin A-alpha subunit (Q16819); Meprin A-beta subunit (Q16820); Midkine (P21741); MIP2-alpha (CXCL2, P19875); MMP-2 (P08253); MMP-9 (P14780); Netrin-1 (O95631); Neutral endopeptidase (P08473); Osteopontin (P10451); Renal papillary antigen 1 (RPA1); Renal papillary antigen 2 (RPA2); Retinol binding protein (P09455); Ribonuclease; S100 calcium-binding protein A6 (P06703); Serum Amyloid P Component (P02743); Sodium/Hydrogen exchanger isoform (NHE3, P48764); Spermidine/spermine N1-acetyltransferase (P21673); TGF-Beta1 (P01137); Transferrin (P02787); Trefoil factor 3 (TFF3, Q07654); Toll-Like protein 4 (O00206); Total protein; Tubulointerstitial nephritis antigen (Q9UJW2); Uromodulin (Tamm-Horsfall protein, P07911).

[0069] For purposes of risk stratification, Adiponectin (Q15848); Alkaline phosphatase (P05186); Aminopeptidase N (P15144); CalbindinD28k (P05937); Cystatin C (P01034); 8 subunit of

F1FO ATPase (P03928); Gamma-glutamyltransferase (P19440); GSTa (alpha-glutathione-S-transferase, P08263); GSTpi (Glutathione-S-transferase P; GST class-pi; P09211); IGFBP-1 (P08833); IGFBP-2 (P18065); IGFBP-6 (P24592); Integral membrane protein 1 (Itm1, P46977); Interleukin-6 (P05231); Interleukin-8 (P10145); Interleukin-18 (Q14116); IP-10 (10 kDa interferon-gamma-induced protein, P02778); IRPR (IFRD1, O00458); Isovaleryl-CoA dehydrogenase (IVD, P26440); I-TAC/CXCL11 (O14625); Keratin 19 (P08727); Kim-1 (Hepatitis A virus cellular receptor 1, O43656); L-arginine:glycine amidinotransferase (P50440); Leptin (P41159); Lipocalin2 (NGAL, P80188); MCP-1 (P13500); MIG (Gamma-interferon-induced monokine Q07325); MIP-1a (P10147); MIP-3a (P78556); MIP-1beta (P13236); MIP-1d (Q16663); NAG (N-acetyl-beta-D-glucosaminidase, P54802); Organic ion transporter (OCT2, O15244); Osteoprotegerin (O14788); P8 protein (O60356); Plasminogen activator inhibitor 1 (PAI-1, P05121); ProANP(1-98) (P01160); Protein phosphatase 1-beta (PPI-beta, P62140); Rab GDI-beta (P50395); Renal kallikrein (Q86U61); RT1.B-1 (alpha) chain of the integral membrane protein (Q5Y7A8); Soluble tumor necrosis factor receptor superfamily member 1A (sTNFR-I, P19438); Soluble tumor necrosis factor receptor superfamily member 1B (sTNFR-II, P20333); Tissue inhibitor of metalloproteinases 3 (TIMP-3, P35625); uPAR (Q03405) may be combined with the kidney injury marker assay result(s) of the present invention.

[0070] Other clinical indicia which may be combined with the kidney injury marker assay result(s) of the present invention includes demographic information (e.g., weight, sex, age, race), medical history (e.g., family history, type of surgery, pre-existing disease such as aneurism, congestive heart failure, preeclampsia, eclampsia, diabetes mellitus, hypertension, coronary artery disease, proteinuria, renal insufficiency, or sepsis, type of toxin exposure such as NSAIDs, cyclosporines, tacrolimus, aminoglycosides, foscarnet, ethylene glycol, hemoglobin, myoglobin, ifosfamide, heavy metals, methotrexate, radiopaque contrast agents, or streptozotocin), clinical variables (*e.g.*, blood pressure, temperature, respiration rate), risk scores (APACHE score, PREDICT score, TIMI Risk Score for UA/NSTEMI, Framingham Risk Score), a urine total protein measurement, a glomerular filtration rate, an estimated glomerular filtration rate, a urine production rate, a serum or plasma creatinine concentration, a renal papillary antigen 1 (RPA1) measurement; a renal papillary antigen 2 (RPA2) measurement; a urine creatinine concentration, a fractional excretion of sodium, a urine sodium concentration, a urine creatinine to serum or plasma creatinine ratio, a urine specific gravity, a urine osmolality, a urine urea nitrogen to plasma urea nitrogen ratio, a plasma BUN to creatnine ratio, and/or a renal failure index calculated as urine sodium / (urine creatinine / plasma creatinine). Other measures of renal function which may be combined with the kidney injury marker assay result(s) are described hereinafter and in Harrison's Principles of Internal Medicine, 17th Ed., McGraw Hill, New York, pages 1741-1830, and Current Medical Diagnosis & Treatment 2008, 47th Ed, McGraw Hill, New York, pages 785-815, each of which are hereby incorporated by reference in their entirety.

[0071] Combining assay results/clinical indicia in this manner can comprise the use of multivariate logistical regression, loglinear modeling, neural network analysis, n-of-m analysis, decision tree analysis, etc. This list is not meant to be limiting.

[0072] Diagnosis of Acute Renal Failure

[0073] As noted above, the terms "acute renal (or kidney) injury" and "acute renal (or kidney) failure" as used herein are defined in part in terms of changes in serum creatinine from a baseline value. Most definitions of ARF have common elements, including the use of serum creatinine and, often, urine output. Patients may present with renal dysfunction without an available baseline measure of renal function for use in this comparison. In such an event, one may estimate a baseline serum creatinine value by assuming the patient initially had a normal GFR. Glomerular filtration rate (GFR) is the volume of fluid filtered from the renal (kidney) glomerular capillaries into the Bowman's capsule per unit time. Glomerular filtration rate (GFR) can be calculated by measuring any chemical that has a steady level in the blood, and is freely filtered but neither reabsorbed nor secreted by the kidneys. GFR is typically expressed in units of ml/min:

$$GFR = \frac{\text{Urine Concentration} \times \text{Urine Flow}}{\text{Plasma Concentration}}$$

[0074] By normalizing the GFR to the body surface area, a GFR of approximately 75–100 ml/min per 1.73 m^2 can be assumed. The rate therefore measured is the quantity of the substance in the urine that originated from a calculable volume of blood.

[0075] There are several different techniques used to calculate or estimate the glomerular filtration rate (GFR or eGFR). In clinical practice, however, creatinine clearance is used to measure GFR. Creatinine is produced naturally by the body (creatinine is a metabolite of creatine, which is found in muscle). It is freely filtered by the glomerulus, but also actively secreted by the renal tubules in very small amounts such that creatinine clearance overestimates actual GFR by 10-20%. This margin of error is acceptable considering the ease with which creatinine clearance is measured.

[0076] Creatinine clearance (CCr) can be calculated if values for creatinine's urine concentration (U_{Cr}), urine flow rate (V), and creatinine's plasma concentration (P_{Cr}) are known. Since the product of urine concentration and urine flow rate yields creatinine's excretion rate, creatinine clearance is also said to be its excretion rate ($U_{Cr} \times V$) divided by its plasma concentration. This is commonly represented mathematically as:

$$C_{Cr} = \frac{U_{Cr} \times V}{P_{Cr}}$$

[0077] Commonly a 24 hour urine collection is undertaken, from empty-bladder one morning to the contents of the bladder the following morning, with a comparative blood test then taken:

$$C_{Cr} = \frac{U_{Cr} \times \text{24-hour volume}}{P_{Cr} \times 24 \times 60mins}$$

[0078] To allow comparison of results between people of different sizes, the CCr is often corrected for the body surface area (BSA) and expressed compared to the average sized man as ml/min/1.73 m2. While most adults have a BSA that approaches 1.7 (1.6-1.9), extremely obese or slim patients should have their CCr corrected for their actual BSA:

$$C_{Cr-corrected} = \frac{C_{Cr} \times 1.73}{BSA}$$

[0079] The accuracy of a creatinine clearance measurement (even when collection is complete) is limited because as glomerular filtration rate (GFR) falls creatinine secretion is increased, and thus the rise in serum creatinine is less. Thus, creatinine excretion is much greater than the filtered load, resulting in a potentially large overestimation of the GFR (as much as a twofold difference). However, for clinical purposes it is important to determine whether renal function is stable or getting worse or better. This is often determined by monitoring serum creatinine alone. Like creatinine clearance, the serum creatinine will not be an accurate reflection of GFR in the non-steady-state condition of ARF. Nonetheless, the degree to which serum creatinine changes from baseline will reflect the change in GFR. Serum creatinine is readily and easily measured and it is specific for renal function.

[0080] For purposes of determining urine output on a Urine output on a mL/kg/hr basis, hourly urine collection and measurement is adequate. In the case where, for example, only a cumulative 24-h output was available and no patient weights are provided, minor modifications of the RIFLE urine output criteria have been described. For example, Bagshaw *et al., Nephrol. Dial. Transplant.* 23: 1203–1210, 2008, assumes an average patient weight of 70 kg, and patients are assigned a RIFLE classification based on the following: <35 mL/h (Risk), <21 mL/h (Injury) or <4 mL/h (Failure).

[0081] Selecting a Treatment Regimen

[0082] Once a diagnosis is obtained, the clinician can readily select a treatment regimen that is compatible with the diagnosis, such as initiating renal replacement therapy, withdrawing delivery of compounds that are known to be damaging to the kidney, kidney transplantation, delaying or avoiding procedures that are known to be damaging to the kidney, modifying diuretic administration, initiating goal directed therapy, *etc.* The skilled artisan is aware of appropriate treatments for numerous diseases discussed in relation to the methods of diagnosis described herein. See, e.g., Merck Manual of Diagnosis and Therapy, 17th Ed. Merck Research Laboratories, Whitehouse Station, NJ, 1999. In addition, since the methods and compositions described herein provide prognostic information, the

markers of the present invention may be used to monitor a course of treatment. For example, improved or worsened prognostic state may indicate that a particular treatment is or is not efficacious.

[0083] One skilled in the art readily appreciates that the present invention is well adapted to carry out the objects and obtain the ends and advantages mentioned, as well as those inherent therein. The examples provided herein are representative of preferred embodiments, are exemplary, and are not intended as limitations on the scope of the invention.

[0084] Example 1: Contrast-induced nephropathy sample collection

[0085] The objective of this sample collection study is to collect samples of plasma and urine and clinical data from patients before and after receiving intravascular contrast media. Approximately 250 adults undergoing radiographic/angiographic procedures involving intravascular administration of iodinated contrast media are enrolled. To be enrolled in the study, each patient must meet all of the following inclusion criteria and none of the following exclusion criteria:

Inclusion Criteria

males and females 18 years of age or older;

undergoing a radiographic / angiographic procedure (such as a CT scan or coronary intervention) involving the intravascular administration of contrast media;

expected to be hospitalized for at least 48 hours after contrast administration.

able and willing to provide written informed consent for study participation and to comply with all study procedures.

Exclusion Criteria

renal transplant recipients;

acutely worsening renal function prior to the contrast procedure;

already receiving dialysis (either acute or chronic) or in imminent need of dialysis at enrollment;

expected to undergo a major surgical procedure (such as involving cardiopulmonary bypass) or an additional imaging procedure with contrast media with significant risk for further renal insult within the 48 hrs following contrast administration;

participation in an interventional clinical study with an experimental therapy within the previous 30 days;

known infection with human immunodeficiency virus (HIV) or a hepatitis virus.

[0086] Immediately prior to the first contrast administration (and after any pre-procedure hydration), an EDTA anti-coagulated blood sample (10 mL) and a urine sample (10 mL) are collected from each patient. Blood and urine samples are then collected at 4 (±0.5), 8 (±1), 24 (±2) 48 (±2), and

72 (±2) hrs following the last administration of contrast media during the index contrast procedure. Blood is collected via direct venipuncture or via other available venous access, such as an existing femoral sheath, central venous line, peripheral intravenous line or hep-lock. These study blood samples are processed to plasma at the clinical site, frozen and shipped to Astute Medical, Inc., San Diego, CA. The study urine samples are frozen and shipped to Astute Medical, Inc.

[0087] Serum creatinine is assessed at the site immediately prior to the first contrast administration (after any pre-procedure hydration) and at 4 (±0.5), 8 (±1), 24 (±2) and 48 (±2)), and 72 (±2) hours following the last administration of contrast (ideally at the same time as the study samples are obtained). In addition, each patient's status is evaluated through day 30 with regard to additional serum and urine creatinine measurements, a need for dialysis, hospitalization status, and adverse clinical outcomes (including mortality).

[0088] Prior to contrast administration, each patient is assigned a risk based on the following assessment: systolic blood pressure <80 mm Hg = 5 points; intra-arterial balloon pump = 5 points; congestive heart failure (Class III-IV or history of pulmonary edema) = 5 points; age >75 yrs = 4 points; hematocrit level <39% for men, <35% for women = 3 points; diabetes = 3 points; contrast media volume = 1 point for each 100 mL; serum creatinine level >1.5 g/dL = 4 points OR estimated GFR 40–60 mL/min/1.73 m^2 = 2 points, 20–40 mL/min/1.73 m^2 = 4 points, < 20 mL/min/1.73 m^2 = 6 points. The risks assigned are as follows: risk for CIN and dialysis: 5 or less total points = risk of CIN - 7.5%, risk of dialysis - 0.04%; 6–10 total points = risk of CIN - 14%, risk of dialysis - 0.12%; 11–16 total points = risk of CIN - 26.1%, risk of dialysis - 1.09%; >16 total points = risk of CIN - 57.3%, risk of dialysis - 12.8%.

[0089] Example 2: Cardiac surgery sample collection

[0090] The objective of this sample collection study is to collect samples of plasma and urine and clinical data from patients before and after undergoing cardiovascular surgery, a procedure known to be potentially damaging to kidney function. Approximately 900 adults undergoing such surgery are enrolled. To be enrolled in the study, each patient must meet all of the following inclusion criteria and none of the following exclusion criteria:

Inclusion Criteria

males and females 18 years of age or older;

undergoing cardiovascular surgery;

Toronto/Ottawa Predictive Risk Index for Renal Replacement risk score of at least 2 (Wijeysundera *et al., JAMA* 297: 1801-9, 2007); and

able and willing to provide written informed consent for study participation and to comply with all study procedures.

Exclusion Criteria

known pregnancy;

previous renal transplantation;

acutely worsening renal function prior to enrollment (e.g., any category of

RIFLE criteria);

already receiving dialysis (either acute or chronic) or in imminent need of dialysis at enrollment;

currently enrolled in another clinical study or expected to be enrolled in another clinical study within 7 days of cardiac surgery that involves drug infusion or a therapeutic intervention for AKI;

known infection with human immunodeficiency virus (HIV) or a hepatitis virus.

[0091] Within 3 hours prior to the first incision (and after any pre-procedure hydration), an EDTA anti-coagulated blood sample (10 mL), whole blood (3 mL), and a urine sample (35 mL) are collected from each patient. Blood and urine samples are then collected at 3 (±0.5), 6 (±0.5), 12 (±1), 24 (±2) and 48 (±2) hrs following the procedure and then daily on days 3 through 7 if the subject remains in the hospital. Blood is collected via direct venipuncture or via other available venous access, such as an existing femoral sheath, central venous line, peripheral intravenous line or hep-lock. These study blood samples are frozen and shipped to Astute Medical, Inc., San Diego, CA. The study urine samples are frozen and shipped to Astute Medical, Inc.

[0092] Example 3: Acutely ill subject sample collection

[0093] The objective of this study is to collect samples from acutely ill patients. Approximately 900 adults expected to be in the ICU for at least 48 hours will be enrolled. To be enrolled in the study, each patient must meet all of the following inclusion criteria and none of the following exclusion criteria:

Inclusion Criteria

males and females 18 years of age or older;

Study population 1: approximately 300 patients that have at least one of:

shock (SBP < 90 mmHg and/or need for vasopressor support to maintain MAP > 60 mmHg and/or documented drop in SBP of at least 40 mmHg); and

sepsis;

Study population 2: approximately 300 patients that have at least one of:

IV antibiotics ordered in computerized physician order entry (CPOE) within 24 hours of enrollment;

contrast media exposure within 24 hours of enrollment;

increased Intra-Abdominal Pressure with acute decompensated heart failure; and

severe trauma as the primary reason for ICU admission and likely to be hospitalized in the ICU for 48 hours after enrollment;

Study population 3: approximately 300 patients

expected to be hospitalized through acute care setting (ICU or ED) with a known risk factor for acute renal injury (*e.g.* sepsis, hypotension/shock (Shock = systolic BP < 90 mmHg and/or the need for vasopressor support to maintain a MAP > 60 mmHg and/or a documented drop in SBP > 40 mmHg), major trauma, hemorrhage, or major surgery); and/or expected to be hospitalized to the ICU for at least 24 hours after enrollment.

Exclusion Criteria

known pregnancy;

institutionalized individuals;

previous renal transplantation;

known acutely worsening renal function prior to enrollment (e.g., any category of RIFLE criteria);

received dialysis (either acute or chronic) within 5 days prior to enrollment or in imminent need of dialysis at the time of enrollment;

known infection with human immunodeficiency virus (HIV) or a hepatitis virus;

meets only the SBP < 90 mmHg inclusion criterion set forth above, and does not have shock in the attending physician's or principal investigator's opinion.

[0094] After providing informed consent, an EDTA anti-coagulated blood sample (10 mL) and a urine sample (25-30 mL) are collected from each patient. Blood and urine samples are then collected at 4 (± 0.5) and 8 (± 1) hours after contrast administration (if applicable); at 12 (± 1), 24 (± 2), and 48 (± 2) hours after enrollment, and thereafter daily up to day 7 to day 14 while the subject is hospitalized. Blood is collected via direct venipuncture or via other available venous access, such as an existing femoral sheath, central venous line, peripheral intravenous line or hep-lock. These study blood samples are processed to plasma at the clinical site, frozen and shipped to Astute Medical, Inc., San Diego, CA. The study urine samples are frozen and shipped to Astute Medical, Inc.

[0095] Example 4. Immunoassay format

[0096] Analytes are is measured using standard sandwich enzyme immunoassay techniques. A first antibody which binds the analyte is immobilized in wells of a 96 well polystyrene microplate. Analyte standards and test samples are pipetted into the appropriate wells and any analyte present is bound by the immobilized antibody. After washing away any unbound substances, a horseradish peroxidase-conjugated second antibody which binds the analyte is added to the wells, thereby forming

sandwich complexes with the analyte (if present) and the first antibody. Following a wash to remove any unbound antibody-enzyme reagent, a substrate solution comprising tetramethylbenzidine and hydrogen peroxide is added to the wells. Color develops in proportion to the amount of analyte present in the sample. The color development is stopped and the intensity of the color is measured at 540 nm or 570 nm. An analyte concentration is assigned to the test sample by comparison to a standard curve determined from the analyte standards.

[0097] Concentrations are expressed in the following examples as follows: Cytoplasmic aspartate aminotransferase – µg/mL, soluble Tumor necrosis factor receptor superfamily member 5 ("CD40") – ng/mL, soluble CD40 Ligand – ng/mL, soluble C-X-C Motif chemokine 16 – ng/mL, S100-A12 ("EN-RAGE") – ng/mL, Eotaxin – pg/mL, soluble E-selectin – ng/mL, Fibronectin – ng/mL, Granulocyte colony-stimulating factor – pg/mL, Granulocyte-macrophage colony-stimulating factor – pg/mL, Heparin-binding growth factor 2 – pg/mL, soluble Hepatocyte growth factor receptor – pg/mL, Interleukin-1 receptor antagonist – pg/mL, Interleukin-1 beta – pg/mL, Interleukin-10 – pg/mL, Interleukin-15 – ng/mL, Interleukin-3 – ng/mL, Myeloperoxidase – ng/mL, Nidogen-1 – pg/mL, soluble Oxidized low-density lipoprotein receptor 1 – ng/mL, Pappalysin-1 – mIU/mL, soluble P-selectin glycoprotein ligand 1 – U/mL, Antileukoproteinase ("Secretory leukocyte peptidase inhibitor") – pg/mL, soluble Kit ligand ("Stem cell factor") – pg/mL, Tissue inhibitor of metalloproteinase 1 – ng/mL, Tissue inhibitor of metalloproteinase 2 – pg/mL, soluble Tumor necrosis factor – pg/mL, soluble Vascular cell adhesion molecule 1 – ng/mL, and Vascular endothelial growth factor A – pg/mL.

[0098] Example 5. Apparently Healthy Donor and Chronic Disease Patient Samples

[0099] Human urine samples from donors with no known chronic or acute disease ("Apparently Healthy Donors") were purchased from two vendors (Golden West Biologicals, Inc., 27625 Commerce Center Dr., Temecula, CA 92590 and Virginia Medical Research, Inc., 915 First Colonial Rd., Virginia Beach, VA 23454). The urine samples were shipped and stored frozen at less than -20° C. The vendors supplied demographic information for the individual donors including gender, race (Black /White), smoking status and age.

[00100] Human urine samples from donors with various chronic diseases ("Chronic Disease Patients") including congestive heart failure, coronary artery disease, chronic kidney disease, chronic obstructive pulmonary disease, diabetes mellitus and hypertension were purchased from Virginia Medical Research, Inc., 915 First Colonial Rd., Virginia Beach, VA 23454. The urine samples were shipped and stored frozen at less than -20 degrees centigrade. The vendor provided a case report form for each individual donor with age, gender, race (Black/White), smoking status and alcohol use, height, weight, chronic disease(s) diagnosis, current medications and previous surgeries.

[00101] Example 6. Kidney injury markers for evaluating renal status in patients at RIFLE Stage 0

[00102] Patients from the intensive care unit (ICU) were classified by kidney status as non-injury (0), risk of injury (R), injury (I), and failure (F) according to the maximum stage reached within 7 days of enrollment as determined by the RIFLE criteria.

[00103] Two cohorts were defined as (Cohort 1) patients that did not progress beyond stage 0, and (Cohort 2) patients that reached stage R, I, or F within 10 days. To address normal marker fluctuations that occur within patients at the ICU and thereby assess utility for monitoring AKI status, marker levels were measured in urine samples collected for Cohort 1. Marker concentrations were measured in urine samples collected from a subject at 0, 24 hours, and 48 hours prior to reaching stage R, I or F in Cohort 2. In the following tables, the time "prior max stage" represents the time at which a sample is collected, relative to the time a particular patient reaches the lowest disease stage as defined for that cohort, binned into three groups which are +/- 12 hours. For example, 24 hr prior for this example (0 vs R, I, F) would mean 24 hr (+/- 12 hours) prior to reaching stage R (or I if no sample at R, or F if no sample at R or I).

[00104] Each marker was measured by standard immunoassay methods using commercially available assay reagents. A receiver operating characteristic (ROC) curve was generated for each marker and the area under each ROC curve (AUC) was determined. Patients in Cohort 2 were also separated according to the reason for adjudication to stage R, I, or F as being based on serum creatinine measurements (sCr), being based on urine output (UO), or being based on either serum creatinine measurements or urine output. That is, for those patients adjudicated to stage R, I, or F on the basis of serum creatinine measurements alone, the stage 0 cohort may have included patients adjudicated to stage R, I, or F on the basis of urine output; for those patients adjudicated to stage R, I, or F on the basis of urine output alone, the stage 0 cohort may have included patients adjudicated to stage R, I, or F on the basis of serum creatinine measurements; and for those patients adjudicated to stage R, I, or F on the basis of serum creatinine measurements or urine output, the stage 0 cohort contains only patients in stage 0 for both serum creatinine measurements and urine output. Also, for those patients adjudicated to stage R, I, or F on the basis of serum creatinine measurements or urine output, the adjudication method which yielded the most severe RIFLE stage was used.

[00105] The ability to distinguish cohort 1 (subjects remaining in RIFLE 0) from Cohort 2 (subjects progressing to RIFLE R, I or F) was determined using ROC analysis. SE is the standard error of the AUC, n is the number of sample or individual patients ("pts," as indicated). Standard errors were calculated as described in Hanley, J. A., and McNeil, B.J., The meaning and use of the area under a receiver operating characteristic (ROC) curve. Radiology (1982) 143: 29-36; p values were calculated with a two-tailed Z-test. An AUC < 0.5 is indicative of a negative going marker for the comparison, and an AUC > 0.5 is indicative of a positive going marker for the comparison.

[00106] Various threshold (or "cutoff") concentrations were selected, and the associated sensitivity and specificity for distinguishing cohort 1 from cohort 2 were determined. OR is the odds

ratio calculated for the particular cutoff concentration, and 95% CI is the confidence interval for the odds ratio.

[00107] The results of these three analyses for various markers of the present invention are presented in Fig. 1.

[00108] Example 7. Kidney injury markers for evaluating renal status in patients at RIFLE Stages 0 and R

[00109] Patients were classified and analyzed as described in Example 6. However, patients that reached stage R but did not progress to stage I or F were grouped with patients from non-injury stage 0 in Cohort 1. Cohort 2 in this example included only patients that progressed to stage I or F. Marker concentrations in urine samples were included for Cohort 1. Marker concentrations in urine samples collected within 0, 24, and 48 hours of reaching stage I or F were included for Cohort 2.

[00110] The ability to distinguish cohort 1 (subjects remaining in RIFLE 0 or R) from Cohort 2 (subjects progressing to RIFLE I or F) was determined using ROC analysis.

[00111] Various threshold (or "cutoff") concentrations were selected, and the associated sensitivity and specificity for distinguishing cohort 1 from cohort 2 were determined. OR is the odds ratio calculated for the particular cutoff concentration, and 95% CI is the confidence interval for the odds ratio.

[00112] The results of these three analyses for various markers of the present invention are presented in Fig. 2.

[00113] Example 8. Kidney injury markers for evaluating renal status in patients progressing from Stage R to Stages I and F

[00114] Patients were classified and analyzed as described in Example 6, but only those patients that reached Stage R were included in this example. Cohort 1 contained patients that reached stage R but did not progress to stage I or F within 10 days, and Cohort 2 included only patients that progressed to stage I or F. Marker concentrations in urine samples collected within 12 hours of reaching stage R were included in the analysis for both Cohort 1 and 2.

[00115] The ability to distinguish cohort 1 (subjects remaining in RIFLE R) from Cohort 2 (subjects progressing to RIFLE I or F) was determined using ROC analysis.

[00116] Various threshold (or "cutoff") concentrations were selected, and the associated sensitivity and specificity for distinguishing cohort 1 from cohort 2 were determined. OR is the odds ratio calculated for the particular cutoff concentration, and 95% CI is the confidence interval for the odds ratio.

[00117] The results of these three analyses for various markers of the present invention are presented in Fig. 3.

[00118] Example 9. Kidney injury markers for evaluating renal status in patients at RIFLE Stage 0

[00119] Patients were classified and analyzed as described in Example 6. However, patients that reached stage R or I but did not progress to stage F were eliminated from the analysis. Patients from non-injury stage 0 are included in Cohort 1. Cohort 2 in this example included only patients that progressed to stage F. The maximum marker concentrations in urine samples were included for each patient in Cohort 1. The maximum marker concentrations in urine samples collected within 0, 24, and 48 hours of reaching stage F were included for each patient in Cohort 2.

[00120] The ability to distinguish cohort 1 (subjects remaining in RIFLE 0 or R) from Cohort 2 (subjects progressing to RIFLE I or F) was determined using ROC analysis.

[00121] Various threshold (or "cutoff") concentrations were selected, and the associated sensitivity and specificity for distinguishing cohort 1 from cohort 2 were determined. OR is the odds ratio calculated for the particular cutoff concentration, and 95% CI is the confidence interval for the odds ratio.

[00122] The results of these three analyses for various markers of the present invention are presented in Fig. 4.

[00123] Example 10. Kidney injury markers for evaluating renal status in patients at RIFLE Stage 0

[00124] Patients from the intensive care unit (ICU) were classified by kidney status as non-injury (0), risk of injury (R), injury (I), and failure (F) according to the maximum stage reached within 7 days of enrollment as determined by the RIFLE criteria.

[00125] Two cohorts were defined as (Cohort 1) patients that did not progress beyond stage 0, and (Cohort 2) patients that reached stage R, I, or F within 10 days. To address normal marker fluctuations that occur within patients at the ICU and thereby assess utility for monitoring AKI status, marker levels were measured in the plasma component of blood samples collected for Cohort 1. Marker concentrations were measured in the plasma component of blood samples collected from a subject at 0, 24 hours, and 48 hours prior to reaching stage R, I or F in Cohort 2. In the following tables, the time "prior max stage" represents the time at which a sample is collected, relative to the time a particular patient reaches the lowest disease stage as defined for that cohort, binned into three groups which are +/- 12 hours. For example, 24 hr prior for this example (0 vs R, I, F) would mean 24 hr (+/- 12 hours) prior to reaching stage R (or I if no sample at R, or F if no sample at R or I).

[00126] Each marker was measured by standard immunoassay methods using commercially available assay reagents. A receiver operating characteristic (ROC) curve was generated for each marker and the area under each ROC curve (AUC) was determined. Patients in Cohort 2 were also separated according to the reason for adjudication to stage R, I, or F as being based on serum creatinine measurements (sCr), being based on urine output (UO), or being based on either serum creatinine measurements or urine output. That is, for those patients adjudicated to stage R, I, or F on the basis of serum creatinine measurements alone, the stage 0 cohort may have included patients adjudicated to stage R, I, or F on the basis of urine output; for those patients adjudicated to stage R, I, or F on the basis of urine output alone, the stage 0 cohort may have included patients adjudicated to stage R, I, or F on the basis of serum creatinine measurements; and for those patients adjudicated to stage R, I, or F on the basis of serum creatinine measurements or urine output, the stage 0 cohort contains only patients in stage 0 for both serum creatinine measurements and urine output. Also, for those patients adjudicated to stage R, I, or F on the basis of serum creatinine measurements or urine output, the adjudication method which yielded the most severe RIFLE stage was used.

[00127] The ability to distinguish cohort 1 (subjects remaining in RIFLE 0) from Cohort 2 (subjects progressing to RIFLE R, I or F) was determined using ROC analysis. SE is the standard error of the AUC, n is the number of sample or individual patients ("pts," as indicated). Standard errors were calculated as described in Hanley, J. A., and McNeil, B.J., The meaning and use of the area under a receiver operating characteristic (ROC) curve. Radiology (1982) 143: 29-36; p values were calculated with a two-tailed Z-test. An AUC < 0.5 is indicative of a negative going marker for the comparison, and an AUC > 0.5 is indicative of a positive going marker for the comparison.

[00128] Various threshold (or "cutoff") concentrations were selected, and the associated sensitivity and specificity for distinguishing cohort 1 from cohort 2 were determined. OR is the odds ratio calculated for the particular cutoff concentration, and 95% CI is the confidence interval for the odds ratio.

[00129] The results of these three analyses for various markers of the present invention are presented in Fig. 5.

[00130] Example 11. Kidney injury markers for evaluating renal status in patients at RIFLE Stages 0 and R

[00131] Patients were classified and analyzed as described in Example 10. However, patients that reached stage R but did not progress to stage I or F were grouped with patients from non-injury stage 0 in Cohort 1. Cohort 2 in this example included only patients that progressed to stage I or F. Marker concentrations in the plasma component of blood samples were included for Cohort 1. Marker concentrations in the plasma component of blood samples collected within 0, 24, and 48 hours of reaching stage I or F were included for Cohort 2.

[00132] The ability to distinguish cohort 1 (subjects remaining in RIFLE 0 or R) from Cohort 2 (subjects progressing to RIFLE I or F) was determined using ROC analysis.

[00133] Various threshold (or "cutoff") concentrations were selected, and the associated sensitivity and specificity for distinguishing cohort 1 from cohort 2 were determined. OR is the odds ratio calculated for the particular cutoff concentration, and 95% CI is the confidence interval for the odds ratio.

[00134] The results of these three analyses for various markers of the present invention are presented in Fig. 6.

[00135] Example 12. Kidney injury markers for evaluating renal status in patients progressing from Stage R to Stages I and F

[00136] Patients were classified and analyzed as described in Example 10, but only those patients that reached Stage R were included in this example. Cohort 1 contained patients that reached stage R but did not progress to stage I or F within 10 days, and Cohort 2 included only patients that progressed to stage I or F. Marker concentrations in the plasma component of blood samples collected within 12 hours of reaching stage R were included in the analysis for both Cohort 1 and 2.

[00137] The ability to distinguish cohort 1 (subjects remaining in RIFLE R) from Cohort 2 (subjects progressing to RIFLE I or F) was determined using ROC analysis.

[00138] Various threshold (or "cutoff") concentrations were selected, and the associated sensitivity and specificity for distinguishing cohort 1 from cohort 2 were determined. OR is the odds ratio calculated for the particular cutoff concentration, and 95% CI is the confidence interval for the odds ratio.

[00139] The results of these three analyses for various markers of the present invention are presented in Fig. 7.

[00140] Example 13. Kidney injury markers for evaluating renal status in patients at RIFLE Stage 0

[00141] Patients were classified and analyzed as described in Example 10. However, patients that reached stage R or I but did not progress to stage F were eliminated from the analysis. Patients from non-injury stage 0 are included in Cohort 1. Cohort 2 in this example included only patients that progressed to stage F. The maximum marker concentrations in the plasma component of blood samples were included from each patient in Cohort 1. The maximum marker concentrations in the plasma component of blood samples collected within 0, 24, and 48 hours of reaching stage F were included from each patient in Cohort 2.

[00142] The ability to distinguish cohort 1 (subjects remaining in RIFLE 0 or R) from Cohort 2 (subjects progressing to RIFLE I or F) was determined using ROC analysis.

[00143] Various threshold (or "cutoff) concentrations were selected, and the associated sensitivity and specificity for distinguishing cohort 1 from cohort 2 were determined. OR is the odds ratio calculated for the particular cutoff concentration, and 95% CI is the confidence interval for the odds ratio.

[00144] The results of these three analyses for various markers of the present invention are presented in Fig. 8.

[00145] While the invention has been described and exemplified in sufficient detail for those skilled in this art to make and use it, various alternatives, modifications, and improvements should be apparent without departing from the spirit and scope of the invention. The examples provided herein are representative of preferred embodiments, are exemplary, and are not intended as limitations on the scope of the invention. Modifications therein and other uses will occur to those skilled in the art. These modifications are encompassed within the spirit of the invention and are defined by the scope of the claims.

[00146] It will be readily apparent to a person skilled in the art that varying substitutions and modifications may be made to the invention disclosed herein without departing from the scope and spirit of the invention.

[00147] All patents and publications mentioned in the specification are indicative of the levels of those of ordinary skill in the art to which the invention pertains. All patents and publications are herein incorporated by reference to the same extent as if each individual publication was specifically and individually indicated to be incorporated by reference.

[00148] The invention illustratively described herein suitably may be practiced in the absence of any element or elements, limitation or limitations which is not specifically disclosed herein. Thus, for example, in each instance herein any of the terms "comprising", "consisting essentially of and "consisting of may be replaced with either of the other two terms. The terms and expressions which have been employed are used as terms of description and not of limitation, and there is no intention that in the use of such terms and expressions of excluding any equivalents of the features shown and described or portions thereof, but it is recognized that various modifications are possible within the scope of the invention claimed. Thus, it should be understood that although the present invention has been specifically disclosed by preferred embodiments and optional features, modification and variation of the concepts herein disclosed may be resorted to by those skilled in the art, and that such modifications and variations are considered to be within the scope of this invention as defined by the appended claims.

[00149] Throughout this specification the word "comprise", or variations such as "comprises" or "comprising", will be understood to imply the inclusion of a stated element, integer or step, or group of elements, integers or steps, but not the exclusion of any other element, integer or step, or group of elements, integers or steps.

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[00150] Any discussion of documents, acts, materials, devices, articles or the like which has been included in the present specification is solely for the purpose of providing a context for the present invention. It is not to be taken as an admission that any or all of these matters form part of the prior art base or were common general knowledge in the field relevant to the present invention as it existed before the priority date of each claim of this application.

[00151] Other embodiments are set forth within the following claims.

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THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. A method for evaluating renal status in a subject, comprising:

performing one or more assays on a body fluid sample obtained from the subject to provide one or more assay results, wherein the assay(s) is(are) configured to detect a Tissue Inhibitor of Metalloproteinase-2 (TIMP-2); and

correlating the assay result(s) to the renal status of the subject.

2. The method according to claim 1, comprising:

performing one or more assays on a body fluid sample obtained from the subject to provide one or more assay results, wherein the assay(s) is(are) configured to detect a TIMP-2; and

correlating the assay result(s) to the renal status of the subject by comparing a measured concentration of TIMP-2 in said one or more assay results to a threshold concentration of TIMP-2 and:

(i) assigning a likelihood of an event occurring, or determining that an event has occurred, when the measured concentration is above the threshold concentration; or

(ii) assigning a likelihood of an event not occurring, or determining that an event has not occurred, when the measured concentration is below the threshold concentration.

3. The method according to claim 1 or claim 2, wherein correlating the assay result(s) to the renal status of the subject provides one or more of risk stratification, diagnosis, staging, prognosis, classifying and monitoring of the renal status of the subject.

4. The method according to any one of claims 1 to 3, wherein the event is an injury to renal function, reduced renal function, or acute renal failure (ARF).

5. The method according to any one of claims 1 to 3, wherein the event is an improvement or worsening of renal function in a subject who has suffered from an injury to renal function, reduced renal function, or acute renal failure (ARF).

6. The method according to any one of claims 1 to 3, wherein the event is a worsening of renal function.

7. The method according to claim 6, wherein a measured concentration of TIMP-2 above threshold is indicative of a worsening of renal function.

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8. The method according to claim 6, wherein a measured concentration of TIMP-2 below threshold is indicative of an improvement to renal function.

9. The method according to any one of claims 1 to 3, wherein the event is a future event.

10. The method according to claim 9, wherein the future event is a future change in renal status of the subject.

11. The method according to claim 9 or 10, wherein the future event is a clinical outcome related to a renal injury suffered by the subject.

12. The method according to claim 9 or 10, wherein the future event is a future injury to renal function, future reduced renal function, future acute renal failure (ARF), or a future improvement in renal function of the subject.

13. The method according to any one of claims 1 to 3, wherein the event is subsequent acute kidney injury, worsening stage of acute kidney injury (AKI), mortality, need for renal replacement therapy, need for withdrawal of renal toxins, end stage renal disease, heart failure, stroke, myocardial infarction, or chronic kidney disease of the subject.

14. The method according to any one of claims 1 to 13, wherein a likelihood of the event occurring is a likelihood of the event occurring within 30 days from the time at which the body fluid sample is obtained from the subject.

15. The method according to any one of claims 1 to 13, wherein a likelihood of the event occurring is a likelihood of the event occurring within 21 days or 14 days or 7 days or 5 days or 96 hours or 72 hours or 48 hours or 36 hours or 24 hours or 12 hours from the time at which the body fluid sample is obtained from the subject.

16. The method according to any one of claims 1 to 15, wherein the subject has a pre-existing known risk factor for prerenal, intrinsic renal, or postrenal acute renal failure (ARF).

17. The method according to any one of claims 1 to 16, wherein the subject has been diagnosed for one or more of congestive heart failure, preeclampsia, eclampsia, diabetes mellitus, hypertension, coronary

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artery disease, proteinuria, renal insufficiency, glomerular filtration below the normal range, cirrhosis, serum creatinine above the normal range, sepsis, injury to renal function, reduced renal function, or acute renal failure (ARF), or is undergoing or has undergone major vascular surgery, coronary artery bypass, or other cardiac surgery, or has been or is exposed to non-steroidal anti-inflammatory drug (NSAID), cyclosporine, tacrolimus, aminoglycoside, foscarnet, ethylene glycol, hemoglobin, myoglobin, ifosfamide, heavy metal, methotrexate, radiopaque contrast agent, or streptozotocin.

18. The method according to any one of claims 1 to 17, comprising contacting the body fluid sample with an antibody that binds to TIMP-2, and correlating the amount of antibody bound to TIMP-2 in the body fluid sample to the renal status of the subject.

19. The method according to claim 18, wherein the antibody is bound to a solid support.

20. The method according to claim 18, wherein the antibody is bound to a detectable label.

21. The method according to any one of claims 1 to 20, wherein the body fluid is selected from urine, plasma, serum and blood.

22. The method according to any one of claims 1 to 21 when used to diagnose

(i) an injury to renal function or non-occurrence of said injury to renal function, or

(ii) reduced renal function or non-occurrence of said reduced renal function, or

(iii) an acute renal failure or non-occurrence of said acute renal failure, or

(iv) a need for renal replacement therapy or non-occurrence of said need for renal replacement therapy, or

(v) a need for renal transplantation or non-occurrence of said need for renal transplantation.

23. The method according to any one of claims 1 to 21 when used to determine

(i) a risk of future injury to renal function or non-occurrence of said risk of future injury to renal function, or

(ii) a risk of future reduced renal function or non-occurrence of said risk of future reduced renal function, or

(iii) a risk of future acute renal failure or non-occurrence of said risk future acute renal failure, or

(iv) a risk of future need for renal replacement therapy or non-occurrence of said risk of future need for renal replacement therapy, or

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(v) a risk of future need for renal transplantation or non-occurrence of said risk of future need for renal transplantation.

24. Use of an antibody that binds specifically to Tissue Inhibitor of Metalloproteinase-2 (TIMP-2) in a body fluid sample of a subject to prepare a diagnostic test, wherein binding of said antibody to the body fluid sample is correlated with a present or future likelihood of reduced renal function, acute renal failure (ARF), acute kidney injury (AKI), worsening stage of AKI, mortality, need for renal replacement therapy, need for withdrawal of renal toxins, end stage renal disease, heart failure, stroke, myocardial infarction, or chronic kidney disease in the subject.

25. The use of claim 24, wherein the diagnostic test is for evaluating one or more of reduced renal function, acute renal failure (ARF), acute kidney injury (AKI), worsening stage of AKI, need for renal replacement therapy, need for withdrawal of renal toxins, end stage renal disease or chronic kidney disease in a subject, and wherein binding of said antibody to the body fluid sample of the subject is correlated with a present or future likelihood of reduced renal function, acute renal failure (ARF), acute kidney injury (AKI), worsening stage of AKI, mortality, need for renal replacement therapy, need for withdrawal of renal toxins, end stage renal disease or chronic kidney disease in the subject.

26. The use according to claim 24 or claim 25, wherein binding of the antibody to the body fluid sample is correlated with a present or future likelihood of acute kidney injury (AKI).

27. The use according to claim 24 or claim 25, wherein binding of the antibody to the body fluid sample is correlated with a present or future likelihood of acute renal failure (ARF).

28. The use according to claim 26 or 27, wherein binding of the antibody to the body fluid sample is correlated with a future AKI or future ARF.

29. The use according to claim 28, wherein binding of the antibody to the body fluid sample is correlated with a likelihood of AKI or ARF occurring or not occurring within 30 days from the time at which the body fluid sample is obtained from the subject.

30. The use according to claim 29, wherein binding of the antibody to the body fluid sample is correlated with a likelihood of AKI or ARF occurring or not occurring within 72 hours or 48 hours or 24 hours from the time at which the body fluid sample is obtained from the subject.

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31. A diagnostic test kit when used in the method according to any one of claims 1 to 23, wherein said diagnostic test kit comprises an antibody that binds specifically to Tissue Inhibitor of Metalloproteinase-2 (TIMP-2).

32. Use of a Tissue Inhibitor of Metalloproteinase-2 (TIMP-2) in a method of evaluating renal status of a subject comprising determining a level of TIMP-2 in a body fluid sample of a subject.

33. The use of claim 32, wherein the method is a method of evaluating one or more of reduced renal function, acute renal failure (ARF), acute kidney injury (AKI), worsening stage of AKI, need for renal replacement therapy, need for withdrawal of renal toxins, end stage renal disease or chronic kidney disease in a subject.

34. The method according to any one of claims 1 to 23 or the use according to any one of claims 24 to 30, 32 or 33 or the diagnostic test kit according to claim 31 substantially as herein before described with references to the Examples and/or Figures.

DATED this NINTH day of SEPTEMBER, 2014

Astute Medical, Inc.
by patent attorneys for the applicant:
FB Rice

Aspartate aminotransferase, cytoplasmic

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	8.010	7.310	8.010	7.750	8.010	8.670
average	9.193	8.274	9.193	9.452	9.193	10.558
stdev	8.833	7.266	8.833	7.741	8.833	7.928
p (t-test)		0.479		0.833		0.442
min	0.527	0.584	0.527	0.865	0.527	0.931
max	104.000	36.100	104.000	41.200	104.000	31.500
n (Samp)	249	53	249	62	249	27
n (Pat)	104	53	104	62	104	27

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	7.540	7.060	7.540	8.110	7.540	8.365
average	9.546	8.161	9.546	8.973	9.546	10.567
stdev	10.769	6.576	10.769	5.925	10.769	10.517
p (t-test)		0.569		0.788		0.727
min	0.527	0.476	0.527	1.160	0.527	0.931
max	142.000	22.600	142.000	28.700	142.000	41.400
n (Samp)	441	20	441	26	441	14
n (Pat)	170	20	170	26	170	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	7.385	6.780	7.385	8.265	7.385	10.100
average	8.321	7.766	8.321	10.448	8.321	10.974
stdev	5.763	7.103	5.763	8.252	5.763	7.326
p (t-test)		0.568		0.031		0.036
min	0.527	0.834	0.527	0.865	0.527	0.974
max	39.200	36.100	39.200	41.200	39.200	31.500
n (Samp)	212	47	212	52	212	25
n (Pat)	85	47	85	52	85	25

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.46	0.043	249	53	0.381
24 hours	0.51	0.041	249	62	0.756
48 hours	0.57	0.060	249	27	0.251

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.47	0.065	441	20	0.619
24 hours	0.53	0.059	441	26	0.574
48 hours	0.53	0.080	441	14	0.697

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.45	0.045	212	47	0.316
24 hours	0.57	0.045	212	52	0.134
48 hours	0.63	0.063	212	25	0.034

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	2.24	72%	14%	1			
	1.06	83%	8%	2	0.5	0.3	0.8
	0.845	91%	5%	3	0.8	0.6	1.2
	9.89	32%	70%	4	1.2	0.9	1.6
	12	23%	80%				
	15.7	11%	90%				

Fig. 1 - 1

24 hours	5.92	71%	31%	1			
	3.95	81%	15%	2	1.4	1.0	1.8
	1.18	90%	10%	3	0.8	0.6	1.2
	9.89	34%	70%	4	1.4	1.0	1.8
	12	26%	80%				
	15.7	13%	90%				
48 hours	6.64	70%	42%	1			
	5.07	81%	23%	2	0.8	0.4	1.8
	0.984	93%	8%	3	1.0	0.5	2.0
	9.89	44%	70%	4	1.8	1.0	3.2
	12	33%	80%				
	15.7	15%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	5.58	70%	27%	1			
	0.773	80%	2%	2	0.3	0.1	1.0
	0.527	90%	0%	3	0.7	0.3	1.4
	9.87	40%	70%	4	0.9	0.5	1.6
	12.2	25%	80%				
	17.8	10%	90%				
24 hours	5.92	73%	33%	1			
	4.53	81%	20%	2	1.0	0.5	2.0
	1.18	92%	11%	3	0.8	0.4	1.7
	9.87	42%	70%	4	1.5	0.9	2.7
	12.2	27%	80%				
	17.8	4%	90%				
48 hours	5.67	71%	29%	1			
	1.54	86%	14%	2	0.2	0.0	2.9
	1.24	93%	11%	3	1.0	0.4	2.7
	9.87	36%	70%	4	1.3	0.5	3.1
	12.2	29%	80%				
	17.8	14%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	2.24	70%	15%	1			
	1.08	83%	9%	2	0.8	0.5	1.2
	0.923	91%	7%	3	0.8	0.5	1.2
	9.53	26%	70%	4	1.4	0.9	2.0
	11.6	19%	81%				
	14.6	13%	90%				
24 hours	6.37	73%	41%	1			
	5.58	81%	29%	2	1.7	1.1	2.6
	1.41	90%	12%	3	1.4	0.9	2.2
	9.53	37%	70%	4	2.2	1.5	3.3
	11.6	27%	81%				
	14.6	21%	90%				
48 hours	7.23	72%	50%	1			
	6.24	80%	38%	2	1.7	0.6	5.3
	3.91	92%	17%	3	1.7	0.6	5.3
	9.53	52%	70%	4	4.7	1.9	11.4
	11.6	32%	81%				
	14.6	16%	90%				

Fig. 1 - 2

CD40

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	26.600	44.600	26.600	42.750	26.600	52.400
average	42.723	58.310	42.723	57.895	42.723	59.405
stdev	50.158	50.250	50.158	60.332	50.158	46.258
p (t-test)		0.041		0.042		0.099
min	0.994	0.000	0.994	2.740	0.994	1.770
max	326.000	254.000	326.000	286.000	326.000	164.000
n (Samp)	249	53	249	62	249	27
n (Pat)	104	53	104	62	104	27

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	32.900	33.450	32.900	30.950	32.900	42.450
average	47.128	37.576	47.128	56.576	47.128	55.461
stdev	49.778	28.827	49.778	65.082	49.778	49.641
p (t-test)		0.395		0.356		0.538
min	0.000	3.170	0.000	2.740	0.000	6.800
max	326.000	95.300	326.000	243.000	326.000	150.000
n (Samp)	441	20	441	26	441	14
n (Pat)	170	20	170	26	170	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	26.350	60.100	26.350	43.300	26.350	42.500
average	35.568	67.068	35.568	59.223	35.568	53.852
stdev	31.675	49.319	31.675	55.567	31.675	41.704
p (t-test)		0.000		0.000		0.009
min	0.994	0.000	0.994	3.240	0.994	1.770
max	174.000	254.000	174.000	286.000	174.000	164.000
n (Samp)	212	47	212	52	212	25
n (Pat)	85	47	85	52	85	25

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.63	0.044	249	53	0.004
24 hours	0.60	0.042	249	62	0.016
48 hours	0.63	0.060	249	27	0.033

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.47	0.065	441	20	0.655
24 hours	0.51	0.059	441	26	0.895
48 hours	0.55	0.080	441	14	0.504

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.73	0.044	212	47	0.000
24 hours	0.67	0.045	212	52	0.000
48 hours	0.64	0.062	212	25	0.025

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	27.4	72%	52%	1			
	16	81%	34%	2	1.5	0.9	2.5

Fig. 1 - 3

	6.93	91%	12%	3	2.2	1.4	3.6
	48.2	45%	70%	4	4.0	2.6	6.1
	61.6	40%	80%				
	92.6	19%	90%				
24 hours	22.3	71%	44%	1			
	17.6	81%	36%	2	1.8	1.2	2.7
	8.41	90%	16%	3	2.3	1.5	3.3
	48.2	35%	70%	4	2.6	1.8	3.8
	61.6	29%	80%				
	92.6	15%	90%				
48 hours	24	70%	46%	1			
	13.6	81%	29%	2	0.8	0.3	2.0
	6.54	93%	11%	3	1.4	0.7	3.0
	48.2	56%	70%	4	2.4	1.3	4.6
	61.6	37%	80%				
	92.6	30%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	16	70%	27%	1			
	10.3	80%	18%	2	1.0	0.4	2.3
	6.09	90%	8%	3	0.8	0.3	2.0
	51.8	30%	70%	4	1.2	0.6	2.6
	70.1	20%	80%				
	99.9	0%	90%				
24 hours	17.8	73%	30%	1			
	12.6	81%	22%	2	0.8	0.4	1.6
	5.49	92%	6%	3	0.8	0.4	1.6
	51.8	31%	70%	4	1.0	0.5	1.8
	70.1	23%	80%				
	99.9	15%	90%				
48 hours	21.9	71%	36%	1			
	11.6	86%	20%	2	1.0	0.3	3.8
	6.93	93%	11%	3	1.3	0.4	4.3
	51.8	43%	70%	4	1.3	0.4	4.3
	70.1	29%	80%				
	99.9	21%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	37.6	70%	65%	1			
	28.2	81%	55%	2	1.5	0.6	3.7
	15	91%	29%	3	3.8	1.8	7.6
	44.2	64%	70%	4	8.8	4.6	16.9
	56.1	51%	80%				
	76.9	36%	90%				
24 hours	27.3	71%	53%	1			
	22.3	81%	44%	2	1.8	1.0	3.2
	14.4	90%	27%	3	3.5	2.1	5.8
	44.2	46%	70%	4	4.0	2.4	6.7
	56.1	37%	80%				
	76.9	19%	90%				
48 hours	23.6	72%	46%	1			
	21.6	80%	43%	2	2.1	0.7	6.1
	12.2	92%	25%	3	1.7	0.6	5.3
	44.2	48%	70%	4	4.2	1.7	10.4
	56.1	36%	80%				
	76.9	24%	90%				

CD40 Ligand

sCr or UO

Fig. 1 - 4

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.198	0.191	0.198	0.294	0.198	0.295
average	0.243	0.269	0.243	0.302	0.243	0.332
stdev	0.172	0.189	0.172	0.191	0.172	0.208
p (t-test)		0.319		0.018		0.013
min	0.011	0.017	0.011	0.017	0.011	0.019
max	0.869	0.712	0.869	0.891	0.869	0.778
n (Samp)	249	53	249	62	249	27
n (Pat)	104	53	104	62	104	27

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.221	0.175	0.221	0.311	0.221	0.294
average	0.256	0.215	0.256	0.293	0.256	0.304
stdev	0.176	0.161	0.176	0.208	0.176	0.196
p (t-test)		0.314		0.293		0.313
min	0.010	0.017	0.010	0.017	0.010	0.019
max	0.891	0.529	0.891	0.640	0.891	0.623
n (Samp)	441	20	441	26	441	14
n (Pat)	170	20	170	26	170	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.203	0.264	0.203	0.308	0.203	0.282
average	0.231	0.300	0.231	0.320	0.231	0.323
stdev	0.155	0.192	0.155	0.167	0.155	0.181
p (t-test)		0.009		0.000		0.006
min	0.011	0.057	0.011	0.047	0.011	0.019
max	0.659	0.712	0.659	0.891	0.659	0.778
n (Samp)	212	47	212	52	212	25
n (Pat)	85	47	85	52	85	25

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.54	0.044	249	53	0.410
24 hours	0.59	0.042	249	62	0.029
48 hours	0.63	0.060	249	27	0.032

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.43	0.063	441	20	0.285
24 hours	0.54	0.059	441	26	0.516
48 hours	0.58	0.081	441	14	0.347

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.60	0.047	212	47	0.033
24 hours	0.66	0.045	212	52	0.000
48 hours	0.66	0.062	212	25	0.012

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.117	72%	32%	1			
	0.0926	81%	23%	2	1.3	0.9	1.8
	0.0707	91%	11%	3	0.5	0.3	0.9
	0.316	40%	71%	4	1.8	1.3	2.4
	0.393	30%	80%				
	0.504	13%	90%				
24 hours	0.164	71%	45%	1			

Fig. 1 - 5

	0.11	81%	30%	2	0.7	0.5	1.1
	0.0497	90%	6%	3	1.9	1.3	2.6
	0.316	47%	71%	4	2.0	1.4	2.8
	0.393	31%	80%				
	0.504	15%	90%				
48 hours	0.216	74%	54%	1			
	0.15	81%	41%	2	0.7	0.2	2.5
	0.0193	93%	1%	3	2.1	1.0	4.7
	0.316	44%	71%	4	3.4	1.7	7.0
	0.393	41%	80%				
	0.504	26%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.0916	70%	22%	1			
	0.075	80%	14%	2	1.3	0.5	3.2
	0.0401	90%	5%	3	1.0	0.4	2.8
	0.35	25%	70%	4	1.8	0.8	4.1
	0.419	15%	80%				
	0.507	5%	90%				
24 hours	0.0889	73%	21%	1			
	0.0606	81%	10%	2	0.0	0.0	na
	0.0302	92%	3%	3	1.0	0.6	1.6
	0.35	42%	70%	4	0.9	0.5	1.4
	0.419	27%	80%				
	0.507	19%	90%				
48 hours	0.178	71%	43%	1			
	0.102	86%	25%	2	2.0	0.4	9.1
	0.0193	93%	1%	3	1.0	0.1	7.3
	0.35	43%	70%	4	3.1	0.8	11.8
	0.419	36%	80%				
	0.507	14%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.131	70%	39%	1			
	0.103	81%	29%	2	1.9	1.2	3.0
	0.0748	91%	13%	3	0.5	0.2	1.0
	0.312	49%	70%	4	3.3	2.2	5.1
	0.373	45%	80%				
	0.459	23%	90%				
24 hours	0.232	71%	56%	1			
	0.158	81%	43%	2	2.8	1.3	5.9
	0.128	90%	38%	3	6.3	3.2	12.2
	0.312	48%	70%	4	6.3	3.2	12.2
	0.373	35%	80%				
	0.459	17%	90%				
48 hours	0.221	72%	54%	1			
	0.216	80%	53%	2	1.5	0.3	8.4
	0.115	92%	32%	3	6.5	1.9	22.4
	0.312	40%	70%	4	5.0	1.4	17.9
	0.373	36%	80%				
	0.459	28%	90%				

CXCL16 (C-X-C Motif chemokine 16)

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.091	0.311	0.091	0.226	0.091	0.189
average	0.699	1.025	0.699	1.305	0.699	0.853

Fig. 1 - 6

stdev	1.674	1.876	1.674	2.421	1.674	1.987
p (t-test)		0.238		0.037		0.673
min	0.000	0.000	0.000	0.000	0.000	0.011
max	10.210	8.620	10.210	9.522	10.210	9.506
n (Samp)	162	52	162	59	162	26
n (Pat)	103	52	103	59	103	26

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.124	0.219	0.124	0.177	0.124	0.194
average	0.841	1.410	0.841	1.756	0.841	1.084
stdev	1.822	2.686	1.822	2.962	1.822	2.335
p (t-test)		0.201		0.025		0.630
min	0.000	0.000	0.000	0.000	0.000	0.018
max	10.210	10.538	10.210	9.861	10.210	8.669
n (Samp)	320	19	320	24	320	14
n (Pat)	167	19	167	24	167	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.091	0.432	0.091	0.268	0.091	0.193
average	0.573	1.214	0.573	1.406	0.573	1.042
stdev	1.323	2.019	1.323	2.459	1.323	2.117
p (t-test)		0.014		0.003		0.156
min	0.000	0.001	0.000	0.011	0.000	0.011
max	9.383	8.620	9.383	9.522	9.383	9.506
n (Samp)	138	46	138	50	138	23
n (Pat)	84	46	84	50	84	23

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.61	0.046	162	52	0.016
24 hours	0.60	0.044	162	59	0.030
48 hours	0.58	0.062	162	26	0.187

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.53	0.069	320	19	0.701
24 hours	0.53	0.062	320	24	0.630
48 hours	0.52	0.080	320	14	0.809

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.67	0.048	138	46	0.000
24 hours	0.66	0.047	138	50	0.001
48 hours	0.63	0.066	138	23	0.048

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.08716	71%	49%	1			
	0.03878	81%	31%	2	0.7	0.4	1.3
	0.01455	90%	14%	3	1.7	1.1	2.6
	0.30585	50%	70%	4	2.3	1.6	3.5
	0.70105	25%	80%				
	1.66287	17%	90%				
24 hours	0.06755	71%	42%	1			
	0.03606	81%	29%	2	1.6	1.0	2.5
	0.01331	92%	12%	3	2.7	1.8	4.1
	0.30585	39%	70%	4	2.4	1.6	3.7
	0.70105	29%	80%				

Fig. 1 - 7

	1.66287	22%	90%				
48 hours	0.08349	73%	48%	1			
	0.03289	81%	28%	2	1.0	0.3	2.9
	0.0178	92%	19%	3	3.7	1.7	7.8
	0.30585	31%	70%	4	1.6	0.6	3.9
	0.70105	23%	80%				
	1.66287	12%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.0211	74%	15%	1			
	0.01723	84%	13%	2	0.3	0.1	1.2
	0.00761	95%	5%	3	0.5	0.2	1.3
	0.36491	42%	70%	4	1.4	0.7	2.5
	0.88165	37%	80%				
	2.59834	11%	90%				
24 hours	0.0337	71%	21%	1			
	0.01072	83%	6%	2	0.4	0.1	0.9
	0.00548	92%	3%	3	0.5	0.2	1.0
	0.36491	42%	70%	4	1.1	0.7	1.9
	0.88165	33%	80%				
	2.59834	25%	90%				
48 hours	0.04217	71%	26%	1			
	0.01984	86%	15%	2	0.7	0.2	2.4
	0.0178	93%	13%	3	0.5	0.1	2.2
	0.36491	36%	70%	4	1.3	0.5	3.2
	0.88165	21%	80%				
	2.59834	14%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.19282	72%	63%	1			
	0.0838	80%	48%	2	1.7	0.8	3.6
	0.03033	91%	24%	3	4.0	2.1	7.5
	0.30918	57%	70%	4	5.3	2.8	9.8
	0.59488	35%	80%				
	1.62097	20%	91%				
24 hours	0.11619	70%	55%	1			
	0.06755	80%	41%	2	2.1	1.1	3.8
	0.03681	90%	29%	3	3.2	1.8	5.6
	0.30918	46%	70%	4	4.2	2.4	7.4
	0.59488	34%	80%				
	1.62097	24%	91%				
48 hours	0.13327	78%	58%	1			
	0.08349	83%	47%	2	0.6	0.1	3.7
	0.03099	91%	26%	3	5.3	2.1	13.5
	0.30918	35%	70%	4	2.1	0.7	6.3
	0.59488	26%	80%				
	1.62097	17%	91%				

EN-RAGE

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.137	1.743	1.137	1.867	1.137	1.288
average	6.764	14.804	6.764	17.986	6.764	25.315
stdev	22.106	56.369	22.106	89.318	22.106	115.837
p (t-test)		0.185		0.200		0.107
min	0.002	0.142	0.002	0.065	0.002	0.166
max	197.971	391.452	197.971	675.017	197.971	592.998
n (Samp)	117	51	117	59	117	26
n (Pat)	99	51	99	59	99	26

Fig. 1 - 8

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.460	1.743	1.460	1.170	1.460	2.336
average	11.640	3.163	11.640	4.691	11.640	49.370
stdev	53.231	3.808	53.231	7.908	53.231	156.852
p (t-test)		0.513		0.533		0.028
min	0.002	0.206	0.002	0.065	0.002	0.279
max	675.017	12.947	675.017	31.593	675.017	592.998
n (Samp)	260	17	260	23	260	14
n (Pat)	160	17	160	23	160	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.194	1.962	1.194	1.904	1.194	1.447
average	7.724	18.233	7.724	21.529	7.724	3.360
stdev	23.278	60.910	23.278	97.965	23.278	4.430
p (t-test)		0.128		0.173		0.374
min	0.002	0.142	0.002	0.090	0.002	0.166
max	197.971	391.452	197.971	675.017	197.971	13.936
n (Samp)	105	45	105	49	105	23
n (Pat)	84	45	84	49	84	23

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.61	0.049	117	51	0.028
24 hours	0.55	0.046	117	59	0.287
48 hours	0.51	0.063	117	26	0.859

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.51	0.073	260	17	0.874
24 hours	0.46	0.061	260	23	0.555
48 hours	0.59	0.082	260	14	0.253

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.60	0.052	105	45	0.050
24 hours	0.57	0.050	105	49	0.159
48 hours	0.49	0.066	105	23	0.893

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.79595	71%	41%	1			
	0.59513	80%	31%	2	1.3	0.8	2.2
	0.46286	90%	24%	3	1.6	1.0	2.7
	2.17016	43%	70%	4	2.8	1.7	4.4
	3.67125	33%	80%				
	10.5861	16%	91%				
24 hours	0.66093	71%	33%	1			
	0.31013	81%	14%	2	0.5	0.3	0.8
	0.142	92%	5%	3	0.7	0.5	1.1
	2.17016	44%	70%	4	1.5	1.0	2.1
	3.67125	34%	80%				
	10.5861	14%	91%				
48 hours	0.48804	73%	27%	1			
	0.43767	81%	23%	2	0.8	0.4	1.7
	0.20012	92%	7%	3	1.0	0.5	1.9
	2.17016	35%	70%	4	0.8	0.4	1.7

Fig. 1 - 9

	3.67125	23%	80%				
	10.5861	8%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.96736	71%	41%	1			
	0.53845	82%	24%	2	0.7	0.2	2.5
	0.23754	94%	9%	3	1.5	0.6	3.7
	2.96095	29%	70%	4	1.0	0.3	2.8
	5.67373	18%	80%				
	14.7646	0%	90%				
24 hours	0.33607	74%	13%	1			
	0.28358	83%	11%	2	1.2	0.6	2.7
	0.16594	91%	5%	3	1.0	0.4	2.3
	2.96095	30%	70%	4	1.5	0.7	3.1
	5.67373	22%	80%				
	14.7646	13%	90%				
48 hours	1.07186	71%	43%	1			
	0.43767	86%	19%	2	0.2	0.0	2.9
	0.3635	93%	15%	3	0.7	0.2	2.5
	2.96095	43%	70%	4	1.5	0.6	3.7
	5.67373	36%	80%				
	14.7646	29%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.87598	71%	39%	1			
	0.72955	80%	34%	2	1.7	1.0	3.2
	0.46286	91%	23%	3	1.8	1.0	3.3
	2.3998	42%	71%	4	3.1	1.8	5.4
	3.89368	36%	80%				
	18.6601	13%	90%				
24 hours	0.90879	71%	41%	1			
	0.37339	82%	20%	2	0.8	0.5	1.5
	0.22259	92%	6%	3	1.6	1.0	2.7
	2.3998	41%	71%	4	1.9	1.2	3.1
	3.89368	31%	80%				
	18.6601	10%	90%				
48 hours	0.48804	74%	26%	1			
	0.42945	83%	22%	2	1.0	0.4	2.2
	0.20012	91%	5%	3	1.0	0.4	2.2
	2.3998	35%	71%	4	0.8	0.3	1.9
	3.89368	26%	80%				
	18.6601	0%	90%				

Eotaxin

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	31.000	36.500	31.000	41.700	31.000	33.600
average	39.628	48.435	39.628	58.697	39.628	41.302
stdev	27.303	35.271	27.303	47.701	27.303	24.051
p (t-test)		0.044		0.000		0.760
min	5.080	6.660	5.080	6.660	5.080	0.164
max	185.000	229.000	185.000	193.000	185.000	98.600
n (Samp)	249	53	249	62	249	27
n (Pat)	104	53	104	62	104	27

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	33.600	30.400	33.600	44.850	33.600	38.750

Fig. 1 - 10

average	45.000	54.205	45.000	78.357	45.000	47.057
stdev	36.268	40.820	36.268	79.532	36.268	23.212
p (t-test)		0.270		0.000		0.833
min	0.164	12.300	0.164	8.680	0.164	19.000
max	270.000	131.000	270.000	333.000	270.000	98.000
n (Samp)	441	20	441	26	441	14
n (Pat)	170	20	170	26	170	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	32.150	41.200	32.150	45.550	32.150	37.500
average	40.460	50.486	40.460	71.253	40.460	56.791
stdev	27.391	35.838	27.391	82.646	27.391	79.412
p (t-test)		0.033		0.000		0.034
min	7.220	6.660	7.220	6.660	7.220	0.164
max	185.000	229.000	185.000	535.000	185.000	420.000
n (Samp)	212	47	212	52	212	25
n (Pat)	85	47	85	52	85	25

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.58	0.045	249	53	0.057
24 hours	0.62	0.041	249	62	0.003
48 hours	0.55	0.060	249	27	0.433

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.53	0.067	441	20	0.674
24 hours	0.60	0.060	441	26	0.082
48 hours	0.58	0.081	441	14	0.318

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.61	0.047	212	47	0.021
24 hours	0.65	0.045	212	52	0.001
48 hours	0.56	0.063	212	25	0.324

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	27.1	72%	37%	1			
	24.5	81%	29%	2	1.3	0.9	2.0
	18.6	91%	14%	3	1.1	0.7	1.7
	43.3	43%	71%	4	2.2	1.5	3.1
	53.3	34%	80%				
	70.4	25%	90%				
24 hours	28.3	71%	41%	1			
	25.4	81%	34%	2	1.1	0.7	1.7
	18.6	90%	14%	3	1.9	1.3	2.7
	43.3	50%	71%	4	3.0	2.1	4.2
	53.3	34%	80%				
	70.4	24%	90%				
48 hours	28.2	70%	41%	1			
	21.5	81%	21%	2	0.5	0.2	1.3
	18.7	93%	16%	3	1.2	0.6	2.1
	43.3	33%	71%	4	1.2	0.6	2.1
	53.3	26%	80%				
	70.4	15%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR

Fig. 1 - 11

0 hours	24.5	70%	25%	1			
	20.2	85%	17%	2	0.8	0.4	1.8
	18.6	90%	13%	3	0.2	0.0	1.6
	49.4	40%	70%	4	1.3	0.7	2.5
	62	40%	80%				
	81.8	25%	90%				
24 hours	27.1	77%	32%	1			
	26.7	81%	31%	2	1.3	0.5	3.1
	17.6	92%	11%	3	1.8	0.8	4.0
	49.4	42%	70%	4	2.6	1.3	5.4
	62	35%	80%				
	81.8	31%	90%				
48 hours	30.7	71%	44%	1			
	27.1	86%	32%	2	2.0	0.4	9.1
	21.5	93%	19%	3	1.0	0.1	7.3
	49.4	43%	70%	4	3.1	0.8	11.8
	62	29%	80%				
	81.8	7%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	30.1	70%	46%	1			
	26.7	81%	34%	2	1.7	1.0	2.8
	23.1	91%	24%	3	2.0	1.2	3.4
	45.1	43%	71%	4	2.7	1.7	4.3
	54	34%	80%				
	70.2	23%	90%				
24 hours	33.1	71%	54%	1			
	27.3	83%	37%	2	1.0	0.6	1.7
	20.7	90%	18%	3	2.1	1.4	3.3
	45.1	52%	71%	4	3.4	2.2	5.1
	54	40%	80%				
	70.2	27%	90%				
48 hours	28.7	72%	42%	1			
	23.1	80%	24%	2	0.6	0.3	1.6
	18.6	92%	13%	3	1.2	0.6	2.4
	45.1	32%	71%	4	1.4	0.7	2.6
	54	28%	80%				
	70.2	24%	90%				

E-selectin

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.144	0.272	0.144	0.238	0.144	0.188
average	0.255	0.484	0.255	0.423	0.255	0.447
stdev	0.297	0.642	0.297	0.774	0.297	0.690
p (t-test)		0.002		0.040		0.027
min	0.000	0.000	0.000	0.000	0.000	0.000
max	1.605	2.825	1.605	5.381	1.605	2.918
n (Samp)	117	51	117	60	117	26
n (Pat)	99	51	99	60	99	26

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.178	0.116	0.178	0.212	0.178	0.196
average	0.358	0.330	0.358	0.491	0.358	0.509
stdev	0.590	0.426	0.590	0.675	0.590	0.689
p (t-test)		0.848		0.306		0.354
min	0.000	0.000	0.000	0.000	0.000	0.019
max	5.381	1.553	5.381	2.759	5.381	2.158

Fig. 1 - 12

n (Samp)	261	17	261	23	261	14
n (Pat)	160	17	160	23	160	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.144	0.241	0.144	0.247	0.144	0.176
average	0.277	0.558	0.277	0.447	0.277	0.362
stdev	0.352	0.886	0.352	0.823	0.352	0.616
p (t-test)		0.006		0.073		0.366
min	0.000	0.000	0.000	0.000	0.000	0.000
max	2.158	4.435	2.158	5.381	2.158	2.918
n (Samp)	105	45	105	50	105	23
n (Pat)	84	45	84	50	84	23

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.62	0.048	117	51	0.014
24 hours	0.55	0.046	117	60	0.244
48 hours	0.54	0.064	117	26	0.513

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.48	0.072	261	17	0.801
24 hours	0.52	0.064	261	23	0.724
48 hours	0.57	0.082	261	14	0.409

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.60	0.052	105	45	0.053
24 hours	0.57	0.050	105	50	0.143
48 hours	0.51	0.067	105	23	0.887

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.10943	71%	35%	1			
	0.07115	82%	29%	2	0.9	0.5	1.5
	0.05672	90%	26%	3	2.5	1.6	4.0
	0.26549	51%	70%	4	2.5	1.6	4.0
	0.38703	33%	80%				
	0.68139	16%	91%				
24 hours	0.0957	70%	32%	1			
	0.04386	80%	18%	2	0.5	0.3	0.8
	0.01302	90%	10%	3	1.3	0.9	2.0
	0.26549	43%	70%	4	1.3	0.9	1.9
	0.38703	25%	80%				
	0.68139	15%	91%				
48 hours	0.07846	73%	30%	1			
	0.01715	81%	11%	2	0.4	0.1	1.1
	0	100%	0%	3	1.0	0.5	1.9
	0.26549	42%	70%	4	1.3	0.7	2.5
	0.38703	31%	80%				
	0.68139	19%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.07115	71%	26%	1			
	0.06099	82%	23%	2	0.4	0.1	1.6
	1E-09	94%	7%	3	1.2	0.6	2.7
	0.33104	29%	70%	4	0.8	0.3	2.1

Fig. 1 - 13

	0.45478	24%	80%				
	0.7252	18%	90%				
24 hours	0.04386	74%	17%	1			
	0.02758	83%	12%	2	0.3	0.1	0.9
	0	100%	0%	3	0.5	0.2	1.0
	0.33104	35%	70%	4	1.0	0.6	1.7
	0.45478	35%	80%				
	0.7252	26%	90%				
48 hours	0.14642	71%	44%	1			
	0.0719	86%	27%	2	2.6	0.6	10.8
	0.06099	93%	23%	3	1.5	0.3	8.2
	0.33104	43%	70%	4	2.0	0.4	9.4
	0.45478	29%	80%				
	0.7252	21%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.12656	71%	44%	1			
	0.07115	80%	28%	2	0.7	0.4	1.3
	0.02884	91%	13%	3	1.9	1.1	3.2
	0.2518	49%	70%	4	2.0	1.2	3.4
	0.46344	24%	80%				
	0.73598	16%	90%				
24 hours	0.12261	70%	40%	1			
	0.06609	80%	26%	2	0.6	0.4	1.1
	0.02884	90%	13%	3	1.9	1.2	3.0
	0.2518	48%	70%	4	1.4	0.9	2.2
	0.46344	22%	80%				
	0.73598	12%	90%				
48 hours	0.06609	74%	26%	1			
	0.00673	83%	6%	2	0.4	0.1	1.4
	0	100%	0%	3	1.2	0.6	2.6
	0.2518	39%	70%	4	1.2	0.6	2.6
	0.46344	17%	80%				
	0.73598	9%	90%				

Fibronectin

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	15.023	21.926	15.023	23.468	15.023	23.743
average	83.203	67.441	83.203	91.230	83.203	76.715
stdev	169.416	169.348	169.416	145.050	169.416	123.637
p (t-test)		0.580		0.756		0.854
min	0.276	1.400	0.276	0.040	0.276	1.041
max	1020.452	1190.527	1020.452	810.740	1020.452	500.000
n (Samp)	117	51	117	59	117	26
n (Pat)	99	51	99	59	99	26

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	22.968	19.785	22.968	51.942	22.968	49.032
average	86.563	52.912	86.563	95.433	86.563	69.933
stdev	202.982	55.136	202.982	110.102	202.982	71.115
p (t-test)		0.497		0.836		0.761
min	0.276	2.742	0.276	0.040	0.276	1.041
max	2177.715	163.819	2177.715	451.558	2177.715	250.000
n (Samp)	260	17	260	23	260	14
n (Pat)	160	17	160	23	160	14

UO only

0 hr prior toAKI stage	24 hr prior toAKI stage	48 hr prior toAKI stage

Fig. 1 - 14

	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	20.492	25.025	20.492	27.794	20.492	23.313
average	96.690	80.407	96.690	96.517	96.690	85.278
stdev	177.408	182.555	177.408	152.854	177.408	138.995
p (t-test)		0.610		0.995		0.773
min	0.000	1.400	0.000	0.088	0.000	2.742
max	1020.452	1190.527	1020.452	810.740	1020.452	500.000
n (Samp)	105	45	105	49	105	23
n (Pat)	84	45	84	49	84	23

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.53	0.049	117	51	0.490
24 hours	0.55	0.046	117	59	0.249
48 hours	0.54	0.064	117	26	0.522

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.55	0.074	260	17	0.513
24 hours	0.60	0.065	260	23	0.132
48 hours	0.62	0.082	260	14	0.157

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.52	0.052	105	45	0.679
24 hours	0.54	0.050	105	49	0.374
48 hours	0.51	0.067	105	23	0.919

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	11.03	71%	43%	1			
	6.90238	80%	28%	2	1.6	1.0	2.6
	2.79427	90%	12%	3	1.8	1.1	2.8
	44.8301	33%	70%	4	1.3	0.8	2.1
	94.7705	20%	80%				
	250	4%	91%				
24 hours	10.1116	71%	41%	1			
	5.63678	81%	20%	2	0.8	0.5	1.2
	3.75543	92%	14%	3	1.0	0.7	1.5
	44.8301	39%	70%	4	1.6	1.1	2.4
	94.7705	32%	80%				
	250	8%	91%				
48 hours	9.34959	73%	38%	1			
	5.33977	81%	19%	2	0.8	0.3	1.8
	3.75543	92%	14%	3	1.4	0.7	2.8
	44.8301	31%	70%	4	1.2	0.6	2.4
	94.7705	23%	80%				
	250	8%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	16.0979	71%	44%	1			
	10.1116	82%	33%	2	8.9	0.9	86.0
	9.8178	94%	32%	3	3.1	0.2	44.7
	53.7478	35%	70%	4	5.2	0.5	58.3
	103.153	24%	80%				
	236.01	0%	90%				
24 hours	12.9831	74%	40%	1			
	5.83554	83%	20%	2	0.6	0.2	1.7

Fig. 1 - 15

	4.46347	91%	15%	3	1.2	0.6	2.6
	53.7478	43%	70%	4	1.9	1.0	3.7
	103.153	39%	80%				
	236.01	9%	90%				
48 hours	27.5257	71%	56%	1			
	12.471	86%	39%	2	2.0	0.1	40.1
	9.50604	93%	31%	3	6.5	0.6	67.8
	53.7478	50%	70%	4	5.2	0.5	58.4
	103.153	21%	80%				
	236.01	7%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	13.0416	71%	46%	1			
	6.90238	80%	28%	2	1.4	0.8	2.4
	2.78263	91%	11%	3	1.9	1.1	3.2
	67.9352	27%	70%	4	1.1	0.6	1.9
	136.906	11%	80%				
	254.822	4%	90%				
24 hours	12.8442	71%	44%	1			
	6.90238	82%	28%	2	1.8	1.1	3.0
	3.75543	92%	13%	3	1.5	0.9	2.5
	67.9352	35%	70%	4	1.8	1.1	3.0
	136.906	24%	80%				
	254.822	12%	90%				
48 hours	6.8426	74%	27%	1			
	4.98139	83%	16%	2	0.8	0.3	1.9
	3.75543	91%	13%	3	1.0	0.4	2.2
	67.9352	26%	70%	4	1.0	0.4	2.2
	136.906	13%	80%				
	254.822	13%	90%				

Granulocyte colony-stimulating factor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	22.000	34.200	22.000	41.200	22.000	39.800
average	44.116	60.908	44.116	441.460	44.116	2127.522
stdev	70.379	156.044	70.379	2467.967	70.379	10471.145
p (t-test)		0.224		0.011		0.002
min	1.020	0.907	1.020	0.020	1.020	0.020
max	521.000	1150.000	521.000	19300.000	521.000	54500.000
n (Samp)	249	53	249	62	249	27
n (Pat)	104	53	104	62	104	27

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	25.700	35.250	25.700	41.500	25.700	36.850
average	604.248	35.443	604.248	268.246	604.248	155.355
stdev	6495.892	31.160	6495.892	634.851	6495.892	420.205
p (t-test)		0.696		0.792		0.796
min	0.020	0.907	0.020	0.020	0.020	1.750
max	103844.000	109.000	103844.000	3010.000	103844.000	1610.000
n (Samp)	441	20	441	26	441	14
n (Pat)	170	20	170	26	170	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	22.800	43.500	22.800	42.450	22.800	39.800
average	55.574	67.482	55.574	536.945	55.574	2235.649

Fig. 1 - 16

stdev	150.602	164.957	150.602	2707.258	150.602	10888.539
p (t-test)		0.630		0.010		0.003
min	1.020	3.290	1.020	6.000	1.020	0.020
max	1610.000	1150.000	1610.000	19300.000	1610.000	54500.000
n (Samp)	212	47	212	52	212	25
n (Pat)	85	47	85	52	85	25

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.55	0.044	249	53	0.246
24 hours	0.62	0.041	249	62	0.003
48 hours	0.63	0.060	249	27	0.027

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.47	0.065	441	20	0.659
24 hours	0.59	0.060	441	26	0.149
48 hours	0.57	0.081	441	14	0.357

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.59	0.047	212	47	0.054
24 hours	0.67	0.044	212	52	0.000
48 hours	0.66	0.062	212	25	0.008

Cr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	13.1	72%	29%	1			
	11.4	81%	22%	2	0.7	0.5	1.1
	4.83	91%	5%	3	1.2	0.8	1.7
	40.8	43%	70%	4	1.6	1.2	2.3
	55	26%	80%				
	88.1	11%	90%				
24 hours	23.1	71%	53%	1			
	13.4	81%	29%	2	0.7	0.4	1.1
	7.73	90%	12%	3	2.1	1.5	2.9
	40.8	50%	70%	4	2.5	1.8	3.5
	55	35%	80%				
	88.1	21%	90%				
48 hours	25.5	70%	55%	1			
	18.1	81%	42%	2	0.6	0.2	1.8
	3.85	93%	3%	3	1.2	0.6	2.7
	40.8	48%	70%	4	3.0	1.6	5.5
	55	41%	80%				
	88.1	26%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	11.5	70%	22%	1			
	5.74	80%	7%	2	0.8	0.4	1.8
	3.29	90%	3%	3	0.3	0.1	1.2
	45.3	30%	70%	4	1.2	0.6	2.3
	59.2	25%	80%				
	98.2	5%	90%				
24 hours	11.5	73%	22%	1			
	10.4	81%	19%	2	0.2	0.1	0.8
	4.43	92%	5%	3	0.6	0.3	1.2
	45.3	46%	70%	4	1.4	0.9	2.2
	59.2	42%	80%				
	98.2	31%	90%				

Fig. 1 - 17

48 hours	21.8	71%	43%	1			
	9.92	86%	17%	2	0.7	0.1	3.5
	8.91	93%	15%	3	1.3	0.4	4.3
	45.3	36%	70%	4	1.7	0.6	5.0
	59.2	36%	80%				
	98.2	21%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	18.5	70%	42%	1			
	12.2	81%	26%	2	1.0	0.6	1.6
	4.83	91%	6%	3	1.1	0.7	1.8
	37.7	53%	70%	4	2.5	1.7	3.8
	50.7	38%	80%				
	81.6	17%	90%				
24 hours	27.3	71%	56%	1			
	22.5	81%	50%	2	1.6	0.9	2.9
	13.4	90%	28%	3	3.2	1.9	5.4
	37.7	54%	70%	4	4.7	2.8	7.7
	50.7	40%	80%				
	81.6	21%	90%				
48 hours	28.8	72%	58%	1			
	21.8	80%	48%	2	1.0	0.3	4.0
	12.2	92%	26%	3	2.9	1.1	7.7
	37.7	52%	70%	4	4.2	1.7	10.4
	50.7	44%	80%				
	81.6	24%	90%				

Granulocyte-macrophage colony-stimulating factor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	7.610	9.720	7.610	8.365	7.610	7.500
average	8.035	10.174	8.035	11.264	8.035	10.320
stdev	4.907	5.888	4.907	12.417	4.907	7.843
p (t-test)		0.006		0.001		0.033
min	0.230	0.230	0.230	0.230	0.230	0.230
max	29.400	27.000	29.400	88.600	29.400	26.200
n (Samp)	249	53	249	62	249	27
n (Pat)	104	53	104	62	104	27

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	7.800	5.280	7.800	7.860	7.800	9.525
average	9.732	8.228	9.732	9.430	9.732	8.926
stdev	22.230	8.582	22.230	7.299	22.230	7.332
p (t-test)		0.763		0.945		0.892
min	0.230	0.230	0.230	0.230	0.230	0.230
max	453.000	37.500	453.000	34.400	453.000	24.300
n (Samp)	441	20	441	26	441	14
n (Pat)	170	20	170	26	170	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	7.775	10.300	7.775	9.510	7.775	7.500
average	8.142	10.865	8.142	12.268	8.142	10.400
stdev	4.785	5.691	4.785	13.272	4.785	7.134
p (t-test)		0.001		0.000		0.036
min	0.230	0.230	0.230	0.230	0.230	0.230
max	29.400	27.000	29.400	88.600	29.400	26.200
n (Samp)	212	47	212	52	212	25
n (Pat)	85	47	85	52	85	25

Fig. 1 - 18

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.61	0.044	249	53	0.017
24 hours	0.59	0.042	249	62	0.039
48 hours	0.56	0.060	249	27	0.287

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.44	0.063	441	20	0.309
24 hours	0.53	0.059	441	26	0.671
48 hours	0.51	0.079	441	14	0.877

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.64	0.047	212	47	0.002
24 hours	0.61	0.045	212	52	0.014
48 hours	0.57	0.063	212	25	0.273

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	6.17	74%	37%	1			
	4.94	81%	26%	2	0.7	0.4	1.1
	3.5	92%	16%	3	1.3	0.9	2.0
	9.94	47%	70%	4	2.1	1.5	2.9
	11.5	38%	80%				
	14.5	23%	90%				
24 hours	6.17	73%	37%	1			
	5.04	81%	27%	2	1.0	0.7	1.4
	0.2296	90%	9%	3	1.4	1.0	2.0
	9.94	40%	70%	4	2.1	1.5	2.9
	11.5	35%	80%				
	14.5	21%	90%				
48 hours	6.17	70%	37%	1			
	3.47	81%	16%	2	1.4	0.7	2.6
	0	100%	0%	3	0.5	0.2	1.4
	9.94	44%	70%	4	1.8	1.0	3.2
	11.5	30%	80%				
	14.5	26%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	4.85	70%	25%	1			
	0.2296	80%	9%	2	1.3	0.5	3.2
	0	100%	0%	3	1.3	0.5	3.2
	10.5	30%	71%	4	1.5	0.7	3.6
	12.5	15%	80%				
	16	10%	90%				
24 hours	5.08	77%	28%	1			
	4.85	81%	25%	2	1.0	0.4	2.2
	0	100%	0%	3	1.4	0.7	2.9
	10.5	35%	71%	4	1.9	1.0	3.5
	12.5	23%	80%				
	16	15%	90%				
48 hours	3.17	71%	13%	1			
	0	100%	0%	2	0.2	0.0	2.1
	0	100%	0%	3	0.8	0.3	2.0
	10.5	43%	71%	4	0.8	0.3	2.0
	12.5	29%	80%				
	16	14%	90%				

Fig. 1 - 19

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	7.83	70%	51%	1			
	6.1	83%	35%	2	1.0	0.6	1.7
	4.33	91%	18%	3	1.8	1.1	2.8
	10.3	49%	70%	4	2.7	1.7	4.1
	11.8	34%	80%				
	14.1	28%	90%				
24 hours	6.89	71%	45%	1			
	5.91	81%	33%	2	0.9	0.5	1.4
	3.47	90%	14%	3	1.4	0.9	2.1
	10.3	44%	70%	4	2.4	1.7	3.5
	11.8	35%	80%				
	14.1	23%	90%				
48 hours	6.1	72%	35%	1			
	5.91	80%	33%	2	1.7	0.8	3.5
	3.07	92%	12%	3	0.8	0.3	2.0
	10.3	40%	70%	4	1.7	0.8	3.4
	11.8	32%	80%				
	14.1	28%	90%				

Heparin-binding growth factor 2

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	165.000	233.000	165.000	225.000	165.000	203.000
average	216.177	318.408	216.177	412.169	216.177	335.052
stdev	211.472	303.837	211.472	543.119	211.472	395.062
p (t-test)		0.004		0.000		0.013
min	0.392	28.800	0.392	37.000	0.392	0.392
max	1320.000	1540.000	1320.000	3610.000	1320.000	2010.000
n (Samp)	249	53	249	62	249	27
n (Pat)	104	53	104	62	104	27

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	165.000	240.500	165.000	223.500	165.000	310.500
average	247.374	302.775	247.374	421.315	247.374	365.407
stdev	308.558	257.342	308.558	359.414	308.558	272.077
p (t-test)		0.430		0.006		0.158
min	0.392	39.200	0.392	37.000	0.392	39.200
max	3610.000	997.000	3610.000	1140.000	3610.000	915.000
n (Samp)	441	20	441	26	441	14
n (Pat)	170	20	170	26	170	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	164.000	246.000	164.000	226.500	164.000	225.000
average	197.921	335.889	197.921	425.929	197.921	359.412
stdev	183.526	317.975	183.526	570.343	183.526	405.115
p (t-test)		0.000		0.000		0.001
min	0.392	28.800	0.392	42.100	0.392	0.392
max	1320.000	1540.000	1320.000	3610.000	1320.000	2010.000
n (Samp)	212	47	212	52	212	25
n (Pat)	85	47	85	52	85	25

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.64	0.044	249	53	0.002
24 hours	0.65	0.041	249	62	0.000

Fig. 1 - 20

48 hours	0.62	0.060	249	27	0.053

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.59	0.068	441	20	0.187
24 hours	0.64	0.060	441	26	0.017
48 hours	0.69	0.080	441	14	0.020

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.68	0.046	212	47	0.000
24 hours	0.71	0.043	212	52	0.000
48 hours	0.66	0.062	212	25	0.009

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	145	74%	44%	1			
	124	81%	35%	2	1.0	0.6	1.6
	94.9	91%	25%	3	1.7	1.1	2.6
	229	51%	70%	4	2.8	1.9	4.1
	271	40%	80%				
	392	25%	90%				
24 hours	161	71%	49%	1			
	133	81%	40%	2	2.4	1.5	3.8
	101	90%	27%	3	2.6	1.6	4.1
	229	45%	70%	4	4.4	2.9	6.8
	271	39%	80%				
	392	29%	90%				
48 hours	165	70%	52%	1			
	112	81%	30%	2	0.8	0.3	2.0
	69.8	93%	16%	3	1.7	0.8	3.4
	229	41%	70%	4	2.2	1.1	4.2
	271	33%	80%				
	392	26%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	139	70%	42%	1			
	102	80%	25%	2	1.3	0.5	3.2
	96.7	90%	24%	3	0.7	0.2	2.4
	246	50%	71%	4	2.1	1.0	4.4
	300	35%	80%				
	482	20%	90%				
24 hours	151	73%	46%	1			
	119	81%	33%	2	2.0	0.7	5.6
	82.4	92%	19%	3	1.7	0.6	5.0
	246	46%	71%	4	4.3	1.8	10.1
	300	46%	80%				
	482	38%	90%				
48 hours	201	71%	61%	1			
	154	86%	47%	2	0.5	0.0	9.6
	96.7	93%	24%	3	1.5	0.3	8.0
	246	57%	71%	4	4.2	1.2	14.8
	300	57%	80%				
	482	21%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	177	70%	57%	1			
	133	81%	39%	2	1.2	0.6	2.3
	94.9	91%	24%	3	2.2	1.2	3.8
	208	57%	71%	4	4.9	3.0	8.1

Fig. 1 - 21

	257	45%	80%				
	312	30%	90%				
24 hours	178	71%	58%	1			
	145	83%	43%	2	4.2	1.7	10.3
	118	92%	31%	3	6.2	2.6	14.5
	208	62%	71%	4	11.2	5.0	25.4
	257	44%	80%				
	312	38%	90%				
48 hours	165	72%	54%	1			
	124	80%	34%	2	0.7	0.2	2.5
	70.4	92%	14%	3	1.6	0.6	3.8
	208	52%	71%	4	3.4	1.7	7.1
	257	44%	80%				
	312	36%	90%				

Interleukin-1 receptor antagonist

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	3100.000	5560.000	3100.000	5295.000	3100.000	4800.000
average	17527.197	11883.717	17527.197	18126.029	17527.197	32638.222
stdev	61871.460	16010.162	61871.460	39080.222	61871.460	84643.011
p (t-test)		0.511		0.942		0.248
min	116.000	246.000	116.000	77.800	116.000	392.000
max	520726.000	90800.000	520726.000	261000.000	520726.000	439392.000
n (Samp)	249	53	249	62	249	27
n (Pat)	104	53	104	62	104	27

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	4060.000	2910.000	4060.000	2625.000	4060.000	4920.000
average	17960.275	11151.350	17960.275	24542.954	17960.275	40930.286
stdev	60125.582	15644.197	60125.582	44481.623	60125.582	115464.548
p (t-test)		0.614		0.583		0.176
min	48.100	246.000	48.100	77.800	48.100	458.000
max	598080.000	48400.000	598080.000	187000.000	598080.000	439392.000
n (Samp)	441	20	441	26	441	14
n (Pat)	170	20	170	26	170	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	3070.000	6210.000	3070.000	6065.000	3070.000	3090.000
average	16427.632	12214.681	16427.632	27716.327	16427.632	17104.920
stdev	59734.366	15873.688	59734.366	71777.681	59734.366	24421.592
p (t-test)		0.632		0.242		0.955
min	116.000	776.000	116.000	937.000	116.000	392.000
max	520726.000	90800.000	520726.000	439392.000	520726.000	91800.000
n (Samp)	212	47	212	52	212	25
n (Pat)	85	47	85	52	85	25

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.59	0.045	249	53	0.039
24 hours	0.61	0.042	249	62	0.011
48 hours	0.58	0.060	249	27	0.180

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p

Fig. 1 - 22

0 hours	0.46	0.064	441	20	0.507
24 hours	0.51	0.058	441	26	0.930
48 hours	0.55	0.080	441	14	0.530

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.65	0.047	212	47	0.001
24 hours	0.65	0.045	212	52	0.001
48 hours	0.56	0.063	212	25	0.300

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1880	72%	39%	1			
	1520	81%	31%	2	1.0	0.6	1.5
	837	91%	15%	3	1.6	1.1	2.4
	6920	43%	70%	4	2.0	1.4	2.9
	11900	34%	80%				
	21700	19%	90%				
24 hours	2570	71%	46%	1			
	1340	81%	27%	2	0.7	0.5	1.1
	961	90%	19%	3	1.7	1.3	2.4
	6920	44%	70%	4	2.1	1.5	2.9
	11900	32%	80%				
	21700	18%	90%				
48 hours	2130	70%	41%	1			
	1120	81%	22%	2	1.2	0.6	2.3
	501	93%	6%	3	0.5	0.2	1.4
	6920	48%	70%	4	2.0	1.1	3.5
	11900	41%	80%				
	21700	33%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1520	70%	26%	1			
	866	80%	14%	2	0.3	0.1	1.2
	665	90%	10%	3	1.0	0.5	2.0
	8260	30%	70%	4	1.0	0.5	2.0
	14200	30%	80%				
	29700	15%	90%				
24 hours	1340	73%	23%	1			
	961	81%	16%	2	0.4	0.2	0.8
	557	92%	8%	3	0.3	0.1	0.7
	8260	42%	70%	4	0.9	0.6	1.4
	14200	35%	80%				
	29700	27%	90%				
48 hours	2450	71%	38%	1			
	1120	86%	19%	2	1.3	0.4	4.3
	522	93%	7%	3	0.7	0.1	3.5
	8260	43%	70%	4	1.7	0.6	5.0
	14200	29%	80%				
	29700	14%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	3570	70%	54%	1			
	2280	81%	44%	2	1.9	1.0	3.7
	1440	91%	28%	3	4.2	2.3	7.5
	6880	45%	70%	4	3.9	2.1	6.9
	11900	34%	81%				
	17500	28%	90%				
24 hours	3290	71%	54%	1			
	2070	81%	41%	2	1.5	0.9	2.6
	1330	90%	26%	3	2.7	1.7	4.3

Fig. 1 - 23

	6880	48%	70%	4	3.4	2.2	5.4
	11900	35%	81%				
	17500	27%	90%				
48 hours	2070	72%	41%	1			
	1120	80%	21%	2	1.0	0.5	2.1
	697	92%	9%	3	0.6	0.3	1.6
	6880	44%	70%	4	1.6	0.8	2.9
	11900	36%	81%				
	17500	32%	90%				

Fig. 1 - 24

Interleukin-1 beta

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.890	1.570	0.890	1.765	0.890	1.680
average	2.773	3.259	2.773	5.836	2.773	7.829
stdev	8.328	5.092	8.328	9.783	8.328	16.132
p (t-test)		0.683		0.013		0.008
min	0.006	0.006	0.006	0.006	0.006	0.006
max	109.000	23.800	109.000	40.100	109.000	76.500
n (Samp)	249	53	249	62	249	27
n (Pat)	104	53	104	62	104	27

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.080	1.790	1.080	2.405	1.080	3.810
average	5.688	2.780	5.688	4.732	5.688	9.668
stdev	34.459	3.322	34.459	5.647	34.459	19.718
p (t-test)		0.706		0.888		0.668
min	0.006	0.006	0.006	0.006	0.006	0.006
max	670.000	12.500	670.000	22.400	670.000	76.500
n (Samp)	441	20	441	26	441	14
n (Pat)	170	20	170	26	170	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.971	1.570	0.971	1.960	0.971	2.170
average	2.495	3.886	2.495	7.005	2.495	4.820
stdev	8.002	5.760	8.002	11.316	8.002	8.380
p (t-test)		0.260		0.001		0.173
min	0.006	0.006	0.006	0.006	0.006	0.006
max	109.000	23.800	109.000	40.100	109.000	38.200
n (Samp)	212	47	212	52	212	25
n (Pat)	85	47	85	52	85	25

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.60	0.044	249	53	0.025
24 hours	0.62	0.041	249	62	0.003
48 hours	0.61	0.060	249	27	0.066

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.56	0.068	441	20	0.372
24 hours	0.60	0.060	441	26	0.085
48 hours	0.68	0.080	441	14	0.021

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.61	0.047	212	47	0.019
24 hours	0.64	0.045	212	52	0.001
48 hours	0.62	0.063	212	25	0.058

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.714	72%	45%	1			
	0.579	81%	37%	2	1.6	1.0	2.5
	0.264	91%	16%	3	2.3	1.5	3.5
	1.84	42%	70%	4	2.4	1.6	3.7

Fig. 1 - 25

	2.9	28%	80%				
	5.32	17%	90%				
24 hours	0.697	71%	44%	1			
	0.603	81%	39%	2	1.3	0.9	2.0
	0.242	90%	14%	3	1.3	0.9	2.0
	1.84	48%	70%	4	3.4	2.4	4.7
	2.9	32%	80%				
	5.32	26%	90%				
48 hours	0.695	70%	44%	1			
	0.557	81%	35%	2	2.1	1.0	4.7
	0.242	93%	14%	3	1.0	0.4	2.8
	1.84	48%	70%	4	3.1	1.5	6.4
	2.9	37%	80%				
	5.32	30%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.96	70%	46%	1			
	0.634	80%	34%	2	1.0	0.4	2.8
	0.264	90%	14%	3	1.5	0.7	3.6
	2.27	45%	70%	4	1.5	0.6	3.5
	3.33	25%	80%				
	9.87	10%	90%				
24 hours	0.783	73%	41%	1			
	0.508	81%	27%	2	0.8	0.3	2.0
	0	100%	0%	3	1.0	0.4	2.2
	2.27	50%	70%	4	2.5	1.4	4.6
	3.33	46%	80%				
	9.87	12%	90%				
48 hours	1.99	71%	67%	1			
	0.695	86%	37%	2	3.0	0.2	42.8
	0.557	93%	30%	3	1.0	0.0	51.7
	2.27	64%	70%	4	9.6	1.0	87.9
	3.33	64%	80%				
	9.87	14%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.783	70%	42%	1			
	0.642	81%	37%	2	2.0	1.1	3.5
	0.267	91%	14%	3	2.9	1.7	4.9
	1.84	40%	70%	4	2.9	1.7	4.9
	2.92	30%	80%				
	4.63	23%	90%				
24 hours	0.887	71%	46%	1			
	0.668	81%	39%	2	2.1	1.3	3.4
	0.365	90%	20%	3	1.9	1.1	3.1
	1.84	50%	70%	4	3.7	2.3	5.8
	2.92	31%	80%				
	4.63	27%	90%				
48 hours	0.697	72%	40%	1			
	0.642	80%	37%	2	1.6	0.6	3.8
	0.242	96%	12%	3	1.0	0.3	2.9
	1.84	52%	70%	4	3.1	1.5	6.5
	2.92	36%	80%				
	4.63	28%	90%				

Fig. 1 - 26

Interleukin-10

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.310	1.430	1.310	1.750	1.310	1.750
average	2.100	1.403	2.100	3.429	2.100	10.327
stdev	12.138	1.151	12.138	13.808	12.138	43.929
p (t-test)		0.677		0.454		0.023
min	0.062	0.062	0.062	0.062	0.062	0.062
max	192.000	4.000	192.000	110.000	192.000	230.000
n (Samp)	249	53	249	62	249	27
n (Pat)	104	53	104	62	104	27

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.370	1.121	1.370	1.870	1.370	1.925
average	2.694	1.120	2.694	1.833	2.694	1.737
stdev	15.177	1.139	15.177	1.159	15.177	1.314
p (t-test)		0.643		0.773		0.814
min	0.062	0.062	0.062	0.062	0.062	0.062
max	230.000	4.410	230.000	4.130	230.000	4.130
n (Samp)	441	20	441	26	441	14
n (Pat)	170	20	170	26	170	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.425	1.430	1.425	1.590	1.425	1.570
average	2.318	1.411	2.318	3.709	2.318	10.985
stdev	13.140	1.194	13.140	15.072	13.140	45.651
p (t-test)		0.638		0.507		0.034
min	0.062	0.062	0.062	0.062	0.062	0.062
max	192.000	4.000	192.000	110.000	192.000	230.000
n (Samp)	212	47	212	52	212	25
n (Pat)	85	47	85	52	85	25

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.52	0.044	249	53	0.723
24 hours	0.60	0.042	249	62	0.019
48 hours	0.62	0.060	249	27	0.054

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.42	0.062	441	20	0.180
24 hours	0.62	0.060	441	26	0.044
48 hours	0.59	0.081	441	14	0.254

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.49	0.046	212	47	0.803
24 hours	0.56	0.045	212	52	0.178
48 hours	0.59	0.063	212	25	0.160

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	0.9	0.6	1.3
	0	100%	0%	3	1.0	0.7	1.4

Fig. 1 - 27

	1.81	34%	70%	4	1.2	0.8	1.7
	2.14	21%	82%				
	2.78	11%	91%				
24 hours	0.992	71%	38%	1			
	0	100%	0%	2	0.8	0.5	1.2
	0	100%	0%	3	1.5	1.1	2.1
	1.81	45%	70%	4	2.3	1.7	3.1
	2.14	35%	82%				
	2.78	18%	91%				
48 hours	1.09	70%	41%	1			
	0	100%	0%	2	1.3	0.5	3.3
	0	100%	0%	3	1.3	0.5	3.3
	1.81	48%	70%	4	3.8	1.9	7.6
	2.14	44%	82%				
	2.78	26%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	1.3	0.5	3.2
	0	100%	0%	3	1.5	0.7	3.6
	1.91	20%	70%	4	1.3	0.5	3.2
	2.24	10%	80%				
	2.88	5%	90%				
24 hours	1.42	73%	52%	1			
	1.33	81%	49%	2	0.4	0.1	1.6
	0	100%	0%	3	1.9	1.0	3.5
	1.91	46%	70%	4	2.1	1.1	3.9
	2.24	35%	80%				
	2.88	15%	90%				
48 hours	1.33	71%	49%	1			
	0	100%	0%	2	0.7	0.1	3.5
	0	100%	0%	3	1.0	0.3	3.8
	1.91	50%	70%	4	2.0	0.7	5.6
	2.24	29%	80%				
	2.88	14%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	1.0	0.7	1.5
	0	100%	0%	3	0.6	0.4	1.0
	1.91	28%	70%	4	1.4	0.9	2.0
	2.18	21%	80%				
	2.78	13%	90%				
24 hours	0.992	71%	33%	1			
	0	100%	0%	2	1.0	0.7	1.5
	0	100%	0%	3	1.1	0.7	1.7
	1.91	40%	70%	4	1.9	1.3	2.7
	2.18	33%	80%				
	2.78	15%	90%				
48 hours	1.09	72%	37%	1			
	0.913	80%	29%	2	1.2	0.6	2.7
	0	100%	0%	3	0.8	0.3	2.0
	1.91	44%	70%	4	2.2	1.1	4.2
	2.18	36%	80%				
	2.78	24%	90%				

Fig. 1 - 28

Interleukin-15

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.124	0.124	0.124	0.150	0.124	0.166
average	0.129	0.125	0.129	0.152	0.129	0.159
stdev	0.086	0.090	0.086	0.094	0.086	0.125
p (t-test)		0.757		0.069		0.107
min	0.005	0.005	0.005	0.005	0.005	0.005
max	0.451	0.339	0.451	0.348	0.451	0.509
n (Samp)	249	53	249	62	249	27
n (Pat)	104	53	104	62	104	27

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.130	0.125	0.130	0.169	0.130	0.191
average	0.130	0.132	0.130	0.166	0.130	0.165
stdev	0.087	0.080	0.087	0.080	0.087	0.141
p (t-test)		0.921		0.041		0.144
min	0.005	0.005	0.005	0.005	0.005	0.005
max	0.451	0.310	0.451	0.291	0.451	0.509
n (Samp)	441	20	441	26	441	14
n (Pat)	170	20	170	26	170	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.124	0.114	0.124	0.151	0.124	0.174
average	0.132	0.122	0.132	0.154	0.132	0.161
stdev	0.090	0.095	0.090	0.094	0.090	0.095
p (t-test)		0.501		0.106		0.119
min	0.005	0.005	0.005	0.005	0.005	0.005
max	0.451	0.339	0.451	0.348	0.451	0.373
n (Samp)	212	47	212	52	212	25
n (Pat)	85	47	85	52	85	25

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.49	0.043	249	53	0.781
24 hours	0.58	0.042	249	62	0.065
48 hours	0.58	0.060	249	27	0.206

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.51	0.066	441	20	0.879
24 hours	0.63	0.060	441	26	0.025
48 hours	0.59	0.081	441	14	0.290

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.47	0.046	212	47	0.485
24 hours	0.58	0.045	212	52	0.093
48 hours	0.61	0.063	212	25	0.092

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.0638	72%	23%	1			
	0.0176	81%	14%	2	1.0	0.7	1.5
	0.00512	92%	12%	3	0.7	0.4	1.0

Fig. 1 - 29

	0.166	26%	70%	4	1.5	1.1	2.1
	0.191	19%	80%				
	0.241	13%	90%				
24 hours	0.0951	71%	37%	1			
	0.0634	81%	23%	2	0.6	0.4	0.9
	0.00512	90%	12%	3	0.9	0.6	1.3
	0.166	42%	70%	4	1.7	1.3	2.3
	0.191	37%	80%				
	0.241	19%	90%				
48 hours	0.0722	70%	25%	1			
	0.0161	81%	14%	2	0.1	0.0	1.1
	0	100%	0%	3	0.7	0.4	1.4
	0.166	48%	70%	4	1.6	1.0	2.6
	0.191	37%	80%				
	0.241	19%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.0872	70%	34%	1			
	0.0688	80%	25%	2	1.5	0.7	3.6
	0.0209	90%	16%	3	1.3	0.5	3.2
	0.174	30%	70%	4	1.3	0.5	3.1
	0.199	20%	81%				
	0.247	10%	90%				
24 hours	0.117	73%	45%	1			
	0.113	81%	41%	2	1.0	0.4	2.7
	0.0437	92%	21%	3	1.8	0.8	4.0
	0.174	46%	70%	4	2.9	1.4	5.9
	0.199	38%	81%				
	0.247	27%	90%				
48 hours	0.023	71%	18%	1			
	0.0161	86%	15%	2	0.0	0.0	na
	0.0109	93%	15%	3	0.4	0.1	1.6
	0.174	50%	70%	4	1.4	0.7	2.9
	0.199	50%	81%				
	0.247	14%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.0485	70%	20%	1			
	0.0161	85%	13%	2	0.8	0.5	1.2
	0.00512	91%	11%	3	0.8	0.5	1.2
	0.176	26%	71%	4	1.4	0.9	2.0
	0.199	19%	81%				
	0.248	15%	90%				
24 hours	0.0951	71%	38%	1			
	0.0634	81%	24%	2	0.5	0.3	0.8
	0.0176	90%	14%	3	1.0	0.7	1.5
	0.176	42%	71%	4	1.6	1.2	2.3
	0.199	35%	81%				
	0.248	19%	90%				
48 hours	0.131	72%	52%	1			
	0.0776	80%	33%	2	0.7	0.2	2.5
	0	100%	0%	3	2.5	1.1	5.4
	0.176	44%	71%	4	2.4	1.1	5.3
	0.199	36%	81%				
	0.248	12%	90%				

Fig. 1 - 30

Interleukin-3

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.025	0.027	0.025	0.039	0.025	0.037
average	0.026	0.030	0.026	0.046	0.026	0.038
stdev	0.021	0.026	0.021	0.042	0.021	0.031
p (t-test)		0.271		0.000		0.012
min	0.001	0.001	0.001	0.001	0.001	0.005
max	0.128	0.098	0.128	0.227	0.128	0.134
n (Samp)	249	53	249	62	249	27
n (Pat)	104	53	104	62	104	27

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.027	0.021	0.027	0.046	0.027	0.035
average	0.030	0.029	0.030	0.047	0.030	0.040
stdev	0.026	0.034	0.026	0.031	0.026	0.034
p (t-test)		0.879		0.002		0.149
min	0.001	0.001	0.001	0.001	0.001	0.001
max	0.227	0.147	0.227	0.109	0.227	0.134
n (Samp)	441	20	441	26	441	14
n (Pat)	170	20	170	26	170	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.025	0.027	0.025	0.041	0.025	0.037
average	0.026	0.031	0.026	0.046	0.026	0.037
stdev	0.020	0.026	0.020	0.042	0.020	0.024
p (t-test)		0.165		0.000		0.019
min	0.001	0.001	0.001	0.001	0.001	0.006
max	0.128	0.098	0.128	0.227	0.128	0.095
n (Samp)	212	47	212	52	212	25
n (Pat)	85	47	85	52	85	25

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.53	0.044	249	53	0.514
24 hours	0.65	0.041	249	62	0.000
48 hours	0.62	0.060	249	27	0.056

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.45	0.064	441	20	0.478
24 hours	0.67	0.059	441	26	0.003
48 hours	0.59	0.081	441	14	0.244

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.54	0.047	212	47	0.454
24 hours	0.66	0.045	212	52	0.000
48 hours	0.63	0.063	212	25	0.032

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.00745	74%	25%	1			
	0.00477	81%	18%	2	0.7	0.4	1.0
	0.00275	91%	13%	3	0.8	0.6	1.2
	0.0353	32%	70%	4	1.3	0.9	1.7

Fig. 1 - 31

	0.0432	30%	81%				
	0.0501	25%	90%				
24 hours	0.019	71%	41%	1			
	0.00681	81%	23%	2	0.4	0.2	0.6
	0.00275	90%	13%	3	0.9	0.6	1.3
	0.0353	52%	70%	4	2.7	2.0	3.5
	0.0432	47%	81%				
	0.0501	40%	90%				
48 hours	0.0147	70%	33%	1			
	0.00994	81%	27%	2	1.2	0.6	2.7
	0.00616	96%	21%	3	1.0	0.4	2.3
	0.0353	52%	70%	4	2.4	1.3	4.6
	0.0432	33%	81%				
	0.0501	30%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.00745	70%	23%	1			
	0.00464	80%	15%	2	0.6	0.2	1.8
	0.00451	90%	14%	3	1.0	0.4	2.3
	0.039	25%	70%	4	1.4	0.7	2.9
	0.0466	25%	80%				
	0.0618	5%	90%				
24 hours	0.028	73%	52%	1			
	0.019	81%	38%	2	0.4	0.1	1.6
	0.00464	92%	15%	3	1.0	0.4	2.2
	0.039	58%	70%	4	3.0	1.7	5.3
	0.0466	46%	80%				
	0.0618	27%	90%				
48 hours	0.0188	71%	38%	1			
	0.00616	86%	20%	2	0.7	0.1	3.5
	0.00477	93%	16%	3	1.0	0.3	3.8
	0.039	50%	70%	4	2.0	0.7	5.6
	0.0466	43%	80%				
	0.0618	7%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.00745	72%	23%	1			
	0.00477	81%	16%	2	0.5	0.3	0.8
	0.00069	91%	9%	3	0.5	0.3	0.8
	0.0345	38%	70%	4	1.3	0.9	1.8
	0.0411	34%	80%				
	0.0495	26%	90%				
24 hours	0.0246	71%	49%	1			
	0.014	81%	31%	2	0.8	0.5	1.3
	0.00451	90%	15%	3	0.8	0.5	1.3
	0.0345	58%	70%	4	3.6	2.6	5.2
	0.0411	50%	80%				
	0.0495	40%	90%				
48 hours	0.0174	72%	36%	1			
	0.0132	80%	29%	2	1.6	0.6	3.8
	0.00747	92%	24%	3	1.0	0.3	2.9
	0.0345	56%	70%	4	3.1	1.5	6.5
	0.0411	32%	80%				
	0.0495	32%	90%				

Fig. 1 - 32

Myeloperoxidase

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	982.205	1210.274	982.205	1278.718	982.205	1290.883
average	1396.981	2199.242	1396.981	2731.890	1396.981	1887.672
stdev	1511.071	3410.876	1511.071	5439.708	1511.071	1876.519
p (t-test)		0.036		0.014		0.155
min	0.000	0.000	0.000	0.000	0.000	710.711
max	9348.967	18305.965	9348.967	30781.054	9348.967	9298.715
n (Samp)	117	51	117	59	117	26
n (Pat)	99	51	99	59	99	26

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1172.517	1039.955	1172.517	1165.962	1172.517	1676.691
average	2094.795	1433.178	2094.795	1863.012	2094.795	2383.595
stdev	4019.281	963.062	4019.281	2282.695	4019.281	1745.167
p (t-test)		0.499		0.786		0.790
min	0.000	367.696	0.000	463.506	0.000	1039.955
max	40151.357	3922.692	40151.357	10821.990	40151.357	6415.283
n (Samp)	260	17	260	23	260	14
n (Pat)	160	17	160	23	160	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1039.955	1215.779	1039.955	1314.947	1039.955	1290.883
average	1643.865	2330.170	1643.865	3097.984	1643.865	1710.364
stdev	1806.119	3612.146	1806.119	6012.209	1806.119	1745.870
p (t-test)		0.123		0.024		0.872
min	0.000	0.000	0.000	0.000	0.000	367.696
max	10821.990	18305.965	10821.990	30781.054	10821.990	9298.715
n (Samp)	105	45	105	49	105	23
n (Pat)	84	45	84	49	84	23

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.61	0.049	117	51	0.028
24 hours	0.60	0.046	117	59	0.038
48 hours	0.66	0.063	117	26	0.012

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.49	0.072	260	17	0.900
24 hours	0.50	0.063	260	23	0.953
48 hours	0.70	0.080	260	14	0.014

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.59	0.052	105	45	0.101
24 hours	0.56	0.050	105	49	0.248
48 hours	0.58	0.068	105	23	0.212

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	923.333	73%	46%	1			
	803.653	84%	38%	2	3.7	2.1	6.6
	571.515	90%	22%	3	2.7	1.5	4.9
	1382.48	41%	70%	4	3.7	2.1	6.6

Fig. 1 - 33

	1896.43	31%	80%				
	2886.5	20%	91%				
24 hours	835.148	71%	38%	1			
	709.902	81%	32%	2	1.8	1.1	2.9
	421.311	92%	17%	3	3.2	2.1	5.1
	1382.48	44%	70%	4	2.2	1.4	3.5
	1896.43	27%	80%				
	2886.5	12%	91%				
48 hours	1035.79	81%	52%	1			
	1035.79	81%	52%	2	na	na	na
	872.465	92%	42%	3	na	na	na
	1382.48	42%	70%	4	na	na	na
	1896.43	19%	80%				
	2886.5	12%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	922.638	71%	34%	1			
	709.902	82%	20%	2	1.0	0.4	2.9
	571.515	94%	13%	3	1.0	0.4	2.9
	1710.25	29%	70%	4	1.3	0.5	3.3
	2320.83	12%	80%				
	3113.5	12%	90%				
24 hours	803.653	74%	25%	1			
	744.986	83%	22%	2	1.0	0.5	2.0
	673.783	91%	17%	3	1.0	0.5	2.0
	1710.25	22%	70%	4	0.8	0.4	1.8
	2320.83	13%	80%				
	3113.5	9%	90%				
48 hours	1341.77	71%	60%	1			
	1225.94	86%	53%	2	na	na	na
	1035.79	100%	42%	3	na	na	na
	1710.25	50%	70%	4	na	na	na
	2320.83	29%	80%				
	3113.5	21%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	923.795	71%	47%	1			
	835.148	80%	35%	2	2.4	1.3	4.5
	709.902	91%	27%	3	2.8	1.5	5.2
	1681.71	38%	70%	4	3.0	1.6	5.6
	2352.65	24%	80%				
	3113.5	18%	90%				
24 hours	835.148	71%	35%	1			
	709.902	82%	27%	2	1.2	0.8	2.1
	311.61	92%	10%	3	1.6	1.0	2.7
	1681.71	35%	70%	4	1.4	0.9	2.3
	2352.65	22%	80%				
	3113.5	12%	90%				
48 hours	993.651	74%	50%	1			
	922.638	83%	43%	2	2.8	0.6	12.6
	775.366	91%	31%	3	9.0	2.4	33.2
	1681.71	26%	70%	4	2.1	0.4	10.7
	2352.65	9%	80%				
	3113.5	4%	90%				

Nidogen-1

sCr or UO

0 hr prior to AKI stage	24 hr prior to AKI stage	48 hr prior to AKI stage

Fig. 1 - 34

	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1444.335	2337.209	1444.335	2034.188	1444.335	14.333
average	1866.654	2403.076	1866.654	2310.016	1866.654	2848.837
stdev	1401.407	1521.040	1401.407	1532.518	1401.407	na
p (t-test)		0.083		0.170		na
min	14.333	259.783	14.333	97.321	14.333	2848.837
max	4906.977	4988.372	4906.977	4953.488	4906.977	2848.837
n (Samp)	96	28	96	25	96	1
n (Pat)	48	28	48	25	48	1

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1588.419	3762.127	1588.419	3251.613	1588.419	1574.335
average	1988.911	2729.928	1988.911	2696.128	1988.911	2126.209
stdev	1424.725	1715.319	1424.725	1732.452	1424.725	1185.632
p (t-test)		0.117		0.118		0.869
min	0.280	210.366	0.280	97.321	0.280	1317.111
max	4988.372	4273.504	4988.372	4523.256	4988.372	3487.179
n (Samp)	158	10	158	11	158	3
n (Pat)	90	10	90	11	90	3

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1213.944	2325.581	1213.944	2034.188	1213.944	3910.256
average	1560.384	2401.972	1560.384	2447.934	1560.384	3735.714
stdev	1221.538	1474.617	1221.538	1494.185	1221.538	630.411
p (t-test)		0.007		0.005		0.001
min	76.493	259.783	76.493	501.337	76.493	2848.837
max	4906.977	4988.372	4906.977	4953.488	4906.977	4273.504
n (Samp)	74	23	74	23	74	4
n (Pat)	37	23	37	23	37	4

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.60	0.063	96	28	0.109
24 hours	0.59	0.066	96	25	0.161
48 hours	0.73	0.291	96	1	0.430

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.62	0.097	158	10	0.233
24 hours	0.61	0.093	158	11	0.240
48 hours	0.57	0.174	158	3	0.707

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.67	0.068	74	23	0.015
24 hours	0.69	0.068	74	23	0.006
48 hours	0.92	0.095	74	4	0.000

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1467.82	71%	52%	1			
	590.062	82%	24%	2	0.6	0.2	1.6
	332.474	93%	9%	3	1.4	0.7	3.0
	2778.49	46%	71%	4	2.0	1.0	4.0
	3466.67	32%	80%				
	4023.09	18%	91%				
24 hours	985.507	72%	36%	1			
	856.436	80%	33%	2	1.0	0.4	2.6
	492.391	92%	22%	3	1.5	0.7	3.5
	2778.49	40%	71%	4	1.7	0.8	3.9

Fig. 1 - 35

	3466.67	28%	80%				
	4023.09	20%	91%				
48 hours	2813.95	100%	73%	1			
	2813.95	100%	73%	2	na	na	na
	2813.95	100%	73%	3	na	na	na
	2778.49	100%	71%	4	na	na	na
	3466.67	0%	80%				
	4023.09	0%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	2325.58	70%	63%	1			
	501.337	80%	18%	2	0.0	0.0	na
	332.474	90%	9%	3	0.3	0.0	4.8
	2848.84	60%	70%	4	2.2	0.7	6.4
	3593.02	60%	80%				
	4174.42	20%	91%				
24 hours	2034.19	73%	61%	1			
	288.462	82%	8%	2	0.0	0.0	na
	204.762	91%	4%	3	1.0	0.2	4.1
	2848.84	64%	70%	4	1.7	0.5	5.4
	3593.02	45%	80%				
	4174.42	9%	91%				
48 hours	1235.48	100%	41%	1			
	1235.48	100%	41%	2	na	na	na
	1235.48	100%	41%	3	na	na	na
	2848.84	33%	70%	4	na	na	na
	3593.02	0%	80%				
	4174.42	0%	91%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1467.82	74%	58%	1			
	811.594	83%	36%	2	0.5	0.1	2.4
	380	91%	14%	3	1.7	0.6	4.6
	1838.3	61%	70%	4	3.9	1.6	9.7
	2812.9	48%	81%				
	3569.89	22%	91%				
24 hours	985.507	74%	42%	1			
	937.166	83%	41%	2	1.4	0.4	5.3
	691.176	91%	28%	3	2.3	0.7	7.6
	1838.3	57%	70%	4	4.7	1.6	13.7
	2812.9	43%	81%				
	3569.89	30%	91%				
48 hours	3655.91	75%	92%	1			
	2813.95	100%	82%	2	na	na	na
	2813.95	100%	82%	3	na	na	na
	1838.3	100%	70%	4	na	na	na
	2812.9	100%	81%				
	3569.89	75%	91%				

Fig. 1 - 36

Oxidized low-density lipoprotein receptor 1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	20.555	28.176	20.555	27.762	20.555	21.624
average	27.729	38.940	27.729	36.498	27.729	33.064
stdev	26.915	39.191	26.915	35.185	26.915	30.214
p (t-test)		0.033		0.068		0.373
min	0.150	1.212	0.150	0.480	0.150	1.292
max	148.195	214.368	148.195	195.814	148.195	112.070
n (Samp)	117	51	117	59	117	26
n (Pat)	99	51	99	59	99	26

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	25.590	14.851	25.590	24.309	25.590	25.625
average	35.930	31.238	35.930	36.489	35.930	29.473
stdev	34.181	40.192	34.181	37.184	34.181	18.922
p (t-test)		0.588		0.941		0.484
min	0.150	1.212	0.150	0.480	0.150	4.003
max	214.368	139.836	214.368	131.141	214.368	67.913
n (Samp)	260	17	260	23	260	14
n (Pat)	160	17	160	23	160	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	20.198	28.970	20.198	29.327	20.198	18.027
average	26.307	38.199	26.307	39.919	26.307	33.654
stdev	24.795	35.278	24.795	40.139	24.795	32.761
p (t-test)		0.020		0.011		0.228
min	0.150	5.168	0.150	0.621	0.150	1.292
max	134.298	214.368	134.298	195.814	134.298	112.070
n (Samp)	105	45	105	49	105	23
n (Pat)	84	45	84	49	84	23

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.60	0.049	117	51	0.031
24 hours	0.60	0.046	117	59	0.037
48 hours	0.54	0.064	117	26	0.483

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.40	0.067	260	17	0.153
24 hours	0.48	0.062	260	23	0.763
48 hours	0.49	0.079	260	14	0.927

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.65	0.051	105	45	0.003
24 hours	0.64	0.049	105	49	0.006
48 hours	0.53	0.067	105	23	0.652

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	20.1977	71%	50%	1			
	11.7131	80%	35%	2	1.1	0.7	2.0

Fig. 1 - 37

	6.43176	90%	15%	3	2.0	1.3	3.3
	29.8385	45%	70%	4	2.5	1.6	4.0
	42.4951	25%	80%				
	61.9361	16%	91%				
24 hours	19.4441	71%	47%	1			
	13.3487	81%	38%	2	2.0	1.3	3.2
	5.73842	92%	12%	3	2.2	1.4	3.5
	29.8385	46%	70%	4	3.0	1.9	4.7
	42.4951	27%	80%				
	61.9361	12%	91%				
48 hours	11.7131	73%	35%	1			
	9.89067	81%	26%	2	1.4	0.6	3.2
	4.14164	92%	10%	3	1.0	0.4	2.4
	29.8385	38%	70%	4	2.0	0.9	4.2
	42.4951	27%	80%				
	61.9361	15%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	11.211	71%	26%	1			
	4.74854	82%	8%	2	1.0	0.3	4.0
	3.03381	94%	5%	3	2.1	0.8	6.0
	42.2595	18%	70%	4	1.7	0.6	5.3
	57.9206	18%	80%				
	79.2451	12%	90%				
24 hours	15.7737	74%	33%	1			
	5.73842	83%	9%	2	1.0	0.4	2.3
	2.63939	91%	5%	3	1.7	0.8	3.4
	42.2595	26%	70%	4	1.0	0.4	2.4
	57.9206	22%	80%				
	79.2451	17%	90%				
48 hours	22.2933	71%	44%	1			
	9.52627	86%	20%	2	1.4	0.4	4.6
	9.03746	93%	18%	3	1.4	0.4	4.5
	42.2595	21%	70%	4	1.0	0.3	4.0
	57.9206	7%	80%				
	79.2451	0%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	20.242	71%	50%	1			
	16.9088	80%	42%	2	2.3	1.1	4.7
	8.56994	91%	23%	3	3.5	1.7	6.9
	28.4908	51%	70%	4	5.2	2.7	10.0
	36.3886	38%	80%				
	59.0847	18%	90%				
24 hours	20.1977	71%	50%	1			
	13.5964	82%	37%	2	2.7	1.4	4.9
	7.94687	92%	21%	3	2.5	1.3	4.6
	28.4908	51%	70%	4	4.6	2.5	8.2
	36.3886	39%	80%				
	59.0847	14%	90%				
48 hours	10.6408	74%	30%	1			
	9.50588	83%	26%	2	1.8	0.8	4.0
	4.56964	91%	10%	3	0.4	0.1	1.6
	28.4908	39%	70%	4	1.8	0.8	4.0
	36.3886	35%	80%				
	59.0847	26%	90%				

Pappalysin-1

sCr or UO

Fig. 1 - 38

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.027	0.032	0.027	0.043	0.027	0.041
average	0.037	0.040	0.037	0.158	0.037	0.055
stdev	0.030	0.029	0.030	0.854	0.030	0.052
p (t-test)		0.420		0.025		0.006
min	0.002	0.003	0.002	0.003	0.002	0.003
max	0.193	0.141	0.193	6.770	0.193	0.235
n (Samp)	249	53	249	62	249	27
n (Pat)	104	53	104	62	104	27

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.030	0.022	0.030	0.046	0.030	0.039
average	0.054	0.031	0.054	0.048	0.054	0.040
stdev	0.322	0.024	0.322	0.035	0.322	0.024
p (t-test)		0.750		0.919		0.870
min	0.000	0.003	0.000	0.003	0.000	0.003
max	6.770	0.092	6.770	0.124	6.770	0.082
n (Samp)	441	20	441	26	441	14
n (Pat)	170	20	170	26	170	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.027	0.040	0.027	0.045	0.027	0.037
average	0.034	0.046	0.034	0.182	0.034	0.055
stdev	0.025	0.031	0.025	0.932	0.025	0.052
p (t-test)		0.003		0.021		0.001
min	0.002	0.008	0.002	0.005	0.002	0.003
max	0.142	0.141	0.142	6.770	0.142	0.235
n (Samp)	212	47	212	52	212	25
n (Pat)	85	47	85	52	85	25

Cr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.55	0.044	249	53	0.242
24 hours	0.61	0.042	249	62	0.009
48 hours	0.62	0.060	249	27	0.046

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.43	0.063	441	20	0.295
24 hours	0.58	0.060	441	26	0.209
48 hours	0.56	0.081	441	14	0.485

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.63	0.047	212	47	0.008
24 hours	0.67	0.044	212	52	0.000
48 hours	0.65	0.062	212	25	0.018

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.0217	72%	40%	1			
	0.017	81%	31%	2	1.8	1.2	2.7
	0.013	91%	19%	3	1.4	0.9	2.2
	0.0451	36%	70%	4	2.1	1.4	3.1
	0.0577	19%	80%				
	0.0728	13%	90%				
24 hours	0.0259	71%	46%	1			
	0.021	81%	38%	2	1.2	0.8	1.9
	0.00974	90%	11%	3	2.0	1.4	2.9

Fig. 1 - 39

	0.0451	47%	70%	4	2.6	1.9	3.7
	0.0577	31%	80%				
	0.0728	19%	90%				
48 hours	0.0319	70%	57%	1			
	0.0187	81%	33%	2	0.5	0.1	2.2
	0.00343	93%	2%	3	2.8	1.3	5.8
	0.0451	48%	70%	4	3.1	1.5	6.4
	0.0577	30%	80%				
	0.0728	22%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.017	70%	27%	1			
	0.0139	80%	21%	2	1.3	0.5	3.2
	0.00639	90%	5%	3	1.3	0.5	3.2
	0.0472	30%	70%	4	1.5	0.7	3.6
	0.0587	15%	80%				
	0.0763	5%	90%				
24 hours	0.0199	73%	31%	1			
	0.013	81%	18%	2	0.6	0.3	1.5
	0.00733	92%	6%	3	0.8	0.4	1.7
	0.0472	46%	70%	4	1.9	1.1	3.3
	0.0587	35%	80%				
	0.0763	15%	90%				
48 hours	0.0312	71%	51%	1			
	0.0187	86%	29%	2	1.0	0.1	7.3
	0.00473	93%	4%	3	3.1	0.8	11.8
	0.0472	29%	70%	4	2.0	0.4	9.1
	0.0587	21%	80%				
	0.0763	14%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.0231	72%	43%	1			
	0.0217	81%	41%	2	2.7	1.4	5.0
	0.0149	91%	24%	3	2.7	1.4	5.0
	0.0451	43%	71%	4	4.5	2.5	8.0
	0.053	38%	80%				
	0.0667	17%	90%				
24 hours	0.0303	71%	56%	1			
	0.0243	81%	45%	2	3.1	1.5	6.5
	0.0197	90%	37%	3	5.4	2.7	10.6
	0.0451	50%	71%	4	6.7	3.5	13.1
	0.053	35%	80%				
	0.0667	23%	90%				
48 hours	0.0319	72%	58%	1			
	0.0311	80%	57%	2	1.0	0.1	7.6
	0.017	92%	31%	3	6.5	1.9	22.4
	0.0451	40%	71%	4	5.7	1.6	19.9
	0.053	32%	80%				
	0.0667	20%	90%				

Fig. 1 - 40

P-selectin glycoprotein ligand 1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.794	1.119	1.794	1.137	1.794	0.966
average	4.219	4.361	4.219	2.640	4.219	4.098
stdev	7.564	8.239	7.564	3.968	7.564	6.633
p (t-test)		0.908		0.128		0.938
min	0.001	0.001	0.001	0.018	0.001	0.006
max	67.069	47.674	67.069	20.498	67.069	22.918
n (Samp)	164	52	164	59	164	26
n (Pat)	104	52	104	59	104	26

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.412	1.000	1.412	0.977	1.412	3.100
average	3.847	3.565	3.847	2.259	3.847	4.196
stdev	6.885	5.752	6.885	2.677	6.885	5.482
p (t-test)		0.861		0.263		0.852
min	0.001	0.016	0.001	0.016	0.001	0.018
max	67.069	19.906	67.069	9.204	67.069	20.907
n (Samp)	322	19	322	24	322	14
n (Pat)	168	19	168	24	168	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.842	1.020	1.842	1.083	1.842	0.849
average	4.569	3.864	4.569	2.459	4.569	3.266
stdev	8.132	8.176	8.132	4.099	8.132	6.013
p (t-test)		0.612		0.081		0.463
min	0.001	0.001	0.001	0.018	0.001	0.006
max	67.069	47.674	67.069	20.498	67.069	22.918
n (Samp)	139	46	139	50	139	23
n (Pat)	85	46	85	50	85	23

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.45	0.045	164	52	0.309
24 hours	0.43	0.042	164	59	0.080
48 hours	0.44	0.059	164	26	0.292

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.47	0.067	322	19	0.673
24 hours	0.44	0.059	322	24	0.306
48 hours	0.54	0.081	322	14	0.598

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.42	0.047	139	46	0.089
24 hours	0.39	0.045	139	50	0.017
48 hours	0.38	0.059	139	23	0.044

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.46735	73%	24%	1			
	0.3318	81%	20%	2	1.0	0.6	1.6
	0.01619	96%	1%	3	1.6	1.1	2.5

Fig. 1 - 41

	3.99894	21%	70%	4	1.4	0.9	2.1
	6.28391	19%	80%				
	10.0248	13%	90%				
24 hours	0.30536	71%	18%	1			
	0.00132	100%	1%	2	1.0	0.7	1.5
	0.00132	100%	1%	3	1.6	1.1	2.3
	3.99894	22%	70%	4	1.8	1.2	2.6
	6.28391	10%	80%				
	10.0248	3%	90%				
48 hours	0.1182	73%	14%	1			
	0.01822	81%	13%	2	0.5	0.2	1.3
	0.00132	100%	1%	3	0.8	0.4	1.7
	3.99894	31%	70%	4	1.4	0.8	2.5
	6.28391	19%	80%				
	10.0248	12%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.75253	74%	34%	1			
	0.01822	84%	17%	2	1.0	0.4	2.8
	0.01619	95%	2%	3	1.6	0.7	3.7
	3.27452	32%	70%	4	1.3	0.5	3.2
	5.39435	21%	80%				
	10.0248	11%	90%				
24 hours	0.34502	71%	24%	1			
	0.01619	96%	2%	2	0.7	0.3	1.6
	0.01619	96%	2%	3	1.2	0.6	2.3
	3.27452	29%	70%	4	1.2	0.6	2.3
	5.39435	17%	80%				
	10.0248	0%	90%				
48 hours	0.66465	71%	33%	1			
	0.00574	100%	2%	2	0.2	0.0	2.9
	0.00574	100%	2%	3	0.7	0.2	2.4
	3.27452	43%	70%	4	1.5	0.6	3.7
	5.39435	29%	80%				
	10.0248	7%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.45337	72%	24%	1			
	0.23619	80%	17%	2	1.5	0.9	2.6
	0.00132	98%	1%	3	2.1	1.3	3.5
	4.29127	17%	71%	4	1.9	1.2	3.2
	7.08102	17%	81%				
	11.9954	11%	91%				
24 hours	0.1182	72%	14%	1			
	0.00132	100%	1%	2	1.2	0.7	2.0
	0.00132	100%	1%	3	1.8	1.2	2.9
	4.29127	18%	71%	4	2.5	1.6	3.8
	7.08102	8%	81%				
	11.9954	4%	91%				
48 hours	0.04883	74%	14%	1			
	0.02776	83%	14%	2	1.0	0.3	3.0
	0.00132	100%	1%	3	1.6	0.6	4.0
	4.29127	17%	71%	4	2.7	1.2	6.1
	7.08102	17%	81%				
	11.9954	9%	91%				

Fig. 1 - 42

Secretory leukocyte peptidase inhibitor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	8111.639	14624.374	8111.639	16549.815	8111.639	525.489
average	11492.522	15110.501	11492.522	16645.536	11492.522	25158.598
stdev	9589.114	9290.532	9589.114	9691.915	9589.114	na
p (t-test)		0.079		0.019		na
min	525.489	701.419	525.489	531.250	525.489	25158.598
max	33763.353	29870.849	33763.353	32087.099	33763.353	25158.598
n (Samp)	96	28	96	25	96	1
n (Pat)	48	28	48	25	48	1

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	8566.688	20516.605	8566.688	20780.608	8566.688	7684.086
average	12290.616	18287.991	12290.616	18816.183	12290.616	12905.540
stdev	9591.348	8941.337	9591.348	10469.281	9591.348	15296.537
p (t-test)		0.056		0.031		0.913
min	525.489	892.467	525.489	531.250	525.489	903.384
max	33763.353	28363.940	33763.353	32087.099	33763.353	30129.151
n (Samp)	158	10	158	11	158	3
n (Pat)	90	10	90	11	90	3

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	8528.761	10793.358	8528.761	16549.815	8528.761	22883.727
average	11512.549	13878.923	11512.549	16616.725	11512.549	23628.210
stdev	9508.856	9366.886	9508.856	8917.495	9508.856	3818.633
p (t-test)		0.298		0.025		0.014
min	525.489	701.419	525.489	2160.494	525.489	20424.354
max	30367.279	29870.849	30367.279	30018.450	30367.279	28321.033
n (Samp)	74	23	74	23	74	4
n (Pat)	37	23	37	23	37	4

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.63	0.063	96	28	0.039
24 hours	0.65	0.065	96	25	0.018
48 hours	0.86	0.234	96	1	0.120

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.67	0.096	158	10	0.078
24 hours	0.68	0.092	158	11	0.050
48 hours	0.50	0.169	158	3	1.000

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.60	0.070	74	23	0.156
24 hours	0.67	0.068	74	23	0.015
48 hours	0.83	0.128	74	4	0.010

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	7256.53	71%	48%	1			
	6306.41	82%	44%	2	3.2	1.1	9.3

Fig. 1 - 43

	3620.22	93%	27%	3	3.8	1.4	10.7
	16611	43%	71%	4	3.2	1.1	9.3
	22167.9	25%	80%				
	26549.8	18%	91%				
24 hours	8495.58	72%	52%	1			
	7450.98	80%	49%	2	1.8	0.5	6.0
	3415.09	92%	27%	3	3.3	1.1	9.4
	16611	48%	71%	4	3.7	1.3	10.3
	22167.9	36%	80%				
	26549.8	16%	91%				
48 hours	25000	100%	86%	1			
	25000	100%	86%	2	na	na	na
	25000	100%	86%	3	na	na	na
	16611	100%	71%	4	na	na	na
	22167.9	100%	80%				
	26549.8	0%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	16778.6	70%	68%	1			
	15442.8	80%	64%	2	1.0	0.0	55.5
	5569.82	90%	34%	3	4.3	0.3	55.2
	18013.4	60%	70%	4	4.3	0.3	55.2
	23222	40%	80%				
	27287.8	10%	91%				
24 hours	14407.3	73%	62%	1			
	9606.74	82%	54%	2	1.0	0.0	55.5
	4877.05	91%	30%	3	4.3	0.3	55.2
	18013.4	64%	70%	4	5.4	0.5	62.6
	23222	36%	80%				
	27287.8	27%	91%				
48 hours	817.819	100%	6%	1			
	817.819	100%	6%	2	1.0	0.0	55.7
	817.819	100%	6%	3	0.0	0.0	na
	18013.4	33%	70%	4	1.0	0.0	54.3
	23222	33%	80%				
	27287.8	33%	91%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	6725.66	74%	46%	1			
	6306.41	83%	45%	2	2.9	0.9	9.0
	3620.22	91%	27%	3	2.9	0.9	9.0
	16611	35%	70%	4	2.2	0.7	7.2
	23022.9	22%	81%				
	26549.8	17%	91%				
24 hours	8495.58	74%	50%	1			
	7110.75	83%	47%	2	3.7	0.8	16.5
	6452.65	91%	46%	3	3.7	0.8	16.5
	16611	48%	70%	4	6.2	1.5	25.3
	23022.9	35%	81%				
	26549.8	13%	91%				
48 hours	20424.4	75%	76%	1			
	18848.1	100%	76%	2	na	na	na
	18848.1	100%	76%	3	na	na	na
	16611	100%	70%	4	na	na	na
	23022.9	50%	81%				
	26549.8	25%	91%				

Stem cell factor

sCr or UO

Fig. 1 - 44

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	162.000	287.000	162.000	234.500	162.000	227.000
average	301.667	390.823	301.667	391.260	301.667	393.689
stdev	391.044	374.352	391.044	455.071	391.044	506.142
p (t-test)		0.130		0.120		0.261
min	9.140	14.300	9.140	14.300	9.140	14.300
max	2900.000	1610.000	2900.000	2350.000	2900.000	2420.000
n (Samp)	249	53	249	62	249	27
n (Pat)	104	53	104	62	104	27

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	182.000	136.500	182.000	167.000	182.000	147.500
average	315.116	249.810	315.116	375.338	315.116	429.400
stdev	392.514	334.839	392.514	443.429	392.514	503.928
p (t-test)		0.465		0.451		0.288
min	9.140	14.300	9.140	14.300	9.140	14.300
max	2900.000	1440.000	2900.000	1720.000	2900.000	1560.000
n (Samp)	441	20	441	26	441	14
n (Pat)	170	20	170	26	170	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	180.000	317.000	180.000	243.000	180.000	227.000
average	287.934	453.455	287.934	421.458	287.934	404.608
stdev	341.616	392.229	341.616	469.353	341.616	515.271
p (t-test)		0.004		0.020		0.130
min	9.140	51.000	9.140	34.000	9.140	32.800
max	1890.000	1610.000	1890.000	2350.000	1890.000	2420.000
n (Samp)	212	47	212	52	212	25
n (Pat)	85	47	85	52	85	25

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.62	0.044	249	53	0.008
24 hours	0.58	0.042	249	62	0.063
48 hours	0.57	0.060	249	27	0.243

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.43	0.062	441	20	0.260
24 hours	0.52	0.059	441	26	0.707
48 hours	0.53	0.080	441	14	0.745

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.67	0.046	212	47	0.000
24 hours	0.61	0.045	212	52	0.015
48 hours	0.59	0.063	212	25	0.136

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	136	72%	47%	1			
	92.5	81%	30%	2	1.5	0.9	2.5
	82.9	91%	26%	3	2.8	1.8	4.5
	293	49%	70%	4	3.2	2.1	5.1
	416	32%	80%				
	729	15%	90%				

Fig. 1 - 45

24 hours	120	71%	42%	1			
	77.9	81%	24%	2	0.8	0.5	1.2
	54.6	92%	13%	3	1.5	1.1	2.0
	293	37%	70%	4	1.7	1.2	2.3
	416	27%	80%				
	729	16%	90%				
48 hours	165	70%	51%	1			
	60.5	81%	15%	2	0.5	0.2	1.4
	34	93%	5%	3	1.4	0.7	2.6
	293	41%	70%	4	1.8	1.0	3.2
	416	37%	80%				
	729	15%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	82.9	70%	23%	1			
	64.3	80%	16%	2	2.1	0.8	5.7
	47.9	90%	9%	3	1.4	0.4	4.4
	310	25%	70%	4	2.4	0.9	6.4
	452	10%	80%				
	753	10%	90%				
24 hours	95.2	73%	28%	1			
	80	81%	22%	2	1.3	0.7	2.5
	55.3	92%	12%	3	0.8	0.4	1.7
	310	27%	70%	4	1.2	0.6	2.2
	452	27%	80%				
	753	15%	90%				
48 hours	121	71%	39%	1			
	53	86%	11%	2	1.0	0.4	2.7
	34	93%	5%	3	0.0	0.0	na
	310	43%	70%	4	1.5	0.6	3.6
	452	36%	80%				
	753	21%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	209	72%	60%	1			
	128	81%	40%	2	1.7	0.8	3.4
	89.6	91%	25%	3	3.5	2.0	6.4
	297	53%	70%	4	4.9	2.8	8.6
	383	40%	80%				
	682	23%	90%				
24 hours	165	71%	48%	1			
	102	81%	31%	2	1.5	0.9	2.4
	71.1	90%	17%	3	2.0	1.2	3.1
	297	40%	70%	4	2.9	1.9	4.5
	383	35%	80%				
	682	19%	90%				
48 hours	166	72%	49%	1			
	123	80%	38%	2	1.0	0.3	2.9
	51	92%	10%	3	2.5	1.1	5.4
	297	40%	70%	4	2.1	0.9	4.7
	383	32%	80%				
	682	16%	90%				

Tissue inhibitor of metalloproteinase 1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	2.220	3.840	2.220	3.830	2.220	3.890
average	10.227	10.335	10.227	20.849	10.227	19.813

Fig. 1 - 46

stdev	28.712	13.788	28.712	47.669	28.712	57.815
p (t-test)		0.979		0.025		0.148
min	0.034	0.168	0.034	0.081	0.034	0.211
max	302.000	62.200	302.000	302.000	302.000	302.000
n (Samp)	249	53	249	62	249	27
n (Pat)	104	53	104	62	104	27

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	2.630	4.200	2.630	8.890	2.630	4.655
average	12.016	15.626	12.016	21.562	12.016	7.505
stdev	34.277	33.066	34.277	37.431	34.277	8.656
p (t-test)		0.645		0.170		0.623
min	0.034	0.168	0.034	0.081	0.034	0.326
max	302.000	150.000	302.000	159.000	302.000	33.100
n (Samp)	441	20	441	26	441	14
n (Pat)	170	20	170	26	170	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	2.200	7.590	2.200	5.725	2.200	3.770
average	10.906	15.388	10.906	19.745	10.906	21.199
stdev	30.808	26.209	30.808	46.974	30.808	59.952
p (t-test)		0.356		0.099		0.165
min	0.034	0.276	0.034	0.139	0.034	0.211
max	302.000	152.000	302.000	302.000	302.000	302.000
n (Samp)	212	47	212	52	212	25
n (Pat)	85	47	85	52	85	25

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.61	0.044	249	53	0.012
24 hours	0.59	0.042	249	62	0.024
48 hours	0.56	0.060	249	27	0.308

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.56	0.068	441	20	0.411
24 hours	0.60	0.060	441	26	0.110
48 hours	0.55	0.080	441	14	0.503

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.66	0.047	212	47	0.000
24 hours	0.62	0.045	212	52	0.007
48 hours	0.57	0.063	212	25	0.275

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	2.07	72%	48%	1			
	1.54	81%	37%	2	3.4	1.9	6.2
	1.21	91%	31%	3	3.5	2.0	6.3
	5.59	47%	70%	4	4.3	2.5	7.6
	10.3	28%	80%				
	24.6	15%	90%				
24 hours	1.72	71%	41%	1			
	1.21	81%	31%	2	2.2	1.5	3.1
	0.736	90%	21%	3	0.8	0.5	1.3
	5.59	48%	70%	4	3.2	2.2	4.4

Fig. 1 - 47

	10.3	39%	80%				
	24.6	16%	90%				
48 hours	1.49	70%	35%	1			
	1.13	81%	29%	2	1.7	0.8	3.4
	0.325	93%	6%	3	0.6	0.2	1.8
	5.59	41%	70%	4	2.4	1.3	4.6
	10.3	22%	80%				
	24.6	19%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1.94	70%	40%	1			
	1.29	80%	27%	2	1.0	0.4	2.8
	0.256	90%	5%	3	1.3	0.5	3.2
	7.88	35%	70%	4	1.8	0.8	4.0
	11.8	30%	80%				
	25.1	10%	90%				
24 hours	1.44	73%	29%	1			
	0.932	81%	19%	2	0.4	0.2	1.1
	0.412	92%	8%	3	0.6	0.2	1.2
	7.88	58%	70%	4	1.8	1.1	2.9
	11.8	42%	80%				
	25.1	19%	90%				
48 hours	1.89	71%	39%	1			
	1.27	86%	27%	2	2.0	0.4	9.1
	1.01	93%	22%	3	1.5	0.3	8.0
	7.88	43%	70%	4	2.5	0.6	10.4
	11.8	21%	80%				
	25.1	7%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	2.24	70%	51%	1			
	1.99	81%	45%	2	8.5	2.6	28.0
	1.34	91%	33%	3	8.5	2.6	28.0
	5.51	57%	70%	4	11.0	3.4	35.3
	11.2	30%	80%				
	24.9	19%	90%				
24 hours	1.8	71%	41%	1			
	1.45	83%	34%	2	3.5	2.1	5.8
	1.01	92%	26%	3	1.2	0.6	2.3
	5.51	50%	70%	4	5.0	3.1	8.2
	11.2	38%	80%				
	24.9	15%	90%				
48 hours	1.49	72%	35%	1			
	1.16	80%	29%	2	1.9	0.8	4.3
	0.815	92%	21%	3	1.3	0.5	3.3
	5.51	40%	70%	4	2.4	1.1	5.3
	11.2	24%	80%				
	24.9	20%	90%				

Tissue inhibitor of metalloproteinase 2

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	8619.363	14310.878	8619.363	12505.747	8619.363	10582.597
average	12919.212	14508.472	12919.212	20872.292	12919.212	14248.990
stdev	22146.588	9391.645	22146.588	33046.482	22146.588	18292.819
p (t-test)		0.623		0.059		0.776
min	759.402	1026.894	759.402	52.566	759.402	746.215
max	210000.000	42030.967	210000.000	210000.000	210000.000	89331.344

Fig. 1 - 48

n (Samp)	117	51	117	60	117	26
n (Pat)	99	51	99	60	99	26

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	10640.038	11416.887	10640.038	9763.787	10640.038	11626.661
average	14957.752	13825.554	14957.752	26213.840	14957.752	12289.343
stdev	19692.771	11848.841	19692.771	43807.207	19692.771	7367.599
p (t-test)		0.815		0.022		0.614
min	213.712	1026.894	213.712	52.566	213.712	1311.328
max	210000.000	42030.967	210000.000	210000.000	210000.000	26183.550
n (Samp)	261	17	261	23	261	14
n (Pat)	160	17	160	23	160	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	8532.402	16465.292	8532.402	13185.035	8532.402	10640.038
average	13295.674	15424.444	13295.674	23093.948	13295.674	15382.046
stdev	23450.084	8371.038	23450.084	35709.945	23450.084	19600.493
p (t-test)		0.555		0.043		0.692
min	759.402	2687.654	759.402	1103.366	759.402	746.215
max	210000.000	33679.652	210000.000	210000.000	210000.000	89331.344
n (Samp)	105	45	105	50	105	23
n (Pat)	84	45	84	50	84	23

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.62	0.048	117	51	0.011
24 hours	0.63	0.045	117	60	0.005
48 hours	0.51	0.063	117	26	0.823

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.49	0.072	261	17	0.933
24 hours	0.56	0.064	261	23	0.386
48 hours	0.50	0.080	261	14	0.957

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.68	0.050	105	45	0.000
24 hours	0.66	0.048	105	50	0.001
48 hours	0.53	0.067	105	23	0.643

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	7727.52	71%	44%	1			
	6693.2	80%	40%	2	1.7	1.0	2.9
	2825.65	90%	14%	3	1.9	1.1	3.2
	13779.5	51%	70%	4	3.2	1.9	5.2
	17295.1	31%	80%				
	20456.1	24%	91%				
24 hours	8897.32	70%	54%	1			
	6213.75	80%	38%	2	2.6	1.6	4.2
	3735.29	90%	23%	3	2.3	1.4	3.8
	13779.5	43%	70%	4	3.9	2.5	6.3
	17295.1	35%	80%				
	20456.1	30%	91%				
48 hours	5722.8	73%	36%	1			
	3623.96	81%	21%	2	0.8	0.3	1.8
	2281.85	92%	9%	3	1.9	1.0	3.6

Fig. 1 - 49

	13779.5	27%	70%	4	0.8	0.3	1.8
	17295.1	15%	80%				
	20456.1	15%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	5408.72	71%	23%	1			
	2808.64	82%	10%	2	1.3	0.5	3.3
	1670.96	94%	5%	3	0.5	0.1	2.2
	16325.1	35%	70%	4	1.6	0.7	3.8
	19793.8	24%	80%				
	26953.7	18%	90%				
24 hours	6042.22	74%	25%	1			
	4165.28	83%	20%	2	0.7	0.3	1.4
	3623.96	91%	15%	3	0.1	0.0	1.3
	16325.1	43%	70%	4	1.5	0.9	2.6
	19793.8	43%	80%				
	26953.7	22%	90%				
48 hours	6213.75	71%	25%	1			
	5408.72	86%	23%	2	0.7	0.2	2.4
	3847.82	93%	17%	3	0.7	0.2	2.4
	16325.1	36%	70%	4	1.0	0.3	2.8
	19793.8	14%	80%				
	26953.7	0%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	8192.37	71%	48%	1			
	7016.45	80%	43%	2	3.4	1.5	7.5
	6394.01	91%	42%	3	4.5	2.0	9.8
	13779.5	58%	70%	4	6.7	3.1	14.3
	16912.3	44%	80%				
	21664.6	24%	90%				
24 hours	9044.74	70%	55%	1			
	7056.32	80%	43%	2	4.8	2.2	10.2
	5722.8	90%	38%	3	4.8	2.2	10.2
	13779.5	46%	70%	4	7.3	3.4	15.4
	16912.3	36%	80%				
	21664.6	26%	90%				
48 hours	6183.82	74%	41%	1			
	2825.65	83%	13%	2	0.3	0.1	1.2
	2281.85	91%	10%	3	2.3	1.2	4.5
	13779.5	26%	70%	4	0.6	0.2	1.6
	16912.3	17%	80%				
	21664.6	17%	90%				

Tumor necrosis factor-alpha

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	2.650	5.370	2.650	5.785	2.650	2.900
average	6.664	10.233	6.664	11.075	6.664	16.604
stdev	10.908	9.597	10.908	13.478	10.908	44.935
p (t-test)		0.028		0.007		0.005
min	0.016	0.016	0.016	0.016	0.016	0.016
max	86.200	34.200	86.200	66.800	86.200	234.000
n (Samp)	249	53	249	62	249	27
n (Pat)	104	53	104	62	104	27

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2

Fig. 1 - 50

median	3.190	2.715	3.190	4.900	3.190	4.115
average	9.421	7.586	9.421	9.793	9.421	10.510
stdev	22.272	9.948	22.272	12.854	22.272	15.044
p (t-test)		0.714		0.933		0.856
min	0.016	0.016	0.016	0.016	0.016	0.016
max	300.000	34.200	300.000	61.200	300.000	54.500
n (Samp)	441	20	441	26	441	14
n (Pat)	170	20	170	26	170	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	2.675	6.510	2.675	5.785	2.675	3.310
average	5.942	10.353	5.942	10.984	5.942	18.963
stdev	8.786	8.955	8.786	12.737	8.786	46.476
p (t-test)		0.002		0.001		0.000
min	0.016	0.016	0.016	0.016	0.016	0.016
max	72.000	30.600	72.000	66.800	72.000	234.000
n (Samp)	212	47	212	52	212	25
n (Pat)	85	47	85	52	85	25

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.63	0.044	249	53	0.004
24 hours	0.62	0.041	249	62	0.003
48 hours	0.57	0.060	249	27	0.270

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.48	0.065	441	20	0.729
24 hours	0.56	0.060	441	26	0.338
48 hours	0.55	0.080	441	14	0.514

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.65	0.047	212	47	0.001
24 hours	0.64	0.045	212	52	0.002
48 hours	0.61	0.063	212	25	0.068

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	2.41	72%	47%	1			
	1.02	81%	21%	2	0.7	0.4	1.1
	0.372	91%	10%	3	0.9	0.6	1.4
	6.72	45%	70%	4	2.7	1.9	3.7
	11.1	45%	80%				
	17.3	25%	91%				
24 hours	2.48	71%	49%	1			
	1.46	81%	32%	2	1.7	1.1	2.5
	0.739	90%	14%	3	1.9	1.3	2.9
	6.72	47%	70%	4	3.2	2.2	4.6
	11.1	35%	80%				
	17.3	24%	91%				
48 hours	2.17	70%	45%	1			
	1.68	81%	35%	2	1.4	0.7	3.0
	0.739	93%	14%	3	1.2	0.6	2.7
	6.72	37%	70%	4	1.9	1.0	3.8
	11.1	22%	80%				
	17.3	19%	91%				

Fig. 1 - 51

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1.64	70%	29%	1			
	1.02	80%	18%	2	0.8	0.3	2.0
	0	100%	0%	3	1.2	0.6	2.6
	9.26	25%	70%	4	1.0	0.4	2.3
	14.7	25%	80%				
	20.2	15%	90%				
24 hours	2.5	73%	43%	1			
	1.42	81%	26%	2	1.0	0.4	2.2
	0	100%	0%	3	1.6	0.8	3.2
	9.26	35%	70%	4	1.6	0.8	3.2
	14.7	27%	80%				
	20.2	12%	90%				
48 hours	2.89	71%	47%	1			
	1.68	86%	29%	2	2.0	0.4	9.1
	0.77	93%	13%	3	2.5	0.6	10.4
	9.26	36%	70%	4	1.5	0.3	8.0
	14.7	21%	80%				
	20.2	14%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	2.78	70%	51%	1			
	1.24	81%	27%	2	0.6	0.3	1.1
	0.435	91%	11%	3	1.1	0.7	1.8
	5.17	57%	70%	4	3.1	2.1	4.6
	9.61	47%	80%				
	16.2	30%	90%				
24 hours	2.48	71%	48%	1			
	1.68	81%	33%	2	2.3	1.4	3.7
	1.09	90%	23%	3	1.5	0.9	2.6
	5.17	54%	70%	4	3.9	2.5	6.2
	9.61	40%	80%				
	16.2	29%	90%				
48 hours	2.17	76%	44%	1			
	2.16	80%	43%	2	1.6	0.6	3.8
	0.944	92%	19%	3	1.3	0.5	3.3
	5.17	44%	70%	4	2.8	1.3	5.9
	9.61	40%	80%				
	16.2	24%	90%				

Vascular cell adhesion molecule 1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	50.024	62.461	50.024	61.887	50.024	60.483
average	60.209	69.355	60.209	78.438	60.209	68.162
stdev	46.313	39.752	46.313	57.060	46.313	41.709
p (t-test)		0.222		0.024		0.422
min	0.475	2.441	0.475	1.903	0.475	6.248
max	322.684	194.946	322.684	299.907	322.684	160.496
n (Samp)	117	51	117	59	117	26
n (Pat)	99	51	99	59	99	26

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	56.989	46.445	56.989	58.030	56.989	45.094
average	66.507	51.536	66.507	59.235	66.507	56.593
stdev	44.397	35.456	44.397	35.582	44.397	41.657
p (t-test)		0.175		0.446		0.415

Fig. 1 - 52

min	0.475	2.441	0.475	1.903	0.475	6.248
max	322.684	137.003	322.684	125.606	322.684	163.018
n (Samp)	260	17	260	23	260	14
n (Pat)	160	17	160	23	160	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	51.949	70.757	51.949	73.583	51.949	69.560
average	63.784	79.503	63.784	83.967	63.784	74.837
stdev	47.334	44.955	47.334	60.431	47.334	42.245
p (t-test)		0.060		0.026		0.304
min	0.475	13.737	0.475	7.074	0.475	14.743
max	322.684	239.116	322.684	299.907	322.684	160.496
n (Samp)	105	45	105	49	105	23
n (Pat)	84	45	84	49	84	23

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.59	0.049	117	51	0.059
24 hours	0.61	0.046	117	59	0.016
48 hours	0.57	0.064	117	26	0.243

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.39	0.066	260	17	0.096
24 hours	0.47	0.062	260	23	0.681
48 hours	0.42	0.074	260	14	0.266

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.62	0.051	105	45	0.017
24 hours	0.61	0.050	105	49	0.033
48 hours	0.59	0.068	105	23	0.165

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	47.3631	71%	45%	1			
	44.1723	80%	43%	2	1.7	1.0	2.9
	27.807	90%	26%	3	2.6	1.6	4.3
	72.078	41%	70%	4	2.4	1.4	3.9
	89.6943	24%	80%				
	118.475	10%	91%				
24 hours	45.6672	71%	44%	1			
	36.986	81%	34%	2	1.5	0.9	2.4
	24.0582	92%	22%	3	3.2	2.1	5.1
	72.078	49%	70%	4	2.7	1.7	4.3
	89.6943	31%	80%				
	118.475	15%	91%				
48 hours	40.7214	73%	39%	1			
	28.0363	81%	26%	2	1.0	0.4	2.4
	17.0284	92%	13%	3	1.2	0.5	2.8
	72.078	38%	70%	4	2.3	1.1	4.8
	89.6943	31%	80%				
	118.475	12%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	31.445	71%	22%	1			
	27.807	82%	19%	2	0.7	0.1	3.6

Fig. 1 - 53

	13.1521	94%	7%	3	1.7	0.6	5.3
	81.7261	18%	70%	4	2.5	0.9	6.8
	95.1633	18%	80%				
	119.894	6%	90%				
24 hours	40.1968	74%	30%	1			
	24.0582	83%	16%	2	2.1	1.0	4.7
	10.5618	91%	5%	3	1.5	0.6	3.7
	81.7261	30%	70%	4	1.3	0.5	3.3
	95.1633	17%	80%				
	119.894	4%	90%				
48 hours	33.6142	71%	23%	1			
	20.4689	86%	12%	2	0.7	0.1	3.6
	20.0671	93%	12%	3	1.4	0.4	4.5
	81.7261	21%	70%	4	1.7	0.6	5.3
	95.1633	14%	80%				
	119.894	7%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	52.4835	71%	50%	1			
	47.3631	80%	42%	2	4.3	2.0	9.3
	37.3466	91%	33%	3	5.6	2.6	12.1
	77.4613	40%	70%	4	4.3	2.0	9.3
	96.646	22%	80%				
	121.836	13%	90%				
24 hours	46.4448	71%	41%	1			
	35.9153	82%	31%	2	1.9	1.1	3.2
	27.807	92%	23%	3	1.5	0.9	2.7
	77.4613	45%	70%	4	2.9	1.7	4.8
	96.646	27%	80%				
	121.836	16%	90%				
48 hours	49.3582	74%	47%	1			
	27.9607	83%	24%	2	0.6	0.2	1.8
	18.4814	91%	11%	3	1.2	0.5	3.0
	77.4613	48%	70%	4	2.1	1.0	4.6
	96.646	30%	80%				
	121.836	13%	90%				

Vascular endothelial growth factor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	600.000	925.000	600.000	762.000	600.000	669.000
average	1891.477	2473.508	1891.477	5984.526	1891.477	3383.500
stdev	4088.272	5446.685	4088.272	19167.959	4088.272	10743.443
p (t-test)		0.378		0.002		0.150
min	33.400	80.900	33.400	49.500	33.400	64.500
max	32200.000	34800.000	32200.000	139000.000	32200.000	56400.000
n (Samp)	249	53	249	62	249	27
n (Pat)	104	53	104	62	104	27

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	660.000	811.500	660.000	1080.000	660.000	683.500
average	2601.196	2388.195	2601.196	3638.854	2601.196	2463.714
stdev	9010.854	3221.517	9010.854	4660.409	9010.854	4569.211
p (t-test)		0.916		0.561		0.955
min	33.400	80.900	33.400	49.500	33.400	213.000
max	139000.000	11600.000	139000.000	18100.000	139000.000	17600.000
n (Samp)	441	20	441	26	441	14
n (Pat)	170	20	170	26	170	14

UO only

Fig. 1 - 54

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	569.500	1100.000	569.500	828.500	569.500	992.000
average	1424.303	2877.681	1424.303	6420.635	1424.303	3706.460
stdev	2898.589	5790.883	2898.589	20775.833	2898.589	11131.476
p (t-test)		0.013		0.001		0.017
min	33.400	169.000	33.400	57.000	33.400	64.500
max	25700.000	34800.000	25700.000	139000.000	25700.000	56400.000
n (Samp)	212	47	212	52	212	25
n (Pat)	85	47	85	52	85	25

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.59	0.045	249	53	0.044
24 hours	0.59	0.042	249	62	0.037
48 hours	0.53	0.059	249	27	0.603

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.53	0.067	441	20	0.610
24 hours	0.59	0.060	441	26	0.141
48 hours	0.54	0.080	441	14	0.591

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.67	0.046	212	47	0.000
24 hours	0.64	0.045	212	52	0.001
48 hours	0.58	0.063	212	25	0.205

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	583	72%	49%	1			
	353	81%	31%	2	0.7	0.4	1.3
	198	91%	12%	3	2.3	1.6	3.4
	1190	43%	70%	4	2.4	1.7	3.6
	2130	26%	80%				
	4280	11%	90%				
24 hours	488	71%	41%	1			
	373	81%	32%	2	1.5	1.0	2.3
	220	90%	12%	3	3.2	2.2	4.6
	1190	35%	70%	4	2.1	1.4	3.1
	2130	27%	80%				
	4280	21%	90%				
48 hours	402	70%	34%	1			
	309	81%	27%	2	1.4	0.7	3.0
	198	93%	12%	3	1.7	0.8	3.4
	1190	37%	70%	4	1.4	0.7	3.0
	2130	15%	80%				
	4280	11%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	373	70%	29%	1			
	250	80%	17%	2	0.8	0.3	2.0
	179	90%	8%	3	0.6	0.2	1.7
	1220	40%	70%	4	1.6	0.8	3.2
	2010	35%	80%				
	4500	20%	90%				
24 hours	389	73%	30%	1			
	359	81%	29%	2	1.0	0.4	2.2

Fig. 1 - 55

	96.9	92%	3%	3	0.8	0.3	2.0
	1220	46%	70%	4	2.5	1.4	4.6
	2010	46%	80%				
	4500	31%	90%				
48 hours	432	71%	34%	1			
	322	86%	26%	2	2.5	0.6	10.4
	288	93%	23%	3	1.0	0.1	7.3
	1220	36%	70%	4	2.5	0.6	10.4
	2010	29%	80%				
	4500	14%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	714	70%	60%	1			
	589	81%	53%	2	1.0	0.4	2.3
	236	91%	16%	3	4.9	2.8	8.6
	1070	51%	70%	4	4.5	2.5	8.0
	1840	36%	80%				
	2870	19%	90%				
24 hours	633	71%	56%	1			
	486	81%	43%	2	2.2	1.1	4.2
	359	90%	32%	3	6.1	3.5	10.7
	1070	40%	70%	4	3.6	2.0	6.5
	1840	25%	80%				
	2870	23%	90%				
48 hours	402	72%	35%	1			
	322	80%	27%	2	1.6	0.6	3.8
	217	92%	12%	3	1.6	0.6	3.8
	1070	44%	70%	4	2.4	1.1	5.3
	1840	28%	80%				
	2870	16%	90%				

Fig. 1 - 56

Aspartate aminotransferase, cytoplasmic

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	7.520	6.690	7.520	7.860	7.520	7.170
average	9.111	13.333	9.111	8.163	9.111	9.037
stdev	8.751	26.570	8.751	6.318	8.751	8.832
p (t-test)		0.046		0.525		0.972
min	0.451	0.853	0.451	0.877	0.451	0.974
max	104.000	142.000	104.000	23.300	104.000	30.800
n (Samp)	419	27	419	36	419	18
n (Pat)	164	27	164	36	164	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	7.485	8.990	7.485	8.200	7.485	6.000
average	9.232	8.506	9.232	7.708	9.232	9.439
stdev	10.199	2.427	10.199	5.471	10.199	9.690
p (t-test)		0.874		0.655		0.958
min	0.451	5.620	0.451	1.160	0.451	1.040
max	142.000	11.800	142.000	15.400	142.000	28.700
n (Samp)	518	5	518	9	518	7
n (Pat)	199	5	199	9	199	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	7.310	6.955	7.310	8.180	7.310	7.170
average	8.700	14.068	8.700	8.770	8.700	8.831
stdev	7.311	27.060	7.311	6.488	7.311	7.478
p (t-test)		0.008		0.959		0.944
min	0.476	0.853	0.476	0.877	0.476	0.974
max	58.800	142.000	58.800	23.300	58.800	30.800
n (Samp)	352	26	352	30	352	16
n (Pat)	133	26	133	30	133	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.49	0.057	419	27	0.881
24 hours	0.49	0.050	419	36	0.781
48 hours	0.47	0.068	419	18	0.617

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.57	0.134	518	5	0.623
24 hours	0.50	0.097	518	9	0.999
48 hours	0.47	0.108	518	7	0.793

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.52	0.059	352	26	0.688
24 hours	0.53	0.056	352	30	0.652
48 hours	0.49	0.074	352	16	0.929

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	5.83	70%	31%	1			
	2.55	81%	17%	2	0.6	0.3	1.3
	1.02	93%	9%	3	1.5	0.9	2.5
	9.89	26%	70%	4	0.9	0.5	1.6
	12.1	19%	80%				

Fig. 2 - 1

	15.8	15%	90%				
24 hours	2.96	72%	17%	1			
	1.45	81%	14%	2	0.9	0.6	1.4
	1.08	92%	11%	3	0.5	0.3	0.9
	9.89	31%	70%	4	1.2	0.8	1.8
	12.1	25%	80%				
	15.8	14%	90%				
48 hours	5.58	72%	28%	1			
	1.32	83%	13%	2	1.0	0.4	2.8
	1.02	94%	9%	3	1.3	0.5	3.2
	9.89	22%	70%	4	1.3	0.5	3.2
	12.1	22%	80%				
	15.8	17%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	6.67	80%	43%	1			
	6.67	80%	43%	2	na	na	na
	5.58	100%	29%	3	na	na	na
	9.84	20%	70%	4	na	na	na
	12.1	0%	80%				
	17.1	0%	90%				
24 hours	1.91	78%	17%	1			
	1.54	89%	16%	2	0.7	0.1	3.5
	1.12	100%	12%	3	0.3	0.0	4.6
	9.84	33%	70%	4	1.0	0.3	3.8
	12.1	33%	80%				
	17.1	0%	90%				
48 hours	5.67	71%	30%	1			
	1.24	86%	13%	2	0.5	0.0	9.7
	1.03	100%	9%	3	1.0	0.1	7.4
	9.84	29%	70%	4	1.0	0.1	7.4
	12.1	29%	80%				
	17.1	14%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	5.83	73%	33%	1			
	2.55	81%	18%	2	1.3	0.7	2.5
	1.02	92%	9%	3	0.8	0.4	1.8
	9.84	31%	70%	4	1.2	0.6	2.2
	11.8	23%	80%				
	15.3	23%	90%				
24 hours	5.44	70%	30%	1			
	1.45	80%	14%	2	0.4	0.2	0.9
	1.08	90%	11%	3	0.8	0.4	1.3
	9.84	37%	70%	4	1.1	0.7	1.8
	11.8	23%	80%				
	15.3	17%	90%				
48 hours	5.6	75%	30%	1			
	5.58	81%	30%	2	0.7	0.2	2.4
	1.32	94%	13%	3	1.5	0.6	3.6
	9.84	25%	70%	4	0.7	0.2	2.4
	11.8	25%	80%				
	15.3	13%	90%				

Fig. 2 - 2

CD40

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	28.300	42.600	28.300	44.150	28.300	44.600
average	44.460	52.154	44.460	54.616	44.460	44.463
stdev	49.863	40.666	49.863	51.895	49.863	32.270
p (t-test)		0.433		0.243		1.000
min	0.000	2.050	0.000	3.080	0.000	3.190
max	326.000	180.000	326.000	243.000	326.000	134.000
n (Samp)	419	27	419	36	419	18
n (Pat)	164	27	164	36	164	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	32.700	39.000	32.700	42.700	32.700	46.800
average	47.039	47.890	47.039	77.103	47.039	43.714
stdev	49.339	36.503	49.339	88.919	49.339	22.088
p (t-test)		0.969		0.075		0.859
min	0.000	8.250	0.000	4.430	0.000	6.800
max	326.000	95.300	326.000	243.000	326.000	67.900
n (Samp)	518	5	518	9	518	7
n (Pat)	199	5	199	9	199	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	30.900	48.550	30.900	45.100	30.900	43.250
average	42.818	60.292	42.818	55.965	42.818	45.427
stdev	42.718	44.622	42.718	47.862	42.718	33.439
p (t-test)		0.045		0.110		0.810
min	0.000	2.050	0.000	3.080	0.000	3.190
max	286.000	180.000	286.000	171.000	286.000	134.000
n (Samp)	352	26	352	30	352	16
n (Pat)	133	26	133	30	133	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.60	0.059	419	27	0.079
24 hours	0.58	0.052	419	36	0.120
48 hours	0.56	0.071	419	18	0.407

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.55	0.133	518	5	0.682
24 hours	0.57	0.100	518	9	0.483
48 hours	0.57	0.113	518	7	0.533

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.65	0.060	352	26	0.014
24 hours	0.59	0.057	352	30	0.121
48 hours	0.56	0.076	352	16	0.443

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	28.3	70%	50%	1			
	21.6	81%	40%	2	2.0	0.7	5.6
	8.06	93%	14%	3	3.6	1.5	8.7

Fig. 2 - 3

	50.1	37%	70%	4	2.8	1.1	7.1
	64.5	26%	80%				
	96.6	19%	90%				
24 hours	19.8	72%	37%	1			
	16.4	81%	32%	2	2.9	1.4	5.9
	8.41	92%	14%	3	2.6	1.3	5.4
	50.1	39%	70%	4	2.9	1.4	5.9
	64.5	31%	80%				
	96.6	14%	90%				
48 hours	19.8	72%	37%	1			
	15.6	83%	30%	2	1.0	0.3	3.8
	5.42	94%	6%	3	2.4	0.9	6.4
	50.1	33%	70%	4	1.7	0.6	5.0
	64.5	22%	80%				
	96.6	6%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	21.6	80%	37%	1			
	21.6	80%	37%	2	1.0	0.0	51.5
	8.06	100%	13%	3	1.0	0.0	51.5
	52.4	40%	70%	4	2.0	0.1	39.0
	71.3	40%	80%				
	101	0%	90%				
24 hours	21	78%	35%	1			
	13.7	89%	24%	2	1.0	0.1	7.3
	4.4	100%	5%	3	1.0	0.1	7.3
	52.4	33%	70%	4	1.5	0.3	7.9
	71.3	33%	80%				
	101	22%	90%				
48 hours	42.3	71%	61%	1			
	21.9	86%	37%	2	1.0	0.0	51.9
	6.68	100%	10%	3	3.0	0.2	42.9
	52.4	43%	70%	4	2.0	0.1	39.0
	71.3	0%	80%				
	101	0%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	37.2	73%	59%	1			
	22.4	81%	39%	2	2.6	0.6	10.5
	17.2	92%	29%	3	4.9	1.4	16.9
	51	46%	70%	4	5.4	1.6	18.3
	64	35%	80%				
	90.3	23%	90%				
24 hours	21.6	70%	37%	1			
	17.7	80%	30%	2	1.4	0.7	2.9
	15	90%	24%	3	1.7	0.8	3.3
	51	40%	70%	4	2.1	1.1	3.9
	64	33%	80%				
	90.3	17%	90%				
48 hours	19.8	75%	33%	1			
	17.6	81%	30%	2	2.0	0.5	9.3
	5.42	94%	6%	3	3.1	0.8	12.1
	51	31%	70%	4	2.0	0.5	9.3
	64	25%	80%				
	90.3	6%	90%				

Fig. 2 - 4

CD40 Ligand

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.207	0.230	0.207	0.216	0.207	0.258
average	0.250	0.265	0.250	0.250	0.250	0.232
stdev	0.180	0.172	0.180	0.169	0.180	0.141
p (t-test)		0.689		0.981		0.662
min	0.010	0.024	0.010	0.033	0.010	0.019
max	0.891	0.641	0.891	0.631	0.891	0.419
n (Samp)	419	27	419	36	419	18
n (Pat)	164	27	164	36	164	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.217	0.407	0.217	0.297	0.217	0.376
average	0.250	0.343	0.250	0.287	0.250	0.287
stdev	0.176	0.171	0.176	0.238	0.176	0.175
p (t-test)		0.241		0.531		0.583
min	0.010	0.088	0.010	0.033	0.010	0.019
max	0.891	0.529	0.891	0.640	0.891	0.440
n (Samp)	518	5	518	9	518	7
n (Pat)	199	5	199	9	199	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.219	0.241	0.219	0.244	0.219	0.280
average	0.251	0.286	0.251	0.267	0.251	0.255
stdev	0.173	0.189	0.173	0.174	0.173	0.138
p (t-test)		0.323		0.637		0.935
min	0.010	0.024	0.010	0.039	0.010	0.047
max	0.891	0.674	0.891	0.694	0.891	0.529
n (Samp)	352	26	352	30	352	16
n (Pat)	133	26	133	30	133	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.53	0.058	419	27	0.556
24 hours	0.51	0.050	419	36	0.881
48 hours	0.48	0.069	419	18	0.823

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.66	0.134	518	5	0.219
24 hours	0.52	0.098	518	9	0.832
48 hours	0.56	0.113	518	7	0.567

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.56	0.060	352	26	0.360
24 hours	0.53	0.056	352	30	0.585
48 hours	0.53	0.075	352	16	0.730

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.135	70%	37%	1			
	0.0889	81%	22%	2	1.0	0.5	2.0
	0.0804	93%	18%	3	1.2	0.6	2.2

Fig. 2 - 5

	0.339	37%	70%	4	1.3	0.7	2.5
	0.421	22%	80%				
	0.509	11%	90%				
24 hours	0.134	72%	37%	1			
	0.0907	81%	23%	2	1.3	0.8	2.0
	0.0525	92%	10%	3	1.1	0.7	1.9
	0.339	31%	70%	4	1.1	0.7	1.9
	0.421	14%	80%				
	0.509	11%	90%				
48 hours	0.12	72%	32%	1			
	0.0665	83%	13%	2	1.8	0.8	4.1
	0.0454	94%	8%	3	0.5	0.1	2.2
	0.339	28%	70%	4	1.3	0.5	3.2
	0.421	0%	80%				
	0.509	0%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.262	80%	58%	1			
	0.262	80%	58%	2	0.0	0.0	na
	0.088	100%	21%	3	1.0	0.0	51.5
	0.34	60%	70%	4	3.0	0.2	42.5
	0.414	40%	80%				
	0.504	20%	90%				
24 hours	0.0625	78%	12%	1			
	0.0606	89%	12%	2	0.3	0.0	4.6
	0.0329	100%	5%	3	0.7	0.1	3.5
	0.34	33%	70%	4	1.0	0.3	3.8
	0.414	33%	80%				
	0.504	33%	90%				
48 hours	0.262	71%	58%	1			
	0.0745	86%	16%	2	0.0	0.0	na
	0.0175	100%	1%	3	0.5	0.0	9.7
	0.34	57%	70%	4	2.0	0.4	9.0
	0.414	43%	80%				
	0.504	0%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.135	73%	36%	1			
	0.119	81%	31%	2	1.4	0.7	2.9
	0.0804	92%	16%	3	1.0	0.4	2.3
	0.34	38%	70%	4	1.9	1.0	3.6
	0.419	23%	80%				
	0.494	15%	90%				
24 hours	0.145	70%	37%	1			
	0.131	80%	35%	2	1.9	1.0	3.6
	0.057	90%	9%	3	1.7	0.8	3.3
	0.34	33%	70%	4	1.6	0.8	3.2
	0.419	13%	80%				
	0.494	10%	90%				
48 hours	0.166	75%	40%	1			
	0.12	81%	31%	2	0.7	0.1	3.5
	0.0538	94%	9%	3	2.8	1.1	7.3
	0.34	25%	70%	4	1.0	0.3	3.9
	0.419	6%	80%				
	0.494	6%	90%				

Fig. 2 - 6

CXCL16 (C-X-C Motif chemokine 16)

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.121	0.204	0.121	0.208	0.121	0.106
average	0.832	0.743	0.832	1.294	0.832	0.668
stdev	1.760	1.756	1.760	2.438	1.760	1.458
p (t-test)		0.813		0.155		0.699
min	0.000	0.001	0.000	0.005	0.000	0.004
max	10.210	8.420	10.210	9.406	10.210	5.234
n (Samp)	302	24	302	36	302	18
n (Pat)	163	24	163	36	163	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.126	1.154	0.126	0.263	0.126	0.404
average	0.880	3.993	0.880	3.639	0.880	1.116
stdev	1.904	5.685	1.904	4.309	1.904	1.434
p (t-test)		0.006		0.000		0.745
min	0.000	0.286	0.000	0.005	0.000	0.021
max	10.210	10.538	10.210	9.861	10.210	3.921
n (Samp)	382	3	382	9	382	7
n (Pat)	196	3	196	9	196	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.150	0.204	0.150	0.237	0.150	0.128
average	0.827	0.767	0.827	0.843	0.827	1.076
stdev	1.613	1.762	1.613	1.642	1.613	2.564
p (t-test)		0.863		0.960		0.565
min	0.000	0.001	0.000	0.011	0.000	0.004
max	9.506	8.420	9.506	6.964	9.506	9.406
n (Samp)	256	24	256	30	256	16
n (Pat)	132	24	132	30	132	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.55	0.063	302	24	0.421
24 hours	0.57	0.052	302	36	0.197
48 hours	0.49	0.070	302	18	0.931

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.82	0.148	382	3	0.029
24 hours	0.67	0.100	382	9	0.083
48 hours	0.61	0.114	382	7	0.319

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.53	0.063	256	24	0.621
24 hours	0.54	0.057	256	30	0.503
48 hours	0.48	0.074	256	16	0.786

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.10021	71%	46%	1			
	0.05247	83%	33%	2	1.7	0.6	5.1
	0.01072	92%	7%	3	4.1	1.7	9.9

Fig. 2 - 7

	0.39881	33%	70%	4	1.7	0.6	5.1
	1.02412	13%	80%				
	2.59834	8%	90%				
24 hours	0.0838	72%	42%	1			
	0.06755	81%	38%	2	3.3	1.6	6.7
	0.01455	92%	11%	3	2.4	1.1	5.1
	0.39881	33%	70%	4	3.0	1.4	6.1
	1.02412	22%	80%				
	2.59834	17%	90%				
48 hours	0.05895	72%	35%	1			
	0.05247	83%	33%	2	1.7	0.6	5.1
	0.01331	94%	10%	3	2.5	0.9	6.6
	0.39881	22%	70%	4	1.0	0.3	3.9
	1.02412	11%	80%				
	2.59834	11%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.28258	100%	65%	1			
	0.28258	100%	65%	2	na	na	na
	0.28258	100%	65%	3	na	na	na
	0.39773	67%	70%	4	na	na	na
	0.98904	67%	80%				
	2.70424	33%	90%				
24 hours	0.14588	78%	53%	1			
	0.0907	89%	42%	2	1.0	0.0	51.9
	0.00415	100%	3%	3	3.0	0.2	43.1
	0.39773	44%	70%	4	4.1	0.3	49.3
	0.98904	44%	80%				
	2.70424	44%	90%				
48 hours	0.11619	71%	49%	1			
	0.05254	86%	30%	2	2.0	0.1	39.8
	0.01984	100%	15%	3	1.0	0.0	52.5
	0.39773	57%	70%	4	3.0	0.2	43.1
	0.98904	43%	80%				
	2.70424	14%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.10021	71%	43%	1			
	0.05247	83%	29%	2	1.8	0.8	4.2
	0.01072	92%	5%	3	2.1	1.0	4.7
	0.48913	29%	70%	4	1.3	0.5	3.3
	1.1193	13%	80%				
	2.70424	8%	90%				
24 hours	0.0838	70%	39%	1			
	0.06755	80%	35%	2	2.7	1.3	5.7
	0.03684	90%	23%	3	2.4	1.1	5.2
	0.48913	33%	70%	4	1.8	0.8	4.1
	1.1193	20%	80%				
	2.70424	10%	90%				
48 hours	0.06051	75%	32%	1			
	0.05406	81%	30%	2	1.7	0.6	5.2
	0.01331	94%	7%	3	1.7	0.6	5.2
	0.48913	19%	70%	4	1.0	0.3	3.9
	1.1193	13%	80%				
	2.70424	13%	90%				

Fig. 2 - 8

EN-RAGE

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.240	2.595	1.240	3.782	1.240	2.366
average	12.233	16.695	12.233	20.210	12.233	242.259
stdev	63.964	35.707	63.964	45.115	63.964	1007.825
p (t-test)		0.742		0.477		0.000
min	0.002	0.196	0.002	0.065	0.002	0.225
max	675.017	152.128	675.017	227.285	675.017	4280.487
n (Samp)	246	23	246	35	246	18
n (Pat)	159	23	159	35	159	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.474	0.944	1.474	1.507	1.474	1.962
average	12.758	0.944	12.758	2.250	12.758	615.175
stdev	58.556	0.937	58.556	2.282	58.556	1616.263
p (t-test)		0.776		0.613		0.000
min	0.002	0.281	0.002	0.065	0.002	0.279
max	675.017	1.606	675.017	5.799	675.017	4280.487
n (Samp)	318	2	318	8	318	7
n (Pat)	188	2	188	8	188	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.362	2.595	1.362	3.186	1.362	2.177
average	32.417	16.701	32.417	23.090	32.417	4.864
stdev	299.111	35.704	299.111	48.221	299.111	6.065
p (t-test)		0.802		0.865		0.713
min	0.002	0.166	0.002	0.116	0.002	0.225
max	4280.487	152.128	4280.487	227.285	4280.487	21.060
n (Samp)	212	23	212	30	212	16
n (Pat)	132	23	132	30	132	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.64	0.065	246	23	0.027
24 hours	0.67	0.053	246	35	0.002
48 hours	0.58	0.073	246	18	0.275

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.32	0.163	318	2	0.260
24 hours	0.42	0.097	318	8	0.425
48 hours	0.57	0.114	318	7	0.557

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.62	0.065	212	23	0.057
24 hours	0.68	0.057	212	30	0.002
48 hours	0.55	0.077	212	16	0.518

Fig. 2 - 9

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.88947	74%	41%	1			
	0.77827	83%	36%	2	1.4	0.4	4.5
	0.33592	91%	15%	3	2.5	0.9	6.7
	2.55991	52%	70%	4	3.3	1.3	8.3
	4.79853	39%	80%				
	11.8327	26%	90%				
24 hours	1.74804	71%	61%	1			
	0.92777	80%	43%	2	1.3	0.5	3.3
	0.29244	91%	13%	3	2.4	1.1	5.3
	2.55991	51%	70%	4	5.2	2.7	10.2
	4.79853	46%	80%				
	11.8327	34%	90%				
48 hours	0.59513	72%	29%	1			
	0.3635	83%	17%	2	0.4	0.1	1.6
	0.25054	94%	11%	3	0.8	0.3	2.0
	2.55991	44%	70%	4	1.4	0.7	3.0
	4.79853	39%	80%				
	11.8327	17%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.26201	100%	11%	1			
	0.26201	100%	11%	2	na	na	na
	0.26201	100%	11%	3	na	na	na
	3.30333	0%	70%	4	na	na	na
	6.7486	0%	80%				
	16.0678	0%	90%				
24 hours	0.29244	75%	12%	1			
	0.16594	88%	5%	2	1.0	0.1	7.6
	0.00184	100%	0%	3	0.5	0.0	9.8
	3.30333	38%	70%	4	1.5	0.3	8.3
	6.7486	0%	80%				
	16.0678	0%	90%				
48 hours	1.52936	71%	52%	1			
	0.3635	86%	16%	2	0.0	0.0	na
	0.26201	100%	11%	3	1.5	0.3	8.2
	3.30333	43%	70%	4	1.0	0.1	7.4
	6.7486	29%	80%				
	16.0678	29%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.87873	74%	38%	1			
	0.77827	83%	32%	2	1.3	0.4	4.5
	0.33592	91%	13%	3	2.5	0.9	6.8
	2.70443	48%	70%	4	3.3	1.3	8.5
	5.03011	39%	80%				
	12.9468	26%	90%				
24 hours	1.86574	70%	59%	1			
	0.97462	80%	40%	2	0.7	0.2	2.4
	0.63129	90%	26%	3	2.5	1.1	5.4
	2.70443	50%	70%	4	4.2	2.1	8.5
	5.03011	47%	80%				
	12.9468	37%	90%				
48 hours	0.59513	75%	26%	1			
	0.37339	81%	16%	2	0.5	0.1	2.3
	0.25054	94%	9%	3	1.0	0.3	2.9
	2.70443	38%	70%	4	1.6	0.6	3.8
	5.03011	38%	80%				
	12.9468	13%	90%				

Fig. 2 - 10

Eotaxin

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	32.600	39.900	32.600	49.950	32.600	42.400
average	44.675	49.776	44.675	79.292	44.675	88.128
stdev	36.453	45.492	36.453	95.015	36.453	112.509
p (t-test)		0.488		0.000		0.000
min	0.164	6.660	0.164	12.700	0.164	12.400
max	270.000	232.000	270.000	535.000	270.000	420.000
n (Samp)	419	27	419	36	419	18
n (Pat)	164	27	164	36	164	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	34.400	45.300	34.400	46.100	34.400	103.000
average	47.582	95.920	47.582	81.189	47.582	119.957
stdev	45.581	85.473	45.581	72.494	45.581	112.138
p (t-test)		0.020		0.031		0.000
min	0.164	33.300	0.164	17.900	0.164	19.000
max	535.000	232.000	535.000	221.000	535.000	333.000
n (Samp)	518	5	518	9	518	7
n (Pat)	199	5	199	9	199	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	33.500	36.150	33.500	49.950	33.500	42.400
average	46.069	41.960	46.069	75.330	46.069	84.800
stdev	38.727	27.989	38.727	97.826	38.727	105.575
p (t-test)		0.596		0.001		0.001
min	0.164	6.660	0.164	12.700	0.164	12.400
max	270.000	114.000	270.000	535.000	270.000	420.000
n (Samp)	352	26	352	30	352	16
n (Pat)	133	26	133	30	133	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.53	0.058	419	27	0.616
24 hours	0.62	0.052	419	36	0.022
48 hours	0.59	0.072	419	18	0.191

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.73	0.129	518	5	0.069
24 hours	0.65	0.100	518	9	0.137
48 hours	0.72	0.110	518	7	0.048

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.49	0.058	352	26	0.851
24 hours	0.60	0.057	352	30	0.086
48 hours	0.60	0.076	352	16	0.198

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	27.5	70%	37%	1			
	23.1	81%	23%	2	0.4	0.2	1.1
	15.4	93%	7%	3	1.6	1.0	2.7
	48.4	26%	70%	4	0.8	0.4	1.6

Fig. 2 - 11

	62.4	22%	80%				
	81.8	22%	90%				
24 hours	28.3	72%	38%	1			
	21.5	81%	19%	2	0.3	0.1	0.8
	17.6	92%	10%	3	0.8	0.4	1.3
	48.4	50%	70%	4	2.0	1.4	2.9
	62.4	42%	80%				
	81.8	31%	90%				
48 hours	28.2	72%	38%	1			
	20.9	83%	17%	2	1.0	0.4	2.8
	18.7	94%	15%	3	0.5	0.1	2.2
	48.4	44%	70%	4	2.1	1.0	4.5
	62.4	44%	80%				
	81.8	28%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	39.9	80%	59%	1			
	39.9	80%	59%	2	na	na	na
	33.1	100%	48%	3	na	na	na
	51.3	40%	70%	4	na	na	na
	64.2	40%	80%				
	85.3	40%	90%				
24 hours	36.4	78%	53%	1			
	27.1	89%	31%	2	1.0	0.0	51.5
	17.6	100%	10%	3	3.0	0.2	42.5
	51.3	44%	70%	4	4.1	0.3	48.5
	64.2	33%	80%				
	85.3	33%	90%				
48 hours	42.7	71%	62%	1			
	28.7	86%	37%	2	1.0	0.0	51.9
	18.7	100%	15%	3	1.0	0.0	51.9
	51.3	57%	70%	4	4.1	0.3	48.5
	64.2	57%	80%				
	85.3	57%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	26	73%	28%	1			
	23.1	81%	22%	2	1.9	1.0	3.7
	15.4	92%	7%	3	1.0	0.4	2.3
	50.2	23%	70%	4	1.4	0.7	3.0
	63	19%	80%				
	84.7	15%	90%				
24 hours	28.3	70%	36%	1			
	21.5	80%	19%	2	0.4	0.1	0.9
	17.6	90%	10%	3	0.6	0.3	1.2
	50.2	50%	70%	4	1.9	1.2	2.9
	63	40%	80%				
	84.7	23%	90%				
48 hours	28.2	75%	36%	1			
	25.1	81%	27%	2	1.3	0.4	4.4
	19	94%	15%	3	0.7	0.1	3.5
	50.2	44%	70%	4	2.4	0.9	6.5
	63	44%	80%				
	84.7	25%	90%				

Fig. 2 - 12

E-selectin

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.166	0.198	0.166	0.233	0.166	0.221
average	0.320	0.696	0.320	0.488	0.320	0.366
stdev	0.451	1.111	0.451	0.968	0.451	0.530
p (t-test)		0.001		0.087		0.677
min	0.000	0.000	0.000	0.000	0.000	0.000
max	2.918	4.435	2.918	5.381	2.918	2.257
n (Samp)	247	23	247	35	247	18
n (Pat)	159	23	159	35	159	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.177	0.087	0.177	0.218	0.177	0.775
average	0.369	0.087	0.369	0.299	0.369	0.743
stdev	0.621	0.123	0.621	0.304	0.621	0.623
p (t-test)		0.522		0.753		0.116
min	0.000	0.000	0.000	0.000	0.000	0.019
max	5.381	0.174	5.381	0.735	5.381	1.891
n (Samp)	319	2	319	8	319	7
n (Pat)	188	2	188	8	188	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.161	0.198	0.161	0.225	0.161	0.221
average	0.331	0.690	0.331	0.514	0.331	0.379
stdev	0.495	1.115	0.495	1.038	0.495	0.555
p (t-test)		0.005		0.111		0.708
min	0.000	0.000	0.000	0.000	0.000	0.000
max	3.078	4.435	3.078	5.381	3.078	2.257
n (Samp)	213	23	213	30	213	16
n (Pat)	132	23	132	30	132	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.59	0.065	247	23	0.162
24 hours	0.54	0.053	247	35	0.495
48 hours	0.51	0.071	247	18	0.898

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.26	0.142	319	2	0.090
24 hours	0.48	0.102	319	8	0.880
48 hours	0.73	0.110	319	7	0.038

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.57	0.065	213	23	0.283
24 hours	0.54	0.057	213	30	0.440
48 hours	0.51	0.075	213	16	0.870

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.12065	74%	39%	1			
	0.07846	83%	29%	2	1.5	0.6	3.7
	0.06035	91%	24%	3	1.3	0.5	3.3

Fig. 2 - 13

	0.32093	39%	70%	4	2.1	0.9	4.7
	0.45478	22%	80%				
	0.74303	22%	91%				
24 hours	0.11194	71%	37%	1			
	0.04424	80%	18%	2	0.3	0.1	0.8
	1.1E-05	91%	6%	3	1.5	1.0	2.4
	0.32093	29%	70%	4	1.1	0.7	1.8
	0.45478	23%	80%				
	0.74303	11%	91%				
48 hours	0.05672	72%	22%	1			
	0.01715	83%	10%	2	0.3	0.1	1.2
	0	100%	0%	3	0.6	0.3	1.6
	0.32093	39%	70%	4	1.0	0.5	2.0
	0.45478	28%	80%				
	0.74303	11%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	na	na	na
	0	100%	0%	3	na	na	na
	0.33048	0%	70%	4	na	na	na
	0.45478	0%	80%				
	0.74303	0%	90%				
24 hours	0.03167	75%	14%	1			
	0	100%	0%	2	0.3	0.0	4.7
	0	100%	0%	3	0.3	0.0	4.7
	0.33048	38%	70%	4	1.0	0.3	3.9
	0.45478	38%	80%				
	0.74303	0%	90%				
48 hours	0.45478	71%	80%	1			
	0.16975	86%	48%	2	1.0	0.0	52.3
	0.01715	100%	11%	3	0.0	0.0	na
	0.33048	71%	70%	4	5.2	0.5	57.4
	0.45478	71%	80%				
	0.74303	57%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.10943	74%	35%	1			
	0.06531	83%	24%	2	0.8	0.3	2.0
	0.02884	91%	11%	3	1.2	0.6	2.7
	0.32093	39%	70%	4	1.7	0.8	3.5
	0.46344	22%	80%				
	0.73598	22%	90%				
24 hours	0.17758	70%	53%	1			
	0.05937	80%	22%	2	0.1	0.0	1.1
	0.00714	90%	7%	3	1.8	1.1	2.8
	0.32093	27%	70%	4	1.0	0.6	1.7
	0.46344	20%	80%				
	0.73598	13%	90%				
48 hours	0.05672	75%	21%	1			
	0.01882	81%	9%	2	0.4	0.1	1.6
	0	100%	0%	3	0.8	0.3	2.0
	0.32093	38%	70%	4	1.0	0.4	2.3
	0.46344	19%	80%				
	0.73598	6%	90%				

Fig. 2 - 14

Granulocyte colony-stimulating factor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	23.300	31.800	23.300	34.300	23.300	37.050
average	638.652	42.797	638.652	209.348	638.652	52.017
stdev	6663.552	38.127	6663.552	645.465	6663.552	48.351
p (t-test)		0.643		0.700		0.709
min	0.020	1.690	0.020	4.280	0.020	1.750
max	103844.000	152.000	103844.000	3010.000	103844.000	165.000
n (Samp)	419	27	419	36	419	18
n (Pat)	164	27	164	36	164	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	25.600	46.100	25.600	55.200	25.600	61.300
average	527.583	54.220	527.583	342.013	527.583	480.336
stdev	5996.271	35.220	5996.271	849.425	5996.271	1116.476
p (t-test)		0.860		0.926		0.983
min	0.020	12.400	0.020	4.280	0.020	1.750
max	103844.000	109.000	103844.000	2600.000	103844.000	3010.000
n (Samp)	518	5	518	9	518	7
n (Pat)	199	5	199	9	199	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	24.250	32.200	24.250	36.250	24.250	37.600
average	752.529	46.281	752.529	160.577	752.529	208.498
stdev	7266.128	39.565	7266.128	545.216	7266.128	639.122
p (t-test)		0.621		0.656		0.765
min	0.020	1.690	0.020	4.460	0.020	5.740
max	103844.000	152.000	103844.000	3010.000	103844.000	2600.000
n (Samp)	352	26	352	30	352	16
n (Pat)	133	26	133	30	133	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.55	0.059	419	27	0.366
24 hours	0.58	0.052	419	36	0.112
48 hours	0.59	0.072	419	18	0.206

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.68	0.133	518	5	0.186
24 hours	0.59	0.101	518	9	0.346
48 hours	0.69	0.112	518	7	0.096

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.56	0.060	352	26	0.282
24 hours	0.59	0.057	352	30	0.098
48 hours	0.61	0.076	352	16	0.136

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	19.4	70%	42%	1			
	11.3	81%	23%	2	0.3	0.1	1.0
	7.28	93%	14%	3	1.6	1.0	2.7
	43.7	41%	70%	4	1.0	0.5	1.8

Fig. 2 - 15

	58.9	22%	80%				
	98.2	11%	90%				
24 hours	21.4	72%	46%	1			
	13.4	81%	29%	2	1.5	0.9	2.7
	7.82	92%	15%	3	1.3	0.7	2.5
	43.7	36%	70%	4	2.3	1.4	3.8
	58.9	28%	80%				
	98.2	14%	90%				
48 hours	25.5	72%	53%	1			
	13.4	83%	29%	2	0.7	0.1	3.5
	5.5	94%	9%	3	2.4	0.9	6.4
	43.7	44%	70%	4	2.0	0.7	5.6
	58.9	28%	80%				
	98.2	17%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	43.5	80%	69%	1			
	43.5	80%	69%	2	na	na	na
	12.3	100%	26%	3	na	na	na
	44.6	60%	70%	4	na	na	na
	59	40%	80%				
	99.9	20%	90%				
24 hours	11.5	78%	23%	1			
	7.95	89%	15%	2	0.3	0.0	4.6
	4.23	100%	6%	3	0.0	0.0	na
	44.6	56%	70%	4	1.7	0.6	4.9
	59	44%	80%				
	99.9	22%	90%				
48 hours	43.1	71%	69%	1			
	30.2	86%	56%	2	0.0	0.0	na
	1.69	100%	2%	3	2.0	0.1	39.3
	44.6	57%	70%	4	4.1	0.3	48.5
	59	57%	80%				
	99.9	29%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	19.2	73%	39%	1			
	11.3	81%	21%	2	0.1	0.0	1.3
	7.28	92%	14%	3	1.5	0.9	2.5
	43.4	46%	70%	4	1.1	0.6	2.0
	59.2	27%	80%				
	99.9	12%	90%				
24 hours	22.7	70%	46%	1			
	17.5	80%	36%	2	1.8	0.8	4.0
	11.8	90%	22%	3	2.4	1.1	5.1
	43.4	37%	70%	4	2.6	1.3	5.5
	59.2	27%	80%				
	99.9	13%	90%				
48 hours	25.5	75%	51%	1			
	17.9	81%	36%	2	1.0	0.1	7.4
	8.18	94%	15%	3	3.1	0.8	12.1
	43.4	50%	70%	4	3.1	0.8	12.1
	59.2	31%	80%				
	99.9	19%	90%				

Fig. 2 - 16

Heparin-binding growth factor 2

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	169.000	209.000	169.000	222.000	169.000	193.000
average	240.036	257.266	240.036	422.378	240.036	290.411
stdev	258.852	268.013	258.852	627.456	258.852	227.227
p (t-test)		0.738		0.001		0.417
min	0.392	0.392	0.392	42.100	0.392	39.200
max	2010.000	1470.000	2010.000	3610.000	2010.000	903.000
n (Samp)	419	27	419	36	419	18
n (Pat)	164	27	164	36	164	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	170.000	269.000	170.000	225.000	170.000	314.000
average	248.956	294.860	248.956	437.800	248.956	532.743
stdev	298.161	191.046	298.161	364.885	298.161	461.717
p (t-test)		0.731		0.061		0.013
min	0.392	81.300	0.392	84.700	0.392	39.200
max	3610.000	522.000	3610.000	1060.000	3610.000	1140.000
n (Samp)	518	5	518	9	518	7
n (Pat)	199	5	199	9	199	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	167.000	203.500	167.000	211.500	167.000	269.000
average	237.956	254.304	237.956	424.080	237.956	307.513
stdev	260.435	268.210	260.435	675.291	260.435	195.685
p (t-test)		0.758		0.002		0.292
min	0.392	0.392	0.392	42.100	0.392	72.900
max	2010.000	1470.000	2010.000	3610.000	2010.000	702.000
n (Samp)	352	26	352	30	352	16
n (Pat)	133	26	133	30	133	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.57	0.059	419	27	0.223
24 hours	0.62	0.052	419	36	0.016
48 hours	0.59	0.072	419	18	0.191

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.63	0.135	518	5	0.332
24 hours	0.64	0.101	518	9	0.165
48 hours	0.68	0.113	518	7	0.110

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.58	0.060	352	26	0.189
24 hours	0.63	0.056	352	30	0.022
48 hours	0.65	0.076	352	16	0.045

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	154	70%	46%	1			
	133	81%	38%	2	1.2	0.6	2.6
	55.2	93%	9%	3	1.6	0.8	3.2
	235	44%	70%	4	1.6	0.8	3.2

Fig. 2 - 17

	300	19%	80%				
	488	4%	90%				
24 hours	145	72%	42%	1			
	124	81%	34%	2	1.6	0.8	3.2
	94.9	92%	22%	3	1.4	0.7	2.9
	235	44%	70%	4	3.5	2.0	6.1
	300	39%	80%				
	488	22%	90%				
48 hours	154	72%	46%	1			
	118	83%	31%	2	1.0	0.3	3.8
	70.4	94%	14%	3	1.3	0.4	4.4
	235	44%	70%	4	2.8	1.1	7.1
	300	33%	80%				
	488	17%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	145	80%	42%	1			
	145	80%	42%	2	1.0	0.0	51.5
	81	100%	18%	3	1.0	0.0	51.5
	246	60%	71%	4	2.0	0.1	39.0
	309	40%	80%				
	492	20%	90%				
24 hours	102	78%	25%	1			
	96.7	89%	22%	2	0.5	0.0	9.6
	82.4	100%	18%	3	1.0	0.1	7.3
	246	44%	71%	4	2.0	0.4	9.0
	309	44%	80%				
	492	44%	90%				
48 hours	177	71%	53%	1			
	154	86%	46%	2	1.0	0.0	51.9
	37	100%	5%	3	1.0	0.0	51.9
	246	57%	71%	4	4.1	0.3	48.5
	309	57%	80%				
	492	43%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	163	73%	47%	1			
	148	81%	44%	2	1.5	0.6	3.6
	55.2	92%	9%	3	2.1	1.0	4.6
	228	42%	70%	4	2.1	0.9	4.5
	285	19%	80%				
	475	4%	90%				
24 hours	148	70%	44%	1			
	133	83%	38%	2	2.8	1.1	7.2
	118	90%	30%	3	2.1	0.7	5.8
	228	47%	70%	4	4.8	2.1	11.2
	285	40%	80%				
	475	17%	90%				
48 hours	178	75%	55%	1			
	118	88%	30%	2	1.0	0.1	7.4
	93.1	94%	20%	3	1.5	0.3	8.1
	228	56%	70%	4	4.9	1.4	16.9
	285	38%	80%				
	475	19%	90%				

Fig. 2 - 18

Hepatocyte growth factor receptor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	569.522	5.678	569.522	387.168	569.522	5.678
average	941.836	226.352	941.836	826.274	941.836	423.628
stdev	1079.422	447.741	1079.422	1142.611	1079.422	723.911
p (t-test)		0.050		0.676		0.409
min	5.678	5.678	5.678	5.678	5.678	5.678
max	5086.124	1268.489	5086.124	4181.818	5086.124	1259.528
n (Samp)	168	9	168	17	168	3
n (Pat)	90	9	90	17	90	3

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	517.924	5.678	517.924	491.150	517.924	5.678
average	882.334	7.241	882.334	825.460	882.334	5.678
stdev	1054.530	na	1054.530	959.936	1054.530	0.000
p (t-test)		na		0.926		0.242
min	5.678	7.241	5.678	77.381	5.678	5.678
max	5086.124	7.241	5086.124	1907.850	5086.124	5.678
n (Samp)	200	1	200	3	200	2
n (Pat)	110	1	110	3	110	2

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	598.682	5.678	598.682	343.223	598.682	1259.528
average	969.054	226.352	969.054	754.194	969.054	1057.685
stdev	1091.838	447.741	1091.838	1147.419	1091.838	967.016
p (t-test)		0.045		0.460		0.889
min	5.678	5.678	5.678	5.678	5.678	5.678
max	5086.124	1268.489	5086.124	4181.818	5086.124	1907.850
n (Samp)	134	9	134	16	134	3
n (Pat)	71	9	71	16	71	3

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.19	0.055	168	9	0.000
24 hours	0.43	0.070	168	17	0.330
48 hours	0.27	0.122	168	3	0.064

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.13	0.116	200	1	0.001
24 hours	0.53	0.171	200	3	0.884
48 hours	0.07	0.046	200	2	0.000

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.18	0.055	134	9	0.000
24 hours	0.38	0.069	134	16	0.094
48 hours	0.55	0.173	134	3	0.785

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	na	na	na
	0	100%	0%	3	na	na	na
	1187.71	11%	70%	4	na	na	na

Fig. 2 - 19

	1499.09	0%	80%				
	2406.53	0%	90%				
24 hours	110.119	71%	22%	1			
	57.0557	82%	14%	2	0.8	0.2	2.6
	0	100%	0%	3	0.8	0.2	2.6
	1187.71	24%	70%	4	1.9	0.8	4.6
	1499.09	24%	80%				
	2406.53	6%	90%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	na	na	na
	0	100%	0%	3	na	na	na
	1187.71	33%	70%	4	na	na	na
	1499.09	0%	80%				
	2406.53	0%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	5.67831	100%	13%	1			
	5.67831	100%	13%	2	na	na	na
	5.67831	100%	13%	3	na	na	na
	1072.35	0%	70%	4	na	na	na
	1387.64	0%	80%				
	2054.16	0%	90%				
24 hours	74.4048	100%	21%	1			
	74.4048	100%	21%	2	1.0	0.0	53.5
	74.4048	100%	21%	3	0.0	0.0	na
	1072.35	33%	70%	4	1.0	0.0	53.5
	1387.64	33%	80%				
	2054.16	0%	90%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	na	na	na
	0	100%	0%	3	na	na	na
	1072.35	0%	70%	4	na	na	na
	1387.64	0%	80%				
	2054.16	0%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	na	na	na
	0	100%	0%	3	na	na	na
	1196.63	11%	70%	4	na	na	na
	1520.87	0%	81%				
	2196.01	0%	90%				
24 hours	37.4088	75%	13%	1			
	0	100%	0%	2	0.7	0.1	3.8
	0	100%	0%	3	1.4	0.4	4.8
	1196.63	19%	70%	4	2.7	0.9	7.8
	1520.87	19%	81%				
	2196.01	13%	90%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	0.0	0.0	na
	0	100%	0%	3	1.0	0.0	56.8
	1196.63	67%	70%	4	1.0	0.0	55.0
	1520.87	33%	81%				
	2196.01	0%	90%				

Fig. 2 - 20

Interleukin-1 receptor antagonist

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	3380.000	6570.000	3380.000	10535.000	3380.000	5395.000
average	18473.174	13573.633	18473.174	29502.139	18473.174	19108.222
stdev	64699.888	18565.823	64699.888	75698.695	64699.888	29314.553
p (t-test)		0.695		0.334		0.967
min	77.800	48.100	77.800	174.000	77.800	170.000
max	598080.000	90800.000	598080.000	439392.000	598080.000	110000.000
n (Samp)	419	27	419	36	419	18
n (Pat)	164	27	164	36	164	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	3975.000	18900.000	3975.000	17500.000	3975.000	9930.000
average	17981.210	17744.000	17981.210	76661.444	17981.210	39967.143
stdev	59014.585	15169.966	59014.585	148431.654	59014.585	51636.218
p (t-test)		0.993		0.005		0.327
min	48.100	1560.000	48.100	801.000	48.100	1950.000
max	598080.000	34300.000	598080.000	439392.000	598080.000	117000.000
n (Samp)	518	5	518	9	518	7
n (Pat)	199	5	199	9	199	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	3710.000	6570.000	3710.000	11200.000	3710.000	5395.000
average	17979.068	12852.235	17979.068	20017.467	17979.068	39774.375
stdev	62581.890	18455.320	62581.890	30373.747	62581.890	108185.034
p (t-test)		0.678		0.860		0.191
min	77.800	48.100	77.800	174.000	77.800	170.000
max	598080.000	90800.000	598080.000	127000.000	598080.000	439392.000
n (Samp)	352	26	352	30	352	16
n (Pat)	133	26	133	30	133	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.63	0.059	419	27	0.024
24 hours	0.65	0.051	419	36	0.003
48 hours	0.58	0.072	419	18	0.263

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.67	0.134	518	5	0.198
24 hours	0.62	0.101	518	9	0.251
48 hours	0.67	0.113	518	7	0.123

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.63	0.060	352	26	0.034
24 hours	0.67	0.056	352	30	0.002
48 hours	0.57	0.076	352	16	0.378

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	4240	70%	56%	1			
	3130	81%	48%	2	2.0	0.4	9.1
	1540	93%	29%	3	6.6	2.0	21.5
	7730	41%	70%	4	4.8	1.4	16.4

Fig. 2 - 21

	13400	33%	80%				
	28700	15%	90%				
24 hours	3280	72%	49%	1			
	2130	81%	39%	2	2.1	1.0	4.4
	1360	92%	26%	3	1.5	0.6	3.6
	7730	53%	70%	4	5.1	2.7	9.7
	13400	42%	80%				
	28700	14%	90%				
48 hours	2440	72%	42%	1			
	1920	83%	37%	2	1.7	0.6	5.0
	567	94%	8%	3	1.3	0.4	4.4
	7730	39%	70%	4	2.0	0.7	5.6
	13400	28%	80%				
	28700	28%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	3130	80%	44%	1			
	3130	80%	44%	2	na	na	na
	1540	100%	27%	3	na	na	na
	8790	60%	70%	4	na	na	na
	15000	60%	80%				
	31600	20%	90%				
24 hours	1630	78%	29%	1			
	1360	89%	24%	2	1.0	0.1	7.3
	794	100%	14%	3	0.0	0.0	na
	8790	56%	70%	4	2.5	0.6	10.3
	15000	56%	80%				
	31600	22%	90%				
48 hours	2680	71%	41%	1			
	2450	86%	39%	2	na	na	na
	1920	100%	34%	3	na	na	na
	8790	57%	70%	4	na	na	na
	15000	43%	80%				
	31600	43%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	4240	73%	54%	1			
	3650	81%	49%	2	2.6	0.6	10.5
	1650	92%	30%	3	6.1	1.8	20.3
	7760	42%	70%	4	4.2	1.2	15.0
	14000	27%	80%				
	27400	12%	90%				
24 hours	5340	70%	60%	1			
	3280	80%	47%	2	3.1	0.8	12.0
	2090	90%	37%	3	4.3	1.2	15.2
	7760	57%	70%	4	7.9	2.5	25.5
	14000	37%	80%				
	27400	17%	90%				
48 hours	2440	75%	40%	1			
	2170	81%	37%	2	1.3	0.4	4.4
	557	94%	7%	3	1.3	0.4	4.4
	7760	38%	70%	4	1.7	0.6	5.1
	14000	25%	80%				
	27400	25%	90%				

Fig. 2 - 22

Interleukin-1 beta

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.991	1.510	0.991	3.160	0.991	1.895
average	4.746	5.247	4.746	14.456	4.746	8.765
stdev	33.607	11.335	33.607	37.808	33.607	16.054
p (t-test)		0.939		0.100		0.614
min	0.006	0.006	0.006	0.006	0.006	0.006
max	670.000	54.300	670.000	224.000	670.000	62.000
n (Samp)	419	27	419	36	419	18
n (Pat)	164	27	164	36	164	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.125	1.510	1.125	3.810	1.125	5.820
average	5.521	3.384	5.521	6.703	5.521	12.682
stdev	32.018	4.191	32.018	10.166	32.018	22.053
p (t-test)		0.882		0.912		0.556
min	0.006	0.218	0.006	0.006	0.006	0.006
max	670.000	10.600	670.000	32.800	670.000	62.000
n (Samp)	518	5	518	9	518	7
n (Pat)	199	5	199	9	199	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.060	1.605	1.060	2.855	1.060	1.900
average	5.135	5.410	5.135	15.752	5.135	7.626
stdev	36.463	11.522	36.463	41.083	36.463	11.585
p (t-test)		0.970		0.130		0.785
min	0.006	0.006	0.006	0.006	0.006	0.006
max	670.000	54.300	670.000	224.000	670.000	38.200
n (Samp)	352	26	352	30	352	16
n (Pat)	133	26	133	30	133	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.58	0.059	419	27	0.155
24 hours	0.70	0.050	419	36	0.000
48 hours	0.61	0.072	419	18	0.129

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.58	0.134	518	5	0.552
24 hours	0.65	0.101	518	9	0.145
48 hours	0.68	0.113	518	7	0.112

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.58	0.060	352	26	0.190
24 hours	0.70	0.055	352	30	0.000
48 hours	0.63	0.076	352	16	0.098

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1.04	70%	52%	1			
	0.592	81%	34%	2	1.0	0.4	2.7
	0.204	93%	11%	3	2.9	1.5	6.0
	2	33%	70%	4	2.1	1.0	4.5

Fig. 2 - 23

	3.11	22%	81%				
	6.59	15%	90%				
24 hours	1.2	72%	57%	1			
	0.783	81%	43%	2	2.0	0.7	5.6
	0.501	92%	29%	3	2.4	0.9	6.3
	2	64%	70%	4	7.8	3.5	17.2
	3.11	50%	81%				
	6.59	31%	90%				
48 hours	0.733	72%	42%	1			
	0.315	83%	17%	2	0.7	0.2	2.4
	0	100%	0%	3	0.7	0.2	2.4
	2	50%	70%	4	2.1	1.0	4.5
	3.11	44%	81%				
	6.59	33%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1.22	80%	52%	1			
	1.22	80%	52%	2	0.0	0.0	na
	0.204	100%	10%	3	2.0	0.1	39.0
	2.39	40%	70%	4	2.0	0.1	39.0
	3.91	20%	80%				
	9.92	20%	90%				
24 hours	0.783	78%	39%	1			
	0.508	89%	26%	2	2.0	0.1	39.0
	0	100%	0%	3	0.0	0.0	na
	2.39	67%	70%	4	6.2	0.6	62.8
	3.91	44%	80%				
	9.92	11%	90%				
48 hours	2.68	71%	74%	1			
	0.695	86%	36%	2	1.0	0.0	51.9
	0	100%	0%	3	1.0	0.0	51.9
	2.39	71%	70%	4	4.1	0.3	48.5
	3.91	57%	80%				
	9.92	29%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.719	73%	39%	1			
	0.653	81%	36%	2	2.0	0.7	5.7
	0.355	92%	17%	3	3.6	1.5	8.8
	2.14	35%	70%	4	2.4	0.9	6.4
	3.24	19%	80%				
	6.97	15%	90%				
24 hours	1.22	73%	55%	1			
	1.04	80%	50%	2	2.6	0.6	10.5
	0.668	90%	36%	3	4.9	1.4	16.8
	2.14	60%	70%	4	7.9	2.5	25.5
	3.24	47%	80%				
	6.97	30%	90%				
48 hours	0.951	75%	46%	1			
	0.733	81%	39%	2	1.0	0.3	3.9
	0.00584	94%	7%	3	1.0	0.3	3.9
	2.14	50%	70%	4	2.4	0.9	6.5
	3.24	44%	80%				
	6.97	31%	90%				

Fig. 2 - 24

Interleukin-10

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.460	1.610	1.460	1.270	1.460	1.755
average	2.513	1.580	2.513	4.307	2.513	2.820
stdev	14.653	1.217	14.653	18.158	14.653	5.676
p (t-test)		0.741		0.490		0.930
min	0.062	0.062	0.062	0.062	0.062	0.062
max	230.000	4.410	230.000	110.000	230.000	25.000
n (Samp)	419	27	419	36	419	18
n (Pat)	164	27	164	36	164	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.380	2.020	1.380	1.460	1.380	2.540
average	2.485	2.044	2.485	1.223	2.485	5.313
stdev	14.016	1.571	14.016	1.314	14.016	8.753
p (t-test)		0.944		0.787		0.595
min	0.062	0.062	0.062	0.062	0.062	0.062
max	230.000	4.410	230.000	3.930	230.000	25.000
n (Samp)	518	5	518	9	518	7
n (Pat)	199	5	199	9	199	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.470	1.430	1.470	1.350	1.470	1.580
average	2.843	1.543	2.843	5.072	2.843	1.691
stdev	16.014	1.405	16.014	19.858	16.014	1.439
p (t-test)		0.680		0.474		0.774
min	0.062	0.062	0.062	0.062	0.062	0.062
max	230.000	5.720	230.000	110.000	230.000	4.410
n (Samp)	352	26	352	30	352	16
n (Pat)	133	26	133	30	133	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.54	0.059	419	27	0.480
24 hours	0.47	0.049	419	36	0.573
48 hours	0.56	0.071	419	18	0.419

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.65	0.135	518	5	0.279
24 hours	0.45	0.094	518	9	0.610
48 hours	0.72	0.110	518	7	0.046

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.50	0.059	352	26	0.952
24 hours	0.49	0.055	352	30	0.908
48 hours	0.54	0.075	352	16	0.598

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.992	70%	35%	1			
	0	100%	0%	2	2.1	1.0	4.5
	0	100%	0%	3	1.5	0.7	3.6
	1.92	41%	71%	4	2.3	1.1	4.9

Fig. 2 - 25

	2.22	30%	80%				
	2.84	11%	90%				
24 hours	0	100%	0%	1			
	0	100%	0%	2	0.8	0.4	1.3
	0	100%	0%	3	0.8	0.4	1.3
	1.92	28%	71%	4	1.5	1.0	2.3
	2.22	22%	80%				
	2.84	17%	90%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	0.3	0.1	1.2
	0	100%	0%	3	0.3	0.1	1.2
	1.92	50%	71%	4	1.3	0.7	2.5
	2.22	44%	80%				
	2.84	17%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1.48	80%	54%	1			
	1.48	80%	54%	2	0.0	0.0	na
	0	100%	0%	3	1.0	0.0	51.5
	1.91	60%	70%	4	3.0	0.2	42.5
	2.22	40%	80%				
	2.82	20%	90%				
24 hours	0	100%	0%	1			
	0	100%	0%	2	4.1	0.3	48.9
	0	100%	0%	3	0.0	0.0	na
	1.91	22%	70%	4	4.1	0.3	49.3
	2.22	11%	80%				
	2.82	11%	90%				
48 hours	1.93	71%	72%	1			
	1.33	86%	48%	2	1.0	0.0	51.9
	0	100%	0%	3	1.0	0.0	51.9
	1.91	71%	70%	4	4.1	0.3	48.5
	2.22	57%	80%				
	2.82	29%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	0.6	0.3	1.2
	0	100%	0%	3	0.6	0.3	1.2
	1.95	31%	71%	4	1.0	0.6	1.7
	2.34	27%	80%				
	2.9	12%	90%				
24 hours	0.913	70%	29%	1			
	0	100%	0%	2	0.7	0.4	1.4
	0	100%	0%	3	0.9	0.5	1.5
	1.95	30%	71%	4	1.2	0.7	1.9
	2.34	27%	80%				
	2.9	20%	90%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	0.4	0.1	1.6
	0	100%	0%	3	0.4	0.1	1.6
	1.95	44%	71%	4	1.4	0.7	2.9
	2.34	38%	80%				
	2.9	19%	90%				

Fig. 2 - 26

Interleukin-15

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.127	0.111	0.127	0.147	0.127	0.177
average	0.130	0.130	0.130	0.128	0.130	0.165
stdev	0.086	0.115	0.086	0.085	0.086	0.108
p (t-test)		0.973		0.886		0.101
min	0.005	0.005	0.005	0.005	0.005	0.005
max	0.451	0.364	0.451	0.283	0.451	0.348
n (Samp)	419	27	419	36	419	18
n (Pat)	164	27	164	36	164	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.130	0.217	0.130	0.147	0.130	0.249
average	0.129	0.227	0.129	0.153	0.129	0.192
stdev	0.087	0.110	0.087	0.065	0.087	0.101
p (t-test)		0.013		0.419		0.061
min	0.005	0.100	0.005	0.071	0.005	0.023
max	0.451	0.364	0.451	0.255	0.451	0.269
n (Samp)	518	5	518	9	518	7
n (Pat)	199	5	199	9	199	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.124	0.097	0.124	0.148	0.124	0.177
average	0.132	0.117	0.132	0.124	0.132	0.175
stdev	0.090	0.112	0.090	0.088	0.090	0.106
p (t-test)		0.433		0.650		0.067
min	0.005	0.005	0.005	0.005	0.005	0.005
max	0.509	0.348	0.509	0.283	0.509	0.348
n (Samp)	352	26	352	30	352	16
n (Pat)	133	26	133	30	133	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.47	0.056	419	27	0.615
24 hours	0.50	0.050	419	36	0.951
48 hours	0.61	0.072	419	18	0.143

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.75	0.128	518	5	0.053
24 hours	0.59	0.101	518	9	0.364
48 hours	0.71	0.111	518	7	0.056

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.43	0.056	352	26	0.226
24 hours	0.49	0.055	352	30	0.817
48 hours	0.63	0.076	352	16	0.097

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.0209	70%	15%	1			
	0.00512	81%	11%	2	0.9	0.5	1.6
	0	100%	0%	3	0.4	0.2	1.1
	0.176	26%	71%	4	1.7	1.0	2.7

Fig. 2 - 27

	0.199	26%	80%				
	0.247	19%	90%				
24 hours	0.0722	72%	27%	1			
	0.0176	81%	15%	2	0.6	0.3	1.0
	0	100%	0%	3	1.1	0.7	1.7
	0.176	25%	71%	4	0.9	0.6	1.4
	0.199	19%	80%				
	0.247	14%	90%				
48 hours	0.133	72%	53%	1			
	0.0176	83%	15%	2	0.2	0.0	2.9
	0	100%	0%	3	1.3	0.5	3.2
	0.176	50%	71%	4	2.1	1.0	4.5
	0.199	39%	80%				
	0.247	22%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.144	80%	54%	1			
	0.144	80%	54%	2	na	na	na
	0.0979	100%	38%	3	na	na	na
	0.174	60%	70%	4	na	na	na
	0.199	60%	81%				
	0.248	40%	90%				
24 hours	0.116	78%	46%	1			
	0.0722	89%	28%	2	na	na	na
	0.0688	100%	26%	3	na	na	na
	0.174	33%	70%	4	na	na	na
	0.199	33%	81%				
	0.248	11%	90%				
48 hours	0.217	71%	85%	1			
	0.0688	86%	26%	2	1.0	0.0	51.9
	0.0209	100%	17%	3	0.0	0.0	na
	0.174	71%	70%	4	5.1	0.5	55.4
	0.199	71%	81%				
	0.248	57%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.0161	73%	13%	1			
	0	100%	0%	2	0.8	0.4	1.8
	0	100%	0%	3	0.8	0.4	1.8
	0.179	23%	70%	4	1.8	1.0	3.1
	0.202	23%	80%				
	0.249	15%	90%				
24 hours	0.0729	70%	31%	1			
	0.0161	80%	13%	2	1.5	0.9	2.5
	0	100%	0%	3	0.6	0.2	1.2
	0.179	23%	70%	4	1.3	0.8	2.3
	0.202	17%	80%				
	0.249	7%	90%				
48 hours	0.133	81%	53%	1			
	0.133	81%	53%	2	0.0	0.0	na
	0	100%	0%	3	2.4	0.9	6.5
	0.179	50%	70%	4	2.1	0.7	5.8
	0.202	38%	80%				
	0.249	19%	90%				

Fig. 2 - 28

Interleukin-3

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.027	0.035	0.027	0.029	0.027	0.032
average	0.029	0.033	0.029	0.037	0.029	0.030
stdev	0.024	0.023	0.024	0.042	0.024	0.025
p (t-test)		0.411		0.101		0.847
min	0.001	0.003	0.001	0.001	0.001	0.001
max	0.192	0.098	0.192	0.227	0.192	0.081
n (Samp)	419	27	419	36	419	18
n (Pat)	164	27	164	36	164	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.027	0.051	0.027	0.039	0.027	0.051
average	0.030	0.062	0.030	0.039	0.030	0.043
stdev	0.025	0.049	0.025	0.031	0.025	0.026
p (t-test)		0.006		0.263		0.166
min	0.001	0.024	0.001	0.001	0.001	0.006
max	0.227	0.147	0.227	0.091	0.227	0.072
n (Samp)	518	5	518	9	518	7
n (Pat)	199	5	199	9	199	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.027	0.036	0.027	0.028	0.027	0.033
average	0.030	0.035	0.030	0.039	0.030	0.031
stdev	0.025	0.025	0.025	0.045	0.025	0.023
p (t-test)		0.374		0.090		0.896
min	0.001	0.003	0.001	0.005	0.001	0.001
max	0.192	0.098	0.192	0.227	0.192	0.081
n (Samp)	352	26	352	30	352	16
n (Pat)	133	26	133	30	133	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.57	0.059	419	27	0.247
24 hours	0.53	0.051	419	36	0.519
48 hours	0.52	0.070	419	18	0.785

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.76	0.126	518	5	0.041
24 hours	0.60	0.101	518	9	0.300
48 hours	0.69	0.112	518	7	0.087

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.57	0.060	352	26	0.230
24 hours	0.53	0.056	352	30	0.567
48 hours	0.53	0.075	352	16	0.671

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.0235	70%	45%	1			
	0.00814	81%	25%	2	1.0	0.4	2.3
	0.00275	96%	11%	3	1.9	1.0	3.6
	0.0388	41%	70%	4	1.6	0.8	3.2

Fig. 2 - 29

	0.0465	22%	80%				
	0.0579	7%	90%				
24 hours	0.00819	72%	26%	1			
	0.00585	83%	20%	2	0.7	0.4	1.1
	0.00464	94%	16%	3	0.8	0.5	1.3
	0.0388	36%	70%	4	1.1	0.7	1.7
	0.0465	25%	80%				
	0.0579	17%	90%				
48 hours	0.00745	72%	23%	1			
	0.00616	83%	20%	2	0.2	0.0	1.6
	0	100%	0%	3	0.8	0.4	1.8
	0.0388	33%	70%	4	1.0	0.5	2.0
	0.0465	28%	80%				
	0.0579	11%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.0346	80%	64%	1			
	0.0346	80%	64%	2	na	na	na
	0.0235	100%	44%	3	na	na	na
	0.039	60%	70%	4	na	na	na
	0.0466	60%	80%				
	0.0605	20%	90%				
24 hours	0.00647	78%	21%	1			
	0.00585	89%	19%	2	0.0	0.0	na
	0.00069	100%	9%	3	0.7	0.1	3.5
	0.039	44%	70%	4	1.3	0.4	4.3
	0.0466	33%	80%				
	0.0605	22%	90%				
48 hours	0.0491	71%	83%	1			
	0.00745	86%	23%	2	0.0	0.0	na
	0.00616	100%	20%	3	0.0	0.0	na
	0.039	71%	70%	4	2.5	0.6	10.3
	0.0466	71%	80%				
	0.0605	14%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.014	73%	30%	1			
	0.00814	81%	24%	2	0.5	0.2	1.3
	0.00275	96%	11%	3	1.6	0.9	2.8
	0.0391	46%	70%	4	1.3	0.7	2.5
	0.0467	19%	80%				
	0.0618	12%	90%				
24 hours	0.0155	70%	33%	1			
	0.00647	80%	19%	2	0.9	0.5	1.5
	0.00464	97%	14%	3	0.7	0.4	1.4
	0.0391	33%	70%	4	1.1	0.7	1.9
	0.0467	27%	80%				
	0.0618	17%	90%				
48 hours	0.00747	75%	23%	1			
	0.00616	81%	18%	2	0.0	0.0	na
	0	100%	0%	3	1.2	0.6	2.6
	0.0391	31%	70%	4	1.0	0.4	2.3
	0.0467	25%	80%				
	0.0618	6%	90%				

Fig. 2 - 30

Myeloperoxidase

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1092.221	1642.464	1092.221	1172.517	1092.221	1521.247
average	1708.898	2748.279	1708.898	4407.701	1708.898	1790.668
stdev	2649.816	3531.553	2649.816	8175.246	2649.816	1322.724
p (t-test)		0.082		0.000		0.897
min	0.000	531.882	0.000	0.000	0.000	835.148
max	30781.054	17848.765	30781.054	40151.357	30781.054	6702.334
n (Samp)	246	23	246	35	246	18
n (Pat)	159	23	159	35	159	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1169.240	1325.817	1169.240	935.531	1169.240	1720.303
average	2066.041	1325.817	2066.041	1060.921	2066.041	2932.435
stdev	3767.829	155.618	3767.829	448.270	3767.829	2316.395
p (t-test)		0.782		0.452		0.545
min	0.000	1215.779	0.000	710.553	0.000	1238.108
max	40151.357	1435.855	40151.357	2099.103	40151.357	6702.334
n (Samp)	318	2	318	8	318	7
n (Pat)	188	2	188	8	188	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1138.659	1642.464	1138.659	1535.295	1138.659	1470.951
average	1875.224	2762.433	1875.224	4972.712	1875.224	1451.551
stdev	2889.891	3525.747	2889.891	8718.181	2889.891	537.393
p (t-test)		0.173		0.000		0.559
min	0.000	531.882	0.000	0.000	0.000	819.820
max	30781.054	17848.765	30781.054	40151.357	30781.054	2822.742
n (Samp)	212	23	212	30	212	16
n (Pat)	132	23	132	30	132	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.69	0.063	246	23	0.003
24 hours	0.60	0.053	246	35	0.063
48 hours	0.65	0.072	246	18	0.036

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.57	0.212	318	2	0.736
24 hours	0.39	0.093	318	8	0.252
48 hours	0.74	0.109	318	7	0.027

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.67	0.064	212	23	0.008
24 hours	0.61	0.058	212	30	0.047
48 hours	0.58	0.077	212	16	0.293

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1210.27	78%	57%	1			
	1087.76	83%	50%	2	1.5	0.3	8.3
	803.653	91%	29%	3	5.0	1.4	17.8
	1540.62	57%	70%	4	5.0	1.4	17.5

Fig. 2 - 31

	1964.73	39%	80%				
	2999.49	30%	90%				
24 hours	893.745	71%	37%	1			
	835.148	83%	33%	2	3.4	1.7	7.0
	709.902	91%	23%	3	1.5	0.6	3.7
	1540.62	46%	70%	4	3.7	1.8	7.5
	1964.73	34%	80%				
	2999.49	29%	90%				
48 hours	1225.94	72%	57%	1			
	1039.96	83%	48%	2	na	na	na
	922.638	94%	38%	3	na	na	na
	1540.62	44%	70%	4	na	na	na
	1964.73	17%	80%				
	2999.49	6%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1210.27	100%	52%	1			
	1210.27	100%	52%	2	na	na	na
	1210.27	100%	52%	3	na	na	na
	1710.25	0%	70%	4	na	na	na
	2296.75	0%	80%				
	3386.09	0%	90%				
24 hours	803.653	75%	25%	1			
	744.986	88%	22%	2	1.0	0.0	53.6
	709.902	100%	19%	3	4.2	0.3	50.6
	1710.25	13%	70%	4	2.1	0.1	40.7
	2296.75	0%	80%				
	3386.09	0%	90%				
48 hours	1642.46	71%	69%	1			
	1341.77	86%	58%	2	na	na	na
	1225.94	100%	53%	3	na	na	na
	1710.25	57%	70%	4	na	na	na
	2296.75	29%	80%				
	3386.09	29%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1253.57	74%	57%	1			
	1087.76	83%	48%	2	0.6	0.1	3.5
	803.653	91%	26%	3	3.3	1.3	8.5
	1681.71	48%	70%	4	3.3	1.3	8.5
	2252.46	39%	80%				
	3402.16	17%	90%				
24 hours	925.931	70%	41%	1			
	872.465	80%	32%	2	2.1	0.9	4.7
	755.054	90%	24%	3	1.8	0.8	4.3
	1681.71	43%	70%	4	3.1	1.5	6.5
	2252.46	37%	80%				
	3402.16	27%	90%				
48 hours	1039.96	75%	47%	1			
	925.931	81%	41%	2	na	na	na
	819.82	94%	30%	3	na	na	na
	1681.71	25%	70%	4	na	na	na
	2252.46	6%	80%				
	3402.16	0%	90%				

Fig. 2 - 32

Nidogen-1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1619.718	1811.881	1619.718	1544.601	1619.718	3251.613
average	2056.796	1833.390	2056.796	1955.591	2056.796	2507.388
stdev	1501.778	1229.701	1501.778	1235.708	1501.778	2045.825
p (t-test)		0.662		0.784		0.609
min	14.333	0.280	14.333	204.762	14.333	193.627
max	4988.372	3440.860	4988.372	4569.767	4988.372	4076.923
n (Samp)	154	9	154	18	154	3
n (Pat)	87	9	87	18	87	3

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1649.452	0.280	1649.452	4132.479	1649.452	2284.362
average	2030.985	3991.398	2030.985	3974.915	2030.985	2284.362
stdev	1449.358	na	1449.358	643.460	1449.358	1367.899
p (t-test)		na		0.008		0.806
min	0.280	3991.398	0.280	3064.935	0.280	1317.111
max	4988.372	3991.398	4988.372	4569.767	4988.372	3251.613
n (Samp)	185	1	185	4	185	2
n (Pat)	106	1	106	4	106	2

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1562.009	1811.881	1562.009	1513.302	1562.009	4076.923
average	1927.815	1833.390	1927.815	1560.633	1927.815	2946.773
stdev	1452.031	1229.701	1452.031	834.970	1452.031	2396.994
p (t-test)		0.850		0.325		0.238
min	76.493	0.280	76.493	204.762	76.493	193.627
max	4988.372	3440.860	4988.372	3957.265	4988.372	4569.767
n (Samp)	123	9	123	16	123	3
n (Pat)	70	9	70	16	70	3

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.46	0.096	154	9	0.670
24 hours	0.52	0.073	154	18	0.819
48 hours	0.54	0.172	154	3	0.821

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.86	0.235	185	1	0.124
24 hours	0.86	0.117	185	4	0.002
48 hours	0.57	0.213	185	2	0.731

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.49	0.099	123	9	0.888
24 hours	0.48	0.076	123	16	0.774
48 hours	0.62	0.175	123	3	0.492

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	992.611	78%	36%	1			
	200.806	89%	5%	2	5.6	0.5	64.7
	0	100%	0%	3	1.0	0.0	55.6
	3131.18	11%	70%	4	2.1	0.1	44.0

Fig. 2 - 33

	3844.16	0%	81%				
	4186.05	0%	90%				
24 hours	1467.82	72%	47%	1			
	977.723	83%	34%	2	4.7	1.2	17.7
	590.062	94%	22%	3	2.7	0.6	11.7
	3131.18	17%	70%	4	1.5	0.3	8.7
	3844.16	17%	81%				
	4186.05	11%	90%				
48 hours	187.903	100%	4%	1			
	187.903	100%	4%	2	0.0	0.0	na
	187.903	100%	4%	3	1.0	0.0	55.9
	3131.18	67%	70%	4	1.0	0.0	54.4
	3844.16	33%	81%				
	4186.05	0%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	992.611	78%	37%	1			
	200.806	89%	4%	2	5.7	0.5	68.5
	0	100%	0%	3	1.0	0.0	57.0
	2860.47	22%	71%	4	2.1	0.1	44.2
	3569.89	0%	80%				
	4139.53	0%	90%				
24 hours	992.611	75%	37%	1			
	977.723	81%	36%	2	7.0	0.6	78.5
	590.062	94%	23%	3	8.5	0.8	90.7
	2860.47	6%	71%	4	2.1	0.1	45.3
	3569.89	6%	80%				
	4139.53	0%	90%				
48 hours	181.452	100%	3%	1			
	181.452	100%	3%	2	0.0	0.0	na
	181.452	100%	3%	3	0.0	0.0	na
	2860.47	67%	71%	4	2.0	0.1	43.1
	3569.89	67%	80%				
	4139.53	33%	90%				

Fig. 2 - 34

Oxidized low-density lipoprotein receptor 1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	23.413	28.970	23.413	31.563	23.413	20.299
average	31.706	39.566	31.706	47.152	31.706	33.203
stdev	29.485	33.219	29.485	44.696	29.485	34.042
p (t-test)		0.228		0.007		0.837
min	0.150	1.495	0.150	0.621	0.150	2.090
max	148.195	109.060	148.195	187.691	148.195	121.257
n (Samp)	246	23	246	35	246	18
n (Pat)	159	23	159	35	159	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	24.309	16.852	24.309	31.828	24.309	26.557
average	35.059	16.852	35.059	33.037	35.059	47.585
stdev	34.672	11.213	34.672	19.732	34.672	42.883
p (t-test)		0.459		0.870		0.347
min	0.150	8.923	0.150	4.511	0.150	4.003
max	214.368	24.782	214.368	64.291	214.368	121.257
n (Samp)	318	2	318	8	318	7
n (Pat)	188	2	188	8	188	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	24.145	36.438	24.145	32.098	24.145	20.299
average	30.960	41.584	30.960	51.204	30.960	27.386
stdev	27.075	32.736	27.075	48.648	27.075	24.875
p (t-test)		0.081		0.001		0.609
min	0.150	1.495	0.150	0.621	0.150	2.090
max	137.113	109.060	137.113	187.691	137.113	89.538
n (Samp)	212	23	212	30	212	16
n (Pat)	132	23	132	30	132	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.57	0.065	246	23	0.309
24 hours	0.61	0.053	246	35	0.033
48 hours	0.48	0.070	246	18	0.777

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.35	0.174	318	2	0.394
24 hours	0.55	0.106	318	8	0.622
48 hours	0.59	0.114	318	7	0.455

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.59	0.065	212	23	0.162
24 hours	0.62	0.058	212	30	0.035
48 hours	0.46	0.073	212	16	0.554

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	13.3487	74%	32%	1			
	8.72551	83%	19%	2	0.6	0.3	1.6
	8.46383	91%	19%	3	0.6	0.3	1.6

Fig. 2 - 35

	35.666	48%	70%	4	1.6	0.8	2.9
	51.222	30%	80%				
	69.8126	22%	90%				
24 hours	20.2476	71%	44%	1			
	17.623	80%	39%	2	1.7	0.8	3.4
	6.45486	91%	13%	3	1.7	0.8	3.4
	35.666	46%	70%	4	3.2	1.8	5.8
	51.222	37%	80%				
	69.8126	20%	90%				
48 hours	7.43375	72%	16%	1			
	3.89135	83%	7%	2	0.1	0.0	1.3
	2.56368	94%	5%	3	0.5	0.2	1.3
	35.666	39%	70%	4	0.8	0.4	1.7
	51.222	22%	80%				
	69.8126	11%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	8.8314	100%	19%	1			
	8.8314	100%	19%	2	na	na	na
	8.8314	100%	19%	3	na	na	na
	39.1009	0%	70%	4	na	na	na
	55.9706	0%	80%				
	79.2451	0%	90%				
24 hours	18.4966	75%	39%	1			
	17.623	88%	37%	2	2.0	0.1	39.7
	4.28258	100%	8%	3	3.1	0.2	44.1
	39.1009	38%	70%	4	2.0	0.1	39.7
	55.9706	13%	80%				
	79.2451	0%	90%				
48 hours	22.6941	71%	48%	1			
	11.9175	86%	28%	2	2.0	0.1	40.2
	3.89135	100%	7%	3	1.0	0.0	52.9
	39.1009	43%	70%	4	3.0	0.2	43.5
	55.9706	43%	80%				
	79.2451	29%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	15.6329	74%	35%	1			
	8.72551	83%	18%	2	1.0	0.4	2.3
	8.46383	91%	18%	3	0.6	0.2	1.7
	35.652	52%	70%	4	2.2	1.1	4.2
	50.5691	35%	80%				
	67.657	22%	90%				
24 hours	22.3697	70%	48%	1			
	15.6329	80%	35%	2	1.2	0.5	2.6
	6.7825	90%	12%	3	1.5	0.7	3.1
	35.652	47%	70%	4	2.7	1.4	5.1
	50.5691	40%	80%				
	67.657	27%	90%				
48 hours	7.43375	75%	15%	1			
	6.85756	81%	12%	2	0.4	0.1	1.6
	2.56368	94%	5%	3	0.8	0.3	2.0
	35.652	31%	70%	4	1.0	0.4	2.4
	50.5691	13%	80%				
	67.657	6%	90%				

Fig. 2 - 36

P-selectin glycoprotein ligand 1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.633	1.987	1.633	0.830	1.633	1.079
average	3.913	3.619	3.913	3.771	3.913	3.162
stdev	6.490	5.252	6.490	8.817	6.490	5.188
p (t-test)		0.829		0.905		0.631
min	0.001	0.018	0.001	0.018	0.001	0.018
max	67.069	20.872	67.069	47.674	67.069	20.498
n (Samp)	304	24	304	36	304	18
n (Pat)	164	24	164	36	164	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.509	0.799	1.509	0.270	1.509	1.042
average	3.840	0.580	3.840	4.561	3.840	2.169
stdev	6.562	0.491	6.562	8.660	6.562	3.195
p (t-test)		0.391		0.760		0.502
min	0.001	0.018	0.001	0.016	0.001	0.018
max	67.069	0.923	67.069	24.531	67.069	8.975
n (Samp)	385	3	385	8	385	7
n (Pat)	197	3	197	8	197	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.501	1.987	1.501	0.411	1.501	0.913
average	3.952	3.588	3.952	3.204	3.952	2.925
stdev	6.888	5.272	6.888	8.608	6.888	5.282
p (t-test)		0.801		0.579		0.559
min	0.001	0.018	0.001	0.018	0.001	0.018
max	67.069	20.872	67.069	47.674	67.069	20.498
n (Samp)	256	24	256	31	256	16
n (Pat)	133	24	133	31	133	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.48	0.061	304	24	0.751
24 hours	0.40	0.047	304	36	0.030
48 hours	0.44	0.067	304	18	0.414

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.27	0.120	385	3	0.057
24 hours	0.38	0.091	385	8	0.188
48 hours	0.42	0.103	385	7	0.425

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.48	0.061	256	24	0.780
24 hours	0.38	0.050	256	31	0.017
48 hours	0.43	0.071	256	16	0.330

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.45337	71%	25%	1			
	0.00574	100%	2%	2	1.7	0.8	3.3
	0.00574	100%	2%	3	0.8	0.3	2.0
	3.56045	25%	70%	4	1.4	0.7	3.0

Fig. 2 - 37

	6.10119	17%	80%				
	10.0248	13%	90%				
24 hours	0.00574	100%	2%	1			
	0.00574	100%	2%	2	1.2	0.7	2.1
	0.00574	100%	2%	3	0.6	0.2	1.2
	3.56045	22%	70%	4	2.8	1.8	4.4
	6.10119	19%	80%				
	10.0248	6%	90%				
48 hours	0.1182	78%	16%	1			
	0.09386	83%	16%	2	0.5	0.1	2.3
	0.02776	94%	15%	3	1.5	0.6	3.7
	3.56045	22%	70%	4	1.6	0.7	3.7
	6.10119	22%	80%				
	10.0248	6%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.00574	100%	2%	1			
	0.00574	100%	2%	2	na	na	na
	0.00574	100%	2%	3	na	na	na
	3.42404	0%	70%	4	na	na	na
	5.90572	0%	80%				
	9.69321	0%	90%				
24 hours	0.01619	88%	2%	1			
	0.01619	88%	2%	2	0.5	0.0	9.8
	0.00574	100%	2%	3	0.5	0.0	9.8
	3.42404	25%	70%	4	2.1	0.5	9.4
	5.90572	25%	80%				
	9.69321	13%	90%				
48 hours	0.45337	71%	28%	1			
	0.00574	100%	2%	2	1.0	0.0	52.5
	0.00574	100%	2%	3	3.1	0.2	43.5
	3.42404	14%	70%	4	2.0	0.1	39.8
	5.90572	14%	80%				
	9.69321	0%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.23619	71%	20%	1			
	0.01619	100%	3%	2	1.7	0.8	3.4
	0.01619	100%	3%	3	0.6	0.2	1.8
	3.40676	25%	70%	4	1.7	0.8	3.4
	5.90572	17%	80%				
	10.0248	13%	90%				
24 hours	0.01619	100%	3%	1			
	0.01619	100%	3%	2	1.4	0.7	3.0
	0.01619	100%	3%	3	0.8	0.3	2.0
	3.40676	19%	70%	4	3.6	2.0	6.5
	5.90572	16%	80%				
	10.0248	3%	90%				
48 hours	0.1182	75%	17%	1			
	0.09386	81%	17%	2	0.7	0.1	3.6
	0.02776	94%	16%	3	1.7	0.6	5.2
	3.40676	19%	70%	4	2.1	0.7	5.9
	5.90572	19%	80%				
	10.0248	6%	90%				

Fig. 2 - 38

Secretory leukocyte peptidase inhibitor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	9403.188	4952.186	9403.188	17195.572	9403.188	21007.634
average	12892.059	5238.199	12892.059	16767.735	12892.059	17842.260
stdev	9668.743	3492.797	9668.743	10930.672	9668.743	12369.055
p (t-test)		0.019		0.114		0.383
min	525.489	701.419	525.489	773.810	525.489	4198.113
max	33763.353	9919.743	33763.353	32087.099	33763.353	28321.033
n (Samp)	154	9	154	18	154	3
n (Pat)	87	9	87	18	87	3

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	9133.017	525.489	9133.017	27970.480	9133.017	10955.509
average	12693.458	25450.382	12693.458	27745.746	12693.458	10955.509
stdev	9616.679	na	9616.679	4106.649	9616.679	14215.851
p (t-test)		na		0.002		0.800
min	525.489	25450.382	525.489	22954.925	525.489	903.384
max	33763.353	25450.382	33763.353	32087.099	33763.353	21007.634
n (Samp)	185	1	185	4	185	2
n (Pat)	106	1	106	4	106	2

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	10719.557	4952.186	10719.557	14022.648	10719.557	22954.925
average	12822.638	5238.199	12822.638	15528.387	12822.638	18491.357
stdev	9463.640	3492.797	9463.640	10853.591	9463.640	12665.757
p (t-test)		0.019		0.292		0.310
min	525.489	701.419	525.489	773.810	525.489	4198.113
max	30367.279	9919.743	30367.279	30129.151	30367.279	28321.033
n (Samp)	123	9	123	16	123	3
n (Pat)	70	9	70	16	70	3

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.28	0.075	154	9	0.004
24 hours	0.61	0.074	154	18	0.143
48 hours	0.63	0.175	154	3	0.469

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.85	0.240	185	1	0.141
24 hours	0.90	0.103	185	4	0.000
48 hours	0.41	0.189	185	2	0.627

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.28	0.074	123	9	0.003
24 hours	0.58	0.079	123	16	0.321
48 hours	0.64	0.175	123	3	0.430

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1919.95	78%	10%	1			
	1179.99	89%	8%	2	na	na	na
	619.703	100%	4%	3	na	na	na
	18848.1	0%	70%	4	na	na	na

Fig. 2 - 39

	23956.6	0%	81%				
	27878.2	0%	90%				
24 hours	8495.58	72%	45%	1			
	3620.22	83%	21%	2	0.7	0.2	2.5
	2961.54	94%	19%	3	1.0	0.3	2.9
	18848.1	44%	70%	4	1.9	0.8	4.5
	23956.6	39%	81%				
	27878.2	22%	90%				
48 hours	4066.04	100%	22%	1			
	4066.04	100%	22%	2	0.0	0.0	na
	4066.04	100%	22%	3	1.0	0.0	55.9
	18848.1	67%	70%	4	1.0	0.0	54.4
	23956.6	33%	81%				
	27878.2	33%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	25258.8	100%	85%	1			
	25258.8	100%	85%	2	na	na	na
	25258.8	100%	85%	3	na	na	na
	18614.4	100%	70%	4	na	na	na
	23328.2	100%	80%				
	27878.2	0%	90%				
24 hours	25848.7	75%	86%	1			
	22167.9	100%	77%	2	na	na	na
	22167.9	100%	77%	3	na	na	na
	18614.4	100%	70%	4	na	na	na
	23328.2	75%	80%				
	27878.2	50%	90%				
48 hours	892.467	100%	6%	1			
	892.467	100%	6%	2	0.0	0.0	na
	892.467	100%	6%	3	0.0	0.0	na
	18614.4	50%	70%	4	1.0	0.0	56.2
	23328.2	0%	80%				
	27878.2	0%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1919.95	78%	11%	1			
	1056.22	89%	9%	2	na	na	na
	619.703	100%	4%	3	na	na	na
	18614.4	0%	71%	4	na	na	na
	23302.6	0%	80%				
	27495.8	0%	90%				
24 hours	6990.37	75%	37%	1			
	3620.22	81%	22%	2	0.7	0.2	2.5
	2961.54	94%	20%	3	0.7	0.2	2.5
	18614.4	38%	71%	4	1.6	0.6	4.0
	23302.6	38%	80%				
	27495.8	25%	90%				
48 hours	3620.22	100%	22%	1			
	3620.22	100%	22%	2	0.0	0.0	na
	3620.22	100%	22%	3	0.0	0.0	na
	18614.4	67%	71%	4	2.0	0.1	43.1
	23302.6	33%	80%				
	27495.8	33%	90%				

Fig. 2 - 40

Stem cell factor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	182.000	214.000	182.000	151.000	182.000	124.500
average	323.322	356.759	323.322	294.144	323.322	156.717
stdev	418.581	368.989	418.581	315.466	418.581	109.732
p (t-test)		0.686		0.683		0.093
min	9.140	71.000	9.140	30.000	9.140	34.700
max	2940.000	1570.000	2940.000	1290.000	2940.000	368.000
n (Samp)	419	27	419	36	419	18
n (Pat)	164	27	164	36	164	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	182.000	190.000	182.000	175.000	182.000	155.000
average	336.284	421.800	336.284	410.411	336.284	153.814
stdev	433.076	572.221	433.076	528.796	433.076	75.483
p (t-test)		0.661		0.612		0.266
min	9.140	71.000	9.140	59.700	9.140	34.700
max	3000.000	1440.000	3000.000	1720.000	3000.000	284.000
n (Samp)	518	5	518	9	518	7
n (Pat)	199	5	199	9	199	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	191.000	263.500	191.000	160.000	191.000	170.500
average	319.456	382.327	319.456	307.883	319.456	175.450
stdev	374.117	371.083	374.117	330.381	374.117	118.317
p (t-test)		0.409		0.870		0.126
min	9.140	76.300	9.140	30.000	9.140	34.700
max	2420.000	1570.000	2420.000	1290.000	2420.000	368.000
n (Samp)	352	26	352	30	352	16
n (Pat)	133	26	133	30	133	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.58	0.059	419	27	0.191
24 hours	0.50	0.050	419	36	0.930
48 hours	0.38	0.062	419	18	0.064

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.55	0.133	518	5	0.707
24 hours	0.56	0.100	518	9	0.542
48 hours	0.42	0.102	518	7	0.408

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.58	0.060	352	26	0.160
24 hours	0.49	0.054	352	30	0.784
48 hours	0.40	0.067	352	16	0.125

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	130	70%	40%	1			
	105	81%	33%	2	4.8	1.4	16.4
	87.6	93%	27%	3	4.8	1.4	16.5
	319	33%	70%	4	3.6	1.0	13.3

Fig. 2 - 41

	460	22%	80%				
	753	11%	90%				
24 hours	100	72%	32%	1			
	86	81%	25%	2	0.6	0.4	1.2
	53	92%	11%	3	1.6	1.1	2.4
	319	31%	70%	4	0.8	0.5	1.3
	460	22%	80%				
	753	11%	90%				
48 hours	64.9	72%	17%	1			
	51	83%	11%	2	5.2	0.5	57.1
	34	100%	5%	3	6.3	0.6	64.8
	319	11%	70%	4	6.3	0.6	64.8
	460	0%	80%				
	753	0%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	176	80%	49%	1			
	176	80%	49%	2	1.0	0.0	51.5
	70	100%	18%	3	2.0	0.1	39.0
	324	20%	70%	4	1.0	0.0	51.5
	479	20%	80%				
	813	20%	90%				
24 hours	133	78%	41%	1			
	117	89%	36%	2	4.1	0.3	48.5
	59.6	100%	13%	3	2.0	0.1	39.0
	324	33%	70%	4	2.0	0.1	39.0
	479	22%	80%				
	813	11%	90%				
48 hours	126	71%	39%	1			
	121	86%	38%	2	na	na	na
	34	100%	5%	3	na	na	na
	324	0%	70%	4	na	na	na
	479	0%	80%				
	813	0%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	120	73%	33%	1			
	107	81%	30%	2	2.8	1.1	7.2
	89.6	92%	24%	3	2.1	0.7	5.8
	333	38%	70%	4	3.2	1.3	7.9
	446	31%	80%				
	729	12%	90%				
24 hours	99.7	70%	28%	1			
	86	80%	21%	2	0.4	0.2	0.9
	53	90%	9%	3	1.1	0.7	1.8
	333	33%	70%	4	0.8	0.4	1.3
	446	27%	80%				
	729	13%	90%				
48 hours	64.9	75%	14%	1			
	56	81%	10%	2	na	na	na
	42.1	94%	7%	3	na	na	na
	333	19%	70%	4	na	na	na
	446	0%	80%				
	729	0%	90%				

Fig. 2 - 42

Tissue inhibitor of metalloproteinase 1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	2.290	7.880	2.290	7.470	2.290	6.455
average	11.372	7.749	11.372	28.504	11.372	11.860
stdev	31.858	6.777	31.858	59.224	31.858	14.660
p (t-test)		0.556		0.005		0.948
min	0.034	0.069	0.034	0.169	0.034	0.153
max	302.000	25.200	302.000	302.000	302.000	52.000
n (Samp)	419	27	419	36	419	18
n (Pat)	164	27	164	36	164	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	2.840	10.100	2.840	11.400	2.840	3.310
average	12.002	34.581	12.002	26.707	12.002	22.679
stdev	32.161	64.690	32.161	50.635	32.161	36.736
p (t-test)		0.123		0.179		0.384
min	0.034	0.256	0.034	0.169	0.034	0.326
max	302.000	150.000	302.000	159.000	302.000	102.000
n (Samp)	518	5	518	9	518	7
n (Pat)	199	5	199	9	199	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	2.265	7.910	2.265	8.610	2.265	9.040
average	12.029	13.520	12.029	27.603	12.029	13.436
stdev	34.198	29.036	34.198	59.552	34.198	15.368
p (t-test)		0.829		0.026		0.870
min	0.034	0.069	0.034	0.239	0.034	0.153
max	302.000	152.000	302.000	302.000	302.000	52.000
n (Samp)	352	26	352	30	352	16
n (Pat)	133	26	133	30	133	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.60	0.059	419	27	0.101
24 hours	0.64	0.052	419	36	0.008
48 hours	0.58	0.072	419	18	0.248

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.58	0.134	518	5	0.531
24 hours	0.60	0.101	518	9	0.317
48 hours	0.56	0.113	518	7	0.572

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.62	0.060	352	26	0.043
24 hours	0.66	0.056	352	30	0.005
48 hours	0.62	0.076	352	16	0.102

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	2.22	70%	48%	1			
	1.88	81%	41%	2	2.4	0.9	6.3
	0.932	93%	21%	3	3.2	1.3	7.9
	7.13	56%	70%	4	2.8	1.1	7.1

Fig. 2 - 43

	11.7	19%	80%				
	25.5	0%	90%				
24 hours	2.63	72%	53%	1			
	1.44	81%	32%	2	0.6	0.3	1.5
	0.673	92%	14%	3	1.7	1.0	3.0
	7.13	53%	70%	4	2.9	1.8	4.7
	11.7	39%	80%				
	25.5	22%	90%				
48 hours	1.99	72%	43%	1			
	1.01	89%	23%	2	0.4	0.1	1.6
	0.325	94%	6%	3	1.0	0.4	2.3
	7.13	50%	70%	4	1.2	0.6	2.6
	11.7	28%	80%				
	25.5	22%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1.94	80%	38%	1			
	1.94	80%	38%	2	1.0	0.0	51.5
	0.25	100%	5%	3	1.0	0.0	51.5
	8.82	60%	70%	4	2.0	0.1	39.0
	13	20%	80%				
	26.9	20%	90%				
24 hours	1.44	78%	29%	1			
	0.765	89%	15%	2	0.5	0.0	9.6
	0.168	100%	2%	3	0.5	0.0	9.6
	8.82	56%	70%	4	2.5	0.6	10.3
	13	33%	80%				
	26.9	22%	90%				
48 hours	1.89	71%	38%	1			
	1.01	86%	21%	2	0.5	0.0	9.7
	0.325	100%	6%	3	0.5	0.0	9.7
	8.82	43%	70%	4	1.5	0.3	7.9
	13	43%	80%				
	26.9	29%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	2.22	73%	49%	1			
	1.99	81%	43%	2	3.7	1.0	13.5
	1.38	92%	30%	3	4.9	1.4	16.9
	7.58	58%	70%	4	4.2	1.2	15.0
	11.9	23%	80%				
	25.5	4%	90%				
24 hours	3.84	70%	61%	1			
	2.04	80%	44%	2	0.7	0.2	2.4
	0.995	90%	22%	3	2.7	1.3	5.6
	7.58	53%	70%	4	3.6	1.8	7.1
	11.9	40%	80%				
	25.5	20%	90%				
48 hours	1.99	75%	43%	1			
	1.94	81%	41%	2	0.7	0.1	3.5
	1.01	94%	22%	3	1.7	0.6	5.1
	7.58	56%	70%	4	2.1	0.7	5.8
	11.9	31%	80%				
	25.5	25%	90%				

Fig. 2 - 44

Tissue inhibitor of metalloproteinase 2

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	9044.741	16865.143	9044.741	17398.791	9044.741	14885.643
average	12995.451	16020.396	12995.451	30778.064	12995.451	19958.700
stdev	17809.885	8353.242	17809.885	41357.548	17809.885	17812.682
p (t-test)		0.421		0.000		0.110
min	52.566	1670.959	52.566	1052.146	52.566	746.215
max	210000.000	33679.652	210000.000	210000.000	210000.000	70571.053
n (Samp)	247	23	247	35	247	18
n (Pat)	159	23	159	35	159	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	10329.859	10423.015	10329.859	15534.342	10329.859	25613.325
average	14666.586	10423.015	14666.586	19701.839	14666.586	52050.461
stdev	18694.509	1904.764	18694.509	13576.451	18694.509	73178.705
p (t-test)		0.749		0.450		0.000
min	52.566	9076.144	52.566	6112.595	52.566	3877.712
max	210000.000	11769.887	210000.000	45799.450	210000.000	210000.000
n (Samp)	319	2	319	8	319	7
n (Pat)	188	2	188	8	188	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	9270.541	16992.272	9270.541	18520.128	9270.541	13830.893
average	14010.395	16552.297	14010.395	32472.372	14010.395	17273.988
stdev	19345.958	8166.528	19345.958	44095.165	19345.958	12588.393
p (t-test)		0.534		0.000		0.508
min	52.566	1670.959	52.566	1052.146	52.566	746.215
max	210000.000	33679.652	210000.000	210000.000	210000.000	49583.194
n (Samp)	213	23	213	30	213	16
n (Pat)	132	23	132	30	132	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.67	0.064	247	23	0.007
24 hours	0.74	0.050	247	35	0.000
48 hours	0.65	0.072	247	18	0.040

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.50	0.204	319	2	0.982
24 hours	0.66	0.107	319	8	0.137
48 hours	0.71	0.112	319	7	0.064

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.67	0.064	213	23	0.007
24 hours	0.73	0.054	213	30	0.000
48 hours	0.64	0.077	213	16	0.075

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	9602.15	74%	53%	1			
	8004.08	83%	43%	2	2.0	0.4	9.4
	6975.51	91%	36%	3	3.2	0.8	12.6

Fig. 2 - 45

	13880.1	61%	70%	4	6.3	1.8	21.3
	17585.4	39%	80%				
	23054.6	17%	90%				
24 hours	10342.4	71%	56%	1			
	9234.93	80%	51%	2	7.5	0.8	75.2
	7056.32	91%	37%	3	10.2	1.1	95.5
	13880.1	66%	70%	4	23.4	2.8	198.0
	17585.4	49%	80%				
	23054.6	37%	90%				
48 hours	9686.03	72%	54%	1			
	5554.22	83%	29%	2	0.7	0.1	3.6
	3395.45	94%	16%	3	2.1	0.7	6.0
	13880.1	56%	70%	4	2.5	0.9	6.6
	17585.4	39%	80%				
	23054.6	39%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	9044.74	100%	44%	1			
	9044.74	100%	44%	2	na	na	na
	9044.74	100%	44%	3	na	na	na
	16394.9	0%	70%	4	na	na	na
	20203.3	0%	80%				
	27021.8	0%	90%				
24 hours	9745.48	75%	48%	1			
	8192.37	88%	38%	2	na	na	na
	6042.22	100%	27%	3	na	na	na
	16394.9	50%	70%	4	na	na	na
	20203.3	38%	80%				
	27021.8	25%	90%				
48 hours	16394.9	71%	70%	1			
	5554.22	86%	25%	2	1.0	0.0	52.3
	3847.82	100%	18%	3	1.0	0.0	52.9
	16394.9	71%	70%	4	4.1	0.3	50.0
	20203.3	57%	80%				
	27021.8	43%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	10640	74%	56%	1			
	8004.08	83%	40%	2	2.1	0.4	9.7
	6975.51	91%	34%	3	3.8	1.0	14.5
	14816	61%	70%	4	5.8	1.7	20.3
	18281.5	39%	80%				
	26183.6	17%	90%				
24 hours	14816	70%	70%	1			
	10329.9	80%	54%	2	5.3	0.5	59.3
	7066.27	90%	35%	3	10.2	1.1	96.8
	14816	70%	70%	4	19.2	2.2	167.9
	18281.5	50%	80%				
	26183.6	33%	90%				
48 hours	9684.33	75%	52%	1			
	9044.74	81%	49%	2	1.0	0.1	7.6
	3395.45	94%	15%	3	3.9	1.0	14.6
	14816	44%	70%	4	2.6	0.6	11.0
	18281.5	31%	80%				
	26183.6	19%	90%				

Fig. 2 - 46

Tumor necrosis factor-alpha

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	3.190	2.780	3.190	3.425	3.190	2.570
average	9.487	6.722	9.487	7.450	9.487	8.398
stdev	22.747	7.888	22.747	8.235	22.747	9.680
p (t-test)		0.530		0.594		0.840
min	0.016	0.016	0.016	0.016	0.016	0.016
max	300.000	30.600	300.000	30.200	300.000	28.500
n (Samp)	419	27	419	36	419	18
n (Pat)	164	27	164	36	164	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	3.315	2.100	3.315	2.900	3.315	3.120
average	9.781	3.054	9.781	5.201	9.781	7.399
stdev	22.013	2.783	22.013	5.681	22.013	9.945
p (t-test)		0.495		0.533		0.775
min	0.016	1.140	0.016	0.016	0.016	0.016
max	300.000	7.980	300.000	17.800	300.000	28.500
n (Samp)	518	5	518	9	518	7
n (Pat)	199	5	199	9	199	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	3.310	3.475	3.310	4.035	3.310	3.825
average	9.520	6.949	9.520	7.733	9.520	8.153
stdev	23.836	7.973	23.836	8.562	23.836	8.514
p (t-test)		0.585		0.683		0.819
min	0.016	0.016	0.016	0.016	0.016	0.016
max	300.000	30.600	300.000	30.200	300.000	25.000
n (Samp)	352	26	352	30	352	16
n (Pat)	133	26	133	30	133	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.49	0.057	419	27	0.849
24 hours	0.51	0.051	419	36	0.809
48 hours	0.51	0.070	419	18	0.871

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.38	0.114	518	5	0.285
24 hours	0.46	0.094	518	9	0.661
48 hours	0.50	0.110	518	7	0.994

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.49	0.059	352	26	0.909
24 hours	0.51	0.055	352	30	0.799
48 hours	0.53	0.075	352	16	0.698

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1.72	70%	30%	1			
	1.18	81%	21%	2	0.9	0.5	1.6
	0.739	93%	12%	3	1.2	0.7	2.0
	9	30%	70%	4	0.9	0.5	1.6

Fig. 2 - 47

	14.8	19%	80%				
	20.6	7%	90%				
24 hours	1.64	72%	29%	1			
	1.09	81%	20%	2	1.3	0.8	2.0
	0.501	92%	11%	3	1.3	0.8	2.0
	9	33%	70%	4	1.0	0.6	1.7
	14.8	19%	80%				
	20.6	8%	90%				
48 hours	1.68	72%	29%	1			
	1.29	83%	24%	2	1.5	0.7	3.6
	0	100%	0%	3	0.7	0.2	2.4
	9	33%	70%	4	1.3	0.5	3.1
	14.8	28%	80%				
	20.6	17%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1.92	80%	34%	1			
	1.92	80%	34%	2	na	na	na
	1.09	100%	19%	3	na	na	na
	9.65	0%	70%	4	na	na	na
	15.4	0%	80%				
	21.1	0%	90%				
24 hours	1.64	78%	28%	1			
	1.42	89%	25%	2	3.0	0.2	42.8
	0	100%	0%	3	4.1	0.3	48.9
	9.65	22%	70%	4	1.0	0.0	52.3
	15.4	11%	80%				
	21.1	0%	90%				
48 hours	2.78	71%	44%	1			
	1.68	86%	29%	2	2.0	0.1	39.6
	0	100%	0%	3	3.1	0.2	43.2
	9.65	29%	70%	4	1.0	0.0	52.3
	15.4	14%	80%				
	21.1	14%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1.64	73%	27%	1			
	1.17	81%	20%	2	0.9	0.4	1.6
	0.435	92%	9%	3	1.0	0.5	1.8
	8.95	31%	70%	4	0.9	0.4	1.6
	14.7	19%	80%				
	20.1	8%	90%				
24 hours	2.16	70%	36%	1			
	1.09	80%	19%	2	0.7	0.4	1.3
	0.583	90%	10%	3	1.1	0.7	1.9
	8.95	33%	70%	4	0.9	0.5	1.5
	14.7	20%	80%				
	20.1	10%	90%				
48 hours	1.82	75%	32%	1			
	1.64	81%	27%	2	1.7	0.6	5.1
	0.739	94%	11%	3	1.3	0.4	4.4
	8.95	38%	70%	4	1.3	0.4	4.4
	14.7	25%	80%				
	20.1	13%	90%				

Fig. 2 - 48

Vascular endothelial growth factor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	633.000	727.000	633.000	956.000	633.000	589.000
average	2277.095	1981.822	2277.095	6929.669	2277.095	1561.578
stdev	6236.975	4222.324	6236.975	23297.538	6236.975	2024.383
p (t-test)		0.809		0.003		0.628
min	33.400	34.600	33.400	93.100	33.400	58.400
max	61900.000	20800.000	61900.000	139000.000	61900.000	6620.000
n (Samp)	419	27	419	36	419	18
n (Pat)	164	27	164	36	164	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	660.500	1100.000	660.500	2460.000	660.500	1770.000
average	2554.556	4397.400	2554.556	5519.456	2554.556	3736.143
stdev	8452.571	5240.937	8452.571	6250.495	8452.571	4049.560
p (t-test)		0.627		0.296		0.712
min	33.400	180.000	33.400	93.100	33.400	213.000
max	139000.000	11600.000	139000.000	18100.000	139000.000	10400.000
n (Samp)	518	5	518	9	518	7
n (Pat)	199	5	199	9	199	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	650.500	771.500	650.500	985.500	650.500	658.500
average	2135.791	1834.892	2135.791	7120.100	2135.791	1704.588
stdev	6193.768	4090.005	6193.768	25432.386	6193.768	2224.115
p (t-test)		0.808		0.005		0.782
min	33.400	34.600	33.400	122.000	33.400	58.400
max	61900.000	20800.000	61900.000	139000.000	61900.000	6670.000
n (Samp)	352	26	352	30	352	16
n (Pat)	133	26	133	30	133	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.50	0.058	419	27	0.945
24 hours	0.61	0.052	419	36	0.037
48 hours	0.48	0.069	419	18	0.788

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.64	0.135	518	5	0.312
24 hours	0.70	0.099	518	9	0.043
48 hours	0.62	0.114	518	7	0.295

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.52	0.059	352	26	0.776
24 hours	0.59	0.057	352	30	0.104
48 hours	0.50	0.074	352	16	0.974

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	484	70%	39%	1			
	271	81%	20%	2	1.0	0.5	2.0
	96.9	93%	3%	3	1.7	1.0	3.0
	1180	30%	70%	4	0.8	0.4	1.7

Fig. 2 - 49

	2080	11%	81%				
	4640	11%	90%				
24 hours	661	72%	53%	1			
	438	81%	35%	2	0.6	0.3	1.5
	204	92%	11%	3	2.7	1.6	4.4
	1180	42%	70%	4	1.9	1.1	3.3
	2080	28%	81%				
	4640	25%	90%				
48 hours	277	72%	20%	1			
	217	83%	12%	2	0.3	0.1	1.2
	129	94%	4%	3	0.7	0.3	1.6
	1180	39%	70%	4	1.0	0.5	2.0
	2080	22%	81%				
	4640	11%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	726	80%	53%	1			
	726	80%	53%	2	0.0	0.0	na
	179	100%	8%	3	2.0	0.1	39.0
	1260	40%	70%	4	2.0	0.1	39.0
	2080	40%	80%				
	4930	40%	90%				
24 hours	695	78%	52%	1			
	661	89%	50%	2	1.0	0.0	51.5
	87.1	100%	3%	3	2.0	0.1	39.0
	1260	56%	70%	4	5.1	0.5	55.4
	2080	56%	80%				
	4930	44%	90%				
48 hours	459	71%	36%	1			
	363	86%	28%	2	2.0	0.1	39.3
	211	100%	12%	3	0.0	0.0	na
	1260	57%	70%	4	4.1	0.3	48.5
	2080	43%	80%				
	4930	43%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	484	73%	39%	1			
	349	81%	27%	2	1.4	0.7	2.9
	96.9	92%	3%	3	1.9	1.0	3.6
	1160	35%	70%	4	1.0	0.4	2.3
	2040	15%	80%				
	3810	8%	90%				
24 hours	695	70%	53%	1			
	438	80%	34%	2	0.8	0.3	2.0
	227	90%	11%	3	3.1	1.7	5.5
	1160	37%	70%	4	1.4	0.7	2.9
	2040	20%	80%				
	3810	20%	90%				
48 hours	277	75%	19%	1			
	220	81%	11%	2	0.6	0.2	1.7
	129	94%	3%	3	0.6	0.2	1.7
	1160	38%	70%	4	1.0	0.4	2.3
	2040	25%	80%				
	3810	19%	90%				

Fig. 2 - 50

EN-RAGE

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.436	5.856	1.436	5.856	1.436	5.856
average	10.655	27.324	10.655	27.324	10.655	27.324
stdev	53.079	64.053	53.079	64.053	53.079	64.053
p (t-test)		0.240		0.240		0.240
min	0.077	0.223	0.077	0.223	0.077	0.223
max	391.452	307.987	391.452	307.987	391.452	307.987
n (Samp)	54	23	54	23	54	23
n (Pat)	54	23	54	23	54	23

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.804	1.225	1.804	1.225	1.804	1.225
average	5.575	1.902	5.575	1.902	5.575	1.902
stdev	11.019	2.102	11.019	2.102	11.019	2.102
p (t-test)		0.521		0.521		0.521
min	0.077	0.307	0.077	0.307	0.077	0.307
max	49.126	4.853	49.126	4.853	49.126	4.853
n (Samp)	20	4	20	4	20	4
n (Pat)	20	4	20	4	20	4

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.436	4.907	1.436	4.907	1.436	4.907
average	21.358	14.404	21.358	14.404	21.358	14.404
stdev	74.453	19.252	74.453	19.252	74.453	19.252
p (t-test)		0.698		0.698		0.698
min	0.142	0.281	0.142	0.281	0.142	0.281
max	391.452	76.160	391.452	76.160	391.452	76.160
n (Samp)	44	18	44	18	44	18
n (Pat)	44	18	44	18	44	18

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.67	0.070	54	23	0.014
24 hours	0.67	0.070	54	23	0.014
48 hours	0.67	0.070	54	23	0.014

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.43	0.154	20	4	0.626
24 hours	0.43	0.154	20	4	0.626
48 hours	0.43	0.154	20	4	0.626

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.65	0.080	44	18	0.066
24 hours	0.65	0.080	44	18	0.066
48 hours	0.65	0.080	44	18	0.066

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.91054	74%	37%	1			
	0.63129	83%	24%	2	0.3	0.1	1.7
	0.48001	91%	17%	3	1.0	0.3	2.9
	3.07933	57%	70%	4	3.4	1.4	8.7
	5.24957	52%	81%				

Fig. 3 - 1

	8.8999	48%	91%				
24 hours	0.91054	74%	37%	1			
	0.63129	83%	24%	2	0.3	0.1	1.7
	0.48001	91%	17%	3	1.0	0.3	2.9
	3.07933	57%	70%	4	3.4	1.4	8.7
	5.24957	52%	81%				
	8.8999	48%	91%				
48 hours	0.91054	74%	37%	1			
	0.63129	83%	24%	2	0.3	0.1	1.7
	0.48001	91%	17%	3	1.0	0.3	2.9
	3.07933	57%	70%	4	3.4	1.4	8.7
	5.24957	52%	81%				
	8.8999	48%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.30654	75%	20%	1			
	0.25054	100%	20%	2	1.0	0.0	110.4
	0.25054	100%	20%	3	0.0	0.0	na
	3.07933	25%	70%	4	2.5	0.1	114.2
	7.78951	0%	80%				
	11.3413	0%	90%				
24 hours	0.30654	75%	20%	1			
	0.25054	100%	20%	2	1.0	0.0	110.4
	0.25054	100%	20%	3	0.0	0.0	na
	3.07933	25%	70%	4	2.5	0.1	114.2
	7.78951	0%	80%				
	11.3413	0%	90%				
48 hours	0.30654	75%	20%	1			
	0.25054	100%	20%	2	1.0	0.0	110.4
	0.25054	100%	20%	3	0.0	0.0	na
	3.07933	25%	70%	4	2.5	0.1	114.2
	7.78951	0%	80%				
	11.3413	0%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1.96208	72%	61%	1			
	0.86575	83%	32%	2	0.6	0.1	4.0
	0.62996	94%	20%	3	2.0	0.5	8.1
	4.10153	50%	70%	4	4.0	1.1	14.8
	8.39546	44%	82%				
	20.2268	33%	91%				
24 hours	1.96208	72%	61%	1			
	0.86575	83%	32%	2	0.6	0.1	4.0
	0.62996	94%	20%	3	2.0	0.5	8.1
	4.10153	50%	70%	4	4.0	1.1	14.8
	8.39546	44%	82%				
	20.2268	33%	91%				
48 hours	1.96208	72%	61%	1			
	0.86575	83%	32%	2	0.6	0.1	4.0
	0.62996	94%	20%	3	2.0	0.5	8.1
	4.10153	50%	70%	4	4.0	1.1	14.8
	8.39546	44%	82%				
	20.2268	33%	91%				

Fig. 3 - 2

Eotaxin

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	36.000	48.300	36.000	48.300	36.000	48.300
average	52.830	92.050	52.830	92.050	52.830	92.050
stdev	43.401	134.609	43.401	134.609	43.401	134.609
p (t-test)		0.058		0.058		0.058
min	10.800	12.100	10.800	12.100	10.800	12.100
max	229.000	535.000	229.000	535.000	229.000	535.000
n (Samp)	54	22	54	22	54	22
n (Pat)	54	22	54	22	54	22

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	31.300	120.000	31.300	120.000	31.300	120.000
average	88.265	118.740	88.265	118.740	88.265	118.740
stdev	137.507	72.223	137.507	72.223	137.507	72.223
p (t-test)		0.640		0.640		0.640
min	12.300	18.700	12.300	18.700	12.300	18.700
max	535.000	221.000	535.000	221.000	535.000	221.000
n (Samp)	20	5	20	5	20	5
n (Pat)	20	5	20	5	20	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	35.250	47.300	35.250	47.300	35.250	47.300
average	51.782	49.547	51.782	49.547	51.782	49.547
stdev	45.589	30.475	45.589	30.475	45.589	30.475
p (t-test)		0.853		0.853		0.853
min	10.800	12.100	10.800	12.100	10.800	12.100
max	229.000	135.000	229.000	135.000	229.000	135.000
n (Samp)	44	17	44	17	44	17
n (Pat)	44	17	44	17	44	17

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.51	0.074	54	22	0.842
24 hours	0.51	0.074	54	22	0.842
48 hours	0.51	0.074	54	22	0.842

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.74	0.138	20	5	0.082
24 hours	0.74	0.138	20	5	0.082
48 hours	0.74	0.138	20	5	0.082

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.53	0.084	44	17	0.695
24 hours	0.53	0.084	44	17	0.695
48 hours	0.53	0.084	44	17	0.695

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	20.7	73%	17%	1			
	18.4	82%	13%	2	0.3	0.1	1.1
	15.5	91%	7%	3	0.8	0.3	2.0

Fig. 3 - 3

	66.2	32%	70%	4	0.8	0.3	2.0
	76.5	23%	81%				
	93	18%	91%				
24 hours	20.7	73%	17%	1			
	18.4	82%	13%	2	0.3	0.1	1.1
	15.5	91%	7%	3	0.8	0.3	2.0
	66.2	32%	70%	4	0.8	0.3	2.0
	76.5	23%	81%				
	93	18%	91%				
48 hours	20.7	73%	17%	1			
	18.4	82%	13%	2	0.3	0.1	1.1
	15.5	91%	7%	3	0.8	0.3	2.0
	66.2	32%	70%	4	0.8	0.3	2.0
	76.5	23%	81%				
	93	18%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	88.1	80%	85%	1			
	88.1	80%	85%	2	0.0	0.0	na
	18.4	100%	15%	3	0.0	0.0	na
	74.9	80%	70%	4	6.7	0.2	219.7
	85.3	80%	80%				
	110	60%	90%				
24 hours	88.1	80%	85%	1			
	88.1	80%	85%	2	0.0	0.0	na
	18.4	100%	15%	3	0.0	0.0	na
	74.9	80%	70%	4	6.7	0.2	219.7
	85.3	80%	80%				
	110	60%	90%				
48 hours	88.1	80%	85%	1			
	88.1	80%	85%	2	0.0	0.0	na
	18.4	100%	15%	3	0.0	0.0	na
	74.9	80%	70%	4	6.7	0.2	219.7
	85.3	80%	80%				
	110	60%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	35.4	71%	52%	1			
	18.7	82%	16%	2	0.3	0.1	1.7
	15.5	94%	9%	3	1.3	0.4	4.1
	62.4	29%	70%	4	0.7	0.2	2.3
	70.5	18%	82%				
	93	6%	91%				
24 hours	35.4	71%	52%	1			
	18.7	82%	16%	2	0.3	0.1	1.7
	15.5	94%	9%	3	1.3	0.4	4.1
	62.4	29%	70%	4	0.7	0.2	2.3
	70.5	18%	82%				
	93	6%	91%				
48 hours	35.4	71%	52%	1			
	18.7	82%	16%	2	0.3	0.1	1.7
	15.5	94%	9%	3	1.3	0.4	4.1
	62.4	29%	70%	4	0.7	0.2	2.3
	70.5	18%	82%				
	93	6%	91%				

Fig. 3 - 4

Hepatocyte growth factor receptor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	515.068	588.312	515.068	588.312	515.068	588.312
average	911.178	745.540	911.178	745.540	911.178	745.540
stdev	1003.635	671.390	1003.635	671.390	1003.635	671.390
p (t-test)		0.615		0.615		0.615
min	5.678	5.678	5.678	5.678	5.678	5.678
max	3446.809	1907.850	3446.809	1907.850	3446.809	1907.850
n (Samp)	31	11	31	11	31	11
n (Pat)	31	11	31	11	31	11

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	366.909	383.572	366.909	383.572	366.909	383.572
average	722.651	688.094	722.651	688.094	722.651	688.094
stdev	1011.090	842.631	1011.090	842.631	1011.090	842.631
p (t-test)		0.952		0.952		0.952
min	5.678	77.381	5.678	77.381	5.678	77.381
max	3306.220	1907.850	3306.220	1907.850	3306.220	1907.850
n (Samp)	12	4	12	4	12	4
n (Pat)	12	4	12	4	12	4

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	659.439	564.384	659.439	564.384	659.439	564.384
average	947.526	634.224	947.526	634.224	947.526	634.224
stdev	982.679	610.143	982.679	610.143	982.679	610.143
p (t-test)		0.436		0.436		0.436
min	5.678	5.678	5.678	5.678	5.678	5.678
max	3446.809	1720.137	3446.809	1720.137	3446.809	1720.137
n (Samp)	22	7	22	7	22	7
n (Pat)	22	7	22	7	22	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.47	0.101	31	11	0.784
24 hours	0.47	0.101	31	11	0.784
48 hours	0.47	0.101	31	11	0.784

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.54	0.173	12	4	0.810
24 hours	0.54	0.173	12	4	0.810
48 hours	0.54	0.173	12	4	0.810

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.42	0.122	22	7	0.506
24 hours	0.42	0.122	22	7	0.506
48 hours	0.42	0.122	22	7	0.506

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	218.75	73%	42%	1			
	37.4088	82%	13%	2	3.0	0.4	22.5
	0	100%	0%	3	1.0	0.1	11.0

Fig. 3 - 5

	1233.12	27%	71%	4	1.9	0.2	16.2
	1843	9%	81%				
	2406.53	0%	90%				
24 hours	218.75	73%	42%	1			
	37.4088	82%	13%	2	3.0	0.4	22.5
	0	100%	0%	3	1.0	0.1	11.0
	1233.12	27%	71%	4	1.9	0.2	16.2
	1843	9%	81%				
	2406.53	0%	90%				
48 hours	218.75	73%	42%	1			
	37.4088	82%	13%	2	3.0	0.4	22.5
	0	100%	0%	3	1.0	0.1	11.0
	1233.12	27%	71%	4	1.9	0.2	16.2
	1843	9%	81%				
	2406.53	0%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	214.12	71%	41%	1			
	37.4088	86%	9%	2	5.3	0.2	154.7
	0	100%	0%	3	1.2	0.0	107.9
	1387.64	14%	73%	4	2.8	0.1	103.7
	1843	0%	82%				
	2406.53	0%	91%				
24 hours	214.12	71%	41%	1			
	37.4088	86%	9%	2	5.3	0.2	154.7
	0	100%	0%	3	1.2	0.0	107.9
	1387.64	14%	73%	4	2.8	0.1	103.7
	1843	0%	82%				
	2406.53	0%	91%				
48 hours	214.12	71%	41%	1			
	37.4088	86%	9%	2	5.3	0.2	154.7
	0	100%	0%	3	1.2	0.0	107.9
	1387.64	14%	73%	4	2.8	0.1	103.7
	1843	0%	82%				
	2406.53	0%	91%				

Fig. 3 - 6

Interleukin-1 beta

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.145	3.665	1.145	3.665	1.145	3.665
average	14.618	16.502	14.618	16.502	14.618	16.502
stdev	90.937	47.237	90.937	47.237	90.937	47.237
p (t-test)		0.927		0.927		0.927
min	0.006	0.508	0.006	0.508	0.006	0.508
max	670.000	224.000	670.000	224.000	670.000	224.000
n (Samp)	54	22	54	22	54	22
n (Pat)	54	22	54	22	54	22

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.001	4.030	1.001	4.030	1.001	4.030
average	3.114	10.864	3.114	10.864	3.114	10.864
stdev	6.824	12.949	6.824	12.949	6.824	12.949
p (t-test)		0.072		0.072		0.072
min	0.006	2.290	0.006	2.290	0.006	2.290
max	31.300	32.800	31.300	32.800	31.300	32.800
n (Samp)	20	5	20	5	20	5
n (Pat)	20	5	20	5	20	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.385	2.240	1.385	2.240	1.385	2.240
average	18.155	16.874	18.155	16.874	18.155	16.874
stdev	100.657	53.558	100.657	53.558	100.657	53.558
p (t-test)		0.961		0.961		0.961
min	0.006	0.508	0.006	0.508	0.006	0.508
max	670.000	224.000	670.000	224.000	670.000	224.000
n (Samp)	44	17	44	17	44	17
n (Pat)	44	17	44	17	44	17

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.72	0.069	54	22	0.002
24 hours	0.72	0.069	54	22	0.002
48 hours	0.72	0.069	54	22	0.002

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.84	0.117	20	5	0.004
24 hours	0.84	0.117	20	5	0.004
48 hours	0.84	0.117	20	5	0.004

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.64	0.082	44	17	0.088
24 hours	0.64	0.082	44	17	0.088
48 hours	0.64	0.082	44	17	0.088

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1.17	73%	52%	1			
	0.783	82%	44%	2	3.0	0.6	15.5
	0.616	91%	37%	3	3.0	0.6	15.5

Fig. 3 - 7

	1.93	68%	70%	4	9.4	2.1	42.7
	3.65	50%	81%				
	6.66	23%	91%				
24 hours	1.17	73%	52%	1			
	0.783	82%	44%	2	3.0	0.6	15.5
	0.616	91%	37%	3	3.0	0.6	15.5
	1.93	68%	70%	4	9.4	2.1	42.7
	3.65	50%	81%				
	6.66	23%	91%				
48 hours	1.17	73%	52%	1			
	0.783	82%	44%	2	3.0	0.6	15.5
	0.616	91%	37%	3	3.0	0.6	15.5
	1.93	68%	70%	4	9.4	2.1	42.7
	3.65	50%	81%				
	6.66	23%	91%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1.12	71%	48%	1			
	0.783	82%	43%	2	3.3	0.6	18.1
	0.508	94%	30%	3	2.4	0.4	14.3
	2.47	47%	70%	4	3.9	0.7	20.4
	6.01	24%	82%				
	9.92	18%	91%				
24 hours	1.12	71%	48%	1			
	0.783	82%	43%	2	3.3	0.6	18.1
	0.508	94%	30%	3	2.4	0.4	14.3
	2.47	47%	70%	4	3.9	0.7	20.4
	6.01	24%	82%				
	9.92	18%	91%				
48 hours	1.12	71%	48%	1			
	0.783	82%	43%	2	3.3	0.6	18.1
	0.508	94%	30%	3	2.4	0.4	14.3
	2.47	47%	70%	4	3.9	0.7	20.4
	6.01	24%	82%				
	9.92	18%	91%				

Fig. 3 - 8

Interleukin-10

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.430	1.300	1.430	1.300	1.430	1.300
average	1.820	1.466	1.820	1.466	1.820	1.466
stdev	4.161	1.335	4.161	1.335	4.161	1.335
p (t-test)		0.698		0.698		0.698
min	0.062	0.062	0.062	0.062	0.062	0.062
max	30.900	3.930	30.900	3.930	30.900	3.930
n (Samp)	54	22	54	22	54	22
n (Pat)	54	22	54	22	54	22

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.310	1.460	1.310	1.460	1.310	1.460
average	1.035	1.380	1.035	1.380	1.035	1.380
stdev	0.803	0.888	0.803	0.888	0.803	0.888
p (t-test)		0.407		0.407		0.407
min	0.062	0.062	0.062	0.062	0.062	0.062
max	2.330	2.540	2.330	2.540	2.330	2.540
n (Samp)	20	5	20	5	20	5
n (Pat)	20	5	20	5	20	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.425	1.350	1.425	1.350	1.425	1.350
average	1.930	1.568	1.930	1.568	1.930	1.568
stdev	4.597	1.482	4.597	1.482	4.597	1.482
p (t-test)		0.752		0.752		0.752
min	0.062	0.062	0.062	0.062	0.062	0.062
max	30.900	3.930	30.900	3.930	30.900	3.930
n (Samp)	44	17	44	17	44	17
n (Pat)	44	17	44	17	44	17

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.51	0.074	54	22	0.914
24 hours	0.51	0.074	54	22	0.914
48 hours	0.51	0.074	54	22	0.914

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.61	0.149	20	5	0.460
24 hours	0.61	0.149	20	5	0.460
48 hours	0.61	0.149	20	5	0.460

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.54	0.084	44	17	0.672
24 hours	0.54	0.084	44	17	0.672
48 hours	0.54	0.084	44	17	0.672

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	2.7	1.0	7.7
	0	100%	0%	3	1.0	0.3	3.5

Fig. 3 - 9

	1.91	27%	72%	4	1.7	0.6	5.2
	2.32	23%	81%				
	2.72	23%	91%				
24 hours	0	100%	0%	1			
	0	100%	0%	2	2.7	1.0	7.7
	0	100%	0%	3	1.0	0.3	3.5
	1.91	27%	72%	4	1.7	0.6	5.2
	2.32	23%	81%				
	2.72	23%	91%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	2.7	1.0	7.7
	0	100%	0%	3	1.0	0.3	3.5
	1.91	27%	72%	4	1.7	0.6	5.2
	2.32	23%	81%				
	2.72	23%	91%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	0.7	0.2	2.6
	0	100%	0%	3	0.5	0.1	2.0
	1.91	35%	73%	4	0.9	0.3	2.9
	2.42	29%	82%				
	2.93	29%	91%				
24 hours	0	100%	0%	1			
	0	100%	0%	2	0.7	0.2	2.6
	0	100%	0%	3	0.5	0.1	2.0
	1.91	35%	73%	4	0.9	0.3	2.9
	2.42	29%	82%				
	2.93	29%	91%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	0.7	0.2	2.6
	0	100%	0%	3	0.5	0.1	2.0
	1.91	35%	73%	4	0.9	0.3	2.9
	2.42	29%	82%				
	2.93	29%	91%				

Fig. 3 - 10

Nidogen-1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	2325.581	1487.455	2325.581	1487.455	2325.581	1487.455
average	2340.874	1960.383	2340.874	1960.383	2340.874	1960.383
stdev	1616.976	1448.585	1616.976	1448.585	1616.976	1448.585
p (t-test)		0.499		0.499		0.499
min	95.536	662.526	95.536	662.526	95.536	662.526
max	4988.372	4569.767	4988.372	4569.767	4988.372	4569.767
n (Samp)	29	11	29	11	29	11
n (Pat)	29	11	29	11	29	11

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	939.840	3992.896	939.840	3992.896	939.840	3992.896
average	1875.887	4074.787	1875.887	4074.787	1875.887	4074.787
stdev	1678.686	390.809	1678.686	390.809	1678.686	390.809
p (t-test)		0.025		0.025		0.025
min	95.536	3743.590	95.536	3743.590	95.536	3743.590
max	4273.504	4569.767	4273.504	4569.767	4273.504	4569.767
n (Samp)	11	4	11	4	11	4
n (Pat)	11	4	11	4	11	4

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	2325.581	981.366	2325.581	981.366	2325.581	981.366
average	2498.939	1176.300	2498.939	1176.300	2498.939	1176.300
stdev	1606.892	441.686	1606.892	441.686	1606.892	441.686
p (t-test)		0.043		0.043		0.043
min	259.783	662.526	259.783	662.526	259.783	662.526
max	4988.372	1857.143	4988.372	1857.143	4988.372	1857.143
n (Samp)	21	7	21	7	21	7
n (Pat)	21	7	21	7	21	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.47	0.102	29	11	0.759
24 hours	0.47	0.102	29	11	0.759
48 hours	0.47	0.102	29	11	0.759

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.84	0.135	11	4	0.011
24 hours	0.84	0.135	11	4	0.011
48 hours	0.84	0.135	11	4	0.011

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.28	0.104	21	7	0.037
24 hours	0.28	0.104	21	7	0.037
48 hours	0.28	0.104	21	7	0.037

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	875.668	73%	34%	1			
	855.072	82%	34%	2	0.0	0.0	na
	850.932	91%	34%	3	5.4	0.8	35.2

Fig. 3 - 11

	3487.18	27%	72%	4	0.3	0.0	5.8
	4273.5	9%	83%				
	4662.79	0%	93%				
24 hours	875.668	73%	34%	1			
	855.072	82%	34%	2	0.0	0.0	na
	850.932	91%	34%	3	5.4	0.8	35.2
	3487.18	27%	72%	4	0.3	0.0	5.8
	4273.5	9%	83%				
	4662.79	0%	93%				
48 hours	875.668	73%	34%	1			
	855.072	82%	34%	2	0.0	0.0	na
	850.932	91%	34%	3	5.4	0.8	35.2
	3487.18	27%	72%	4	0.3	0.0	5.8
	4273.5	9%	83%				
	4662.79	0%	93%				

Fig. 3 - 12

Oxidized low-density lipoprotein receptor 1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	25.394	52.327	25.394	52.327	25.394	52.327
average	33.728	61.365	33.728	61.365	33.728	61.365
stdev	30.299	62.559	30.299	62.559	30.299	62.559
p (t-test)		0.011		0.011		0.011
min	1.212	1.735	1.212	1.735	1.212	1.735
max	139.836	214.368	139.836	214.368	139.836	214.368
n (Samp)	54	23	54	23	54	23
n (Pat)	54	23	54	23	54	23

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	12.015	22.855	12.015	22.855	12.015	22.855
average	35.267	28.687	35.267	28.687	35.267	28.687
stdev	52.327	25.404	52.327	25.404	52.327	25.404
p (t-test)		0.811		0.811		0.811
min	1.212	4.749	1.212	4.749	1.212	4.749
max	187.486	64.291	187.486	64.291	187.486	64.291
n (Samp)	20	4	20	4	20	4
n (Pat)	20	4	20	4	20	4

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	27.472	55.471	27.472	55.471	27.472	55.471
average	33.894	62.449	33.894	62.449	33.894	62.449
stdev	23.779	60.581	23.779	60.581	23.779	60.581
p (t-test)		0.009		0.009		0.009
min	4.239	2.639	4.239	2.639	4.239	2.639
max	92.283	214.368	92.283	214.368	92.283	214.368
n (Samp)	44	18	44	18	44	18
n (Pat)	44	18	44	18	44	18

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.60	0.072	54	23	0.153
24 hours	0.60	0.072	54	23	0.153
48 hours	0.60	0.072	54	23	0.153

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.59	0.164	20	4	0.594
24 hours	0.59	0.164	20	4	0.594
48 hours	0.59	0.164	20	4	0.594

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.61	0.081	44	18	0.172
24 hours	0.61	0.081	44	18	0.172
48 hours	0.61	0.081	44	18	0.172

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	16.1385	74%	37%	1			
	10.083	83%	26%	2	1.0	0.3	2.9
	4.23945	91%	6%	3	0.3	0.1	1.7

Fig. 3 - 13

	39.3184	52%	70%	4	3.4	1.4	8.7
	54.8111	48%	81%				
	77.6918	26%	91%				
24 hours	16.1385	74%	37%	1			
	10.083	83%	26%	2	1.0	0.3	2.9
	4.23945	91%	6%	3	0.3	0.1	1.7
	39.3184	52%	70%	4	3.4	1.4	8.7
	54.8111	48%	81%				
	77.6918	26%	91%				
48 hours	16.1385	74%	37%	1			
	10.083	83%	26%	2	1.0	0.3	2.9
	4.23945	91%	6%	3	0.3	0.1	1.7
	39.3184	52%	70%	4	3.4	1.4	8.7
	54.8111	48%	81%				
	77.6918	26%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	14.8506	75%	65%	1			
	3.32291	100%	15%	2	0.0	0.0	na
	3.32291	100%	15%	3	2.5	0.1	114.2
	21.4101	50%	70%	4	1.0	0.0	110.4
	39.3184	25%	80%				
	118.591	0%	90%				
24 hours	14.8506	75%	65%	1			
	3.32291	100%	15%	2	0.0	0.0	na
	3.32291	100%	15%	3	2.5	0.1	114.2
	21.4101	50%	70%	4	1.0	0.0	110.4
	39.3184	25%	80%				
	118.591	0%	90%				
48 hours	14.8506	75%	65%	1			
	3.32291	100%	15%	2	0.0	0.0	na
	3.32291	100%	15%	3	2.5	0.1	114.2
	21.4101	50%	70%	4	1.0	0.0	110.4
	39.3184	25%	80%				
	118.591	0%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	17.0311	72%	30%	1			
	9.74574	83%	16%	2	0.3	0.1	1.6
	6.7825	94%	9%	3	0.3	0.1	1.7
	40.7225	56%	70%	4	2.6	0.9	7.6
	54.8111	50%	82%				
	69.1111	33%	91%				
24 hours	17.0311	72%	30%	1			
	9.74574	83%	16%	2	0.3	0.1	1.6
	6.7825	94%	9%	3	0.3	0.1	1.7
	40.7225	56%	70%	4	2.6	0.9	7.6
	54.8111	50%	82%				
	69.1111	33%	91%				
48 hours	17.0311	72%	30%	1			
	9.74574	83%	16%	2	0.3	0.1	1.6
	6.7825	94%	9%	3	0.3	0.1	1.7
	40.7225	56%	70%	4	2.6	0.9	7.6
	54.8111	50%	82%				
	69.1111	33%	91%				

Fig. 3 - 14

P-selectin glycoprotein ligand 1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.216	0.599	1.216	0.599	1.216	0.599
average	3.851	3.665	3.851	3.665	3.851	3.665
stdev	5.828	9.924	5.828	9.924	5.828	9.924
p (t-test)		0.918		0.918		0.918
min	0.001	0.016	0.001	0.016	0.001	0.016
max	22.914	47.674	22.914	47.674	22.914	47.674
n (Samp)	54	23	54	23	54	23
n (Pat)	54	23	54	23	54	23

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.426	0.018	1.426	0.018	1.426	0.018
average	3.661	0.223	3.661	0.223	3.661	0.223
stdev	5.574	0.458	5.574	0.458	5.574	0.458
p (t-test)		0.188		0.188		0.188
min	0.018	0.016	0.018	0.016	0.018	0.016
max	19.906	1.042	19.906	1.042	19.906	1.042
n (Samp)	20	5	20	5	20	5
n (Pat)	20	5	20	5	20	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.216	0.725	1.216	0.725	1.216	0.725
average	3.658	4.095	3.658	4.095	3.658	4.095
stdev	5.490	11.142	5.490	11.142	5.490	11.142
p (t-test)		0.836		0.836		0.836
min	0.001	0.018	0.001	0.018	0.001	0.018
max	22.914	47.674	22.914	47.674	22.914	47.674
n (Samp)	44	18	44	18	44	18
n (Pat)	44	18	44	18	44	18

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.39	0.068	54	23	0.093
24 hours	0.39	0.068	54	23	0.093
48 hours	0.39	0.068	54	23	0.093

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.12	0.072	20	5	0.000
24 hours	0.12	0.072	20	5	0.000
48 hours	0.12	0.072	20	5	0.000

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.40	0.077	44	18	0.187
24 hours	0.40	0.077	44	18	0.187
48 hours	0.40	0.077	44	18	0.187

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.01619	96%	2%	1			
	0.01619	96%	2%	2	1.8	0.6	5.5
	0.01619	96%	2%	3	1.1	0.3	3.7

Fig. 3 - 15

	3.12755	17%	70%	4	3.6	1.3	10.0
	6.11213	17%	81%				
	14.6669	4%	91%				
24 hours	0.01619	96%	2%	1			
	0.01619	96%	2%	2	1.8	0.6	5.5
	0.01619	96%	2%	3	1.1	0.3	3.7
	3.12755	17%	70%	4	3.6	1.3	10.0
	6.11213	17%	81%				
	14.6669	4%	91%				
48 hours	0.01619	96%	2%	1			
	0.01619	96%	2%	2	1.8	0.6	5.5
	0.01619	96%	2%	3	1.1	0.3	3.7
	3.12755	17%	70%	4	3.6	1.3	10.0
	6.11213	17%	81%				
	14.6669	4%	91%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.01822	72%	16%	1			
	0.00132	100%	2%	2	2.2	0.5	8.7
	0.00132	100%	2%	3	1.0	0.2	5.0
	2.61628	17%	70%	4	3.8	1.0	14.3
	7.08225	17%	82%				
	12.7911	6%	91%				
24 hours	0.01822	72%	16%	1			
	0.00132	100%	2%	2	2.2	0.5	8.7
	0.00132	100%	2%	3	1.0	0.2	5.0
	2.61628	17%	70%	4	3.8	1.0	14.3
	7.08225	17%	82%				
	12.7911	6%	91%				
48 hours	0.01822	72%	16%	1			
	0.00132	100%	2%	2	2.2	0.5	8.7
	0.00132	100%	2%	3	1.0	0.2	5.0
	2.61628	17%	70%	4	3.8	1.0	14.3
	7.08225	17%	82%				
	12.7911	6%	91%				

Fig. 3 - 16

Stem cell factor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	212.000	116.000	212.000	116.000	212.000	116.000
average	325.950	179.641	325.950	179.641	325.950	179.641
stdev	357.718	148.948	357.718	148.948	357.718	148.948
p (t-test)		0.069		0.069		0.069
min	11.400	30.000	11.400	30.000	11.400	30.000
max	1610.000	519.000	1610.000	519.000	1610.000	519.000
n (Samp)	54	22	54	22	54	22
n (Pat)	54	22	54	22	54	22

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	116.100	188.000	116.100	188.000	116.100	188.000
average	194.570	216.220	194.570	216.220	194.570	216.220
stdev	195.777	113.554	195.777	113.554	195.777	113.554
p (t-test)		0.816		0.816		0.816
min	14.300	93.100	14.300	93.100	14.300	93.100
max	813.000	364.000	813.000	364.000	813.000	364.000
n (Samp)	20	5	20	5	20	5
n (Pat)	20	5	20	5	20	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	233.500	129.000	233.500	129.000	233.500	129.000
average	366.466	182.612	366.466	182.612	366.466	182.612
stdev	380.110	155.525	380.110	155.525	380.110	155.525
p (t-test)		0.059		0.059		0.059
min	11.400	30.000	11.400	30.000	11.400	30.000
max	1610.000	519.000	1610.000	519.000	1610.000	519.000
n (Samp)	44	17	44	17	44	17
n (Pat)	44	17	44	17	44	17

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.41	0.070	54	22	0.193
24 hours	0.41	0.070	54	22	0.193
48 hours	0.41	0.070	54	22	0.193

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.64	0.148	20	5	0.343
24 hours	0.64	0.148	20	5	0.343
48 hours	0.64	0.148	20	5	0.343

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.37	0.076	44	17	0.078
24 hours	0.37	0.076	44	17	0.078
48 hours	0.37	0.076	44	17	0.078

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	88	73%	33%	1			
	64.5	82%	15%	2	1.9	0.5	7.0
	34.7	91%	6%	3	4.8	1.5	15.8

Fig. 3 - 17

	357	18%	70%	4	1.9	0.5	7.0
	510	5%	81%				
	785	0%	91%				
24 hours	88	73%	33%	1			
	64.5	82%	15%	2	1.9	0.5	7.0
	34.7	91%	6%	3	4.8	1.5	15.8
	357	18%	70%	4	1.9	0.5	7.0
	510	5%	81%				
	785	0%	91%				
48 hours	88	73%	33%	1			
	64.5	82%	15%	2	1.9	0.5	7.0
	34.7	91%	6%	3	4.8	1.5	15.8
	357	18%	70%	4	1.9	0.5	7.0
	510	5%	81%				
	785	0%	91%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	88	71%	30%	1			
	63.5	82%	11%	2	1.8	0.3	12.1
	30	94%	5%	3	6.1	1.2	31.7
	446	12%	70%	4	3.5	0.6	19.3
	591	0%	82%				
	785	0%	91%				
24 hours	88	71%	30%	1			
	63.5	82%	11%	2	1.8	0.3	12.1
	30	94%	5%	3	6.1	1.2	31.7
	446	12%	70%	4	3.5	0.6	19.3
	591	0%	82%				
	785	0%	91%				
48 hours	88	71%	30%	1			
	63.5	82%	11%	2	1.8	0.3	12.1
	30	94%	5%	3	6.1	1.2	31.7
	446	12%	70%	4	3.5	0.6	19.3
	591	0%	82%				
	785	0%	91%				

Fig. 3 - 18

Aspartate aminotransferase, cytoplasmic

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	8.305	12.500	8.305	12.550	8.305	12.950
average	10.627	13.354	10.627	13.691	10.627	15.835
stdev	12.621	9.996	12.621	10.223	12.621	12.149
p (t-test)		0.398		0.357		0.214
min	0.527	1.430	0.527	1.430	0.527	0.974
max	104.000	41.400	104.000	41.400	104.000	41.400
n (Samp)	104	17	104	16	104	10
n (Pat)	104	17	104	16	104	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	8.610	13.000	8.610	13.000	8.610	13.400
average	11.629	15.518	11.629	15.518	11.629	17.396
stdev	15.749	10.878	15.749	10.878	15.749	13.831
p (t-test)		0.491		0.491		0.420
min	0.527	6.690	0.527	6.690	0.527	5.980
max	142.000	41.400	142.000	41.400	142.000	41.400
n (Samp)	170	8	170	8	170	5
n (Pat)	170	8	170	8	170	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	7.730	11.400	7.730	11.950	7.730	12.500
average	9.109	11.735	9.109	12.111	9.109	13.939
stdev	7.647	8.426	7.647	8.783	7.647	9.544
p (t-test)		0.292		0.250		0.118
min	0.527	1.430	0.527	1.430	0.527	0.974
max	39.200	30.800	39.200	30.800	39.200	30.800
n (Samp)	85	11	85	10	85	7
n (Pat)	85	11	85	10	85	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.63	0.077	104	17	0.095
24 hours	0.64	0.079	104	16	0.080
48 hours	0.66	0.098	104	10	0.091

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.71	0.105	170	8	0.051
24 hours	0.71	0.105	170	8	0.051
48 hours	0.71	0.132	170	5	0.112

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.60	0.095	85	11	0.271
24 hours	0.61	0.099	85	10	0.251
48 hours	0.66	0.116	85	7	0.161

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	7.73	71%	47%	1			
	6.44	82%	38%	2	1.0	0.2	4.3
	3.91	94%	26%	3	1.4	0.4	5.0
	12.1	53%	71%	4	2.6	0.9	7.8
	14.2	35%	81%				
	20.8	12%	90%				

Fig. 4 - 1

24 hours	6.6	75%	38%	1			
	6.44	81%	38%	2	0.6	0.1	3.8
	3.91	94%	26%	3	1.4	0.4	5.0
	12.1	56%	71%	4	2.7	0.9	8.2
	14.2	38%	81%				
	20.8	13%	90%				
48 hours	11.3	70%	68%	1			
	6.44	80%	38%	2	2.0	0.1	43.7
	5.92	90%	33%	3	2.1	0.1	45.6
	12.1	60%	71%	4	5.6	0.5	69.0
	14.2	40%	81%				
	20.8	20%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	6.44	73%	40%	1			
	3.95	82%	28%	2	3.3	0.2	53.6
	3.91	91%	28%	3	3.3	0.2	53.6
	11.8	45%	71%	4	4.6	0.3	64.0
	13.8	36%	80%				
	20.5	9%	91%				
24 hours	6.44	70%	40%	1			
	3.95	80%	28%	2	3.1	0.2	51.5
	3.91	90%	28%	3	2.0	0.1	45.2
	11.8	50%	71%	4	4.4	0.3	61.5
	13.8	40%	80%				
	20.5	10%	91%				
48 hours	10.2	71%	69%	1			
	6.44	86%	40%	2	1.0	0.0	60.2
	0.968	100%	11%	3	2.1	0.1	47.6
	11.8	57%	71%	4	3.3	0.2	54.3
	13.8	43%	80%				
	20.5	14%	91%				

Fig. 4 - 2

CD40

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	34.100	61.000	34.100	58.700	34.100	59.500
average	54.583	93.427	54.583	84.985	54.583	72.793
stdev	59.803	77.753	59.803	73.900	59.803	52.113
p (t-test)		0.019		0.069		0.355
min	2.560	8.250	2.560	8.250	2.560	4.430
max	326.000	243.000	326.000	243.000	326.000	143.000
n (Samp)	104	17	104	16	104	10
n (Pat)	104	17	104	16	104	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	46.500	59.500	46.500	59.500	46.500	58.000
average	61.685	101.394	61.685	100.181	61.685	62.646
stdev	59.651	87.642	59.651	88.719	59.651	50.302
p (t-test)		0.074		0.083		0.972
min	2.410	8.250	2.410	8.250	2.410	4.430
max	326.000	243.000	326.000	243.000	326.000	143.000
n (Samp)	170	8	170	8	170	5
n (Pat)	170	8	170	8	170	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	32.800	61.000	32.800	57.150	32.800	61.000
average	44.141	80.446	44.141	66.611	44.141	74.643
stdev	35.511	66.200	35.511	51.240	35.511	49.323
p (t-test)		0.006		0.075		0.037
min	2.560	8.410	2.560	8.410	2.560	16.700
max	174.000	239.000	174.000	163.000	174.000	137.000
n (Samp)	85	11	85	10	85	7
n (Pat)	85	11	85	10	85	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.68	0.076	104	17	0.017
24 hours	0.63	0.079	104	16	0.113
48 hours	0.62	0.099	104	10	0.223

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.64	0.108	170	8	0.196
24 hours	0.62	0.108	170	8	0.271
48 hours	0.54	0.134	170	5	0.746

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.70	0.092	85	11	0.027
24 hours	0.63	0.099	85	10	0.188
48 hours	0.68	0.115	85	7	0.114

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	55.3	71%	67%	1			
	36.5	82%	55%	2	0.5	0.0	10.5
	8.37	94%	10%	3	5.1	1.3	20.3

Fig. 4 - 3

	58	59%	70%	4	3.4	0.8	14.4
	77.5	35%	81%				
	119	29%	90%				
24 hours	27.3	75%	36%	1			
	21.3	81%	27%	2	0.6	0.1	3.8
	8.37	94%	10%	3	1.8	0.5	6.0
	58	50%	70%	4	2.3	0.7	7.0
	77.5	38%	81%				
	119	31%	90%				
48 hours	51.8	70%	65%	1			
	21.3	80%	27%	2	0.5	0.0	10.2
	16	90%	21%	3	1.6	0.3	9.3
	58	50%	70%	4	2.1	0.4	10.6
	77.5	40%	81%				
	119	30%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	45.9	75%	50%	1			
	36.5	88%	44%	2	2.0	0.1	41.4
	8.06	100%	7%	3	2.0	0.1	42.5
	71.2	38%	70%	4	3.1	0.2	46.0
	88.8	38%	80%				
	119	38%	90%				
24 hours	45.9	75%	50%	1			
	27.3	88%	27%	2	2.0	0.1	41.4
	8.06	100%	7%	3	2.0	0.1	42.5
	71.2	38%	70%	4	3.1	0.2	46.0
	88.8	38%	80%				
	119	38%	90%				
48 hours	45.9	80%	50%	1			
	45.9	80%	50%	2	1.0	0.0	54.0
	4.18	100%	3%	3	2.0	0.1	41.5
	71.2	20%	70%	4	1.0	0.0	54.0
	88.8	20%	80%				
	119	20%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	55.3	73%	71%	1			
	44.5	82%	64%	2	1.0	0.0	59.8
	21.3	91%	28%	3	4.6	0.3	64.0
	55.3	73%	71%	4	6.1	0.5	76.8
	64.1	36%	80%				
	88.8	27%	91%				
24 hours	44.5	70%	64%	1			
	21.3	80%	28%	2	0.5	0.0	10.3
	16.4	90%	21%	3	1.5	0.2	9.3
	55.3	50%	71%	4	2.1	0.4	11.1
	64.1	30%	80%				
	88.8	30%	91%				
48 hours	51.8	71%	68%	1			
	21.3	86%	28%	2	1.0	0.0	60.2
	16.4	100%	21%	3	2.1	0.1	47.6
	55.3	57%	71%	4	3.3	0.2	54.3
	64.1	43%	80%				
	88.8	43%	91%				

Fig. 4 - 4

CD40 Ligand

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.237	0.376	0.237	0.370	0.237	0.323
average	0.267	0.385	0.267	0.358	0.267	0.324
stdev	0.185	0.151	0.185	0.160	0.185	0.159
p (t-test)		0.014		0.064		0.353
min	0.011	0.095	0.011	0.088	0.011	0.063
max	0.869	0.640	0.869	0.640	0.869	0.562
n (Samp)	104	17	104	16	104	10
n (Pat)	104	17	104	16	104	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.269	0.405	0.269	0.405	0.269	0.376
average	0.289	0.405	0.289	0.404	0.289	0.342
stdev	0.191	0.165	0.191	0.167	0.191	0.162
p (t-test)		0.095		0.097		0.543
min	0.011	0.095	0.011	0.088	0.011	0.063
max	0.891	0.640	0.891	0.640	0.891	0.475
n (Samp)	170	8	170	8	170	5
n (Pat)	170	8	170	8	170	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.235	0.376	0.235	0.329	0.235	0.282
average	0.252	0.379	0.252	0.336	0.252	0.340
stdev	0.174	0.134	0.174	0.142	0.174	0.155
p (t-test)		0.022		0.146		0.199
min	0.011	0.165	0.011	0.165	0.011	0.167
max	0.659	0.562	0.659	0.562	0.659	0.562
n (Samp)	85	11	85	10	85	7
n (Pat)	85	11	85	10	85	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.70	0.075	104	17	0.006
24 hours	0.66	0.078	104	16	0.039
48 hours	0.61	0.099	104	10	0.286

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.69	0.106	170	8	0.080
24 hours	0.68	0.107	170	8	0.086
48 hours	0.58	0.136	170	5	0.533

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.73	0.090	85	11	0.012
24 hours	0.66	0.098	85	10	0.104
48 hours	0.66	0.116	85	7	0.170

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.35	71%	70%	1			
	0.26	82%	55%	2	2.1	0.1	45.0
	0.164	94%	39%	3	8.8	0.8	96.6

Fig. 4 - 5

	0.35	71%	70%	4	8.5	0.8	92.2
	0.456	35%	81%				
	0.531	24%	90%				
24 hours	0.26	75%	55%	1			
	0.176	81%	40%	2	3.2	0.2	50.6
	0.164	94%	39%	3	5.8	0.5	70.5
	0.35	56%	70%	4	8.8	0.8	96.6
	0.456	25%	81%				
	0.531	19%	90%				
48 hours	0.26	70%	55%	1			
	0.172	80%	40%	2	2.0	0.1	43.7
	0.164	90%	39%	3	3.2	0.2	51.4
	0.35	50%	70%	4	4.3	0.3	58.2
	0.456	20%	81%				
	0.531	10%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.361	75%	64%	1			
	0.301	88%	56%	2	0.0	0.0	na
	0.0916	100%	21%	3	4.3	0.3	54.8
	0.41	50%	70%	4	3.1	0.2	46.0
	0.487	25%	80%				
	0.536	25%	90%				
24 hours	0.361	75%	64%	1			
	0.301	88%	56%	2	0.0	0.0	na
	0.0874	100%	19%	3	4.3	0.3	54.8
	0.41	50%	70%	4	3.1	0.2	46.0
	0.487	25%	80%				
	0.536	25%	90%				
48 hours	0.361	80%	64%	1			
	0.361	80%	64%	2	0.0	0.0	na
	0.0606	100%	8%	3	3.1	0.2	46.1
	0.41	40%	70%	4	1.0	0.0	54.0
	0.487	0%	80%				
	0.536	0%	90%				

Fig. 4 - 6

CXCL16 (C-X-C Motif chemokine 16)

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.160	3.144	0.160	1.832	0.160	0.291
average	0.919	4.232	0.919	3.540	0.919	1.616
stdev	1.927	4.091	1.927	3.773	1.927	2.520
p (t-test)		0.000		0.000		0.290
min	0.000	0.005	0.000	0.005	0.000	0.005
max	10.210	10.538	10.210	9.861	10.210	7.568
n (Samp)	103	15	103	15	103	10
n (Pat)	103	15	103	15	103	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.210	6.398	0.210	6.398	0.210	3.144
average	1.111	5.661	1.111	5.576	1.111	3.294
stdev	2.180	3.694	2.180	3.572	2.180	2.813
p (t-test)		0.000		0.000		0.030
min	0.000	0.005	0.000	0.005	0.000	0.005
max	10.210	10.538	10.210	9.861	10.210	7.568
n (Samp)	167	8	167	8	167	5
n (Pat)	167	8	167	8	167	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.157	0.715	0.157	0.393	0.157	0.189
average	0.830	2.575	0.830	1.496	0.830	0.667
stdev	1.628	3.616	1.628	2.300	1.628	1.118
p (t-test)		0.010		0.266		0.796
min	0.000	0.021	0.000	0.021	0.000	0.021
max	9.383	10.098	9.383	6.964	9.383	3.144
n (Samp)	84	9	84	9	84	7
n (Pat)	84	9	84	9	84	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.71	0.078	103	15	0.006
24 hours	0.69	0.080	103	15	0.017
48 hours	0.56	0.098	103	10	0.563

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.82	0.093	167	8	0.001
24 hours	0.82	0.093	167	8	0.001
48 hours	0.72	0.131	167	5	0.096

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.65	0.104	84	9	0.146
24 hours	0.61	0.104	84	9	0.299
48 hours	0.52	0.115	84	7	0.883

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.18261	73%	52%	1			
	0.16002	80%	50%	2	0.6	0.1	3.7
	0.01984	93%	12%	3	0.3	0.0	4.9

Fig. 4 - 7

	0.53464	67%	71%	4	3.7	1.3	10.5
	1.04015	60%	81%				
	3.14297	53%	90%				
24 hours	0.18261	73%	52%	1			
	0.16002	80%	50%	2	0.6	0.1	3.7
	0.01984	93%	12%	3	0.6	0.1	3.8
	0.53464	60%	71%	4	3.2	1.1	9.1
	1.04015	53%	81%				
	3.14297	47%	90%				
48 hours	0.16002	70%	50%	1			
	0.03878	80%	19%	2	0.3	0.0	4.9
	0.01984	90%	12%	3	1.0	0.2	4.3
	0.53464	40%	71%	4	1.0	0.2	4.1
	1.04015	30%	81%				
	3.14297	30%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	3.14297	75%	88%	1			
	1.81572	88%	84%	2	0.0	0.0	na
	0.00024	100%	1%	3	0.0	0.0	na
	0.57229	88%	70%	4	7.9	0.8	82.5
	1.25962	88%	80%				
	3.47902	63%	90%				
24 hours	3.14297	75%	88%	1			
	1.81572	88%	84%	2	0.0	0.0	na
	0.00024	100%	1%	3	0.0	0.0	na
	0.57229	88%	70%	4	7.9	0.8	82.5
	1.25962	88%	80%				
	3.47902	63%	90%				
48 hours	1.81572	80%	84%	1			
	1.81572	80%	84%	2	0.0	0.0	na
	0.00024	100%	1%	3	0.0	0.0	na
	0.57229	80%	70%	4	4.3	0.3	55.0
	1.25962	80%	80%				
	3.47902	40%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.16002	78%	51%	1			
	0.03878	89%	20%	2	0.5	0.0	10.8
	0.01984	100%	10%	3	1.0	0.1	8.6
	0.53464	56%	70%	4	2.1	0.4	11.1
	1.1193	44%	81%				
	2.0393	33%	90%				
24 hours	0.16002	78%	51%	1			
	0.03878	89%	20%	2	0.5	0.0	10.8
	0.01984	100%	10%	3	1.6	0.3	9.8
	0.53464	44%	70%	4	1.5	0.2	9.3
	1.1193	33%	81%				
	2.0393	22%	90%				
48 hours	0.16002	71%	51%	1			
	0.03878	86%	20%	2	0.0	0.0	na
	0.01984	100%	10%	3	2.1	0.4	11.2
	0.53464	29%	70%	4	0.5	0.0	10.4
	1.1193	14%	81%				
	2.0393	14%	90%				

Fig. 4 - 8

EN-RAGE

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.148	5.127	1.148	3.631	1.148	10.904
average	7.744	29.048	7.744	28.549	7.744	38.322
stdev	23.908	46.593	23.908	46.896	23.908	55.130
p (t-test)		0.011		0.014		0.003
min	0.002	0.065	0.002	0.065	0.002	0.065
max	197.971	150.844	197.971	150.844	197.971	150.844
n (Samp)	99	12	99	12	99	8
n (Pat)	99	12	99	12	99	8

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.648	3.635	1.648	3.494	1.648	2.579
average	14.609	5.509	14.609	5.157	14.609	5.852
stdev	60.292	6.507	60.292	6.759	60.292	8.350
p (t-test)		0.713		0.702		0.773
min	0.002	0.065	0.002	0.065	0.002	0.065
max	675.017	18.184	675.017	18.184	675.017	18.184
n (Samp)	160	6	160	6	160	4
n (Pat)	160	6	160	6	160	4

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.257	24.342	1.257	24.342	1.257	28.751
average	9.172	42.388	9.172	41.904	9.172	50.482
stdev	25.822	52.912	25.822	53.314	25.822	59.533
p (t-test)		0.002		0.003		0.001
min	0.002	0.930	0.002	0.930	0.002	0.621
max	197.971	150.844	197.971	150.844	197.971	150.844
n (Samp)	84	8	84	8	84	6
n (Pat)	84	8	84	8	84	6

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.74	0.085	99	12	0.004
24 hours	0.68	0.089	99	12	0.045
48 hours	0.70	0.107	99	8	0.058

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.58	0.124	160	6	0.503
24 hours	0.50	0.120	160	6	0.993
48 hours	0.50	0.147	160	4	0.975

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.82	0.093	84	8	0.001
24 hours	0.79	0.098	84	8	0.003
48 hours	0.79	0.112	84	6	0.009

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	2.3998	75%	72%	1			
	2.02601	83%	67%	2	1.0	0.0	56.3
	0.92777	92%	43%	3	3.1	0.2	49.6

Fig. 4 - 9

	2.3998	75%	72%	4	8.7	0.8	96.4
	3.89368	58%	81%				
	21.6311	33%	91%				
24 hours	1.50846	75%	60%	1			
	0.92777	83%	43%	2	0.5	0.0	10.2
	0.28358	92%	16%	3	1.5	0.3	9.0
	2.3998	58%	72%	4	3.4	0.8	14.9
	3.89368	50%	81%				
	21.6311	33%	91%				
48 hours	2.3998	75%	72%	1			
	0.59513	88%	29%	2	1.0	0.0	56.5
	0.00184	100%	1%	3	2.0	0.1	44.3
	2.3998	75%	72%	4	4.3	0.3	59.3
	3.89368	50%	81%				
	21.6311	38%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	2.06204	83%	56%	1			
	2.06204	83%	56%	2	0.0	0.0	na
	0.00184	100%	1%	3	4.3	0.3	55.5
	3.95805	50%	70%	4	1.0	0.0	54.2
	7.35633	17%	80%				
	30.5	0%	91%				
24 hours	0.28358	83%	11%	1			
	0.28358	83%	11%	2	0.0	0.0	na
	0.00184	100%	1%	3	1.5	0.3	8.7
	3.95805	50%	70%	4	0.5	0.0	9.9
	7.35633	17%	80%				
	30.5	0%	91%				
48 hours	1.50846	75%	48%	1			
	0.00184	100%	1%	2	1.0	0.0	55.6
	0.00184	100%	1%	3	1.0	0.0	55.6
	3.95805	25%	70%	4	1.0	0.0	55.6
	7.35633	25%	80%				
	30.5	0%	91%				

Fig. 4 - 10

Eotaxin

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	34.900	95.300	34.900	67.300	34.900	55.550
average	47.658	117.159	47.658	112.206	47.658	85.390
stdev	35.799	81.240	35.799	84.794	35.799	92.433
p (t-test)		0.000		0.000		0.010
min	5.080	33.700	5.080	30.100	5.080	27.200
max	185.000	333.000	185.000	333.000	185.000	333.000
n (Samp)	104	17	104	16	104	10
n (Pat)	104	17	104	16	104	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	42.900	154.000	42.900	153.500	42.900	128.000
average	54.268	161.063	54.268	152.863	54.268	149.340
stdev	41.819	92.895	41.819	98.835	41.819	120.457
p (t-test)		0.000		0.000		0.000
min	5.080	40.000	5.080	40.000	5.080	27.200
max	270.000	333.000	270.000	333.000	270.000	333.000
n (Samp)	170	8	170	8	170	5
n (Pat)	170	8	170	8	170	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	35.100	69.100	35.100	65.450	35.100	49.300
average	48.520	93.109	48.520	89.340	48.520	61.171
stdev	36.504	54.112	36.504	55.574	36.504	35.815
p (t-test)		0.001		0.002		0.380
min	7.220	33.700	7.220	30.100	7.220	28.300
max	185.000	193.000	185.000	193.000	185.000	128.000
n (Samp)	85	11	85	10	85	7
n (Pat)	85	11	85	10	85	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.83	0.064	104	17	0.000
24 hours	0.80	0.069	104	16	0.000
48 hours	0.67	0.097	104	10	0.073

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.88	0.080	170	8	0.000
24 hours	0.85	0.087	170	8	0.000
48 hours	0.78	0.123	170	5	0.021

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.79	0.083	85	11	0.000
24 hours	0.77	0.090	85	10	0.003
48 hours	0.65	0.117	85	7	0.192

Fig. 4 - 11

E-selectin

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.148	0.755	0.148	0.755	0.148	0.496
average	0.273	1.217	0.273	1.217	0.273	0.872
stdev	0.311	1.507	0.311	1.507	0.311	0.931
p (t-test)		0.000		0.000		0.000
min	0.000	0.000	0.000	0.000	0.000	0.000
max	1.605	5.381	1.605	5.381	1.605	2.323
n (Samp)	99	12	99	12	99	8
n (Pat)	99	12	99	12	99	8

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.212	0.755	0.212	0.755	0.212	0.826
average	0.428	0.757	0.428	0.757	0.428	0.808
stdev	0.689	0.509	0.689	0.509	0.689	0.646
p (t-test)		0.250		0.250		0.278
min	0.000	0.000	0.000	0.000	0.000	0.000
max	5.381	1.579	5.381	1.579	5.381	1.579
n (Samp)	160	6	160	6	160	4
n (Pat)	160	6	160	6	160	4

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.146	1.227	0.146	1.227	0.146	0.898
average	0.281	1.565	0.281	1.565	0.281	1.033
stdev	0.358	1.760	0.358	1.760	0.358	1.014
p (t-test)		0.000		0.000		0.000
min	0.000	0.023	0.000	0.023	0.000	0.023
max	2.158	5.381	2.158	5.381	2.158	2.323
n (Samp)	84	8	84	8	84	6
n (Pat)	84	8	84	8	84	6

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.75	0.084	99	12	0.003
24 hours	0.75	0.084	99	12	0.003
48 hours	0.65	0.109	99	8	0.172

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.74	0.118	160	6	0.040
24 hours	0.74	0.118	160	6	0.040
48 hours	0.69	0.149	160	4	0.203

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.79	0.098	84	8	0.003
24 hours	0.79	0.098	84	8	0.003
48 hours	0.71	0.123	84	6	0.092

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.22403	75%	63%	1			
	0.21237	83%	61%	2	0.0	0.0	na
	0.01715	92%	11%	3	1.0	0.1	8.0
	0.29473	67%	71%	4	5.0	1.2	20.3
	0.46344	67%	81%				

Fig. 4 - 12

	0.69543	58%	91%				
24 hours	0.22403	75%	63%	1			
	0.21237	83%	61%	2	0.0	0.0	na
	0.01715	92%	11%	3	1.0	0.1	8.0
	0.29473	67%	71%	4	5.0	1.2	20.3
	0.46344	67%	81%				
	0.69543	58%	91%				
48 hours	0.15842	75%	52%	1			
	0.01715	88%	11%	2	0.0	0.0	na
	0	100%	0%	3	1.0	0.1	8.0
	0.29473	50%	71%	4	2.1	0.4	10.7
	0.46344	50%	81%				
	0.69543	50%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.56592	83%	82%	1			
	0.56592	83%	82%	2	0.0	0.0	na
	0	100%	0%	3	0.0	0.0	na
	0.38703	83%	70%	4	5.4	0.5	62.9
	0.50393	83%	80%				
	0.86208	33%	90%				
24 hours	0.56592	83%	82%	1			
	0.56592	83%	82%	2	0.0	0.0	na
	0	100%	0%	3	0.0	0.0	na
	0.38703	83%	70%	4	5.4	0.5	62.9
	0.50393	83%	80%				
	0.86208	33%	90%				
48 hours	0.75187	75%	89%	1			
	0	100%	0%	2	0.0	0.0	na
	0	100%	0%	3	0.0	0.0	na
	0.38703	75%	70%	4	3.2	0.2	47.6
	0.50393	75%	80%				
	0.86208	50%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.22403	75%	67%	1			
	0.21237	88%	64%	2	0.0	0.0	na
	0.01302	100%	10%	3	2.1	0.1	47.6
	0.25913	63%	70%	4	6.1	0.5	78.3
	0.46527	63%	81%				
	0.66092	63%	90%				
24 hours	0.22403	75%	67%	1			
	0.21237	88%	64%	2	0.0	0.0	na
	0.01302	100%	10%	3	2.1	0.1	47.6
	0.25913	63%	70%	4	6.1	0.5	78.3
	0.46527	63%	81%				
	0.66092	63%	90%				
48 hours	0.15842	83%	54%	1			
	0.15842	83%	54%	2	0.0	0.0	na
	0.01302	100%	10%	3	2.1	0.1	48.1
	0.25913	50%	70%	4	3.2	0.2	52.0
	0.46527	50%	81%				
	0.66092	50%	90%				

Fig. 4 - 13

Fibronectin

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	22.340	105.568	22.340	105.568	22.340	79.237
average	88.644	203.524	88.644	190.977	88.644	78.598
stdev	172.416	234.580	172.416	229.924	172.416	43.536
p (t-test)		0.039		0.064		0.870
min	0.276	0.040	0.276	0.040	0.276	0.040
max	1020.452	810.740	1020.452	810.740	1020.452	125.995
n (Samp)	99	12	99	12	99	8
n (Pat)	99	12	99	12	99	8

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	31.058	105.568	31.058	105.568	31.058	105.568
average	110.031	162.901	110.031	162.901	110.031	103.036
stdev	231.070	164.581	231.070	164.581	231.070	83.043
p (t-test)		0.580		0.580		0.952
min	0.276	0.040	0.276	0.040	0.276	0.040
max	2177.715	383.874	2177.715	383.874	2177.715	200.967
n (Samp)	160	6	160	6	160	4
n (Pat)	160	6	160	6	160	4

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	24.434	123.504	24.434	123.504	24.434	91.823
average	104.482	242.180	104.482	223.358	104.482	89.770
stdev	184.561	260.969	184.561	257.360	184.561	35.256
p (t-test)		0.055		0.096		0.847
min	0.000	42.703	0.000	42.703	0.000	42.703
max	1020.452	810.740	1020.452	810.740	1020.452	125.995
n (Samp)	84	8	84	8	84	6
n (Pat)	84	8	84	8	84	6

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.74	0.086	99	12	0.006
24 hours	0.73	0.086	99	12	0.008
48 hours	0.66	0.109	99	8	0.140

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.64	0.124	160	6	0.269
24 hours	0.64	0.124	160	6	0.269
48 hours	0.58	0.151	160	4	0.620

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.79	0.099	84	8	0.004
24 hours	0.77	0.100	84	8	0.007
48 hours	0.70	0.123	84	6	0.096

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	54.8878	75%	72%	1			
	40.343	83%	65%	2	0.0	0.0	na
	29.5388	92%	58%	3	5.7	0.5	69.7
	52.5309	75%	71%	4	7.1	0.6	82.3
	107.409	50%	81%				

Fig. 4 - 14

	250	33%	91%				
24 hours	54.8878	75%	72%	1			
	40.343	83%	65%	2	0.0	0.0	na
	29.5388	92%	58%	3	5.7	0.5	69.7
	52.5309	75%	71%	4	7.1	0.6	82.3
	107.409	50%	81%				
	250	25%	91%				
48 hours	54.8878	75%	72%	1			
	40.343	88%	65%	2	0.0	0.0	na
	0	100%	0%	3	4.3	0.3	59.3
	52.5309	75%	71%	4	3.1	0.2	50.0
	107.409	38%	81%				
	250	0%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	30.1485	83%	50%	1			
	30.1485	83%	50%	2	1.0	0.0	54.2
	0	100%	0%	3	1.0	0.0	55.6
	85.4884	67%	70%	4	3.1	0.2	46.4
	137.292	33%	80%				
	250	33%	90%				
24 hours	30.1485	83%	50%	1			
	30.1485	83%	50%	2	1.0	0.0	54.2
	0	100%	0%	3	1.0	0.0	55.6
	85.4884	67%	70%	4	3.1	0.2	46.4
	137.292	33%	80%				
	250	33%	90%				
48 hours	85.4884	75%	70%	1			
	0	100%	0%	2	0.0	0.0	na
	0	100%	0%	3	1.0	0.0	55.6
	85.4884	75%	70%	4	2.1	0.1	42.9
	137.292	25%	80%				
	250	0%	90%				

Fig. 4 - 15

Granulocyte colony-stimulating factor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	31.900	85.300	31.900	87.700	31.900	77.500
average	59.293	468.006	59.293	490.544	59.293	182.334
stdev	89.020	917.287	89.020	942.638	89.020	327.238
p (t-test)		0.000		0.000		0.004
min	1.020	12.400	1.020	12.400	1.020	8.040
max	521.000	3010.000	521.000	3010.000	521.000	1090.000
n (Samp)	104	17	104	16	104	10
n (Pat)	104	17	104	16	104	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	37.350	122.150	37.350	122.150	37.350	85.300
average	1074.646	780.338	1074.646	780.338	1074.646	665.408
stdev	9479.458	1255.939	9479.458	1255.939	9479.458	1311.695
p (t-test)		0.930		0.930		0.923
min	0.879	12.400	0.879	12.400	0.879	8.040
max	103844.000	3010.000	103844.000	3010.000	103844.000	3010.000
n (Samp)	170	8	170	8	170	5
n (Pat)	170	8	170	8	170	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	30.600	69.700	30.600	65.900	30.600	69.700
average	77.244	435.736	77.244	468.570	77.244	225.143
stdev	193.995	908.267	193.995	950.726	193.995	389.516
p (t-test)		0.002		0.001		0.080
min	1.020	30.400	1.020	17.700	1.020	17.700
max	1610.000	3010.000	1610.000	3010.000	1610.000	1090.000
n (Samp)	85	11	85	10	85	7
n (Pat)	85	11	85	10	85	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.77	0.070	104	17	0.000
24 hours	0.74	0.074	104	16	0.001
48 hours	0.67	0.097	104	10	0.075

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.80	0.096	170	8	0.002
24 hours	0.80	0.096	170	8	0.002
48 hours	0.71	0.132	170	5	0.103

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.77	0.086	85	11	0.001
24 hours	0.72	0.095	85	10	0.019
48 hours	0.70	0.115	85	7	0.087

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	58.9	71%	76%	1			
	40.4	82%	62%	2	2.1	0.1	45.0
	29.9	94%	49%	3	4.5	0.3	59.6
	48.3	71%	70%	4	13.8	1.4	140.1

Fig. 4 - 16

	73.8	53%	81%				
	116	35%	90%				
24 hours	33.5	75%	53%	1			
	30.7	81%	50%	2	4.5	0.3	59.6
	17.1	94%	30%	3	2.1	0.1	45.0
	48.3	69%	70%	4	12.4	1.2	128.9
	73.8	56%	81%				
	116	38%	90%				
48 hours	29.9	70%	49%	1			
	28.8	80%	48%	2	3.1	0.2	49.3
	17.1	90%	30%	3	0.0	0.0	na
	48.3	60%	70%	4	7.0	0.6	81.2
	73.8	50%	81%				
	116	30%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	84.8	75%	82%	1			
	67.1	88%	75%	2	0.0	0.0	na
	12	100%	16%	3	1.0	0.0	55.2
	58.9	88%	70%	4	6.6	0.6	71.7
	82.6	75%	81%				
	141	50%	90%				
24 hours	84.8	75%	82%	1			
	67.1	88%	75%	2	0.0	0.0	na
	12	100%	16%	3	1.0	0.0	55.2
	58.9	88%	70%	4	6.6	0.6	71.7
	82.6	75%	81%				
	141	50%	90%				
48 hours	67.1	80%	75%	1			
	67.1	80%	75%	2	0.0	0.0	na
	7.82	100%	11%	3	1.0	0.0	54.0
	58.9	80%	70%	4	3.1	0.2	46.1
	82.6	60%	81%				
	141	40%	90%				

Fig. 4 - 17

Granulocyte-macrophage colony-stimulating factor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	9.120	9.940	9.120	9.730	9.120	9.730
average	9.505	12.998	9.505	13.185	9.505	13.136
stdev	5.741	10.912	5.741	10.375	5.741	10.913
p (t-test)		0.048		0.038		0.085
min	0.230	0.230	0.230	0.230	0.230	0.230
max	29.400	39.800	29.400	39.800	29.400	39.800
n (Samp)	104	17	104	16	104	10
n (Pat)	104	17	104	16	104	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	9.940	12.500	9.940	12.500	9.940	14.500
average	13.591	15.280	13.591	14.893	13.591	13.248
stdev	35.070	10.107	35.070	9.147	35.070	5.608
p (t-test)		0.892		0.917		0.983
min	0.230	5.140	0.230	5.140	0.230	5.140
max	453.000	37.500	453.000	34.400	453.000	19.600
n (Samp)	170	8	170	8	170	5
n (Pat)	170	8	170	8	170	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	9.520	9.520	9.520	9.075	9.520	9.520
average	9.780	11.247	9.780	11.682	9.780	12.874
stdev	5.523	10.599	5.523	10.498	5.523	12.611
p (t-test)		0.466		0.360		0.211
min	0.230	0.230	0.230	0.230	0.230	0.230
max	29.400	39.800	29.400	39.800	29.400	39.800
n (Samp)	85	11	85	10	85	7
n (Pat)	85	11	85	10	85	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.57	0.077	104	17	0.337
24 hours	0.58	0.080	104	16	0.306
48 hours	0.59	0.099	104	10	0.375

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.64	0.108	170	8	0.207
24 hours	0.64	0.108	170	8	0.207
48 hours	0.64	0.136	170	5	0.302

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.50	0.093	85	11	0.968
24 hours	0.49	0.097	85	10	0.942
48 hours	0.52	0.115	85	7	0.861

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	8.11	71%	43%	1			
	6.91	82%	33%	2	1.4	0.4	5.0
	0	100%	0%	3	1.4	0.4	5.0
	12.2	35%	71%	4	2.2	0.7	6.7

Fig. 4 - 18

	14.1	35%	81%				
	16.2	24%	90%				
24 hours	8.11	75%	43%	1			
	7.83	81%	37%	2	2.8	0.6	12.8
	5.01	94%	22%	3	2.2	0.4	10.8
	12.2	31%	71%	4	2.8	0.6	12.8
	14.1	31%	81%				
	16.2	25%	90%				
48 hours	8.2	70%	46%	1			
	7.4	80%	34%	2	1.0	0.1	7.9
	5.01	90%	22%	3	1.0	0.1	8.3
	12.2	40%	71%	4	2.1	0.4	10.6
	14.1	40%	81%				
	16.2	30%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	9.94	75%	51%	1			
	8.11	88%	39%	2	2.0	0.1	41.4
	5.01	100%	18%	3	1.0	0.0	55.2
	13.2	50%	71%	4	4.2	0.3	53.4
	15.2	38%	81%				
	19.8	13%	90%				
24 hours	9.94	75%	51%	1			
	8.11	88%	39%	2	2.0	0.1	41.4
	5.01	100%	18%	3	1.0	0.0	55.2
	13.2	50%	71%	4	4.2	0.3	53.4
	15.2	38%	81%				
	19.8	13%	90%				
48 hours	10.3	80%	52%	1			
	10.3	80%	52%	2	0.0	0.0	na
	5.01	100%	18%	3	2.0	0.1	41.5
	13.2	60%	71%	4	2.0	0.1	41.5
	15.2	40%	81%				
	19.8	0%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	7.83	73%	33%	1			
	6.91	82%	29%	2	1.0	0.2	4.5
	0	100%	0%	3	1.0	0.2	4.5
	12.5	27%	72%	4	0.6	0.1	3.9
	13.7	27%	80%				
	16.2	9%	92%				
24 hours	8.43	70%	41%	1			
	7.83	80%	33%	2	1.6	0.3	9.7
	6.91	90%	29%	3	2.2	0.4	11.5
	12.5	20%	72%	4	0.5	0.0	11.3
	13.7	20%	80%				
	16.2	10%	92%				
48 hours	8.43	71%	41%	1			
	7.4	86%	31%	2	3.3	0.2	54.3
	0	100%	0%	3	1.0	0.0	60.2
	12.5	29%	72%	4	2.1	0.1	47.6
	13.7	29%	80%				
	16.2	14%	92%				

Fig. 4 - 19

Heparin-binding growth factor 2

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	241.000	496.000	241.000	534.500	241.000	310.500
average	298.408	739.982	298.408	734.481	298.408	432.870
stdev	244.741	847.967	244.741	839.845	244.741	309.453
p (t-test)		0.000		0.000		0.108
min	0.392	84.700	0.392	84.700	0.392	84.700
max	1320.000	3610.000	1320.000	3610.000	1320.000	997.000
n (Samp)	104	17	104	16	104	10
n (Pat)	104	17	104	16	104	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	245.000	802.500	245.000	802.500	245.000	903.000
average	337.579	836.588	337.579	836.588	337.579	739.540
stdev	382.525	457.469	382.525	457.469	382.525	421.285
p (t-test)		0.000		0.000		0.022
min	0.392	84.700	0.392	84.700	0.392	84.700
max	3610.000	1680.000	3610.000	1680.000	3610.000	1140.000
n (Samp)	170	8	170	8	170	5
n (Pat)	170	8	170	8	170	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	225.000	307.000	225.000	310.500	225.000	307.000
average	289.233	778.545	289.233	773.600	289.233	395.429
stdev	242.056	1043.958	242.056	1053.004	242.056	285.819
p (t-test)		0.000		0.000		0.274
min	0.392	165.000	0.392	166.000	0.392	166.000
max	1320.000	3610.000	1320.000	3610.000	1320.000	997.000
n (Samp)	85	11	85	10	85	7
n (Pat)	85	11	85	10	85	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.73	0.073	104	17	0.002
24 hours	0.73	0.075	104	16	0.002
48 hours	0.65	0.098	104	10	0.130

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.83	0.091	170	8	0.000
24 hours	0.83	0.091	170	8	0.000
48 hours	0.76	0.126	170	5	0.038

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.72	0.091	85	11	0.016
24 hours	0.71	0.096	85	10	0.026
48 hours	0.67	0.116	85	7	0.150

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	285	71%	69%	1			
	218	82%	41%	2	1.0	0.1	8.2
	158	94%	21%	3	2.2	0.4	10.8
	295	65%	70%	4	5.7	1.5	22.2

Fig. 4 - 20

	348	53%	81%				
	501	47%	91%				
24 hours	285	75%	69%	1			
	208	81%	41%	2	1.0	0.1	8.2
	165	94%	22%	3	1.6	0.3	9.2
	295	69%	70%	4	6.0	1.5	23.4
	348	56%	81%				
	501	50%	91%				
48 hours	285	70%	69%	1			
	192	80%	29%	2	0.5	0.0	10.2
	165	90%	22%	3	1.6	0.3	9.3
	295	60%	70%	4	2.1	0.4	10.6
	348	40%	81%				
	501	30%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	691	75%	91%	1			
	522	88%	89%	2	0.0	0.0	na
	75.8	100%	8%	3	0.0	0.0	na
	307	88%	70%	4	7.9	0.8	82.0
	421	88%	80%				
	629	75%	90%				
24 hours	691	75%	91%	1			
	522	88%	89%	2	0.0	0.0	na
	75.8	100%	8%	3	0.0	0.0	na
	307	88%	70%	4	7.9	0.8	82.0
	421	88%	80%				
	629	75%	90%				
48 hours	522	80%	89%	1			
	522	80%	89%	2	0.0	0.0	na
	75.8	100%	8%	3	0.0	0.0	na
	307	80%	70%	4	4.2	0.3	53.6
	421	80%	80%				
	629	60%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	258	73%	62%	1			
	218	82%	47%	2	2.1	0.1	47.1
	208	91%	47%	3	3.3	0.2	53.6
	272	64%	71%	4	6.1	0.5	76.8
	323	36%	80%				
	492	36%	91%				
24 hours	285	70%	73%	1			
	208	80%	47%	2	2.0	0.1	45.2
	192	90%	32%	3	2.0	0.1	45.2
	272	70%	71%	4	5.8	0.5	73.7
	323	40%	80%				
	492	40%	91%				
48 hours	285	71%	73%	1			
	192	86%	32%	2	1.0	0.0	60.2
	165	100%	24%	3	2.1	0.1	47.6
	272	71%	71%	4	3.3	0.2	54.3
	323	29%	80%				
	492	29%	91%				

Fig. 4 - 21

Interleukin-1 receptor antagonist

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	5705.000	33900.000	5705.000	31750.000	5705.000	19765.000
average	30642.702	71077.765	30642.702	72423.875	30642.702	34942.100
stdev	89701.395	108638.515	89701.395	112085.320	89701.395	43174.851
p (t-test)		0.097		0.096		0.881
min	337.000	1560.000	337.000	1560.000	337.000	801.000
max	520726.000	439392.000	520726.000	439392.000	520726.000	127000.000
n (Samp)	104	17	104	16	104	10
n (Pat)	104	17	104	16	104	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	7360.000	32650.000	7360.000	32650.000	7360.000	29600.000
average	32869.000	104837.750	32869.000	104837.750	32869.000	38470.200
stdev	91427.456	149476.699	91427.456	149476.699	91427.456	46168.368
p (t-test)		0.037		0.037		0.892
min	207.000	1560.000	207.000	1560.000	207.000	801.000
max	598080.000	439392.000	598080.000	439392.000	598080.000	117000.000
n (Samp)	170	8	170	8	170	5
n (Pat)	170	8	170	8	170	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	5440.000	33900.000	5440.000	22850.000	5440.000	9930.000
average	30525.071	45079.091	30525.071	44633.000	30525.071	40474.286
stdev	89350.938	46703.999	89350.938	49321.134	89350.938	50609.035
p (t-test)		0.598		0.626		0.773
min	337.000	3360.000	337.000	3290.000	337.000	2980.000
max	520726.000	127000.000	520726.000	127000.000	520726.000	127000.000
n (Samp)	85	11	85	10	85	7
n (Pat)	85	11	85	10	85	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.76	0.071	104	17	0.000
24 hours	0.74	0.074	104	16	0.001
48 hours	0.65	0.098	104	10	0.131

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.76	0.101	170	8	0.011
24 hours	0.76	0.101	170	8	0.011
48 hours	0.65	0.135	170	5	0.255

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.75	0.088	85	11	0.004
24 hours	0.73	0.095	85	10	0.016
48 hours	0.67	0.116	85	7	0.133

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	11600	71%	67%	1			
	9110	82%	63%	2	2.1	0.1	45.0
	3270	94%	38%	3	3.2	0.2	50.6
	13200	65%	70%	4	16.0	1.6	159.7

Fig. 4 - 22

	17200	65%	81%				
	40400	35%	90%				
24 hours	9250	75%	63%	1			
	9110	81%	63%	2	2.1	0.1	45.0
	3270	94%	38%	3	3.2	0.2	50.6
	13200	63%	70%	4	14.5	1.4	147.8
	17200	63%	81%				
	40400	31%	90%				
48 hours	9110	70%	63%	1			
	3270	80%	38%	2	2.0	0.1	43.7
	2870	90%	32%	3	2.1	0.1	45.6
	13200	50%	70%	4	5.6	0.5	69.0
	17200	50%	81%				
	40400	20%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	19000	75%	76%	1			
	9110	88%	58%	2	0.0	0.0	na
	1520	100%	12%	3	2.0	0.1	42.5
	15500	75%	70%	4	5.4	0.5	62.1
	22400	63%	80%				
	42300	38%	90%				
24 hours	19000	75%	76%	1			
	9110	88%	58%	2	0.0	0.0	na
	1520	100%	12%	3	2.0	0.1	42.5
	15500	75%	70%	4	5.4	0.5	62.1
	22400	63%	80%				
	42300	38%	90%				
48 hours	9110	80%	58%	1			
	9110	80%	58%	2	0.0	0.0	na
	715	100%	4%	3	1.0	0.0	54.0
	15500	60%	70%	4	3.1	0.2	46.1
	22400	60%	80%				
	42300	20%	90%				

Fig. 4 - 23

Interleukin-1 beta

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.285	10.200	1.285	7.625	1.285	6.870
average	4.632	14.897	4.632	14.947	4.632	12.108
stdev	12.238	13.030	12.238	13.440	12.238	13.845
p (t-test)		0.002		0.002		0.071
min	0.006	0.513	0.006	0.366	0.006	0.006
max	109.000	38.200	109.000	38.200	109.000	38.200
n (Samp)	104	17	104	16	104	10
n (Pat)	104	17	104	16	104	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.625	7.625	1.625	7.240	1.625	7.130
average	10.950	10.388	10.950	9.940	10.950	6.361
stdev	54.876	9.563	54.876	9.635	54.876	3.556
p (t-test)		0.977		0.959		0.852
min	0.006	0.513	0.006	0.513	0.006	0.513
max	670.000	32.800	670.000	32.800	670.000	10.200
n (Samp)	170	8	170	8	170	5
n (Pat)	170	8	170	8	170	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.290	12.500	1.290	12.500	1.290	7.130
average	4.224	17.044	4.224	17.697	4.224	15.229
stdev	12.312	13.948	12.312	14.404	12.312	15.651
p (t-test)		0.002		0.002		0.028
min	0.006	0.539	0.006	0.366	0.006	0.006
max	109.000	38.200	109.000	38.200	109.000	38.200
n (Samp)	85	11	85	10	85	7
n (Pat)	85	11	85	10	85	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.82	0.065	104	17	0.000
24 hours	0.81	0.067	104	16	0.000
48 hours	0.73	0.093	104	10	0.012

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.76	0.101	170	8	0.010
24 hours	0.75	0.101	170	8	0.012
48 hours	0.69	0.134	170	5	0.165

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.84	0.076	85	11	0.000
24 hours	0.85	0.079	85	10	0.000
48 hours	0.78	0.106	85	7	0.007

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	6.97	71%	88%	1			
	5.8	82%	84%	2	0.0	0.0	na
	0.518	94%	17%	3	0.5	0.0	10.5

Fig. 4 - 24

	3.11	82%	73%	4	11.5	3.1	42.5
	4.1	82%	81%				
	8.67	53%	90%				
24 hours	6.59	75%	87%	1			
	5.8	81%	84%	2	0.0	0.0	na
	0.496	94%	16%	3	0.5	0.0	10.5
	3.11	88%	73%	4	10.7	2.9	39.9
	4.1	88%	81%				
	8.67	44%	90%				
48 hours	5.8	70%	84%	1			
	4.1	80%	81%	2	0.0	0.0	na
	0.496	90%	16%	3	0.0	0.0	na
	3.11	80%	73%	4	5.0	1.2	20.0
	4.1	80%	81%				
	8.67	30%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	6.97	75%	82%	1			
	6.59	88%	81%	2	0.0	0.0	na
	0.508	100%	15%	3	0.0	0.0	na
	3.14	88%	70%	4	7.9	0.8	82.0
	6.44	88%	80%				
	14.3	13%	90%				
24 hours	6.97	75%	82%	1			
	6.59	88%	81%	2	0.0	0.0	na
	0.508	100%	15%	3	0.0	0.0	na
	3.14	88%	70%	4	7.9	0.8	82.0
	6.44	88%	80%				
	14.3	13%	90%				
48 hours	6.59	80%	81%	1			
	6.59	80%	81%	2	0.0	0.0	na
	0.508	100%	15%	3	0.0	0.0	na
	3.14	80%	70%	4	4.2	0.3	53.6
	6.44	80%	80%				
	14.3	0%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	6.97	73%	87%	1			
	5.8	82%	84%	2	0.0	0.0	na
	2.03	91%	65%	3	1.0	0.0	59.8
	3.11	82%	72%	4	13.8	1.3	151.2
	4.04	82%	80%				
	7.68	64%	91%				
24 hours	6.97	70%	87%	1			
	5.8	80%	84%	2	0.0	0.0	na
	4.12	90%	81%	3	1.0	0.0	57.4
	3.11	90%	72%	4	11.0	1.0	123.3
	4.04	90%	80%				
	7.68	60%	91%				
48 hours	5.8	71%	84%	1			
	4.12	86%	81%	2	0.0	0.0	na
	0	100%	0%	3	0.0	0.0	na
	3.11	86%	72%	4	7.8	0.6	93.8
	4.04	86%	80%				
	7.68	43%	91%				

Fig. 4 - 25

Interleukin-10

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.765	2.020	1.765	1.985	1.765	2.545
average	3.561	8.180	3.561	8.668	3.561	2.177
stdev	18.712	26.263	18.712	27.043	18.712	1.269
p (t-test)		0.377		0.343		0.816
min	0.062	0.062	0.062	0.062	0.062	0.062
max	192.000	110.000	192.000	110.000	192.000	4.000
n (Samp)	104	17	104	16	104	10
n (Pat)	104	17	104	16	104	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.870	1.985	1.870	1.945	1.870	1.940
average	5.103	1.808	5.103	1.770	5.103	2.074
stdev	24.237	0.837	24.237	0.822	24.237	0.553
p (t-test)		0.702		0.699		0.781
min	0.062	0.062	0.062	0.062	0.062	1.350
max	230.000	2.710	230.000	2.710	230.000	2.710
n (Samp)	170	8	170	8	170	5
n (Pat)	170	8	170	8	170	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.910	2.540	1.910	2.545	1.910	2.550
average	4.052	11.680	4.052	12.842	4.052	2.185
stdev	20.680	32.635	20.680	34.159	20.680	1.529
p (t-test)		0.288		0.242		0.813
min	0.062	0.062	0.062	0.062	0.062	0.062
max	192.000	110.000	192.000	110.000	192.000	4.000
n (Samp)	85	11	85	10	85	7
n (Pat)	85	11	85	10	85	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.56	0.077	104	17	0.413
24 hours	0.58	0.080	104	16	0.287
48 hours	0.64	0.098	104	10	0.166

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.51	0.105	170	8	0.936
24 hours	0.50	0.105	170	8	0.983
48 hours	0.56	0.135	170	5	0.644

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.56	0.095	85	11	0.521
24 hours	0.60	0.099	85	10	0.293
48 hours	0.62	0.117	85	7	0.296

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1.32	71%	37%	1			
	0.0616	82%	25%	2	0.7	0.2	2.6
	0	100%	0%	3	1.0	0.3	3.1
	2.32	41%	70%	4	1.6	0.6	4.1

Fig. 4 - 26

	2.78	24%	82%				
	3.22	12%	90%				
24 hours	1.32	75%	37%	1			
	0.912	81%	25%	2	0.5	0.1	2.3
	0	100%	0%	3	1.0	0.3	3.1
	2.32	44%	70%	4	1.6	0.6	4.3
	2.78	25%	82%				
	3.22	13%	90%				
48 hours	1.93	70%	59%	1			
	1.82	80%	53%	2	0.0	0.0	na
	0	100%	0%	3	1.6	0.3	9.3
	2.32	60%	70%	4	2.7	0.6	12.5
	2.78	30%	82%				
	3.22	10%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1.57	75%	41%	1			
	1.32	88%	34%	2	2.0	0.1	41.4
	0	100%	0%	3	5.5	0.5	63.7
	2.54	13%	71%	4	0.0	0.0	na
	2.93	0%	80%				
	3.74	0%	91%				
24 hours	1.57	75%	41%	1			
	1.32	88%	34%	2	na	na	na
	0	100%	0%	3	na	na	na
	2.54	13%	71%	4	na	na	na
	2.93	0%	80%				
	3.74	0%	91%				
48 hours	1.82	80%	49%	1			
	1.82	80%	49%	2	na	na	na
	1.32	100%	34%	3	na	na	na
	2.54	20%	71%	4	na	na	na
	2.93	0%	80%				
	3.74	0%	91%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.912	73%	25%	1			
	0.0616	82%	25%	2	0.6	0.1	3.9
	0	100%	0%	3	0.6	0.1	3.9
	2.42	55%	71%	4	1.4	0.4	5.3
	2.82	36%	80%				
	3.22	18%	91%				
24 hours	1.32	70%	33%	1			
	0.912	80%	25%	2	1.0	0.1	8.1
	0.0616	90%	25%	3	1.0	0.1	8.1
	2.42	60%	71%	4	2.1	0.4	11.1
	2.82	40%	80%				
	3.22	20%	91%				
48 hours	2.51	71%	72%	1			
	0	100%	0%	2	0.0	0.0	na
	0	100%	0%	3	1.0	0.1	8.6
	2.42	71%	71%	4	1.6	0.3	9.8
	2.82	43%	80%				
	3.22	14%	91%				

Fig. 4 - 27

Interleukin-3

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.030	0.049	0.030	0.050	0.030	0.048
average	0.032	0.064	0.032	0.061	0.032	0.042
stdev	0.026	0.052	0.026	0.050	0.026	0.024
p (t-test)		0.000		0.000		0.203
min	0.001	0.006	0.001	0.006	0.001	0.006
max	0.128	0.227	0.128	0.227	0.128	0.077
n (Samp)	104	17	104	16	104	10
n (Pat)	104	17	104	16	104	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.035	0.066	0.035	0.066	0.035	0.061
average	0.037	0.069	0.037	0.062	0.037	0.058
stdev	0.033	0.037	0.033	0.022	0.033	0.020
p (t-test)		0.011		0.043		0.169
min	0.001	0.027	0.001	0.027	0.001	0.027
max	0.227	0.147	0.227	0.091	0.227	0.077
n (Samp)	170	8	170	8	170	5
n (Pat)	170	8	170	8	170	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.029	0.049	0.029	0.049	0.029	0.047
average	0.031	0.061	0.031	0.063	0.031	0.039
stdev	0.025	0.058	0.025	0.061	0.025	0.025
p (t-test)		0.002		0.002		0.424
min	0.001	0.006	0.001	0.006	0.001	0.006
max	0.128	0.227	0.128	0.227	0.128	0.077
n (Samp)	85	11	85	10	85	7
n (Pat)	85	11	85	10	85	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.75	0.071	104	17	0.000
24 hours	0.75	0.073	104	16	0.001
48 hours	0.66	0.098	104	10	0.108

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.77	0.099	170	8	0.007
24 hours	0.77	0.100	170	8	0.008
48 hours	0.76	0.127	170	5	0.045

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.72	0.091	85	11	0.013
24 hours	0.73	0.095	85	10	0.017
48 hours	0.62	0.117	85	7	0.303

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.0466	71%	75%	1			
	0.0321	82%	54%	2	2.1	0.1	45.0
	0.014	94%	34%	3	4.5	0.3	59.6
	0.0455	76%	71%	4	13.8	1.4	140.1
	0.0495	47%	81%				

Fig. 4 - 28

	0.0626	29%	90%				
24 hours	0.0466	75%	75%	1			
	0.0321	81%	54%	2	2.1	0.1	45.0
	0.014	94%	34%	3	4.5	0.3	59.6
	0.0455	75%	71%	4	12.4	1.2	128.9
	0.0495	50%	81%				
	0.0626	31%	90%				
48 hours	0.0315	70%	52%	1			
	0.0251	80%	41%	2	2.0	0.1	43.7
	0.00681	90%	27%	3	2.1	0.1	45.6
	0.0455	60%	71%	4	5.6	0.5	69.0
	0.0495	40%	81%				
	0.0626	20%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.0466	73%	73%	1			
	0.0463	82%	71%	2	1.0	0.0	59.8
	0.014	91%	35%	3	4.6	0.3	64.0
	0.0463	82%	71%	4	6.1	0.5	76.8
	0.0495	36%	80%				
	0.0626	18%	91%				
24 hours	0.0466	80%	73%	1			
	0.0466	80%	73%	2	1.0	0.0	57.4
	0.014	90%	35%	3	3.1	0.2	51.5
	0.0463	80%	71%	4	5.8	0.5	73.7
	0.0495	40%	80%				
	0.0626	20%	91%				
48 hours	0.0315	71%	56%	1			
	0.00681	86%	27%	2	1.0	0.0	60.2
	0.00616	100%	22%	3	2.1	0.1	47.6
	0.0463	57%	71%	4	3.3	0.2	54.3
	0.0495	29%	80%				
	0.0626	14%	91%				

Fig. 4 - 29

Myeloperoxidase

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1087.757	1814.853	1087.757	1814.853	1087.757	2374.882
average	1517.531	5244.497	1517.531	5211.500	1517.531	5368.282
stdev	1587.956	7706.197	1587.956	7725.839	1587.956	8287.124
p (t-test)		0.000		0.000		0.000
min	0.000	755.054	0.000	755.054	0.000	863.219
max	9348.967	25446.740	9348.967	25446.740	9348.967	25446.740
n (Samp)	99	12	99	12	99	8
n (Pat)	99	12	99	12	99	8

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1302.118	1443.616	1302.118	1267.337	1302.118	1814.853
average	2495.233	1542.545	2495.233	1476.552	2495.233	1821.109
stdev	4695.709	766.518	4695.709	815.742	4695.709	795.914
p (t-test)		0.621		0.597		0.775
min	0.000	755.054	0.000	755.054	0.000	863.219
max	40151.357	2791.511	40151.357	2791.511	40151.357	2791.511
n (Samp)	160	6	160	6	160	4
n (Pat)	160	6	160	6	160	4

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1092.221	3288.714	1092.221	3288.714	1092.221	3288.714
average	1770.249	7267.707	1770.249	7267.707	1770.249	6687.464
stdev	1947.791	8897.131	1947.791	8897.131	1947.791	9363.435
p (t-test)		0.000		0.000		0.000
min	0.000	923.333	0.000	923.333	0.000	923.333
max	10821.990	25446.740	10821.990	25446.740	10821.990	25446.740
n (Samp)	84	8	84	8	84	6
n (Pat)	84	8	84	8	84	6

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.71	0.088	99	12	0.017
24 hours	0.69	0.089	99	12	0.037
48 hours	0.74	0.104	99	8	0.021

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.50	0.120	160	6	0.979
24 hours	0.45	0.116	160	6	0.694
48 hours	0.58	0.151	160	4	0.592

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.79	0.099	84	8	0.004
24 hours	0.79	0.099	84	8	0.004
48 hours	0.77	0.116	84	6	0.020

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	841.799	83%	23%	1			
	841.799	83%	23%	2	2.1	0.1	43.9
	744.986	100%	19%	3	1.0	0.0	55.5
	1902.02	33%	70%	4	2.1	0.1	43.9

Fig. 4 - 30

	2875.83	0%	81%				
	3866.7	0%	90%				
24 hours	803.653	83%	21%	1			
	803.653	83%	21%	2	2.1	0.1	43.9
	744.986	100%	19%	3	0.0	0.0	na
	1902.02	33%	70%	4	3.2	0.2	48.8
	2875.83	0%	81%				
	3866.7	0%	90%				
48 hours	1540.62	75%	61%	1			
	841.799	100%	23%	2	0.0	0.0	na
	841.799	100%	23%	3	2.1	0.1	42.9
	1902.02	50%	70%	4	1.0	0.0	55.6
	2875.83	0%	81%				
	3866.7	0%	90%				

Fig. 4 - 31

Oxidized low-density lipoprotein receptor 1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	20.886	31.078	20.886	27.608	20.886	32.654
average	29.165	39.600	29.165	38.691	29.165	38.812
stdev	27.369	32.577	27.369	33.016	27.369	37.031
p (t-test)		0.224		0.268		0.353
min	0.150	4.511	0.150	4.511	0.150	4.511
max	148.195	121.257	148.195	121.257	148.195	121.257
n (Samp)	99	12	99	12	99	8
n (Pat)	99	12	99	12	99	8

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	27.978	37.780	27.978	37.780	27.978	61.731
average	39.150	51.898	39.150	50.079	39.150	62.307
stdev	35.731	41.918	35.731	43.270	35.731	49.944
p (t-test)		0.395		0.466		0.206
min	0.150	4.511	0.150	4.511	0.150	4.511
max	214.368	121.257	214.368	121.257	214.368	121.257
n (Samp)	160	6	160	6	160	4
n (Pat)	160	6	160	6	160	4

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	20.720	32.654	20.720	32.654	20.720	32.654
average	27.595	35.910	27.595	35.910	27.595	30.788
stdev	25.320	22.419	25.320	22.419	25.320	15.744
p (t-test)		0.373		0.373		0.762
min	0.150	6.860	0.150	6.860	0.150	6.860
max	134.298	79.995	134.298	79.995	134.298	46.568
n (Samp)	84	8	84	8	84	6
n (Pat)	84	8	84	8	84	6

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.63	0.091	99	12	0.167
24 hours	0.60	0.091	99	12	0.257
48 hours	0.58	0.110	99	8	0.451

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.61	0.125	160	6	0.369
24 hours	0.57	0.124	160	6	0.557
48 hours	0.64	0.152	160	4	0.343

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.65	0.110	84	8	0.170
24 hours	0.65	0.110	84	8	0.170

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	22.5228	75%	52%	1			
	22.1625	83%	52%	2	1.0	0.1	8.0
	6.43176	92%	13%	3	1.5	0.3	9.0
	32.0928	42%	71%	4	2.7	0.6	12.6
	42.9453	33%	81%				

Fig. 4 - 32

	64.4382	17%	91%				
24 hours	22.1625	75%	52%	1			
	18.3377	83%	41%	2	1.0	0.1	8.0
	6.43176	92%	13%	3	1.5	0.3	9.0
	32.0928	42%	71%	4	2.7	0.6	12.6
	42.9453	33%	81%				
	64.4382	17%	91%				
48 hours	22.1625	75%	52%	1			
	6.43176	88%	13%	2	0.0	0.0	na
	3.32291	100%	7%	3	1.0	0.1	8.0
	32.0928	50%	71%	4	2.1	0.4	10.7
	42.9453	38%	81%				
	64.4382	13%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	29.9079	83%	54%	1			
	29.9079	83%	54%	2	0.0	0.0	na
	4.23945	100%	5%	3	3.2	0.2	47.6
	45.0352	33%	70%	4	2.0	0.1	41.7
	60.4304	33%	80%				
	84.6671	17%	90%				
24 hours	18.3377	83%	31%	1			
	18.3377	83%	31%	2	1.0	0.0	54.2
	4.23945	100%	5%	3	2.1	0.1	42.9
	45.0352	33%	70%	4	2.0	0.1	41.7
	60.4304	33%	80%				
	84.6671	17%	90%				
48 hours	42.9453	75%	68%	1			
	4.23945	100%	5%	2	0.0	0.0	na
	4.23945	100%	5%	3	1.0	0.0	55.6
	45.0352	50%	70%	4	2.1	0.1	42.9
	60.4304	50%	80%				
	84.6671	25%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	22.5228	75%	52%	1			
	22.1625	88%	52%	2	1.0	0.0	60.2
	6.43176	100%	12%	3	2.1	0.1	47.6
	29.8385	50%	70%	4	4.6	0.3	65.0
	38.7783	50%	81%				
	61.2343	13%	90%				
24 hours	22.5228	75%	52%	1			
	22.1625	88%	52%	2	1.0	0.0	60.2
	6.43176	100%	12%	3	2.1	0.1	47.6
	29.8385	50%	70%	4	4.6	0.3	65.0
	38.7783	50%	81%				
	61.2343	13%	90%				
48 hours	22.1625	83%	52%	1			
	22.1625	83%	52%	2	0.0	0.0	na
	6.43176	100%	12%	3	2.1	0.1	48.1
	29.8385	50%	70%	4	3.2	0.2	52.0
	38.7783	50%	81%				
	61.2343	0%	90%				

Fig. 4 - 33

Pappalysin-1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.032	0.061	0.032	0.054	0.032	0.040
average	0.043	0.462	0.043	0.479	0.043	0.045
stdev	0.035	1.626	0.035	1.678	0.035	0.020
p (t-test)		0.008		0.008		0.863
min	0.003	0.017	0.003	0.017	0.003	0.011
max	0.193	6.770	0.193	6.770	0.193	0.080
n (Samp)	104	17	104	16	104	10
n (Pat)	104	17	104	16	104	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.040	0.058	0.040	0.056	0.040	0.046
average	0.088	0.067	0.088	0.066	0.088	0.044
stdev	0.517	0.036	0.517	0.036	0.517	0.020
p (t-test)		0.908		0.906		0.849
min	0.003	0.017	0.003	0.017	0.003	0.011
max	6.770	0.124	6.770	0.124	6.770	0.061
n (Samp)	170	8	170	8	170	5
n (Pat)	170	8	170	8	170	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.030	0.065	0.030	0.059	0.030	0.037
average	0.039	0.676	0.039	0.727	0.039	0.050
stdev	0.029	2.021	0.029	2.124	0.029	0.019
p (t-test)		0.003		0.002		0.341
min	0.003	0.035	0.003	0.031	0.003	0.031
max	0.142	6.770	0.142	6.770	0.142	0.080
n (Samp)	85	11	85	10	85	7
n (Pat)	85	11	85	10	85	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.75	0.072	104	17	0.000
24 hours	0.71	0.076	104	16	0.006
48 hours	0.59	0.099	104	10	0.347

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.68	0.107	170	8	0.086
24 hours	0.68	0.107	170	8	0.099
48 hours	0.54	0.134	170	5	0.792

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.80	0.083	85	11	0.000
24 hours	0.74	0.093	85	10	0.009
48 hours	0.67	0.116	85	7	0.133

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.0506	71%	70%	1			
	0.0433	82%	62%	2	2.1	0.1	45.0
	0.0334	94%	52%	3	7.3	0.6	82.8
	0.0506	71%	70%	4	10.1	1.0	106.6

Fig. 4 - 34

	0.0686	35%	81%				
	0.0822	29%	90%				
24 hours	0.0354	75%	52%	1			
	0.0353	81%	52%	2	4.5	0.3	59.6
	0.031	94%	50%	3	5.8	0.5	70.5
	0.0506	63%	70%	4	7.3	0.6	82.8
	0.0686	31%	81%				
	0.0822	25%	90%				
48 hours	0.0353	70%	52%	1			
	0.0334	80%	52%	2	2.0	0.1	43.7
	0.031	90%	50%	3	4.5	0.3	60.8
	0.0506	30%	70%	4	3.1	0.2	49.3
	0.0686	10%	81%				
	0.0822	0%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.0506	75%	64%	1			
	0.0441	88%	57%	2	0.0	0.0	na
	0.0164	100%	21%	3	4.3	0.3	54.8
	0.0564	50%	70%	4	3.1	0.2	46.0
	0.0695	25%	80%				
	0.104	25%	91%				
24 hours	0.0506	75%	64%	1			
	0.0441	88%	57%	2	0.0	0.0	na
	0.0164	100%	21%	3	4.3	0.3	54.8
	0.0564	50%	70%	4	3.1	0.2	46.0
	0.0695	25%	80%				
	0.104	25%	91%				
48 hours	0.0441	80%	57%	1			
	0.0441	80%	57%	2	0.0	0.0	na
	0.0101	100%	9%	3	4.2	0.3	53.6
	0.0564	40%	70%	4	0.0	0.0	na
	0.0695	0%	80%				
	0.104	0%	91%				

Fig. 4 - 35

P-selectin glycoprotein ligand 1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	2.554	1.185	2.554	1.185	2.554	1.447
average	5.234	2.324	5.234	2.218	5.234	2.115
stdev	8.867	2.495	8.867	2.581	8.867	2.063
p (t-test)		0.226		0.210		0.271
min	0.001	0.018	0.001	0.016	0.001	0.018
max	67.069	7.263	67.069	7.263	67.069	6.962
n (Samp)	104	14	104	14	104	10
n (Pat)	104	14	104	14	104	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	2.552	0.923	2.552	0.418	2.552	1.713
average	5.117	1.828	5.117	1.639	5.117	2.254
stdev	8.342	2.378	8.342	2.499	8.342	2.776
p (t-test)		0.300		0.274		0.446
min	0.001	0.188	0.001	0.016	0.001	0.018
max	67.069	6.962	67.069	6.962	67.069	6.962
n (Samp)	168	7	168	7	168	5
n (Pat)	168	7	168	7	168	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	2.662	1.189	2.662	1.189	2.662	1.181
average	5.711	2.988	5.711	2.969	5.711	2.408
stdev	9.664	2.902	9.664	2.923	9.664	2.403
p (t-test)		0.404		0.401		0.372
min	0.001	0.018	0.001	0.018	0.001	0.018
max	67.069	7.263	67.069	7.263	67.069	6.962
n (Samp)	85	9	85	9	85	7
n (Pat)	85	9	85	9	85	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.40	0.076	104	14	0.169
24 hours	0.37	0.073	104	14	0.067
48 hours	0.40	0.088	104	10	0.247

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.33	0.093	168	7	0.073
24 hours	0.28	0.083	168	7	0.009
48 hours	0.37	0.115	168	5	0.265

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.43	0.097	85	9	0.474
24 hours	0.43	0.096	85	9	0.443
48 hours	0.40	0.105	85	7	0.354

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.91712	71%	28%	1			
	0.40965	86%	17%	2	1.0	0.1	8.5
	0.01822	93%	12%	3	3.5	0.8	15.0
	4.87351	21%	70%	4	2.2	0.4	11.3

Fig. 4 - 36

	7.69299	0%	81%				
	12.0757	0%	90%				
24 hours	0.40965	71%	17%	1			
	0.01619	93%	2%	2	1.0	0.1	8.5
	0.01619	93%	2%	3	2.8	0.6	12.8
	4.87351	21%	70%	4	2.9	0.6	13.4
	7.69299	0%	81%				
	12.0757	0%	90%				
48 hours	0.91712	70%	28%	1			
	0.83513	80%	26%	2	2.2	0.1	47.1
	0.40965	90%	17%	3	5.8	0.5	71.3
	4.87351	10%	70%	4	2.2	0.1	47.1
	7.69299	0%	81%				
	12.0757	0%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.41788	71%	16%	1			
	0.40965	86%	16%	2	0.0	0.0	na
	0.11161	100%	11%	3	3.1	0.2	47.1
	4.41089	14%	70%	4	3.2	0.2	48.4
	7.47389	0%	80%				
	12.7911	0%	90%				
24 hours	0.11161	71%	11%	1			
	0.01619	86%	1%	2	0.0	0.0	na
	0.00132	100%	1%	3	2.0	0.1	42.5
	4.41089	14%	70%	4	4.4	0.3	56.2
	7.47389	0%	80%				
	12.7911	0%	90%				
48 hours	0.40965	80%	16%	1			
	0.40965	80%	16%	2	0.0	0.0	na
	0.00132	100%	1%	3	2.1	0.1	43.6
	4.41089	20%	70%	4	2.1	0.1	43.6
	7.47389	0%	80%				
	12.7911	0%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.95625	78%	27%	1			
	0.01822	89%	11%	2	3.5	0.2	56.5
	0.00132	100%	2%	3	3.3	0.2	53.6
	5.09673	33%	71%	4	2.2	0.1	49.5
	8.19191	0%	80%				
	14.8279	0%	91%				
24 hours	0.95625	78%	27%	1			
	0.00132	100%	2%	2	3.5	0.2	56.5
	0.00132	100%	2%	3	3.3	0.2	53.6
	5.09673	33%	71%	4	2.2	0.1	49.5
	8.19191	0%	80%				
	14.8279	0%	91%				
48 hours	0.95625	71%	27%	1			
	0.83513	86%	25%	2	na	na	na
	0.00132	100%	2%	3	na	na	na
	5.09673	14%	71%	4	na	na	na
	8.19191	0%	80%				
	14.8279	0%	91%				

Fig. 4 - 37

Secretory leukocyte peptidase inhibitor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	14123.539	20780.608	14123.539	21867.766	14123.539	19419.847
average	15206.496	19724.468	15206.496	20706.543	15206.496	16739.251
stdev	9544.648	9761.736	9544.648	9349.930	9544.648	9726.830
p (t-test)		0.137		0.078		0.694
min	579.609	903.384	579.609	903.384	579.609	903.384
max	33763.353	32087.099	33763.353	32087.099	33763.353	30129.151
n (Samp)	48	13	48	12	48	7
n (Pat)	48	13	48	12	48	7

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	15442.804	22954.925	15442.804	24420.267	15442.804	19419.847
average	15819.141	20568.402	15819.141	22903.639	15819.141	15815.494
stdev	9590.646	10310.804	9590.646	9042.524	9590.646	7659.241
p (t-test)		0.212		0.082		0.999
min	579.609	6556.982	579.609	7019.002	579.609	7019.002
max	33763.353	32087.099	33763.353	32087.099	33763.353	21007.634
n (Samp)	90	7	90	6	90	3
n (Pat)	90	7	90	6	90	3

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	14407.346	19297.710	14407.346	17915.129	14407.346	17915.129
average	15386.285	17065.467	15386.285	16867.955	15386.285	15349.455
stdev	9150.675	10104.233	9150.675	10066.770	9150.675	11539.117
p (t-test)		0.663		0.701		0.993
min	1017.287	903.384	1017.287	903.384	1017.287	903.384
max	30367.279	30129.151	30367.279	30129.151	30367.279	30129.151
n (Samp)	37	7	37	7	37	5
n (Pat)	37	7	37	7	37	5

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.63	0.091	48	13	0.156
24 hours	0.66	0.094	48	12	0.088
48 hours	0.55	0.120	48	7	0.691

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.65	0.117	90	7	0.211
24 hours	0.71	0.122	90	6	0.077
48 hours	0.51	0.171	90	3	0.965

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.55	0.122	37	7	0.670
24 hours	0.54	0.122	37	7	0.716
48 hours	0.50	0.139	37	5	0.985

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	15976.6	77%	60%	1			
	6556.98	85%	25%	2	0.0	0.0	na
	6452.65	92%	25%	3	2.7	0.7	10.4
	23088.5	38%	71%	4	1.3	0.3	5.8
	25848.7	31%	81%				

Fig. 4 - 38

	28173.4	23%	92%				
24 hours	16611	75%	63%	1			
	15976.6	83%	60%	2	0.0	0.0	na
	6452.65	92%	25%	3	4.3	0.8	23.1
	23088.5	42%	71%	4	2.4	0.4	14.3
	25848.7	33%	81%				
	28173.4	25%	92%				
48 hours	16611	71%	63%	1			
	6452.65	86%	25%	2	0.9	0.0	63.7
	579.609	100%	2%	3	4.8	0.3	79.7
	23088.5	14%	71%	4	0.9	0.0	63.7
	25848.7	14%	81%				
	28173.4	14%	92%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	19297.7	71%	62%	1			
	6829.86	86%	26%	2	1.0	0.0	59.8
	6452.65	100%	23%	3	2.1	0.1	47.1
	23389	43%	70%	4	3.1	0.2	50.9
	25848.7	43%	80%				
	28731.2	29%	90%				
24 hours	19297.7	83%	62%	1			
	19297.7	83%	62%	2	0.0	0.0	na
	6829.86	100%	26%	3	2.1	0.1	47.1
	23389	50%	70%	4	3.3	0.2	53.6
	25848.7	50%	80%				
	28731.2	33%	90%				
48 hours	6829.86	100%	26%	1			
	6829.86	100%	26%	2	na	na	na
	6829.86	100%	26%	3	na	na	na
	23389	0%	70%	4	na	na	na
	25848.7	0%	80%				
	28731.2	0%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	15442.8	71%	57%	1			
	6452.65	86%	27%	2	1.0	0.0	74.6
	0	100%	0%	3	5.7	0.3	106.6
	21619.4	29%	70%	4	1.0	0.0	74.6
	25492.5	14%	81%				
	28173.4	14%	92%				
24 hours	15442.8	71%	57%	1			
	6452.65	86%	27%	2	1.0	0.0	74.6
	0	100%	0%	3	5.7	0.3	106.6
	21619.4	29%	70%	4	1.0	0.0	74.6
	25492.5	14%	81%				
	28173.4	14%	92%				
48 hours	6452.65	80%	27%	1			
	6452.65	80%	27%	2	0.9	0.0	68.6
	0	100%	0%	3	2.3	0.1	67.6
	21619.4	20%	70%	4	0.9	0.0	68.6
	25492.5	20%	81%				
	28173.4	20%	92%				

Fig. 4 - 39

Stem cell factor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	216.500	364.000	216.500	498.500	216.500	439.000
average	400.384	808.100	400.384	773.169	400.384	807.070
stdev	473.635	867.618	473.635	726.913	473.635	817.894
p (t-test)		0.005		0.008		0.018
min	9.140	51.400	9.140	51.400	9.140	51.400
max	2900.000	3000.000	2900.000	2190.000	2900.000	2190.000
n (Samp)	104	17	104	16	104	10
n (Pat)	104	17	104	16	104	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	271.500	671.500	271.500	671.500	271.500	633.000
average	435.504	907.625	435.504	907.625	435.504	893.400
stdev	479.531	764.629	479.531	764.629	479.531	879.922
p (t-test)		0.009		0.009		0.042
min	9.140	118.000	9.140	118.000	9.140	118.000
max	2900.000	2190.000	2900.000	2190.000	2900.000	2190.000
n (Samp)	170	8	170	8	170	5
n (Pat)	170	8	170	8	170	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	235.000	173.000	235.000	209.000	235.000	245.000
average	402.698	727.518	402.698	663.570	402.698	732.814
stdev	431.931	922.919	431.931	689.743	431.931	770.751
p (t-test)		0.049		0.095		0.073
min	9.140	51.400	9.140	51.400	9.140	51.400
max	1890.000	3000.000	1890.000	1850.000	1890.000	1850.000
n (Samp)	85	11	85	10	85	7
n (Pat)	85	11	85	10	85	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.62	0.077	104	17	0.111
24 hours	0.64	0.079	104	16	0.080
48 hours	0.60	0.099	104	10	0.323

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.71	0.105	170	8	0.045
24 hours	0.71	0.105	170	8	0.045
48 hours	0.65	0.135	170	5	0.264

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.54	0.094	85	11	0.671
24 hours	0.56	0.099	85	10	0.561
48 hours	0.55	0.117	85	7	0.671

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	165	71%	37%	1			
	116	82%	25%	2	0.7	0.2	2.6
	92.5	94%	19%	3	0.5	0.1	2.3
	372	47%	70%	4	2.3	0.9	5.5

Fig. 4 - 40

	630	47%	81%				
	829	35%	90%				
24 hours	165	75%	37%	1			
	150	81%	36%	2	1.0	0.2	4.3
	92.5	94%	19%	3	0.6	0.1	3.8
	372	50%	70%	4	3.3	1.1	9.4
	630	50%	81%				
	829	38%	90%				
48 hours	150	70%	36%	1			
	116	80%	25%	2	1.0	0.1	7.9
	61.5	90%	11%	3	0.5	0.0	10.6
	372	50%	70%	4	2.7	0.6	12.5
	630	50%	81%				
	829	40%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	357	75%	63%	1			
	165	88%	31%	2	1.0	0.0	53.9
	116	100%	23%	3	1.0	0.0	55.2
	487	63%	70%	4	5.4	0.5	62.1
	633	50%	80%				
	1050	38%	90%				
24 hours	357	75%	63%	1			
	165	88%	31%	2	1.0	0.0	53.9
	116	100%	23%	3	1.0	0.0	55.2
	487	63%	70%	4	5.4	0.5	62.1
	633	50%	80%				
	1050	38%	90%				
48 hours	165	80%	31%	1			
	165	80%	31%	2	1.0	0.0	54.0
	116	100%	23%	3	0.0	0.0	na
	487	60%	70%	4	3.1	0.2	46.1
	633	40%	80%				
	1050	40%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	150	73%	33%	1			
	99.7	82%	21%	2	1.0	0.2	4.5
	92.8	91%	20%	3	0.3	0.0	5.0
	421	36%	71%	4	1.4	0.4	5.3
	593	36%	80%				
	829	36%	91%				
24 hours	165	70%	35%	1			
	150	80%	33%	2	1.5	0.2	9.3
	92.8	90%	20%	3	0.5	0.0	10.3
	421	40%	71%	4	2.1	0.4	11.1
	593	40%	80%				
	829	40%	91%				
48 hours	150	71%	33%	1			
	61.5	86%	11%	2	0.5	0.0	10.8
	51	100%	7%	3	0.5	0.0	10.8
	421	43%	71%	4	1.6	0.3	9.8
	593	43%	80%				
	829	43%	91%				

Fig. 4 - 41

Tissue inhibitor of metalloproteinase 1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	3.975	32.300	3.975	30.350	3.975	13.240
average	15.936	75.903	15.936	53.375	15.936	20.705
stdev	39.829	89.651	39.829	78.371	39.829	21.532
p (t-test)		0.000		0.003		0.710
min	0.104	0.256	0.104	0.256	0.104	0.169
max	302.000	302.000	302.000	302.000	302.000	57.400
n (Samp)	104	17	104	16	104	10
n (Pat)	104	17	104	16	104	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	7.065	44.850	7.065	27.200	7.065	22.100
average	19.289	82.832	19.289	65.653	19.289	36.996
stdev	45.763	85.517	45.763	83.933	45.763	42.880
p (t-test)		0.000		0.008		0.394
min	0.104	0.256	0.104	0.256	0.104	0.169
max	302.000	231.000	302.000	231.000	302.000	102.000
n (Samp)	170	8	170	8	170	5
n (Pat)	170	8	170	8	170	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	3.420	31.700	3.420	30.350	3.420	22.100
average	17.225	80.072	17.225	58.187	17.225	20.881
stdev	43.625	101.872	43.625	90.621	43.625	18.715
p (t-test)		0.000		0.016		0.827
min	0.104	1.900	0.104	1.900	0.104	1.900
max	302.000	302.000	302.000	302.000	302.000	52.000
n (Samp)	85	11	85	10	85	7
n (Pat)	85	11	85	10	85	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.80	0.067	104	17	0.000
24 hours	0.75	0.074	104	16	0.001
48 hours	0.63	0.098	104	10	0.186

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.78	0.099	170	8	0.005
24 hours	0.73	0.103	170	8	0.025
48 hours	0.63	0.136	170	5	0.357

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.82	0.080	85	11	0.000
24 hours	0.78	0.089	85	10	0.002
48 hours	0.70	0.114	85	7	0.074

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	22.1	71%	83%	1			
	10.4	82%	71%	2	2.1	0.1	45.0
	1.8	94%	32%	3	1.0	0.0	57.7
	10.3	82%	70%	4	20.9	2.1	206.3

Fig. 4 - 42

	15.9	76%	81%				
	31.3	59%	90%				
24 hours	5.95	75%	57%	1			
	4.22	81%	54%	2	3.2	0.2	50.6
	1.8	94%	32%	3	2.1	0.1	45.0
	10.3	69%	70%	4	14.5	1.4	147.8
	15.9	69%	81%				
	31.3	50%	90%				
48 hours	3.57	70%	48%	1			
	3.03	80%	46%	2	3.1	0.2	49.3
	1.8	90%	32%	3	1.0	0.0	58.3
	10.3	50%	70%	4	5.6	0.5	69.0
	15.9	50%	81%				
	31.3	30%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	21.5	75%	81%	1			
	10.4	88%	64%	2	0.0	0.0	na
	0.216	100%	2%	3	1.0	0.0	55.2
	14	75%	70%	4	6.6	0.6	71.7
	20.9	75%	80%				
	38.2	50%	90%				
24 hours	16.9	75%	77%	1			
	5.95	88%	49%	2	1.0	0.0	53.9
	0.216	100%	2%	3	0.0	0.0	na
	14	75%	70%	4	6.6	0.6	71.7
	20.9	63%	80%				
	38.2	38%	90%				
48 hours	3.03	80%	41%	1			
	3.03	80%	41%	2	1.0	0.0	54.0
	0.157	100%	1%	3	0.0	0.0	na
	14	60%	70%	4	3.1	0.2	46.1
	20.9	60%	80%				
	38.2	40%	90%				

Fig. 4 - 43

Tissue inhibitor of metalloproteinase 2

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	8885.843	28006.563	8885.843	26058.107	8885.843	23748.947
average	13900.106	54466.502	13900.106	53146.474	13900.106	26765.638
stdev	23828.650	62915.343	23828.650	63648.454	23828.650	16045.772
p (t-test)		0.000		0.000		0.138
min	759.402	6112.595	759.402	6112.595	759.402	6112.595
max	210000.000	210000.000	210000.000	210000.000	210000.000	49583.194
n (Samp)	99	12	99	12	99	8
n (Pat)	99	12	99	12	99	8

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	12684.303	28006.563	12684.303	26058.107	12684.303	37016.656
average	17466.777	57693.172	17466.777	55053.115	17466.777	72536.477
stdev	23800.455	75815.758	23800.455	77255.547	23800.455	93259.029
p (t-test)		0.000		0.001		0.000
min	759.402	6112.595	759.402	6112.595	759.402	6112.595
max	210000.000	210000.000	210000.000	210000.000	210000.000	210000.000
n (Samp)	160	6	160	6	160	4
n (Pat)	160	6	160	6	160	4

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	8878.783	41049.819	8878.783	41049.819	8878.783	27782.110
average	14653.718	70732.373	14653.718	70732.373	14653.718	30399.864
stdev	25814.293	72555.132	25814.293	72555.132	25814.293	16094.384
p (t-test)		0.000		0.000		0.145
min	759.402	12393.647	759.402	12393.647	759.402	12393.647
max	210000.000	210000.000	210000.000	210000.000	210000.000	49583.194
n (Samp)	84	8	84	8	84	6
n (Pat)	84	8	84	8	84	6

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.86	0.069	99	12	0.000
24 hours	0.84	0.073	99	12	0.000
48 hours	0.81	0.094	99	8	0.001

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.80	0.110	160	6	0.006
24 hours	0.74	0.118	160	6	0.042
48 hours	0.76	0.142	160	4	0.068

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.90	0.075	84	8	0.000
24 hours	0.90	0.075	84	8	0.000
48 hours	0.87	0.096	84	6	0.000

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	24404.5	83%	87%	1			
	24404.5	83%	87%	2	0.0	0.0	na
	5722.8	100%	21%	3	0.0	0.0	na
	17995.5	83%	70%	4	5.4	0.5	62.9

Fig. 4 - 44

	22143.4	83%	81%				
	29949	33%	90%				
24 hours	13642.1	83%	54%	1			
	13642.1	83%	54%	2	0.0	0.0	na
	5722.8	100%	21%	3	1.0	0.0	55.6
	17995.5	67%	70%	4	4.2	0.3	54.0
	22143.4	67%	81%				
	29949	33%	90%				
48 hours	24404.5	75%	87%	1			
	5722.8	100%	21%	2	0.0	0.0	na
	5722.8	100%	21%	3	0.0	0.0	na
	17995.5	75%	70%	4	3.2	0.2	47.6
	22143.4	75%	81%				
	29949	50%	90%				

Fig. 4 - 45

Tumor necrosis factor-alpha

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	6.930	6.810	6.930	5.675	6.930	4.280
average	10.947	18.227	10.947	18.871	10.947	22.519
stdev	13.503	36.743	13.503	37.849	13.503	47.866
p (t-test)		0.133		0.113		0.065
min	0.016	1.530	0.016	1.530	0.016	0.016
max	86.200	156.000	86.200	156.000	86.200	156.000
n (Samp)	104	17	104	16	104	10
n (Pat)	104	17	104	16	104	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	8.435	9.190	8.435	8.605	8.435	11.100
average	15.362	11.001	15.362	10.419	15.362	12.564
stdev	32.316	9.521	32.316	9.869	32.316	12.199
p (t-test)		0.704		0.667		0.847
min	0.016	2.900	0.016	2.900	0.016	2.900
max	300.000	33.200	300.000	33.200	300.000	33.200
n (Samp)	170	8	170	8	170	5
n (Pat)	170	8	170	8	170	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	5.330	4.540	5.330	7.820	5.330	4.540
average	9.767	22.232	9.767	24.129	9.767	26.438
stdev	11.919	45.241	11.919	47.224	11.919	57.259
p (t-test)		0.039		0.023		0.026
min	0.016	1.530	0.016	1.530	0.016	0.016
max	72.000	156.000	72.000	156.000	72.000	156.000
n (Samp)	85	11	85	10	85	7
n (Pat)	85	11	85	10	85	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.53	0.077	104	17	0.743
24 hours	0.52	0.079	104	16	0.763
48 hours	0.47	0.094	104	10	0.768

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.53	0.106	170	8	0.798
24 hours	0.50	0.105	170	8	0.994
48 hours	0.54	0.134	170	5	0.756

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.54	0.094	85	11	0.679
24 hours	0.56	0.099	85	10	0.553
48 hours	0.47	0.112	85	7	0.787

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	3.6	71%	37%	1			
	2.68	82%	28%	2	2.3	0.7	7.0
	1.53	94%	13%	3	1.4	0.4	5.0
	13.8	24%	71%	4	1.3	0.4	4.8

Fig. 4 - 46

	17.3	24%	82%				
	22.1	18%	90%				
24 hours	3.19	75%	31%	1			
	2.68	81%	28%	2	2.3	0.7	7.0
	1.53	94%	13%	3	1.0	0.2	4.3
	13.8	25%	71%	4	1.4	0.4	5.0
	17.3	25%	82%				
	22.1	19%	90%				
48 hours	3.6	70%	37%	1			
	2.68	80%	28%	2	1.0	0.1	8.5
	1.51	90%	13%	3	2.2	0.4	10.9
	13.8	20%	71%	4	1.0	0.1	8.5
	17.3	20%	82%				
	22.1	20%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	6.73	75%	45%	1			
	4.01	88%	35%	2	3.1	0.2	46.0
	2.68	100%	23%	3	3.1	0.2	47.1
	15.4	13%	70%	4	1.0	0.0	53.9
	19	13%	80%				
	25.8	13%	90%				
24 hours	4.01	75%	35%	1			
	3.31	88%	28%	2	3.1	0.2	46.0
	2.68	100%	23%	3	3.1	0.2	47.1
	15.4	13%	70%	4	1.0	0.0	53.9
	19	13%	80%				
	25.8	13%	90%				
48 hours	4.01	80%	35%	1			
	4.01	80%	35%	2	1.0	0.0	54.0
	2.68	100%	23%	3	2.0	0.1	41.5
	15.4	20%	70%	4	1.0	0.0	54.0
	19	20%	80%				
	25.8	20%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	3.19	73%	34%	1			
	2.41	82%	28%	2	2.2	0.4	11.5
	1.53	91%	14%	3	1.0	0.1	8.5
	12.1	27%	71%	4	1.6	0.3	9.7
	16.5	27%	80%				
	20.6	18%	91%				
24 hours	3.6	70%	40%	1			
	2.41	80%	28%	2	1.5	0.2	9.3
	1.53	90%	14%	3	1.0	0.1	8.1
	12.1	30%	71%	4	1.5	0.2	9.3
	16.5	30%	80%				
	20.6	20%	91%				
48 hours	3.6	71%	40%	1			
	1.51	86%	14%	2	2.1	0.1	47.6
	0	100%	0%	3	2.1	0.1	47.6
	12.1	14%	71%	4	2.1	0.1	47.6
	16.5	14%	80%				
	20.6	14%	91%				

Fig. 4 - 47

Vascular cell adhesion molecule 1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	50.502	71.906	50.502	71.906	50.502	71.906
average	61.614	75.426	61.614	74.870	61.614	60.603
stdev	46.472	62.899	46.472	63.273	46.472	41.126
p (t-test)		0.352		0.373		0.953
min	0.475	3.048	0.475	3.048	0.475	3.048
max	322.684	240.000	322.684	240.000	322.684	118.181
n (Samp)	99	12	99	12	99	8
n (Pat)	99	12	99	12	99	8

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	66.132	58.366	66.132	58.366	66.132	57.364
average	71.467	61.114	71.467	60.335	71.467	58.989
stdev	47.918	41.906	47.918	42.581	47.918	47.470
p (t-test)		0.603		0.576		0.608
min	0.475	3.048	0.475	3.048	0.475	3.048
max	322.684	118.181	322.684	118.181	322.684	118.181
n (Samp)	160	6	160	6	160	4
n (Pat)	160	6	160	6	160	4

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	54.959	83.564	54.959	83.564	54.959	83.564
average	65.536	88.523	65.536	88.272	65.536	69.435
stdev	48.733	70.239	48.733	70.393	48.733	40.095
p (t-test)		0.224		0.229		0.849
min	0.475	20.469	0.475	20.469	0.475	20.469
max	322.684	240.000	322.684	240.000	322.684	118.181
n (Samp)	84	8	84	8	84	6
n (Pat)	84	8	84	8	84	6

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.56	0.091	99	12	0.527
24 hours	0.55	0.090	99	12	0.558
48 hours	0.51	0.107	99	8	0.897

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.45	0.116	160	6	0.673
24 hours	0.45	0.116	160	6	0.653
48 hours	0.43	0.138	160	4	0.619

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.60	0.110	84	8	0.381
24 hours	0.60	0.110	84	8	0.388
48 hours	0.55	0.125	84	6	0.669

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	31.3604	75%	27%	1			
	20.4689	83%	14%	2	0.6	0.1	3.7
	20.0671	92%	14%	3	0.6	0.1	3.7
	75.6644	50%	71%	4	1.7	0.5	5.8

Fig. 4 - 48

	94.8499	25%	81%				
	121.836	8%	91%				
24 hours	27.807	75%	24%	1			
	20.4689	83%	14%	2	0.6	0.1	3.7
	20.0671	92%	14%	3	0.6	0.1	3.7
	75.6644	50%	71%	4	1.7	0.5	5.8
	94.8499	25%	81%				
	121.836	8%	91%				
48 hours	20.4689	75%	14%	1			
	20.0671	88%	14%	2	0.0	0.0	na
	0.47523	100%	1%	3	0.6	0.1	3.7
	75.6644	50%	71%	4	1.0	0.2	4.2
	94.8499	13%	81%				
	121.836	0%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	31.3604	83%	19%	1			
	31.3604	83%	19%	2	0.5	0.0	10.4
	0.47523	100%	1%	3	0.5	0.0	10.2
	88.48	33%	70%	4	1.0	0.1	8.0
	103.319	17%	80%				
	127.565	0%	90%				
24 hours	27.807	83%	18%	1			
	27.807	83%	18%	2	0.5	0.0	10.4
	0.47523	100%	1%	3	0.5	0.0	10.2
	88.48	33%	70%	4	1.0	0.1	8.0
	103.319	17%	80%				
	127.565	0%	90%				
48 hours	49.3582	75%	36%	1			
	0.47523	100%	1%	2	1.0	0.0	55.6
	0.47523	100%	1%	3	1.0	0.0	55.6
	88.48	25%	70%	4	1.0	0.0	55.6
	103.319	25%	80%				
	127.565	0%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	50.5017	75%	46%	1			
	20.4689	88%	13%	2	0.5	0.0	10.8
	20.0671	100%	13%	3	1.0	0.1	8.6
	80.5035	50%	70%	4	1.6	0.3	9.8
	100.474	25%	81%				
	126.58	13%	90%				
24 hours	49.3582	75%	45%	1			
	20.4689	88%	13%	2	0.5	0.0	10.8
	20.0671	100%	13%	3	1.0	0.1	8.6
	80.5035	50%	70%	4	1.6	0.3	9.8
	100.474	25%	81%				
	126.58	13%	90%				
48 hours	20.4689	83%	13%	1			
	20.4689	83%	13%	2	0.0	0.0	na
	20.0671	100%	13%	3	1.0	0.1	8.6
	80.5035	50%	70%	4	1.0	0.1	8.2
	100.474	17%	81%				
	126.58	0%	90%				

Fig. 4 - 49

Vascular endothelial growth factor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	982.500	7060.000	982.500	6865.000	982.500	2415.000
average	2862.470	14645.706	2862.470	14563.625	2862.470	4167.110
stdev	5408.538	32646.449	5408.538	33648.820	5408.538	4889.298
p (t-test)		0.001		0.001		0.464
min	73.000	180.000	73.000	180.000	73.000	93.100
max	32200.000	139000.000	32200.000	139000.000	32200.000	15700.000
n (Samp)	104	17	104	16	104	10
n (Pat)	104	17	104	16	104	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1110.000	10040.000	1110.000	10030.000	1110.000	7060.000
average	4259.770	10911.250	4259.770	10908.750	4259.770	7826.620
stdev	13068.126	6583.380	13068.126	6584.483	13068.126	5761.874
p (t-test)		0.155		0.155		0.545
min	73.000	180.000	73.000	180.000	73.000	93.100
max	139000.000	19500.000	139000.000	19500.000	139000.000	15700.000
n (Samp)	170	8	170	8	170	5
n (Pat)	170	8	170	8	170	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	851.000	2320.000	851.000	2750.000	851.000	1510.000
average	2419.164	17113.364	2419.164	17230.800	2419.164	2856.857
stdev	4246.719	40806.641	4246.719	42924.776	4246.719	2903.752
p (t-test)		0.001		0.002		0.790
min	96.900	461.000	96.900	437.000	96.900	437.000
max	25700.000	139000.000	25700.000	139000.000	25700.000	7060.000
n (Samp)	85	11	85	10	85	7
n (Pat)	85	11	85	10	85	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.74	0.073	104	17	0.001
24 hours	0.71	0.076	104	16	0.005
48 hours	0.59	0.099	104	10	0.370

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.82	0.093	170	8	0.001
24 hours	0.82	0.093	170	8	0.001
48 hours	0.73	0.130	170	5	0.076

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.72	0.091	85	11	0.015
24 hours	0.68	0.098	85	10	0.069
48 hours	0.59	0.117	85	7	0.452

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	2080	71%	67%	1			
	851	82%	48%	2	1.0	0.1	8.2
	457	94%	23%	3	1.6	0.3	9.2
	2240	65%	70%	4	6.7	1.7	25.4

Fig. 4 - 50

	3530	59%	81%				
	5860	59%	90%				
24 hours	1470	75%	61%	1			
	571	81%	35%	2	0.3	0.0	4.9
	372	94%	20%	3	1.0	0.2	4.3
	2240	63%	70%	4	3.9	1.4	10.9
	3530	56%	81%				
	5860	56%	90%				
48 hours	571	70%	35%	1			
	457	80%	23%	2	0.3	0.0	4.7
	372	90%	20%	3	0.3	0.0	4.9
	2240	50%	70%	4	1.7	0.5	5.8
	3530	40%	81%				
	5860	40%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	7040	75%	91%	1			
	6580	88%	89%	2	0.0	0.0	na
	175	100%	4%	3	0.0	0.0	na
	2240	88%	70%	4	7.9	0.8	82.0
	3260	88%	80%				
	6910	75%	90%				
24 hours	7040	75%	91%	1			
	6580	88%	89%	2	0.0	0.0	na
	175	100%	4%	3	0.0	0.0	na
	2240	88%	70%	4	7.9	0.8	82.0
	3260	88%	80%				
	6910	75%	90%				
48 hours	5860	80%	87%	1			
	5860	80%	87%	2	0.0	0.0	na
	73	100%	1%	3	0.0	0.0	na
	2240	80%	70%	4	4.2	0.3	53.6
	3260	80%	80%				
	6910	60%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1370	73%	62%	1			
	851	82%	51%	2	2.1	0.1	47.1
	571	91%	38%	3	3.3	0.2	53.6
	2220	55%	71%	4	6.1	0.5	76.8
	2830	45%	80%				
	5230	45%	91%				
24 hours	1370	70%	62%	1			
	571	80%	38%	2	0.5	0.0	10.3
	457	90%	25%	3	1.0	0.1	8.1
	2220	50%	71%	4	2.8	0.6	13.3
	2830	50%	80%				
	5230	40%	91%				
48 hours	571	71%	38%	1			
	457	86%	25%	2	0.5	0.0	10.8
	378	100%	21%	3	0.5	0.0	10.8
	2220	43%	71%	4	1.6	0.3	9.8
	2830	43%	80%				
	5230	29%	91%				

Fig. 4 - 51

Aspartate aminotransferase, cytoplasmic

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	16.400	16.450	16.400	21.500	16.400	21.750
average	18.403	15.180	18.403	19.625	18.403	19.997
stdev	19.998	11.430	19.998	9.203	19.998	8.739
p (t-test)		0.245		0.642		0.688
min	2.080	1.810	2.080	0.943	2.080	2.780
max	251.000	41.100	251.000	39.600	251.000	32.100
n (Samp)	257	56	257	61	257	26
n (Pat)	112	56	112	61	112	26

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	16.600	21.000	16.600	19.550	16.600	22.300
average	17.456	16.996	17.456	19.822	17.456	18.210
stdev	16.068	11.307	16.068	9.203	16.068	10.336
p (t-test)		0.892		0.457		0.862
min	1.810	2.090	1.810	0.943	1.810	2.820
max	251.000	39.800	251.000	36.600	251.000	29.800
n (Samp)	459	23	459	26	459	14
n (Pat)	180	23	180	26	180	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	16.800	17.800	16.800	21.300	16.800	21.300
average	19.345	14.855	19.345	19.057	19.345	21.206
stdev	21.614	10.311	21.614	8.625	21.614	8.483
p (t-test)		0.150		0.924		0.683
min	1.890	1.810	1.890	2.170	1.890	2.780
max	251.000	41.100	251.000	39.600	251.000	39.800
n (Samp)	213	51	213	53	213	23
n (Pat)	89	51	89	53	89	23

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.47	0.042	257	56	0.486
24 hours	0.65	0.041	257	61	0.000
48 hours	0.66	0.061	257	26	0.010

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.53	0.063	459	23	0.585
24 hours	0.64	0.060	459	26	0.024
48 hours	0.61	0.081	459	14	0.172

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.45	0.044	213	51	0.250
24 hours	0.61	0.045	213	53	0.019
48 hours	0.66	0.065	213	23	0.014

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	3.16	71%	10%	1			
	2.59	80%	4%	2	0.3	0.2	0.5
	2.08	91%	0%	3	0.2	0.1	0.4
	19.6	45%	70%	4	1.2	1.0	1.6
	22.8	32%	81%				

Fig. 5 - 1

	27.1	13%	90%				
24 hours	17.9	70%	61%	1			
	14.4	80%	35%	2	0.4	0.2	0.8
	3.12	90%	9%	3	1.8	1.3	2.6
	19.6	56%	70%	4	3.1	2.3	4.3
	22.8	44%	81%				
	27.1	20%	90%				
48 hours	17.9	73%	61%	1			
	15.5	81%	44%	2	0.4	0.1	1.6
	3.47	92%	12%	3	1.4	0.7	3.0
	19.6	65%	70%	4	2.6	1.4	4.9
	22.8	35%	81%				
	27.1	27%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	4.27	74%	17%	1			
	3.66	83%	15%	2	0.2	0.1	0.7
	2.6	91%	6%	3	0.1	0.0	0.9
	20.5	52%	70%	4	1.2	0.8	1.9
	23.4	30%	80%				
	27.4	17%	90%				
24 hours	17.5	73%	54%	1			
	17.1	81%	53%	2	0.2	0.0	2.9
	3.12	92%	12%	3	2.9	1.4	5.9
	20.5	46%	70%	4	2.6	1.3	5.4
	23.4	38%	80%				
	27.4	19%	90%				
48 hours	18.3	71%	59%	1			
	3.37	86%	14%	2	0.0	0.0	na
	3.16	93%	12%	3	0.5	0.1	2.2
	20.5	57%	70%	4	2.1	1.0	4.4
	23.4	36%	80%				
	27.4	21%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	3.32	71%	11%	1			
	3.06	80%	7%	2	0.8	0.6	1.2
	2.08	90%	0%	3	0.4	0.2	0.6
	20.6	35%	70%	4	1.5	1.1	2.1
	22.9	25%	80%				
	27.8	8%	91%				
24 hours	16.6	72%	49%	1			
	13.8	81%	29%	2	0.8	0.5	1.3
	3.47	91%	11%	3	1.4	0.9	2.1
	20.6	51%	70%	4	2.7	1.9	3.9
	22.9	42%	80%				
	27.8	9%	91%				
48 hours	17.9	74%	56%	1			
	15.5	83%	40%	2	1.0	0.3	4.0
	12.7	91%	22%	3	2.9	1.1	7.7
	20.6	61%	70%	4	3.4	1.3	8.6
	22.9	30%	80%				
	27.8	22%	91%				

Fig. 5 - 2

CD40

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.650	1.780	1.650	1.700	1.650	1.735
average	2.071	2.202	2.071	2.660	2.071	2.171
stdev	2.138	1.445	2.138	3.608	2.138	1.345
p (t-test)		0.662		0.097		0.814
min	0.446	0.748	0.446	0.798	0.446	0.793
max	28.000	6.510	28.000	28.100	28.000	5.430
n (Samp)	257	56	257	61	257	26
n (Pat)	112	56	112	61	112	26

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.610	2.470	1.610	2.090	1.610	1.995
average	2.076	3.101	2.076	3.507	2.076	2.468
stdev	1.883	1.798	1.883	5.192	1.883	1.246
p (t-test)		0.011		0.001		0.440
min	0.446	0.959	0.446	1.060	0.446	1.240
max	28.000	6.650	28.000	28.100	28.000	5.430
n (Samp)	459	23	459	26	459	14
n (Pat)	180	23	180	26	180	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.610	1.770	1.610	1.700	1.610	1.690
average	1.946	2.235	1.946	2.287	1.946	2.135
stdev	1.153	1.457	1.153	1.479	1.153	1.436
p (t-test)		0.129		0.070		0.467
min	0.541	0.748	0.541	0.798	0.541	0.793
max	6.610	6.510	6.610	6.600	6.610	6.350
n (Samp)	213	51	213	53	213	23
n (Pat)	89	51	89	53	89	23

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.54	0.043	257	56	0.299
24 hours	0.56	0.042	257	61	0.174
48 hours	0.54	0.061	257	26	0.511

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.71	0.062	459	23	0.001
24 hours	0.66	0.060	459	26	0.008
48 hours	0.66	0.081	459	14	0.046

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.55	0.046	213	51	0.290
24 hours	0.56	0.045	213	53	0.216
48 hours	0.52	0.064	213	23	0.799

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1.28	71%	33%	1			
	1.13	80%	28%	2	1.5	1.0	2.1
	0.926	91%	16%	3	1.6	1.1	2.3

Fig. 5 - 3

	2.22	32%	70%	4	1.3	0.9	1.9
	2.59	23%	81%				
	3.31	16%	90%				
24 hours	1.37	70%	38%	1			
	1.23	80%	32%	2	2.3	1.6	3.3
	1.04	90%	22%	3	1.5	1.0	2.2
	2.22	28%	70%	4	1.9	1.3	2.7
	2.59	25%	81%				
	3.31	20%	90%				
48 hours	1.16	73%	28%	1			
	1.13	81%	28%	2	2.1	0.9	4.6
	0.928	92%	16%	3	1.5	0.6	3.7
	2.22	35%	70%	4	2.1	0.9	4.6
	2.59	31%	81%				
	3.31	19%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1.78	74%	57%	1			
	1.57	83%	49%	2	4.1	0.3	48.7
	1.2	91%	30%	3	6.3	0.6	63.8
	2.17	61%	70%	4	13.1	1.5	113.3
	2.63	43%	80%				
	3.82	26%	90%				
24 hours	1.55	73%	47%	1			
	1.48	81%	44%	2	8.5	0.9	79.7
	1.29	92%	35%	3	7.4	0.8	71.6
	2.17	46%	70%	4	10.7	1.2	95.7
	2.63	38%	80%				
	3.82	23%	90%				
48 hours	1.77	71%	56%	1			
	1.56	86%	48%	2	na	na	na
	1.31	93%	36%	3	na	na	na
	2.17	43%	70%	4	na	na	na
	2.63	29%	80%				
	3.82	14%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1.41	71%	38%	1			
	1.13	80%	26%	2	1.1	0.7	1.7
	0.926	90%	15%	3	1.3	0.9	2.0
	2.2	31%	70%	4	1.3	0.9	2.0
	2.56	27%	80%				
	3.3	18%	90%				
24 hours	1.38	72%	35%	1			
	1.12	81%	25%	2	1.3	0.9	2.0
	1.03	91%	21%	3	1.2	0.8	1.8
	2.2	30%	70%	4	1.4	1.0	2.1
	2.56	26%	80%				
	3.3	19%	90%				
48 hours	1.13	74%	26%	1			
	1.03	83%	21%	2	0.8	0.4	1.8
	0.905	91%	14%	3	0.8	0.4	1.8
	2.2	35%	70%	4	1.2	0.6	2.4
	2.56	30%	80%				
	3.3	17%	90%				

Fig. 5 - 4

CD40 Ligand

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.324	0.259	0.324	0.281	0.324	0.304
average	0.492	0.381	0.492	0.347	0.492	0.370
stdev	0.501	0.343	0.501	0.356	0.501	0.300
p (t-test)		0.118		0.033		0.224
min	0.019	0.025	0.019	0.000	0.019	0.063
max	4.030	1.280	4.030	2.510	4.030	1.280
n (Samp)	257	56	257	61	257	26
n (Pat)	112	56	112	61	112	26

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.290	0.283	0.290	0.332	0.290	0.316
average	0.446	0.453	0.446	0.353	0.446	0.442
stdev	0.463	0.456	0.463	0.260	0.463	0.317
p (t-test)		0.947		0.309		0.974
min	0.000	0.028	0.000	0.020	0.000	0.069
max	4.030	1.810	4.030	1.110	4.030	1.060
n (Samp)	459	23	459	26	459	14
n (Pat)	180	23	180	26	180	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.319	0.220	0.319	0.261	0.319	0.301
average	0.503	0.339	0.503	0.378	0.503	0.324
stdev	0.525	0.308	0.525	0.393	0.525	0.276
p (t-test)		0.033		0.105		0.109
min	0.019	0.025	0.019	0.000	0.019	0.063
max	4.030	1.260	4.030	2.510	4.030	1.280
n (Samp)	213	51	213	53	213	23
n (Pat)	89	51	89	53	89	23

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.42	0.041	257	56	0.064
24 hours	0.41	0.039	257	61	0.019
48 hours	0.44	0.057	257	26	0.270

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.50	0.062	459	23	0.996
24 hours	0.47	0.057	459	26	0.607
48 hours	0.55	0.080	459	14	0.544

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.38	0.041	213	51	0.005
24 hours	0.42	0.042	213	53	0.056
48 hours	0.39	0.058	213	23	0.050

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.13	71%	16%	1			
	0.0983	80%	10%	2	1.1	0.8	1.7
	0.0662	91%	4%	3	1.4	0.9	2.0

Fig. 5 - 5

	0.579	25%	70%	4	2.0	1.4	2.8
	0.754	18%	80%				
	1.02	9%	90%				
24 hours	0.162	70%	21%	1			
	0.116	80%	14%	2	4.8	3.0	7.7
	0.0728	90%	4%	3	2.4	1.4	4.1
	0.579	11%	70%	4	4.2	2.6	6.8
	0.754	5%	80%				
	1.02	3%	90%				
48 hours	0.137	73%	17%	1			
	0.115	81%	14%	2	3.3	1.3	8.4
	0.0936	92%	10%	3	1.7	0.6	5.2
	0.579	19%	70%	4	3.3	1.3	8.5
	0.754	12%	80%				
	1.02	4%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.182	74%	30%	1			
	0.137	83%	22%	2	0.7	0.3	1.5
	0.0705	91%	6%	3	1.4	0.7	2.5
	0.508	26%	70%	4	0.8	0.4	1.8
	0.69	22%	80%				
	0.995	13%	90%				
24 hours	0.151	73%	25%	1			
	0.115	81%	17%	2	4.0	1.7	9.4
	0.0587	92%	4%	3	1.7	0.6	5.0
	0.508	15%	70%	4	2.4	0.9	6.4
	0.69	12%	80%				
	0.995	4%	90%				
48 hours	0.263	71%	46%	1			
	0.165	86%	27%	2	2.0	0.5	9.2
	0.0936	93%	12%	3	2.0	0.5	9.2
	0.508	36%	70%	4	2.0	0.4	9.1
	0.69	21%	80%				
	0.995	7%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.114	71%	11%	1			
	0.0976	82%	8%	2	1.3	0.8	2.0
	0.0722	90%	4%	3	1.3	0.8	2.0
	0.579	20%	71%	4	2.8	1.9	4.1
	0.754	14%	80%				
	1	8%	90%				
24 hours	0.164	72%	21%	1			
	0.116	81%	11%	2	2.4	1.5	3.7
	0.0871	91%	7%	3	1.8	1.1	2.8
	0.579	17%	71%	4	2.4	1.5	3.7
	0.754	9%	80%				
	1	4%	90%				
48 hours	0.111	74%	11%	1			
	0.0976	83%	8%	2	4.5	1.2	16.4
	0.0794	91%	5%	3	2.1	0.4	9.7
	0.579	13%	71%	4	5.1	1.4	18.3
	0.754	4%	80%				
	1	4%	90%				

Fig. 5 - 6

CXCL16 (C-X-C Motif chemokine 16)

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	3.852	4.618	3.852	4.317	3.852	4.307
average	5.186	5.042	5.186	5.544	5.186	5.133
stdev	5.591	2.203	5.591	3.968	5.591	2.404
p (t-test)		0.853		0.657		0.963
min	1.242	1.592	1.242	2.141	1.242	2.076
max	45.787	12.320	45.787	29.157	45.787	11.674
n (Samp)	158	55	158	57	158	25
n (Pat)	107	55	107	57	107	25

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	4.058	5.839	4.058	5.047	4.058	4.307
average	5.036	6.072	5.036	6.376	5.036	5.063
stdev	4.230	2.922	4.230	5.305	4.230	2.105
p (t-test)		0.270		0.143		0.982
min	1.242	1.592	1.242	2.141	1.242	2.076
max	45.787	12.185	45.787	29.157	45.787	8.611
n (Samp)	320	21	320	24	320	13
n (Pat)	172	21	172	24	172	13

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	3.982	4.618	3.982	4.295	3.982	4.598
average	4.613	5.150	4.613	5.061	4.613	5.308
stdev	2.598	2.305	2.598	2.512	2.598	2.417
p (t-test)		0.204		0.310		0.252
min	1.535	1.987	1.535	1.969	1.535	2.931
max	18.483	12.320	18.483	14.552	18.483	11.674
n (Samp)	134	49	134	46	134	21
n (Pat)	86	49	86	46	86	21

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.60	0.046	158	55	0.027
24 hours	0.61	0.045	158	57	0.013
48 hours	0.61	0.064	158	25	0.081

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.66	0.067	320	21	0.020
24 hours	0.63	0.063	320	24	0.039
48 hours	0.56	0.084	320	13	0.448

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.60	0.049	134	49	0.038
24 hours	0.58	0.050	134	46	0.097
48 hours	0.63	0.069	134	21	0.054

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	3.90377	71%	51%	1			
	3.24708	80%	37%	2	1.5	0.9	2.5
	2.77434	91%	23%	3	2.7	1.7	4.2

Fig. 5 - 7

	4.8617	44%	70%	4	3.1	2.0	4.8
	6.13027	25%	80%				
	9.14286	4%	91%				
24 hours	3.82304	70%	49%	1			
	3.27035	81%	39%	2	4.0	2.2	7.4
	3.01327	91%	32%	3	4.8	2.6	8.7
	4.8617	35%	70%	4	4.8	2.6	8.7
	6.13027	26%	80%				
	9.14286	9%	91%				
48 hours	3.90377	72%	51%	1			
	3.35756	80%	41%	2	7.9	0.8	81.6
	2.94658	92%	29%	3	13.8	1.5	129.7
	4.8617	28%	70%	4	6.6	0.6	71.3
	6.13027	24%	80%				
	9.14286	12%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	4.38298	71%	59%	1			
	3.90708	81%	45%	2	0.7	0.1	3.5
	1.98492	90%	3%	3	1.7	0.6	5.1
	4.91653	67%	70%	4	4.0	1.7	9.7
	6.13027	43%	80%				
	8.44643	24%	90%				
24 hours	4.07242	71%	51%	1			
	3.74074	83%	41%	2	1.0	0.4	2.8
	2.88815	92%	18%	3	1.5	0.6	3.7
	4.91653	54%	70%	4	2.7	1.3	5.6
	6.13027	38%	80%				
	8.44643	8%	90%				
48 hours	3.44681	77%	34%	1			
	3.38663	85%	34%	2	1.5	0.3	8.2
	2.90484	92%	19%	3	1.5	0.3	8.2
	4.91653	38%	70%	4	2.6	0.6	10.6
	6.13027	31%	80%				
	8.44643	8%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	3.69783	71%	43%	1			
	3.16667	82%	33%	2	1.3	0.7	2.2
	2.77434	92%	19%	3	1.8	1.1	3.0
	4.85106	43%	70%	4	3.0	1.8	4.8
	5.86207	33%	81%				
	7.75	14%	90%				
24 hours	3.44681	72%	38%	1			
	3.24708	83%	34%	2	3.6	1.9	6.9
	3.01327	91%	28%	3	3.6	1.9	6.9
	4.85106	33%	70%	4	3.3	1.7	6.2
	5.86207	26%	81%				
	7.75	15%	90%				
48 hours	4.11111	71%	56%	1			
	3.85174	81%	47%	2	1.5	0.3	8.6
	3.125	90%	32%	3	7.1	2.0	25.5
	4.85106	29%	70%	4	2.6	0.6	11.7
	5.86207	24%	81%				
	7.75	19%	90%				

Fig. 5 - 8

EN-RAGE

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	30.036	31.568	30.036	35.344	30.036	33.057
average	59.344	56.303	59.344	69.741	59.344	60.958
stdev	80.467	79.390	80.467	94.106	80.467	102.186
p (t-test)		0.828		0.465		0.932
min	0.000	1.616	0.000	2.110	0.000	10.808
max	582.406	382.303	582.406	459.659	582.406	495.754
n (Samp)	105	48	105	55	105	25
n (Pat)	99	48	99	55	99	25

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	31.141	31.801	31.141	35.072	31.141	35.344
average	58.323	120.455	58.323	125.557	58.323	93.910
stdev	74.620	290.447	74.620	244.464	74.620	149.319
p (t-test)		0.018		0.003		0.131
min	0.000	14.106	0.000	7.818	0.000	10.808
max	582.406	1187.203	582.406	1063.972	582.406	495.754
n (Samp)	241	16	241	20	241	12
n (Pat)	160	16	160	20	160	12

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	31.141	33.225	31.141	35.344	31.141	30.771
average	50.562	61.845	50.562	65.595	50.562	44.883
stdev	54.476	86.260	54.476	84.886	54.476	52.186
p (t-test)		0.360		0.209		0.664
min	0.000	1.616	0.000	2.110	0.000	2.110
max	328.866	382.303	328.866	402.412	328.866	260.355
n (Samp)	96	40	96	44	96	21
n (Pat)	84	40	84	44	84	21

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.52	0.051	105	48	0.721
24 hours	0.54	0.048	105	55	0.396
48 hours	0.54	0.065	105	25	0.583

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.53	0.076	241	16	0.703
24 hours	0.57	0.069	241	20	0.316
48 hours	0.55	0.088	241	12	0.541

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.53	0.055	96	40	0.569
24 hours	0.54	0.053	96	44	0.503
48 hours	0.51	0.070	96	21	0.838

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	19.6509	71%	36%	1			
	16.8608	83%	27%	2	2.4	1.4	4.1
	14.0877	92%	19%	3	2.7	1.6	4.6

Fig. 5 - 9

	58.6806	29%	70%	4	1.1	0.6	2.0
	84.9421	10%	80%				
	134.68	6%	90%				
24 hours	21.5526	71%	39%	1			
	16.3715	80%	26%	2	0.9	0.5	1.4
	9.71827	91%	10%	3	1.9	1.2	2.9
	58.6806	33%	70%	4	1.3	0.8	2.0
	84.9421	22%	80%				
	134.68	13%	90%				
48 hours	26.0385	72%	44%	1			
	22.4747	80%	40%	2	3.1	1.1	8.8
	16.3715	92%	26%	3	5.1	1.9	13.7
	58.6806	12%	70%	4	1.0	0.2	4.1
	84.9421	8%	80%				
	134.68	8%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	22.3226	75%	34%	1			
	19.1976	81%	30%	2	1.7	0.6	5.2
	15.5297	94%	17%	3	1.4	0.4	4.5
	58.0358	25%	70%	4	1.3	0.4	4.5
	78.2277	19%	80%				
	134.68	13%	90%				
24 hours	25.3309	70%	38%	1			
	18.7129	80%	28%	2	1.7	0.6	5.2
	11.7707	90%	11%	3	1.0	0.3	3.9
	58.0358	45%	70%	4	3.3	1.3	8.3
	78.2277	35%	80%				
	134.68	15%	90%				
48 hours	25.3309	75%	38%	1			
	21.107	83%	34%	2	4.2	0.3	52.0
	20.0521	92%	32%	3	4.2	0.3	52.0
	58.0358	25%	70%	4	3.0	0.2	44.3
	78.2277	17%	80%				
	134.68	17%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	19.6509	70%	34%	1			
	16.8608	83%	26%	2	1.6	0.9	2.8
	15.5297	90%	23%	3	1.8	1.0	3.1
	50.1062	38%	71%	4	1.2	0.6	2.2
	73.4569	15%	80%				
	130.779	8%	91%				
24 hours	21.5526	70%	36%	1			
	15.5297	86%	23%	2	1.0	0.6	1.7
	9.71827	91%	9%	3	1.5	0.9	2.5
	50.1062	34%	71%	4	1.1	0.7	2.0
	73.4569	23%	80%				
	130.779	14%	91%				
48 hours	26.0385	71%	41%	1			
	21.107	81%	36%	2	3.3	1.1	9.6
	16.3715	90%	25%	3	2.8	0.9	8.3
	50.1062	19%	71%	4	1.0	0.2	4.1
	73.4569	5%	80%				
	130.779	5%	91%				

Fig. 5 - 10

Eotaxin

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	49.900	66.000	49.900	64.700	49.900	60.000
average	71.683	83.606	71.683	75.930	71.683	79.620
stdev	69.575	68.019	69.575	55.806	69.575	56.883
p (t-test)		0.244		0.657		0.574
min	0.410	0.410	0.410	0.410	0.410	0.410
max	441.000	373.000	441.000	335.000	441.000	239.000
n (Samp)	257	56	257	61	257	26
n (Pat)	112	56	112	61	112	26

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	56.800	64.400	56.800	48.250	56.800	90.800
average	76.222	74.500	76.222	73.569	76.222	106.486
stdev	86.693	41.650	86.693	56.158	86.693	91.355
p (t-test)		0.925		0.878		0.200
min	0.410	25.100	0.410	11.500	0.410	25.100
max	1240.000	197.000	1240.000	212.000	1240.000	391.000
n (Samp)	459	23	459	26	459	14
n (Pat)	180	23	180	26	180	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	53.100	71.600	53.100	65.300	53.100	60.000
average	74.094	88.906	74.094	81.127	74.094	83.474
stdev	71.367	69.790	71.367	59.419	71.367	61.817
p (t-test)		0.182		0.508		0.545
min	0.410	0.410	0.410	0.410	0.410	0.410
max	441.000	373.000	441.000	335.000	441.000	239.000
n (Samp)	213	51	213	53	213	23
n (Pat)	89	51	89	53	89	23

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.59	0.043	257	56	0.039
24 hours	0.57	0.042	257	61	0.111
48 hours	0.59	0.061	257	26	0.143

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.57	0.063	459	23	0.301
24 hours	0.51	0.058	459	26	0.926
48 hours	0.66	0.081	459	14	0.046

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.60	0.046	213	51	0.023
24 hours	0.58	0.045	213	53	0.087
48 hours	0.58	0.065	213	23	0.239

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	47.5	71%	46%	1			
	39.5	80%	39%	2	1.8	1.1	2.8
	24.9	93%	18%	3	2.6	1.7	4.0

Fig. 5 - 11

	77.9	38%	71%	4	2.4	1.6	3.7
	99.9	27%	80%				
	158	11%	90%				
24 hours	46.5	72%	45%	1			
	31.9	80%	29%	2	1.6	1.1	2.3
	20.2	90%	16%	3	2.0	1.4	2.9
	77.9	36%	71%	4	2.0	1.4	2.9
	99.9	25%	80%				
	158	5%	90%				
48 hours	43.5	73%	42%	1			
	39.5	81%	39%	2	3.7	1.0	13.9
	30.6	92%	28%	3	3.7	1.0	13.9
	77.9	42%	71%	4	5.6	1.6	19.2
	99.9	31%	80%				
	158	8%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	47.5	74%	41%	1			
	46.5	83%	40%	2	10.7	1.2	95.8
	32.8	96%	27%	3	7.4	0.8	71.6
	81.5	35%	70%	4	5.1	0.5	55.7
	104	17%	80%				
	156	9%	90%				
24 hours	31.8	77%	26%	1			
	27.3	92%	19%	2	1.4	0.7	2.5
	27.3	92%	19%	3	0.8	0.4	1.8
	81.5	31%	70%	4	1.2	0.6	2.2
	104	27%	80%				
	156	12%	90%				
48 hours	60	71%	53%	1			
	43.5	86%	37%	2	2.0	0.1	39.5
	39.5	93%	34%	3	4.1	0.3	49.2
	81.5	57%	70%	4	7.3	0.8	71.1
	104	36%	80%				
	156	14%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	57.1	71%	54%	1			
	46.4	80%	43%	2	1.3	0.8	2.3
	24.9	92%	17%	3	3.9	2.5	6.2
	85.7	37%	70%	4	2.3	1.4	3.7
	107	22%	80%				
	154	12%	90%				
24 hours	49.6	74%	49%	1			
	38.4	81%	31%	2	1.4	0.9	2.3
	20.2	91%	16%	3	2.7	1.8	4.2
	85.7	34%	70%	4	2.3	1.5	3.5
	107	26%	80%				
	154	9%	90%				
48 hours	46.5	74%	43%	1			
	30.6	91%	26%	2	2.1	0.7	6.1
	30.6	91%	26%	3	2.1	0.7	6.1
	85.7	39%	70%	4	2.9	1.1	7.7
	107	35%	80%				
	154	9%	90%				

Fig. 5 - 12

E-selectin

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	8.249	11.058	8.249	9.903	8.249	na
average	9.294	13.658	9.294	12.397	9.294	na
stdev	4.547	12.009	4.547	9.779	4.547	na
p (t-test)		0.128		0.167		na
min	3.422	4.738	3.422	2.991	3.422	na
max	18.492	42.140	18.492	46.625	18.492	na
n (Samp)	26	8	26	17	26	0
n (Pat)	25	8	25	17	25	0

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	8.873	8.860	8.873	9.903	8.873	1.155
average	11.125	8.860	11.125	11.525	11.125	12.197
stdev	9.118	2.367	9.118	6.821	9.118	na
p (t-test)		0.730		0.901		na
min	1.155	7.186	1.155	2.991	1.155	12.197
max	46.625	10.534	46.625	23.028	46.625	12.197
n (Samp)	47	2	47	9	47	1
n (Pat)	44	2	44	9	44	1

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	7.319	11.583	7.319	11.364	7.319	3.422
average	8.665	14.583	8.665	13.640	8.665	19.984
stdev	4.060	12.660	4.060	11.375	4.060	na
p (t-test)		0.042		0.052		na
min	3.422	4.738	3.422	5.709	3.422	19.984
max	18.141	42.140	18.141	46.625	18.141	19.984
n (Samp)	27	7	27	11	27	1
n (Pat)	25	7	25	11	25	1

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.60	0.119	26	8	0.398
24 hours	0.60	0.090	26	17	0.247
48 hours	nd	nd	26	0	nd

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.50	0.211	47	2	1.000
24 hours	0.56	0.108	47	9	0.606
48 hours	0.68	0.301	47	1	0.548

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.66	0.124	27	7	0.207
24 hours	0.69	0.101	27	11	0.063
48 hours	1.00	0.000	27	1	nd

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	6.92209	75%	42%	1			
	5.50832	88%	31%	2	2.0	0.1	66.2
	4.19113	100%	12%	3	2.3	0.1	81.0

Fig. 5 - 13

	12.1661	38%	73%	4	3.5	0.1	87.6
	13.0751	25%	81%				
	17.2592	13%	92%				
24 hours	8.15542	71%	50%	1			
	5.92073	82%	31%	2	3.3	0.5	23.3
	5.50832	94%	31%	3	3.3	0.5	23.3
	12.1661	35%	73%	4	3.3	0.5	23.3
	13.0751	29%	81%				
	17.2592	12%	92%				
48 hours	na	na	na	1			
	na	na	na	2	na	na	na
	na	na	na	3	na	na	na
	na	na	na	4	na	na	na
	na	na	na				
	na	na	na				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	7.17611	100%	40%	1			
	7.17611	100%	40%	2	na	na	na
	7.17611	100%	40%	3	na	na	na
	12.427	0%	70%	4	na	na	na
	14.0922	0%	81%				
	18.1406	0%	91%				
24 hours	5.78981	78%	28%	1			
	5.77974	89%	28%	2	3.5	0.2	67.2
	1.15465	100%	2%	3	2.2	0.1	56.1
	12.427	33%	70%	4	3.5	0.2	67.2
	14.0922	33%	81%				
	18.1406	22%	91%				
48 hours	12.1661	100%	68%	1			
	12.1661	100%	68%	2	na	na	na
	12.1661	100%	68%	3	na	na	na
	12.427	0%	70%	4	na	na	na
	14.0922	0%	81%				
	18.1406	0%	91%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	9.84124	71%	70%	1			
	5.50832	86%	30%	2	0.9	0.0	74.5
	4.19113	100%	11%	3	2.3	0.1	81.0
	9.84124	71%	70%	4	3.5	0.1	87.6
	12.1661	43%	81%				
	14.7546	14%	93%				
24 hours	8.15542	73%	56%	1			
	7.62421	82%	56%	2	3.4	0.1	79.1
	5.92073	91%	33%	3	2.3	0.1	73.1
	9.84124	55%	70%	4	8.0	0.4	158.9
	12.1661	45%	81%				
	14.7546	9%	93%				
48 hours	18.1406	100%	100%	1			
	18.1406	100%	100%	2	na	na	na
	18.1406	100%	100%	3	na	na	na
	9.84124	100%	70%	4	na	na	na
	12.1661	100%	81%				
	14.7546	100%	93%				

Fig. 5 - 14

Fibronectin

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	270138.890	233942.280	270138.890	227286.327	270138.890	na
average	275736.272	269443.010	275736.272	231194.180	275736.272	na
stdev	96995.024	169671.512	96995.024	85217.221	96995.024	na
p (t-test)		0.895		0.131		na
min	56713.581	123404.707	56713.581	98880.874	56713.581	na
max	467390.708	620512.175	467390.708	389123.937	467390.708	na
n (Samp)	26	8	26	17	26	0
n (Pat)	25	8	25	17	25	0

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	238191.877	311320.553	238191.877	336115.111	238191.877	56713.581
average	255705.979	311320.553	255705.979	296245.196	255705.979	375418.393
stdev	117051.065	115439.239	117051.065	85659.532	117051.065	na
p (t-test)		0.514		0.328		na
min	56713.581	229692.684	56713.581	128509.435	56713.581	375418.393
max	620512.175	392948.422	620512.175	389123.937	620512.175	375418.393
n (Samp)	47	2	47	9	47	1
n (Pat)	44	2	44	9	44	1

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	259659.017	238191.877	259659.017	182445.159	259659.017	56713.581
average	268537.793	275121.628	268537.793	177628.468	268537.793	185343.308
stdev	88409.373	182443.206	88409.373	43351.547	88409.373	na
p (t-test)		0.891		0.003		na
min	56713.581	123404.707	56713.581	98880.874	56713.581	185343.308
max	413982.406	620512.175	413982.406	229692.684	413982.406	185343.308
n (Samp)	27	7	27	11	27	1
n (Pat)	25	7	25	11	25	1

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.40	0.112	26	8	0.390
24 hours	0.35	0.084	26	17	0.071
48 hours	nd	nd	26	0	nd

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.66	0.216	47	2	0.460
24 hours	0.65	0.107	47	9	0.174
48 hours	0.85	0.244	47	1	0.151

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.43	0.119	27	7	0.549
24 hours	0.16	0.065	27	11	0.000
48 hours	0.15	0.143	27	1	0.014

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	130291	75%	8%	1			
	126889	88%	8%	2	0.5	0.0	16.6
	56713.6	100%	4%	3	1.0	0.1	12.4

Fig. 5 - 15

	326303	25%	73%	4	2.1	0.2	21.1
	355014	25%	81%				
	406971	13%	92%				
24 hours	175438	71%	15%	1			
	154791	82%	15%	2	0.2	0.0	3.3
	98880.9	94%	4%	3	2.1	0.5	9.3
	326303	24%	73%	4	2.6	0.5	12.8
	355014	6%	81%				
	406971	0%	92%				
48 hours	na	na	na	1			
	na	na	na	2	na	na	na
	na	na	na	3	na	na	na
	na	na	na	4	na	na	na
	na	na	na				
	na	na	na				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	228409	100%	47%	1			
	228409	100%	47%	2	na	na	na
	228409	100%	47%	3	na	na	na
	301476	50%	70%	4	na	na	na
	344569	50%	81%				
	413982	0%	91%				
24 hours	228409	78%	47%	1			
	222232	89%	45%	2	2.2	0.1	56.1
	126889	100%	13%	3	2.2	0.1	56.1
	301476	56%	70%	4	5.2	0.3	85.2
	344569	44%	81%				
	413982	0%	91%				
48 hours	362587	100%	85%	1			
	362587	100%	85%	2	na	na	na
	362587	100%	85%	3	na	na	na
	301476	100%	70%	4	na	na	na
	344569	100%	81%				
	413982	0%	91%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	130291	71%	7%	1			
	126889	86%	7%	2	0.5	0.0	16.6
	56713.6	100%	4%	3	0.4	0.0	14.0
	311697	29%	70%	4	2.1	0.2	21.1
	351984	29%	81%				
	398685	14%	93%				
24 hours	154791	73%	15%	1			
	126889	82%	7%	2	na	na	na
	98880.9	91%	4%	3	na	na	na
	311697	0%	70%	4	na	na	na
	351984	0%	81%				
	398685	0%	93%				
48 hours	154791	100%	15%	1			
	154791	100%	15%	2	na	na	na
	154791	100%	15%	3	na	na	na
	311697	0%	70%	4	na	na	na
	351984	0%	81%				
	398685	0%	93%				

Fig. 5 - 16

Granulocyte colony-stimulating factor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	17.800	27.600	17.800	30.700	17.800	34.800
average	57.285	89.398	57.285	238.639	57.285	749.138
stdev	263.830	294.771	263.830	619.325	263.830	2338.868
p (t-test)		0.420		0.000		0.000
min	0.050	2.130	0.050	2.490	0.050	4.400
max	3280.000	2200.000	3280.000	3330.000	3280.000	11103.000
n (Samp)	257	56	257	61	257	26
n (Pat)	112	56	112	61	112	26

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	20.700	23.800	20.700	22.000	20.700	16.000
average	158.817	48.129	158.817	202.845	158.817	372.577
stdev	932.655	62.474	932.655	437.559	932.655	1323.290
p (t-test)		0.570		0.811		0.405
min	0.050	2.130	0.050	2.490	0.050	4.400
max	11103.000	296.000	11103.000	1870.000	11103.000	4970.000
n (Samp)	459	23	459	26	459	14
n (Pat)	180	23	180	26	180	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	20.200	25.000	20.200	30.400	20.200	34.900
average	88.576	90.326	88.576	346.606	88.576	636.291
stdev	446.150	307.321	446.150	1051.479	446.150	2309.734
p (t-test)		0.979		0.007		0.003
min	0.050	2.750	0.050	6.110	0.050	9.100
max	4970.000	2200.000	4970.000	6280.000	4970.000	11103.000
n (Samp)	213	51	213	53	213	23
n (Pat)	89	51	89	53	89	23

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.61	0.043	257	56	0.012
24 hours	0.66	0.041	257	61	0.000
48 hours	0.66	0.061	257	26	0.010

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.54	0.063	459	23	0.576
24 hours	0.57	0.060	459	26	0.244
48 hours	0.41	0.073	459	14	0.241

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.59	0.046	213	51	0.055
24 hours	0.63	0.045	213	53	0.003
48 hours	0.67	0.064	213	23	0.008

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	16.5	71%	46%	1			
	13.6	82%	39%	2	1.0	0.6	1.6
	7.29	91%	14%	3	1.4	0.9	2.0

Fig. 5 - 17

	30.7	48%	70%	4	2.8	2.0	3.9
	39.2	39%	80%				
	80.1	20%	90%				
24 hours	16.5	70%	46%	1			
	13.6	80%	39%	2	2.4	1.5	3.8
	11	90%	28%	3	1.7	1.0	2.8
	30.7	49%	70%	4	5.5	3.7	8.4
	39.2	46%	80%				
	80.1	30%	90%				
48 hours	17.4	73%	49%	1			
	13.7	81%	39%	2	1.7	0.6	5.1
	9.36	92%	21%	3	2.1	0.7	5.8
	30.7	54%	70%	4	4.5	1.9	10.9
	39.2	46%	80%				
	80.1	23%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	15.2	74%	36%	1			
	8.73	83%	13%	2	0.6	0.3	1.5
	6.11	91%	7%	3	0.8	0.4	1.8
	37.9	48%	70%	4	1.3	0.7	2.5
	57.9	26%	80%				
	117	4%	90%				
24 hours	14.5	73%	34%	1			
	13.6	81%	30%	2	1.4	0.7	2.9
	8.43	92%	12%	3	0.8	0.3	2.0
	37.9	42%	70%	4	2.1	1.1	3.9
	57.9	38%	80%				
	117	23%	90%				
48 hours	11.6	71%	23%	1			
	9.38	86%	16%	2	2.1	0.5	9.2
	7.73	93%	11%	3	1.5	0.3	8.1
	37.9	21%	70%	4	2.6	0.6	10.6
	57.9	7%	80%				
	117	7%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	16.5	71%	40%	1			
	13.5	82%	34%	2	1.6	1.0	2.4
	10.3	90%	23%	3	1.3	0.8	2.0
	34.5	41%	70%	4	2.4	1.6	3.5
	45.3	33%	81%				
	98	18%	90%				
24 hours	16.2	74%	39%	1			
	13.5	81%	34%	2	2.4	1.5	3.9
	11	91%	25%	3	1.2	0.6	2.1
	34.5	45%	70%	4	4.4	2.8	6.9
	45.3	40%	81%				
	98	23%	90%				
48 hours	18.5	74%	47%	1			
	13.8	83%	35%	2	3.2	0.8	12.8
	12.3	91%	30%	3	2.1	0.4	9.7
	34.5	57%	70%	4	6.5	1.9	22.4
	45.3	48%	81%				
	98	22%	90%				

Fig. 5 - 18

Granulocyte-macrophage colony-stimulating factor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.574	0.574	0.574	0.574	0.574	0.574
average	5.126	2.404	5.126	4.591	5.126	2.681
stdev	18.333	4.680	18.333	6.381	18.333	4.081
p (t-test)		0.271		0.822		0.499
min	0.574	0.574	0.574	0.574	0.574	0.574
max	277.000	21.700	277.000	26.700	277.000	13.600
n (Samp)	257	56	257	61	257	26
n (Pat)	112	56	112	61	112	26

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.574	0.574	0.574	0.574	0.574	0.574
average	4.952	4.564	4.952	4.965	4.952	3.358
stdev	15.307	6.977	15.307	5.825	15.307	5.660
p (t-test)		0.904		0.997		0.698
min	0.574	0.574	0.574	0.574	0.574	0.574
max	277.000	21.500	277.000	19.900	277.000	16.600
n (Samp)	459	23	459	26	459	14
n (Pat)	180	23	180	26	180	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.574	0.574	0.574	0.574	0.574	0.574
average	5.536	2.960	5.536	4.714	5.536	2.318
stdev	19.941	5.093	19.941	6.206	19.941	3.452
p (t-test)		0.362		0.767		0.441
min	0.574	0.574	0.574	0.574	0.574	0.574
max	277.000	21.700	277.000	26.700	277.000	11.100
n (Samp)	213	51	213	53	213	23
n (Pat)	89	51	89	53	89	23

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.42	0.041	257	56	0.056
24 hours	0.52	0.042	257	61	0.549
48 hours	0.45	0.058	257	26	0.399

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.50	0.062	459	23	0.985
24 hours	0.56	0.060	459	26	0.349
48 hours	0.45	0.076	459	14	0.530

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.44	0.044	213	51	0.207
24 hours	0.53	0.045	213	53	0.490
48 hours	0.43	0.060	213	23	0.268

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	1.7	1.1	2.6
	0	100%	0%	3	2.3	1.6	3.4

Fig. 5 - 19

	5	16%	71%	4	1.9	1.2	2.8
	7.28	9%	81%				
	12.1	5%	91%				
24 hours	0	100%	0%	1			
	0	100%	0%	2	1.5	1.1	2.1
	0	100%	0%	3	1.3	0.9	1.9
	5	28%	71%	4	1.5	1.1	2.1
	7.28	26%	81%				
	12.1	11%	91%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	0.0	0.0	na
	0	100%	0%	3	2.9	1.7	4.9
	5	23%	71%	4	0.8	0.4	1.8
	7.28	15%	81%				
	12.1	4%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	1.5	0.9	2.5
	0	100%	0%	3	0.8	0.4	1.6
	5.53	30%	70%	4	0.0	0.0	na
	7.28	26%	81%				
	12.1	13%	92%				
24 hours	0	100%	0%	1			
	0	100%	0%	2	na	na	na
	0	100%	0%	3	na	na	na
	5.53	38%	70%	4	na	na	na
	7.28	23%	81%				
	12.1	15%	92%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	0.0	0.0	na
	0	100%	0%	3	4.0	1.7	9.5
	5.53	21%	70%	4	0.0	0.0	na
	7.28	21%	81%				
	12.1	14%	92%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	0.1	0.0	0.7
	0	100%	0%	3	4.2	3.0	5.8
	5	22%	70%	4	0.8	0.5	1.3
	7.28	12%	81%				
	12.4	6%	91%				
24 hours	0	100%	0%	1			
	0	100%	0%	2	2.1	1.5	3.0
	0	100%	0%	3	0.6	0.4	1.0
	5	28%	70%	4	1.4	1.0	2.1
	7.28	28%	81%				
	12.4	9%	91%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	0.0	0.0	na
	0	100%	0%	3	3.1	1.6	5.7
	5	22%	70%	4	1.0	0.4	2.4
	7.28	13%	81%				
	12.4	0%	91%				

Fig. 5 - 20

Heparin-binding growth factor 2

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	72.800	83.800	72.800	190.000	72.800	117.000
average	114.544	252.314	114.544	324.423	114.544	160.440
stdev	167.455	1115.593	167.455	1103.034	167.455	155.678
p (t-test)		0.059		0.004		0.181
min	0.980	0.980	0.980	0.980	0.980	0.980
max	1280.000	8410.000	1280.000	8750.000	1280.000	489.000
n (Samp)	257	56	257	61	257	26
n (Pat)	112	56	112	61	112	26

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	90.600	117.000	90.600	158.000	90.600	111.500
average	138.276	278.217	138.276	527.932	138.276	452.310
stdev	221.207	762.147	221.207	1826.294	221.207	1082.141
p (t-test)		0.016		0.000		0.000
min	0.980	0.980	0.980	0.980	0.980	0.980
max	2520.000	3720.000	2520.000	9460.000	2520.000	4170.000
n (Samp)	459	23	459	26	459	14
n (Pat)	180	23	180	26	180	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	76.300	117.000	76.300	201.000	76.300	141.000
average	128.644	281.775	128.644	356.027	128.644	165.098
stdev	177.941	1166.816	177.941	1181.814	177.941	149.401
p (t-test)		0.067		0.007		0.345
min	0.980	0.980	0.980	0.980	0.980	0.980
max	1280.000	8410.000	1280.000	8750.000	1280.000	428.000
n (Samp)	213	51	213	53	213	23
n (Pat)	89	51	89	53	89	23

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.51	0.043	257	56	0.745
24 hours	0.71	0.040	257	61	0.000
48 hours	0.60	0.061	257	26	0.097

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.51	0.062	459	23	0.885
24 hours	0.64	0.060	459	26	0.023
48 hours	0.60	0.081	459	14	0.238

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.53	0.046	213	51	0.509
24 hours	0.69	0.043	213	53	0.000
48 hours	0.59	0.065	213	23	0.149

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	na	na	na
	0	100%	0%	3	na	na	na

Fig. 5 - 21

	138	38%	70%	4	na	na	na
	179	27%	80%				
	282	13%	91%				
24 hours	131	75%	67%	1			
	76.3	80%	54%	2	6.8	2.1	22.5
	0	100%	0%	3	11.4	3.6	35.8
	138	64%	70%	4	21.9	7.2	66.5
	179	51%	80%				
	282	20%	91%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	na	na	na
	0	100%	0%	3	na	na	na
	138	46%	70%	4	na	na	na
	179	38%	80%				
	282	27%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	na	na	na
	0	100%	0%	3	na	na	na
	162	35%	72%	4	na	na	na
	216	30%	81%				
	296	17%	90%				
24 hours	78.2	73%	47%	1			
	58.2	85%	40%	2	na	na	na
	0	100%	0%	3	na	na	na
	162	38%	72%	4	na	na	na
	216	35%	81%				
	296	15%	90%				
48 hours	90.6	71%	50%	1			
	0	100%	0%	2	0.7	0.1	3.5
	0	100%	0%	3	1.3	0.4	4.4
	162	36%	72%	4	1.7	0.6	4.9
	216	36%	81%				
	296	29%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	0.8	0.5	1.2
	0	100%	0%	3	1.2	0.8	1.8
	158	39%	71%	4	1.3	0.9	1.9
	217	22%	80%				
	319	8%	91%				
24 hours	133	72%	66%	1			
	76.3	83%	51%	2	1.8	0.8	4.2
	0	100%	0%	3	6.3	3.2	12.2
	158	62%	71%	4	8.1	4.2	15.5
	217	43%	80%				
	319	15%	91%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	na	na	na
	0	100%	0%	3	na	na	na
	158	43%	71%	4	na	na	na
	217	35%	80%				
	319	26%	91%				

Fig. 5 - 22

Interleukin-1 receptor antagonist

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	239.000	249.500	239.000	269.000	239.000	284.000
average	806.606	457.437	806.606	1039.672	806.606	1002.346
stdev	3314.991	584.337	3314.991	3999.227	3314.991	2238.945
p (t-test)		0.433		0.636		0.769
min	0.150	0.150	0.150	35.100	0.150	101.000
max	43939.000	2720.000	43939.000	31100.000	43939.000	11500.000
n (Samp)	257	56	257	61	257	26
n (Pat)	112	56	112	61	112	26

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	230.000	356.000	230.000	339.000	230.000	274.000
average	860.167	997.280	860.167	946.769	860.167	1243.571
stdev	3990.748	1747.003	3990.748	1518.849	3990.748	2996.860
p (t-test)		0.870		0.912		0.722
min	0.150	0.150	0.150	120.000	0.150	114.000
max	58400.000	8150.000	58400.000	7350.000	58400.000	11500.000
n (Samp)	459	23	459	26	459	14
n (Pat)	180	23	180	26	180	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	255.000	250.000	255.000	269.000	255.000	287.000
average	770.500	493.253	770.500	1912.062	770.500	600.552
stdev	3251.168	836.021	3251.168	7115.248	3251.168	690.211
p (t-test)		0.547		0.085		0.803
min	0.150	23.500	0.150	35.100	0.150	51.700
max	43939.000	5550.000	43939.000	42500.000	43939.000	2160.000
n (Samp)	213	51	213	53	213	23
n (Pat)	89	51	89	53	89	23

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.50	0.043	257	56	0.982
24 hours	0.53	0.042	257	61	0.468
48 hours	0.57	0.061	257	26	0.267

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.61	0.064	459	23	0.085
24 hours	0.63	0.060	459	26	0.030
48 hours	0.56	0.081	459	14	0.437

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.50	0.045	213	51	0.998
24 hours	0.53	0.045	213	53	0.540
48 hours	0.54	0.065	213	23	0.503

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	175	71%	33%	1			
	126	80%	17%	2	0.9	0.6	1.3
	74.4	93%	5%	3	0.9	0.6	1.3

Fig. 5 - 23

	363	34%	70%	4	1.2	0.8	1.6
	531	18%	80%				
	985	11%	90%				
24 hours	175	70%	33%	1			
	143	82%	21%	2	0.7	0.5	1.0
	118	90%	15%	3	1.4	1.1	1.9
	363	31%	70%	4	1.0	0.7	1.4
	531	23%	80%				
	985	16%	90%				
48 hours	195	73%	39%	1			
	142	81%	20%	2	0.5	0.2	1.2
	114	92%	14%	3	0.7	0.3	1.4
	363	38%	70%	4	1.5	0.9	2.5
	531	31%	80%				
	985	23%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	219	74%	47%	1			
	173	83%	34%	2	0.7	0.2	2.4
	99.7	91%	10%	3	2.4	1.1	4.9
	348	52%	70%	4	1.8	0.8	4.0
	514	30%	80%				
	1020	26%	90%				
24 hours	180	73%	36%	1			
	158	81%	28%	2	1.0	0.4	2.8
	143	92%	22%	3	2.1	1.0	4.5
	348	46%	70%	4	2.6	1.3	5.4
	514	35%	80%				
	1020	31%	90%				
48 hours	199	71%	42%	1			
	142	86%	22%	2	0.7	0.1	3.5
	113	100%	13%	3	1.7	0.6	5.0
	348	29%	70%	4	1.3	0.4	4.3
	514	29%	80%				
	1020	21%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	190	71%	35%	1			
	126	82%	13%	2	0.7	0.5	1.1
	73.8	92%	2%	3	1.1	0.8	1.5
	364	35%	70%	4	0.7	0.5	1.1
	537	18%	80%				
	873	12%	90%				
24 hours	175	72%	30%	1			
	132	81%	15%	2	0.9	0.6	1.3
	108	92%	9%	3	0.9	0.6	1.3
	364	34%	70%	4	1.3	0.9	1.8
	537	26%	80%				
	873	17%	90%				
48 hours	195	74%	37%	1			
	138	83%	17%	2	0.6	0.3	1.6
	114	91%	11%	3	0.8	0.4	1.8
	364	35%	70%	4	1.4	0.7	2.6
	537	26%	80%				
	873	22%	90%				

Fig. 5 - 24

Interleukin-1 beta

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.015	0.015	0.015	0.015	0.015	0.015
average	0.189	0.191	0.189	0.233	0.189	0.330
stdev	0.481	0.323	0.481	0.536	0.481	0.798
p (t-test)		0.979		0.530		0.189
min	0.015	0.015	0.015	0.015	0.015	0.015
max	3.990	1.060	3.990	2.870	3.990	3.180
n (Samp)	257	56	257	61	257	26
n (Pat)	112	56	112	61	112	26

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.015	0.015	0.015	0.015	0.015	0.015
average	0.347	0.397	0.347	0.268	0.347	0.189
stdev	3.013	0.678	3.013	0.480	3.013	0.476
p (t-test)		0.937		0.894		0.844
min	0.015	0.015	0.015	0.015	0.015	0.015
max	63.800	2.390	63.800	1.840	63.800	1.680
n (Samp)	459	23	459	26	459	14
n (Pat)	180	23	180	26	180	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.015	0.015	0.015	0.015	0.015	0.015
average	0.156	0.195	0.156	0.250	0.156	0.337
stdev	0.449	0.326	0.449	0.557	0.449	0.840
p (t-test)		0.568		0.196		0.100
min	0.015	0.015	0.015	0.015	0.015	0.015
max	3.990	1.060	3.990	2.870	3.990	3.180
n (Samp)	213	51	213	53	213	23
n (Pat)	89	51	89	53	89	23

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.53	0.043	257	56	0.504
24 hours	0.51	0.041	257	61	0.870
48 hours	0.53	0.060	257	26	0.590

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.56	0.063	459	23	0.329
24 hours	0.54	0.059	459	26	0.548
48 hours	0.48	0.077	459	14	0.753

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.55	0.046	213	51	0.285
24 hours	0.53	0.045	213	53	0.510
48 hours	0.55	0.065	213	23	0.485

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	3.4	2.5	4.6
	0	100%	0%	3	0.0	0.0	na

Fig. 5 - 25

	0.0146	25%	81%	4	1.2	0.8	1.7
	0.0146	25%	81%				
	0.639	16%	90%				
24 hours	0	100%	0%	1			
	0	100%	0%	2	5.6	4.1	7.6
	0	100%	0%	3	0.0	0.0	na
	0.0146	20%	81%	4	1.1	0.7	1.6
	0.0146	20%	81%				
	0.639	13%	90%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	4.4	2.2	8.8
	0	100%	0%	3	0.0	0.0	na
	0.0146	27%	81%	4	1.8	0.8	4.1
	0.0146	27%	81%				
	0.639	12%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	16.8	2.0	141.1
	0	100%	0%	3	0.0	0.0	na
	0.0146	30%	79%	4	7.3	0.8	71.0
	0.359	30%	80%				
	0.773	17%	92%				
24 hours	0	100%	0%	1			
	0	100%	0%	2	na	na	na
	0	100%	0%	3	na	na	na
	0.0146	27%	79%	4	na	na	na
	0.359	27%	80%				
	0.773	12%	92%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	0.0	0.0	na
	0	100%	0%	3	6.6	2.0	21.5
	0.0146	14%	79%	4	0.0	0.0	na
	0.359	14%	80%				
	0.773	14%	92%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	6.0	4.1	9.0
	0	100%	0%	3	0.0	0.0	na
	0.0146	25%	84%	4	1.8	1.1	2.8
	0.0146	25%	84%				
	0.511	20%	91%				
24 hours	0	100%	0%	1			
	0	100%	0%	2	5.1	3.5	7.4
	0	100%	0%	3	0.3	0.1	0.8
	0.0146	21%	84%	4	1.2	0.8	2.0
	0.0146	21%	84%				
	0.511	17%	91%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	3.9	1.9	8.0
	0	100%	0%	3	0.0	0.0	na
	0.0146	26%	84%	4	1.6	0.6	3.8
	0.0146	26%	84%				
	0.511	9%	91%				

Fig. 5 - 26

Interleukin-10

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	15.000	15.650	15.000	22.300	15.000	16.500
average	27.532	21.583	27.532	86.116	27.532	52.355
stdev	50.406	30.323	50.406	314.858	50.406	97.741
p (t-test)		0.396		0.005		0.033
min	0.154	0.154	0.154	0.154	0.154	4.400
max	480.000	222.000	480.000	2440.000	480.000	398.000
n (Samp)	257	56	257	61	257	26
n (Pat)	112	56	112	61	112	26

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	16.200	15.600	16.200	18.500	16.200	11.100
average	63.128	30.559	63.128	43.293	63.128	35.702
stdev	635.846	46.653	635.846	52.944	635.846	81.935
p (t-test)		0.806		0.874		0.872
min	0.154	0.154	0.154	0.154	0.154	4.400
max	13400.000	222.000	13400.000	189.000	13400.000	318.000
n (Samp)	459	23	459	26	459	14
n (Pat)	180	23	180	26	180	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	14.500	17.600	14.500	23.400	14.500	16.800
average	24.564	21.048	24.564	92.217	24.564	46.689
stdev	35.553	16.057	35.553	336.808	35.553	85.826
p (t-test)		0.492		0.004		0.020
min	0.154	0.154	0.154	0.154	0.154	5.050
max	318.000	65.700	318.000	2440.000	318.000	398.000
n (Samp)	213	51	213	53	213	23
n (Pat)	89	51	89	53	89	23

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.49	0.042	257	56	0.784
24 hours	0.60	0.042	257	61	0.015
48 hours	0.52	0.060	257	26	0.758

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.49	0.061	459	23	0.862
24 hours	0.55	0.060	459	26	0.370
48 hours	0.39	0.071	459	14	0.134

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.53	0.046	213	51	0.499
24 hours	0.63	0.045	213	53	0.004
48 hours	0.56	0.065	213	23	0.363

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	10.2	73%	32%	1			
	7.57	80%	18%	2	1.7	1.2	2.3
	4.88	91%	7%	3	1.1	0.8	1.6

Fig. 5 - 27

	22.8	29%	70%	4	1.1	0.8	1.6
	30.4	18%	80%				
	47	5%	90%				
24 hours	12.5	70%	43%	1			
	10.5	80%	34%	2	1.2	0.8	1.8
	5.01	90%	8%	3	1.4	1.0	2.1
	22.8	49%	70%	4	2.3	1.7	3.3
	30.4	34%	80%				
	47	21%	90%				
48 hours	8.18	73%	21%	1			
	6.65	81%	14%	2	0.2	0.1	0.7
	5.01	92%	8%	3	0.7	0.4	1.3
	22.8	35%	70%	4	0.9	0.5	1.5
	30.4	23%	80%				
	47	19%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	9.81	74%	27%	1			
	7.57	83%	16%	2	0.7	0.3	1.5
	4.84	91%	6%	3	1.2	0.6	2.2
	24.4	26%	70%	4	1.0	0.5	2.0
	32	26%	80%				
	52.3	17%	90%				
24 hours	9.35	73%	25%	1			
	8.1	81%	18%	2	0.7	0.3	1.4
	6.31	92%	10%	3	0.6	0.2	1.2
	24.4	42%	70%	4	1.5	0.9	2.4
	32	38%	80%				
	52.3	31%	90%				
48 hours	8.18	71%	19%	1			
	5.97	86%	10%	2	0.3	0.0	4.7
	5	93%	7%	3	1.7	0.6	5.0
	24.4	21%	70%	4	1.7	0.6	5.0
	32	14%	80%				
	52.3	7%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	11.7	71%	41%	1			
	8.43	80%	23%	2	0.8	0.5	1.3
	6.31	90%	9%	3	1.9	1.3	2.7
	22.8	31%	71%	4	1.2	0.8	1.8
	28.9	24%	80%				
	45.4	8%	90%				
24 hours	13.2	72%	46%	1			
	11	81%	36%	2	1.7	1.0	2.8
	6.38	91%	10%	3	2.5	1.5	4.0
	22.8	53%	71%	4	3.6	2.3	5.6
	28.9	32%	80%				
	45.4	21%	90%				
48 hours	10.3	74%	33%	1			
	8.1	83%	19%	2	0.5	0.2	1.4
	6.65	91%	12%	3	1.2	0.6	2.4
	22.8	35%	71%	4	1.2	0.6	2.4
	28.9	26%	80%				
	45.4	22%	90%				

Fig. 5 - 28

Interleukin-15

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.172	0.013	0.172	0.013	0.172	0.069
average	0.209	0.115	0.209	0.112	0.209	0.106
stdev	0.228	0.150	0.228	0.135	0.228	0.112
p (t-test)		0.003		0.002		0.023
min	0.013	0.013	0.013	0.013	0.013	0.013
max	1.760	0.628	1.760	0.471	1.760	0.359
n (Samp)	257	56	257	61	257	26
n (Pat)	112	56	112	61	112	26

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.123	0.095	0.123	0.013	0.123	0.042
average	0.198	0.219	0.198	0.140	0.198	0.123
stdev	0.367	0.365	0.367	0.190	0.367	0.151
p (t-test)		0.787		0.425		0.445
min	0.013	0.013	0.013	0.013	0.013	0.013
max	6.590	1.700	6.590	0.618	6.590	0.497
n (Samp)	459	23	459	26	459	14
n (Pat)	180	23	180	26	180	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.154	0.013	0.154	0.068	0.154	0.110
average	0.202	0.107	0.202	0.115	0.202	0.109
stdev	0.241	0.129	0.241	0.127	0.241	0.103
p (t-test)		0.007		0.012		0.068
min	0.013	0.013	0.013	0.013	0.013	0.013
max	1.760	0.565	1.760	0.471	1.760	0.359
n (Samp)	213	51	213	53	213	23
n (Pat)	89	51	89	53	89	23

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.36	0.038	257	56	0.000
24 hours	0.36	0.037	257	61	0.000
48 hours	0.36	0.052	257	26	0.007

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.48	0.061	459	23	0.733
24 hours	0.41	0.054	459	26	0.109
48 hours	0.42	0.073	459	14	0.249

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.38	0.041	213	51	0.004
24 hours	0.40	0.042	213	53	0.016
48 hours	0.40	0.059	213	23	0.092

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	1.3	0.8	2.1
	0	100%	0%	3	3.1	2.0	4.6

Fig. 5 - 29

	0.271	14%	71%	4	2.7	1.8	4.0
	0.334	11%	80%				
	0.431	4%	91%				
24 hours	0	100%	0%	1			
	0	100%	0%	2	2.1	1.3	3.3
	0	100%	0%	3	3.5	2.2	5.4
	0.271	11%	71%	4	3.8	2.4	5.8
	0.334	10%	80%				
	0.431	5%	91%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	2.1	0.7	5.9
	0	100%	0%	3	1.7	0.6	5.2
	0.271	12%	71%	4	4.7	1.9	11.3
	0.334	12%	80%				
	0.431	0%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	0.7	0.3	1.5
	0	100%	0%	3	2.3	1.4	3.9
	0.246	30%	72%	4	0.0	0.0	na
	0.323	26%	80%				
	0.425	9%	90%				
24 hours	0	100%	0%	1			
	0	100%	0%	2	1.2	0.6	2.6
	0	100%	0%	3	1.7	0.8	3.2
	0.246	19%	72%	4	1.4	0.7	2.9
	0.323	19%	80%				
	0.425	12%	90%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	2.1	0.5	9.2
	0	100%	0%	3	4.3	1.2	15.0
	0.246	21%	72%	4	0.0	0.0	na
	0.323	14%	80%				
	0.425	7%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	1.9	1.1	3.1
	0	100%	0%	3	5.8	3.8	9.0
	0.246	18%	71%	4	0.7	0.3	1.4
	0.33	10%	80%				
	0.431	2%	90%				
24 hours	0	100%	0%	1			
	0	100%	0%	2	3.0	1.8	5.1
	0	100%	0%	3	1.8	1.0	3.2
	0.246	15%	71%	4	5.1	3.1	8.3
	0.33	6%	80%				
	0.431	4%	90%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	3.2	0.8	12.8
	0	100%	0%	3	5.8	1.7	20.3
	0.246	9%	71%	4	2.6	0.6	11.2
	0.33	9%	80%				
	0.431	0%	90%				

Fig. 5 - 30

Interleukin-3

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.070	0.034	0.070	0.035	0.070	0.031
average	0.100	0.064	0.100	0.046	0.100	0.043
stdev	0.102	0.082	0.102	0.055	0.102	0.053
p (t-test)		0.012		0.000		0.005
min	0.002	0.002	0.002	0.002	0.002	0.002
max	0.537	0.304	0.537	0.304	0.537	0.223
n (Samp)	257	56	257	61	257	26
n (Pat)	112	56	112	61	112	26

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.058	0.045	0.058	0.044	0.058	0.039
average	0.090	0.112	0.090	0.068	0.090	0.063
stdev	0.102	0.160	0.102	0.076	0.102	0.086
p (t-test)		0.315		0.287		0.325
min	0.002	0.002	0.002	0.002	0.002	0.002
max	0.566	0.550	0.566	0.304	0.566	0.271
n (Samp)	459	23	459	26	459	14
n (Pat)	180	23	180	26	180	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.060	0.034	0.060	0.029	0.060	0.028
average	0.088	0.057	0.088	0.040	0.088	0.039
stdev	0.099	0.072	0.099	0.042	0.099	0.042
p (t-test)		0.037		0.001		0.019
min	0.002	0.002	0.002	0.002	0.002	0.002
max	0.537	0.304	0.537	0.207	0.537	0.144
n (Samp)	213	51	213	53	213	23
n (Pat)	89	51	89	53	89	23

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.35	0.038	257	56	0.000
24 hours	0.30	0.034	257	61	0.000
48 hours	0.28	0.045	257	26	0.000

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.47	0.061	459	23	0.631
24 hours	0.43	0.055	459	26	0.234
48 hours	0.38	0.069	459	14	0.071

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.38	0.041	213	51	0.004
24 hours	0.33	0.038	213	53	0.000
48 hours	0.33	0.053	213	23	0.001

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.00277	71%	10%	1			
	0	100%	0%	2	1.9	1.1	3.1
	0	100%	0%	3	1.9	1.1	3.1

Fig. 5 - 31

	0.109	20%	70%	4	4.9	3.2	7.4
	0.152	11%	80%				
	0.23	9%	90%				
24 hours	0.0108	72%	10%	1			
	0	100%	0%	2	2.4	1.3	4.5
	0	100%	0%	3	4.4	2.5	7.6
	0.109	8%	70%	4	7.8	4.6	13.2
	0.152	5%	80%				
	0.23	2%	90%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	2.1	0.4	9.5
	0	100%	0%	3	4.4	1.2	15.8
	0.109	12%	70%	4	7.1	2.1	23.8
	0.152	4%	80%				
	0.23	0%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.0216	74%	23%	1			
	0	100%	0%	2	0.7	0.3	1.5
	0	100%	0%	3	0.8	0.4	1.8
	0.0992	26%	70%	4	1.4	0.7	2.5
	0.139	22%	80%				
	0.222	17%	90%				
24 hours	0.0245	73%	26%	1			
	0	100%	0%	2	0.5	0.2	1.4
	0	100%	0%	3	1.7	1.0	3.0
	0.0992	27%	70%	4	1.2	0.6	2.3
	0.139	15%	80%				
	0.222	4%	90%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	0.7	0.1	3.5
	0	100%	0%	3	1.0	0.3	3.9
	0.0992	21%	70%	4	2.1	0.8	5.7
	0.139	14%	80%				
	0.222	14%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.0108	71%	15%	1			
	0	100%	0%	2	0.6	0.3	1.0
	0	100%	0%	3	1.9	1.3	2.9
	0.0972	22%	70%	4	2.1	1.4	3.1
	0.133	10%	80%				
	0.205	6%	90%				
24 hours	0.0108	72%	15%	1			
	0	100%	0%	2	2.5	1.3	4.7
	0	100%	0%	3	4.2	2.4	7.5
	0.0972	9%	70%	4	5.4	3.1	9.5
	0.133	4%	80%				
	0.205	2%	90%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	2.6	0.6	11.2
	0	100%	0%	3	2.6	0.6	11.2
	0.0972	13%	70%	4	6.5	1.9	22.4
	0.133	4%	80%				
	0.205	0%	90%				

Fig. 5 - 32

Myeloperoxidase

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	130.796	135.584	130.796	258.157	130.796	294.035
average	182.390	227.502	182.390	281.099	182.390	318.249
stdev	201.711	282.646	201.711	241.670	201.711	390.321
p (t-test)		0.262		0.007		0.015
min	0.000	0.000	0.000	0.000	0.000	0.000
max	992.966	1177.984	992.966	1188.715	992.966	1808.488
n (Samp)	105	48	105	55	105	25
n (Pat)	99	48	99	55	99	25

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	175.159	278.376	175.159	312.041	175.159	193.386
average	199.793	448.429	199.793	400.755	199.793	355.270
stdev	205.453	557.098	205.453	396.823	205.453	532.199
p (t-test)		0.000		0.000		0.023
min	0.000	0.000	0.000	0.000	0.000	0.000
max	992.966	2065.234	992.966	1580.100	992.966	1808.488
n (Samp)	242	16	242	20	242	12
n (Pat)	161	16	161	20	161	12

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	179.799	112.072	179.799	237.019	179.799	239.391
average	264.384	220.640	264.384	243.321	264.384	246.966
stdev	346.972	361.876	346.972	211.887	346.972	205.555
p (t-test)		0.509		0.711		0.825
min	0.000	0.000	0.000	0.000	0.000	0.000
max	1808.488	2048.626	1808.488	862.883	1808.488	580.899
n (Samp)	96	40	96	44	96	21
n (Pat)	84	40	84	44	84	21

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.53	0.051	105	48	0.618
24 hours	0.64	0.047	105	55	0.003
48 hours	0.62	0.065	105	25	0.075

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.62	0.077	242	16	0.110
24 hours	0.68	0.068	242	20	0.010
48 hours	0.54	0.087	242	12	0.687

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.45	0.053	96	40	0.365
24 hours	0.54	0.053	96	44	0.405
48 hours	0.55	0.071	96	21	0.460

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	1.0	0.6	1.6
	0	100%	0%	3	0.7	0.4	1.1

Fig. 5 - 33

	264.682	33%	70%	4	1.4	0.9	2.1
	324.107	29%	80%				
	423.861	19%	90%				
24 hours	120.089	71%	47%	1			
	39.0012	80%	39%	2	3.1	1.7	5.6
	0	100%	0%	3	3.4	1.9	6.2
	264.682	49%	70%	4	5.7	3.2	10.1
	324.107	36%	80%				
	423.861	22%	90%				
48 hours	1E-09	72%	37%	1			
	0	100%	0%	2	0.4	0.1	1.0
	0	100%	0%	3	0.4	0.1	1.1
	264.682	52%	70%	4	2.0	1.1	3.8
	324.107	48%	80%				
	423.861	28%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	130.796	75%	47%	1			
	0	100%	0%	2	0.5	0.1	2.2
	0	100%	0%	3	1.0	0.4	2.8
	296.761	50%	71%	4	1.5	0.6	3.7
	352.554	38%	80%				
	489.579	31%	90%				
24 hours	190.649	70%	53%	1			
	98.2708	80%	41%	2	2.0	0.4	9.4
	5.44998	90%	33%	3	2.1	0.4	9.6
	296.761	50%	71%	4	5.6	1.6	19.5
	352.554	40%	80%				
	489.579	25%	90%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	0.2	0.0	2.1
	0	100%	0%	3	0.2	0.0	2.1
	296.761	50%	71%	4	1.0	0.4	2.3
	352.554	33%	80%				
	489.579	17%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	1.0	0.6	1.8
	0	100%	0%	3	1.7	1.0	3.0
	303.076	25%	71%	4	1.0	0.6	1.8
	389.074	15%	80%				
	591.249	10%	91%				
24 hours	109.477	70%	41%	1			
	0	100%	0%	2	3.2	1.7	6.0
	0	100%	0%	3	2.5	1.3	4.8
	303.076	36%	71%	4	2.5	1.3	4.8
	389.074	18%	80%				
	591.249	5%	91%				
48 hours	39.0012	71%	33%	1			
	0	100%	0%	2	0.6	0.2	1.8
	0	100%	0%	3	1.3	0.5	3.0
	303.076	43%	71%	4	1.5	0.6	3.4
	389.074	33%	80%				
	591.249	0%	91%				

Fig. 5 - 34

Nidogen-1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	243003.731	450495.050	243003.731	522245.116	243003.731	na
average	427963.099	439320.859	427963.099	550302.760	427963.099	na
stdev	520281.599	296384.896	520281.599	388197.207	520281.599	na
p (t-test)		0.931		0.353		na
min	140.129	12348.790	140.129	140.129	140.129	na
max	3173333.333	908119.658	3173333.333	1355072.464	3173333.333	na
n (Samp)	73	17	73	18	73	0
n (Pat)	41	17	41	18	41	0

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	288149.351	238969.134	288149.351	814102.564	288149.351	73418.675
average	438323.663	244697.453	438323.663	690692.160	438323.663	205969.984
stdev	487226.769	177620.813	487226.769	415362.903	487226.769	232853.850
p (t-test)		0.335		0.075		0.413
min	140.129	57083.333	140.129	140.129	140.129	69653.614
max	3173333.333	450495.050	3173333.333	1245341.615	3173333.333	474837.662
n (Samp)	119	6	119	13	119	3
n (Pat)	70	6	70	13	70	3

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	349071.068	441558.442	349071.068	476461.039	349071.068	44354.839
average	496863.550	444363.574	496863.550	459481.142	496863.550	306006.494
stdev	543037.711	292126.250	543037.711	361869.996	543037.711	na
p (t-test)		0.696		0.821		na
min	44354.839	12348.790	44354.839	34143.519	44354.839	306006.494
max	3173333.333	908119.658	3173333.333	1355072.464	3173333.333	306006.494
n (Samp)	58	18	58	12	58	1
n (Pat)	31	18	31	12	31	1

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.57	0.079	73	17	0.397
24 hours	0.63	0.077	73	18	0.088
48 hours	nd	nd	73	0	nd

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.39	0.109	119	6	0.305
24 hours	0.69	0.085	119	13	0.028
48 hours	0.30	0.131	119	3	0.133

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.51	0.079	58	18	0.855
24 hours	0.52	0.093	58	12	0.799
48 hours	0.47	0.286	58	1	0.904

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	259596	71%	55%	1			
	118873	82%	30%	2	0.6	0.1	3.8
	56250	94%	14%	3	2.4	0.7	7.9
	495942	35%	71%	4	2.2	0.7	7.4

Fig. 5 - 35

	664530	29%	81%				
	965625	0%	90%				
24 hours	291919	72%	56%	1			
	173041	83%	42%	2	1.5	0.2	9.3
	6223.52	94%	5%	3	3.5	0.8	16.1
	495942	50%	71%	4	4.4	1.0	19.2
	664530	39%	81%				
	965625	11%	90%				
48 hours	na	na	na	1			
	na	na	na	2	na	na	na
	na	na	na	3	na	na	na
	na	na	na	4	na	na	na
	na	na	na				
	na	na	na				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	80195.8	83%	14%	1			
	80195.8	83%	14%	2	na	na	na
	56250	100%	13%	3	na	na	na
	499188	0%	71%	4	na	na	na
	724359	0%	81%				
	985938	0%	91%				
24 hours	332323	77%	54%	1			
	304455	85%	53%	2	0.5	0.0	10.4
	56250	92%	13%	3	1.6	0.3	9.0
	499188	69%	71%	4	4.2	1.0	16.9
	724359	54%	81%				
	985938	23%	91%				
48 hours	56250	100%	13%	1			
	56250	100%	13%	2	na	na	na
	56250	100%	13%	3	na	na	na
	499188	0%	71%	4	na	na	na
	724359	0%	81%				
	985938	0%	91%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	259596	72%	45%	1			
	115587	83%	19%	2	0.5	0.1	1.9
	56250	94%	7%	3	1.0	0.3	2.9
	553419	39%	71%	4	1.0	0.3	2.9
	835470	6%	81%				
	985938	0%	91%				
24 hours	173041	75%	29%	1			
	139459	83%	28%	2	1.5	0.2	10.0
	123117	92%	22%	3	2.3	0.4	13.3
	553419	25%	71%	4	1.5	0.2	10.0
	835470	8%	81%				
	985938	8%	91%				
48 hours	291919	100%	47%	1			
	291919	100%	47%	2	na	na	na
	291919	100%	47%	3	na	na	na
	553419	0%	71%	4	na	na	na
	835470	0%	81%				
	985938	0%	91%				

Fig. 5 - 36

Oxidized low-density lipoprotein receptor 1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.428	0.368	0.428	0.554	0.428	0.454
average	0.492	0.462	0.492	0.729	0.492	0.697
stdev	0.321	0.265	0.321	0.614	0.321	0.615
p (t-test)		0.576		0.002		0.021
min	0.000	0.121	0.000	0.121	0.000	0.196
max	1.737	1.282	1.737	3.013	1.737	2.441
n (Samp)	105	48	105	55	105	25
n (Pat)	99	48	99	55	99	25

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.443	0.472	0.443	0.539	0.443	0.336
average	0.563	0.684	0.563	0.691	0.563	0.595
stdev	0.452	0.784	0.452	0.632	0.452	0.584
p (t-test)		0.328		0.240		0.811
min	0.000	0.198	0.000	0.121	0.000	0.196
max	3.215	3.428	3.215	3.013	3.215	1.920
n (Samp)	242	16	242	20	242	12
n (Pat)	161	16	161	20	161	12

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.435	0.366	0.435	0.612	0.435	0.478
average	0.520	0.489	0.520	0.746	0.520	0.664
stdev	0.357	0.333	0.357	0.565	0.357	0.546
p (t-test)		0.641		0.005		0.136
min	0.121	0.121	0.121	0.137	0.121	0.255
max	1.920	1.623	1.920	2.441	1.920	2.441
n (Samp)	96	40	96	44	96	21
n (Pat)	84	40	84	44	84	21

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.48	0.050	105	48	0.692
24 hours	0.62	0.048	105	55	0.009
48 hours	0.57	0.066	105	25	0.262

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.52	0.075	242	16	0.816
24 hours	0.57	0.069	242	20	0.315
48 hours	0.45	0.082	242	12	0.505

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.46	0.054	96	40	0.452
24 hours	0.64	0.052	96	44	0.008
48 hours	0.58	0.071	96	21	0.272

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.29253	71%	29%	1			
	0.25471	81%	22%	2	0.9	0.5	1.5
	0.19289	92%	13%	3	1.9	1.2	2.9

Fig. 5 - 37

	0.55885	29%	70%	4	1.0	0.6	1.7
	0.64778	21%	80%				
	0.94808	4%	90%				
24 hours	0.35589	73%	43%	1			
	0.28002	80%	26%	2	0.7	0.4	1.1
	0.20473	91%	16%	3	1.1	0.7	1.8
	0.55885	49%	70%	4	2.6	1.7	4.0
	0.64778	40%	80%				
	0.94808	22%	90%				
48 hours	0.34901	72%	40%	1			
	0.2716	84%	26%	2	1.5	0.6	3.3
	0.25471	92%	22%	3	1.2	0.5	3.0
	0.55885	32%	70%	4	1.5	0.6	3.3
	0.64778	24%	80%				
	0.94808	24%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.28002	75%	23%	1			
	0.27135	81%	19%	2	0.6	0.2	1.7
	0.20473	94%	12%	3	0.8	0.3	2.0
	0.60057	25%	71%	4	0.8	0.3	2.0
	0.75586	25%	80%				
	1.00077	13%	90%				
24 hours	0.36432	75%	39%	1			
	0.29253	80%	25%	2	1.3	0.5	3.2
	0.24295	90%	16%	3	1.0	0.4	2.8
	0.60057	45%	71%	4	1.8	0.8	4.2
	0.75586	25%	80%				
	1.00077	25%	90%				
48 hours	0.27364	75%	21%	1			
	0.26318	83%	18%	2	1.6	0.3	8.5
	0.24295	92%	16%	3	1.5	0.3	8.3
	0.60057	17%	71%	4	2.1	0.5	9.8
	0.75586	17%	80%				
	1.00077	17%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.28844	70%	26%	1			
	0.25471	80%	22%	2	0.4	0.2	0.7
	0.19766	90%	15%	3	1.3	0.8	2.2
	0.57009	30%	71%	4	1.0	0.6	1.7
	0.66119	25%	80%				
	1.00077	5%	91%				
24 hours	0.45351	70%	53%	1			
	0.27603	82%	24%	2	0.3	0.1	0.7
	0.21797	91%	18%	3	1.7	1.0	2.8
	0.57009	52%	71%	4	2.1	1.3	3.5
	0.66119	45%	80%				
	1.00077	20%	91%				
48 hours	0.35215	71%	36%	1			
	0.31742	81%	30%	2	1.3	0.5	3.7
	0.2716	90%	24%	3	1.6	0.6	4.3
	0.57009	38%	71%	4	1.6	0.6	4.1
	0.66119	24%	80%				
	1.00077	19%	91%				

Fig. 5 - 38

Pappalysin-1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.048	0.049	0.048	0.059	0.048	0.077
average	0.198	0.070	0.198	0.081	0.198	0.084
stdev	0.939	0.060	0.939	0.071	0.939	0.052
p (t-test)		0.306		0.331		0.534
min	0.000	0.010	0.000	0.016	0.000	0.021
max	9.680	0.274	9.680	0.392	9.680	0.210
n (Samp)	257	56	257	61	257	26
n (Pat)	112	56	112	61	112	26

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.053	0.058	0.053	0.053	0.053	0.083
average	0.149	0.062	0.149	0.074	0.149	0.076
stdev	0.706	0.040	0.706	0.060	0.706	0.045
p (t-test)		0.554		0.588		0.701
min	0.000	0.010	0.000	0.006	0.000	0.010
max	9.680	0.158	9.680	0.291	9.680	0.168
n (Samp)	459	23	459	26	459	14
n (Pat)	180	23	180	26	180	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.046	0.053	0.046	0.065	0.046	0.077
average	0.224	0.080	0.224	0.086	0.224	0.085
stdev	1.030	0.071	1.030	0.074	1.030	0.055
p (t-test)		0.322		0.334		0.520
min	0.000	0.010	0.000	0.019	0.000	0.021
max	9.680	0.293	9.680	0.392	9.680	0.210
n (Samp)	213	51	213	53	213	23
n (Pat)	89	51	89	53	89	23

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.50	0.043	257	56	0.957
24 hours	0.58	0.042	257	61	0.051
48 hours	0.64	0.061	257	26	0.025

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.47	0.061	459	23	0.657
24 hours	0.52	0.059	459	26	0.681
48 hours	0.57	0.081	459	14	0.376

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.55	0.046	213	51	0.255
24 hours	0.62	0.045	213	53	0.006
48 hours	0.64	0.065	213	23	0.025

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.0298	71%	22%	1			
	0.027	82%	19%	2	0.5	0.4	0.8
	0.0105	95%	2%	3	0.7	0.5	0.9

Fig. 5 - 39

	0.072	32%	70%	4	1.0	0.7	1.3
	0.0896	27%	80%				
	0.125	14%	90%				
24 hours	0.0433	70%	45%	1			
	0.0359	80%	31%	2	1.1	0.7	1.6
	0.0249	90%	16%	3	1.5	1.1	2.1
	0.072	39%	70%	4	1.7	1.3	2.4
	0.0896	26%	80%				
	0.125	15%	90%				
48 hours	0.0439	73%	45%	1			
	0.0396	81%	38%	2	1.3	0.5	3.2
	0.027	92%	19%	3	1.5	0.6	3.7
	0.072	58%	70%	4	3.0	1.5	6.3
	0.0896	38%	80%				
	0.125	15%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.0288	74%	19%	1			
	0.0273	83%	18%	2	1.4	0.7	2.9
	0.0162	91%	5%	3	0.8	0.3	2.0
	0.0799	30%	70%	4	1.4	0.7	2.9
	0.102	13%	80%				
	0.151	4%	90%				
24 hours	0.0399	73%	35%	1			
	0.037	81%	30%	2	2.4	1.1	4.9
	0.0214	92%	11%	3	1.5	0.7	3.6
	0.0799	35%	70%	4	1.8	0.8	4.0
	0.102	27%	80%				
	0.151	8%	90%				
48 hours	0.0404	71%	36%	1			
	0.0361	86%	29%	2	5.2	0.5	56.3
	0.0348	93%	27%	3	3.1	0.2	43.1
	0.0799	57%	70%	4	5.1	0.5	55.8
	0.102	29%	80%				
	0.151	7%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.0341	71%	31%	1			
	0.029	82%	22%	2	0.7	0.5	1.1
	0.0164	90%	6%	3	0.7	0.5	1.1
	0.072	37%	70%	4	1.5	1.1	2.1
	0.0885	33%	81%				
	0.11	25%	90%				
24 hours	0.0439	72%	48%	1			
	0.037	81%	36%	2	1.3	0.8	2.1
	0.0236	92%	17%	3	2.5	1.6	3.9
	0.072	42%	70%	4	2.7	1.7	4.1
	0.0885	32%	81%				
	0.11	19%	90%				
48 hours	0.0439	74%	48%	1			
	0.0359	83%	34%	2	1.0	0.3	2.9
	0.027	91%	20%	3	1.6	0.6	3.8
	0.072	57%	70%	4	2.5	1.1	5.4
	0.0885	39%	81%				
	0.11	22%	90%				

Fig. 5 - 40

P-selectin glycoprotein ligand 1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	263.784	284.769	263.784	279.848	263.784	297.424
average	273.025	295.833	273.025	288.707	273.025	276.534
stdev	96.023	131.332	96.023	147.070	96.023	75.520
p (t-test)		0.176		0.369		0.862
min	85.271	70.652	85.271	11.853	85.271	84.448
max	795.623	853.893	795.623	1092.518	795.623	435.303
n (Samp)	155	54	155	56	155	25
n (Pat)	105	54	105	56	105	25

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	266.390	268.360	266.390	278.954	266.390	244.115
average	272.191	307.396	272.191	314.043	272.191	265.795
stdev	94.993	154.357	94.993	185.588	94.993	75.744
p (t-test)		0.125		0.058		0.811
min	11.853	70.652	11.853	64.815	11.853	154.011
max	795.623	853.893	795.623	1092.518	795.623	435.303
n (Samp)	314	20	314	24	314	13
n (Pat)	170	20	170	24	170	13

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	248.010	274.526	248.010	295.952	248.010	302.521
average	259.290	280.101	259.290	285.814	259.290	306.725
stdev	80.359	105.760	80.359	113.957	80.359	148.451
p (t-test)		0.161		0.091		0.031
min	85.271	86.047	85.271	11.853	85.271	84.448
max	531.755	654.702	531.755	653.994	531.755	853.893
n (Samp)	129	49	129	45	129	21
n (Pat)	84	49	84	45	84	21

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.56	0.046	155	54	0.179
24 hours	0.55	0.046	155	56	0.319
48 hours	0.55	0.063	155	25	0.439

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.56	0.068	314	20	0.389
24 hours	0.56	0.063	314	24	0.331
48 hours	0.48	0.081	314	13	0.827

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.56	0.049	129	49	0.205
24 hours	0.59	0.051	129	45	0.070
48 hours	0.61	0.070	129	21	0.113

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	239.878	70%	43%	1			
	209.719	81%	25%	2	0.9	0.6	1.4
	159.304	91%	8%	3	1.5	1.0	2.2

Fig. 5 - 41

	306.856	46%	70%	4	1.3	0.9	2.0
	347.212	24%	80%				
	393.363	15%	90%				
24 hours	228.578	71%	37%	1			
	196.726	80%	23%	2	0.6	0.4	1.0
	127.079	91%	1%	3	1.2	0.8	1.7
	306.856	39%	70%	4	1.2	0.8	1.7
	347.212	27%	80%				
	393.363	11%	90%				
48 hours	237.694	72%	42%	1			
	215.026	80%	27%	2	1.2	0.5	2.8
	196.726	92%	23%	3	1.7	0.8	3.6
	306.856	36%	70%	4	1.2	0.5	2.8
	347.212	8%	80%				
	393.363	8%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	238.306	70%	39%	1			
	229.559	80%	35%	2	2.1	0.7	5.7
	195.596	90%	22%	3	1.7	0.6	5.1
	313.457	30%	70%	4	2.1	0.7	5.7
	339.168	30%	80%				
	388.464	15%	90%				
24 hours	253.759	71%	45%	1			
	207.851	83%	24%	2	1.2	0.6	2.6
	197.838	92%	23%	3	1.2	0.6	2.6
	313.457	33%	70%	4	1.4	0.7	2.9
	339.168	29%	80%				
	388.464	17%	90%				
48 hours	229.92	77%	35%	1			
	229.559	85%	35%	2	0.7	0.1	3.5
	161.252	92%	10%	3	2.1	0.7	5.8
	313.457	23%	70%	4	0.7	0.1	3.6
	339.168	15%	80%				
	388.464	8%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	231.549	71%	40%	1			
	196.726	82%	26%	2	1.4	0.9	2.2
	150.259	92%	9%	3	1.0	0.6	1.7
	299.734	43%	71%	4	1.9	1.2	2.9
	331.51	20%	81%				
	361.727	18%	91%				
24 hours	228.578	71%	37%	1			
	194.127	80%	24%	2	0.6	0.3	1.1
	127.079	91%	2%	3	1.1	0.7	1.9
	299.734	47%	71%	4	2.1	1.3	3.2
	331.51	33%	81%				
	361.727	24%	91%				
48 hours	257.519	71%	53%	1			
	207.851	81%	28%	2	0.7	0.2	2.5
	196.726	90%	26%	3	1.6	0.6	4.1
	299.734	52%	71%	4	2.2	0.9	5.2
	331.51	24%	81%				
	361.727	14%	91%				

Fig. 5 - 42

Secretory leukocyte peptidase inhibitor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	61256.092	64786.054	61256.092	66877.971	61256.092	70709.677
average	69105.397	73236.504	69105.397	76019.092	69105.397	77172.027
stdev	34677.932	28059.207	34677.932	36668.025	34677.932	32502.455
p (t-test)		0.436		0.212		0.279
min	13520.408	30739.726	13520.408	26653.144	13520.408	33138.686
max	199917.831	160690.846	199917.831	218323.747	199917.831	152842.105
n (Samp)	148	53	148	56	148	25
n (Pat)	104	53	104	56	104	25

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	63900.192	74241.843	63900.192	66877.971	63900.192	65060.241
average	69820.359	86120.614	69820.359	87707.819	69820.359	76503.059
stdev	29958.613	41784.508	29958.613	48096.520	29958.613	33389.876
p (t-test)		0.026		0.008		0.434
min	13520.408	30739.726	13520.408	26653.144	13520.408	44299.424
max	199917.831	160690.846	199917.831	218323.747	199917.831	152842.105
n (Samp)	306	19	306	24	306	13
n (Pat)	169	19	169	24	169	13

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	61343.570	67170.997	61343.570	69301.205	61343.570	71614.458
average	67545.808	76340.370	67545.808	74061.947	67545.808	74389.033
stdev	29386.432	29685.598	29386.432	30909.061	29386.432	29536.749
p (t-test)		0.081		0.211		0.326
min	21505.376	38136.201	21505.376	33630.832	21505.376	33138.686
max	183903.282	160690.846	183903.282	170531.178	183903.282	136649.396
n (Samp)	123	48	123	45	123	21
n (Pat)	83	48	83	45	83	21

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.57	0.047	148	53	0.151
24 hours	0.57	0.046	148	56	0.120
48 hours	0.59	0.064	148	25	0.163

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.61	0.071	306	19	0.116
24 hours	0.60	0.063	306	24	0.126
48 hours	0.55	0.084	306	13	0.586

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.59	0.050	123	48	0.068
24 hours	0.57	0.051	123	45	0.155
48 hours	0.58	0.070	123	21	0.250

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	55299.1	72%	40%	1			
	51538.5	81%	33%	2	2.9	1.7	4.8
	44627.6	91%	20%	3	2.6	1.6	4.4

Fig. 5 - 43

	74120.5	36%	70%	4	2.6	1.5	4.3
	87078.5	23%	80%				
	108187	13%	91%				
24 hours	58631.1	71%	45%	1			
	50083.5	80%	30%	2	0.9	0.6	1.4
	39856.6	91%	17%	3	2.8	1.9	4.0
	74120.5	38%	70%	4	1.2	0.8	1.9
	87078.5	21%	80%				
	108187	16%	91%				
48 hours	56276.4	72%	41%	1			
	51196.6	80%	32%	2	1.3	0.5	3.4
	43679.2	92%	19%	3	2.2	1.0	5.2
	74120.5	40%	70%	4	2.2	0.9	5.0
	87078.5	32%	80%				
	108187	20%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	62504.2	74%	48%	1			
	43207.5	84%	13%	2	1.0	0.4	2.8
	30739.7	95%	3%	3	0.5	0.1	2.2
	75812	47%	70%	4	2.4	1.1	5.1
	85475.8	37%	80%				
	105385	37%	90%				
24 hours	63800.4	71%	50%	1			
	42472.3	83%	12%	2	0.8	0.3	2.0
	39856.6	92%	11%	3	1.0	0.4	2.3
	75812	46%	70%	4	2.1	1.1	4.0
	85475.8	42%	80%				
	105385	29%	90%				
48 hours	61168.6	77%	45%	1			
	51362.8	85%	26%	2	2.0	0.4	9.3
	45220.7	92%	17%	3	2.0	0.4	9.3
	75812	23%	70%	4	1.5	0.3	8.1
	85475.8	23%	80%				
	105385	23%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	56494.2	71%	41%	1			
	52488.1	81%	33%	2	2.9	1.6	5.2
	45555.6	92%	23%	3	2.6	1.4	4.7
	74120.5	40%	71%	4	3.2	1.8	5.8
	83630.7	29%	80%				
	104930	17%	90%				
24 hours	58631.1	71%	46%	1			
	53122	80%	35%	2	1.3	0.8	2.3
	43679.2	91%	16%	3	2.4	1.4	3.9
	74120.5	38%	71%	4	1.7	1.0	2.9
	83630.7	20%	80%				
	104930	13%	90%				
48 hours	56276.4	71%	40%	1			
	49366.6	81%	28%	2	1.0	0.3	3.0
	42891.6	90%	15%	3	1.6	0.6	4.1
	74120.5	43%	71%	4	1.9	0.8	4.7
	83630.7	33%	80%				
	104930	14%	90%				

Fig. 5 - 44

Stem cell factor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	339.000	328.000	339.000	317.000	339.000	308.500
average	368.427	356.250	368.427	359.410	368.427	348.385
stdev	173.797	158.149	173.797	181.460	173.797	174.470
p (t-test)		0.630		0.718		0.576
min	89.700	127.000	89.700	110.000	89.700	113.000
max	1340.000	819.000	1340.000	1100.000	1340.000	927.000
n (Samp)	257	56	257	61	257	26
n (Pat)	112	56	112	61	112	26

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	335.000	372.000	335.000	348.500	335.000	392.500
average	380.034	408.217	380.034	383.808	380.034	410.857
stdev	308.863	190.019	308.863	190.317	308.863	190.338
p (t-test)		0.665		0.951		0.711
min	89.700	170.000	89.700	110.000	89.700	142.000
max	5840.000	769.000	5840.000	867.000	5840.000	895.000
n (Samp)	459	23	459	26	459	14
n (Pat)	180	23	180	26	180	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	326.000	335.000	326.000	316.000	326.000	286.000
average	354.135	362.961	354.135	362.151	354.135	345.304
stdev	156.698	159.119	156.698	188.972	156.698	174.358
p (t-test)		0.719		0.750		0.800
min	89.700	127.000	89.700	142.000	89.700	113.000
max	1260.000	819.000	1260.000	1100.000	1260.000	927.000
n (Samp)	213	51	213	53	213	23
n (Pat)	89	51	89	53	89	23

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.48	0.042	257	56	0.697
24 hours	0.47	0.041	257	61	0.468
48 hours	0.46	0.058	257	26	0.468

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.55	0.063	459	23	0.428
24 hours	0.53	0.059	459	26	0.656
48 hours	0.59	0.081	459	14	0.290

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.52	0.045	213	51	0.704
24 hours	0.48	0.044	213	53	0.677
48 hours	0.46	0.062	213	23	0.475

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	254	71%	25%	1			
	224	80%	16%	2	0.7	0.5	1.0
	171	91%	4%	3	0.9	0.7	1.3

Fig. 5 - 45

	404	29%	70%	4	1.1	0.8	1.5
	461	23%	81%				
	564	11%	90%				
24 hours	266	70%	28%	1			
	224	80%	16%	2	0.8	0.6	1.2
	187	90%	6%	3	1.4	1.0	1.9
	404	26%	70%	4	1.3	0.9	1.8
	461	20%	81%				
	564	8%	90%				
48 hours	264	73%	27%	1			
	254	81%	25%	2	0.6	0.3	1.6
	135	92%	1%	3	1.8	1.0	3.2
	404	31%	70%	4	1.0	0.5	2.1
	461	12%	81%				
	564	12%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	255	78%	26%	1			
	216	83%	15%	2	1.2	0.6	2.5
	208	91%	12%	3	0.8	0.3	2.0
	406	35%	70%	4	1.6	0.8	3.2
	479	35%	80%				
	571	26%	90%				
24 hours	281	73%	33%	1			
	231	81%	21%	2	1.0	0.5	2.0
	164	92%	5%	3	0.8	0.4	1.8
	406	38%	70%	4	1.5	0.9	2.7
	479	23%	80%				
	571	15%	90%				
48 hours	326	71%	48%	1			
	255	86%	26%	2	1.5	0.3	8.0
	187	93%	8%	3	1.5	0.3	8.0
	406	50%	70%	4	3.1	0.8	11.8
	479	21%	80%				
	571	14%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	298	71%	39%	1			
	224	82%	17%	2	0.7	0.4	1.0
	171	90%	7%	3	0.9	0.6	1.3
	402	31%	71%	4	1.0	0.7	1.4
	445	24%	80%				
	549	12%	91%				
24 hours	248	72%	23%	1			
	214	81%	15%	2	0.6	0.4	0.9
	177	92%	8%	3	1.1	0.8	1.5
	402	28%	71%	4	1.1	0.8	1.6
	445	25%	80%				
	549	9%	91%				
48 hours	264	74%	28%	1			
	251	83%	24%	2	0.8	0.3	2.0
	214	91%	15%	3	1.9	1.0	3.9
	402	30%	71%	4	1.0	0.4	2.4
	445	17%	80%				
	549	9%	91%				

Fig. 5 - 46

Tissue inhibitor of metalloproteinase 1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	209.000	254.000	209.000	246.000	209.000	235.500
average	260.043	276.320	260.043	348.377	260.043	317.538
stdev	176.758	138.902	176.758	236.569	176.758	232.808
p (t-test)		0.518		0.001		0.127
min	75.400	85.800	75.400	104.000	75.400	118.000
max	1207.000	664.000	1207.000	1220.000	1207.000	1090.000
n (Samp)	257	56	257	61	257	26
n (Pat)	112	56	112	61	112	26

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	226.000	292.000	226.000	261.500	226.000	237.000
average	276.221	301.561	276.221	336.808	276.221	309.929
stdev	194.364	127.638	194.364	209.955	194.364	252.781
p (t-test)		0.537		0.124		0.527
min	56.400	85.800	56.400	104.000	56.400	118.000
max	1250.000	492.000	1250.000	829.000	1250.000	1090.000
n (Samp)	459	23	459	26	459	14
n (Pat)	180	23	180	26	180	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	225.000	263.000	225.000	246.000	225.000	236.000
average	269.024	311.941	269.024	363.655	269.024	321.757
stdev	179.268	181.310	179.268	263.366	179.268	256.705
p (t-test)		0.127		0.002		0.202
min	75.400	100.000	75.400	96.700	75.400	87.400
max	1207.000	966.000	1207.000	1220.000	1207.000	1207.000
n (Samp)	213	51	213	53	213	23
n (Pat)	89	51	89	53	89	23

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.57	0.043	257	56	0.117
24 hours	0.63	0.042	257	61	0.002
48 hours	0.57	0.061	257	26	0.272

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.62	0.064	459	23	0.070
24 hours	0.59	0.060	459	26	0.120
48 hours	0.54	0.080	459	14	0.654

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.59	0.046	213	51	0.060
24 hours	0.62	0.045	213	53	0.007
48 hours	0.55	0.065	213	23	0.470

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	183	71%	41%	1			
	165	80%	30%	2	1.2	0.8	1.8
	119	91%	12%	3	1.2	0.8	1.8

Fig. 5 - 47

	285	36%	70%	4	1.9	1.4	2.7
	338	29%	80%				
	447	16%	90%				
24 hours	209	70%	50%	1			
	190	80%	44%	2	2.0	1.3	3.2
	153	90%	27%	3	2.6	1.7	4.0
	285	38%	70%	4	3.0	2.0	4.4
	338	31%	80%				
	447	26%	90%				
48 hours	171	73%	34%	1			
	143	85%	23%	2	0.8	0.4	1.8
	134	92%	18%	3	1.0	0.5	2.0
	285	35%	70%	4	1.5	0.8	2.8
	338	27%	80%				
	447	19%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	225	74%	50%	1			
	183	83%	36%	2	1.3	0.4	4.3
	107	91%	7%	3	2.4	0.9	6.4
	294	48%	70%	4	3.1	1.3	7.7
	363	35%	80%				
	502	0%	90%				
24 hours	214	73%	48%	1			
	149	81%	23%	2	0.5	0.2	1.3
	124	92%	13%	3	1.4	0.7	2.5
	294	38%	70%	4	1.5	0.9	2.7
	363	35%	80%				
	502	23%	90%				
48 hours	179	71%	34%	1			
	143	86%	21%	2	0.7	0.1	3.5
	128	93%	14%	3	1.7	0.6	5.0
	294	29%	70%	4	1.3	0.4	4.3
	363	14%	80%				
	502	14%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	191	71%	42%	1			
	171	80%	31%	2	1.2	0.8	1.9
	142	90%	17%	3	1.1	0.7	1.7
	297	39%	70%	4	2.1	1.4	3.1
	339	35%	81%				
	437	22%	90%				
24 hours	209	72%	48%	1			
	195	81%	43%	2	2.0	1.2	3.3
	153	92%	22%	3	2.5	1.5	4.0
	297	38%	70%	4	3.1	2.0	4.9
	339	32%	81%				
	437	25%	90%				
48 hours	178	74%	34%	1			
	143	83%	18%	2	0.8	0.3	2.0
	134	91%	13%	3	1.5	0.7	3.1
	297	30%	70%	4	1.5	0.7	3.1
	339	26%	81%				
	437	17%	90%				

Fig. 5 - 48

Tissue inhibitor of metalloproteinase 2

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	113236.674	106839.335	113236.674	114916.133	113236.674	109408.332
average	113305.296	109748.951	113305.296	113547.086	113305.296	116195.810
stdev	24378.727	24185.906	24378.727	34192.577	24378.727	26878.118
p (t-test)		0.403		0.959		0.602
min	58493.008	60870.071	58493.008	1936.748	58493.008	69010.743
max	177248.877	173634.554	177248.877	207083.195	177248.877	162201.416
n (Samp)	105	48	105	55	105	25
n (Pat)	99	48	99	55	99	25

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	109495.570	107485.056	109495.570	107700.293	109495.570	109763.809
average	111989.692	115412.123	111989.692	109184.954	111989.692	117303.500
stdev	27125.219	36434.754	27125.219	40754.231	27125.219	34913.151
p (t-test)		0.633		0.671		0.514
min	1936.748	58966.197	1936.748	1892.018	1936.748	69010.743
max	197537.458	188983.579	197537.458	207083.195	197537.458	179322.577
n (Samp)	242	16	242	20	242	12
n (Pat)	161	16	161	20	161	12

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	109561.495	106839.335	109561.495	117835.445	109561.495	127059.834
average	112682.018	111667.497	112682.018	113894.419	112682.018	122481.938
stdev	24939.915	25100.763	24939.915	33355.275	24939.915	26058.019
p (t-test)		0.830		0.811		0.108
min	58493.008	79013.476	58493.008	1936.748	58493.008	81511.422
max	177248.877	189045.463	177248.877	174620.924	177248.877	162201.416
n (Samp)	96	40	96	44	96	21
n (Pat)	84	40	84	44	84	21

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.45	0.050	105	48	0.334
24 hours	0.50	0.048	105	55	0.944
48 hours	0.52	0.065	105	25	0.701

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.52	0.075	242	16	0.784
24 hours	0.47	0.066	242	20	0.651
48 hours	0.53	0.087	242	12	0.760

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.47	0.054	96	40	0.614
24 hours	0.53	0.053	96	44	0.577
48 hours	0.60	0.071	96	21	0.139

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	93773.4	71%	26%	1			
	86661.6	81%	16%	2	0.4	0.2	0.8
	83092.3	92%	9%	3	1.8	1.2	2.8

Fig. 5 - 49

	125255	27%	70%	4	1.2	0.7	1.9
	132931	19%	80%				
	142591	13%	90%				
24 hours	91716.7	71%	24%	1			
	87479.3	80%	17%	2	1.1	0.7	1.7
	76021.5	91%	5%	3	0.6	0.4	1.0
	125255	33%	70%	4	1.2	0.8	1.9
	132931	24%	80%				
	142591	16%	90%				
48 hours	94966.8	72%	28%	1			
	90288.4	80%	22%	2	1.2	0.5	2.5
	87479.3	92%	17%	3	0.6	0.2	1.6
	125255	40%	70%	4	1.4	0.7	2.9
	132931	24%	80%				
	142591	20%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	91716.7	75%	26%	1			
	87876.9	81%	21%	2	1.3	0.5	3.2
	58966.2	94%	1%	3	0.5	0.1	2.2
	125012	38%	70%	4	1.3	0.5	3.2
	133781	25%	80%				
	148411	19%	90%				
24 hours	90955	70%	25%	1			
	87876.9	80%	21%	2	1.6	0.7	3.8
	82006.3	90%	11%	3	1.0	0.4	2.8
	125012	25%	70%	4	1.6	0.7	3.8
	133781	20%	80%				
	148411	10%	90%				
48 hours	90955	75%	25%	1			
	85864.4	83%	16%	2	1.0	0.2	3.9
	83123.8	92%	13%	3	0.3	0.0	4.7
	125012	42%	70%	4	1.7	0.6	5.1
	133781	33%	80%				
	148411	25%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	94129.4	70%	26%	1			
	88807.1	80%	20%	2	0.2	0.1	0.5
	83601.2	90%	10%	3	1.3	0.8	2.1
	123879	33%	71%	4	0.8	0.4	1.3
	133812	20%	80%				
	148411	8%	91%				
24 hours	98682.4	70%	30%	1			
	83092.3	82%	9%	2	0.5	0.3	0.9
	74896.6	91%	4%	3	1.1	0.7	1.8
	123879	36%	71%	4	1.0	0.6	1.6
	133812	25%	80%				
	148411	16%	91%				
48 hours	106923	71%	43%	1			
	94966.8	81%	27%	2	1.3	0.5	3.7
	88807.1	90%	20%	3	1.0	0.3	3.1
	123879	52%	71%	4	2.3	0.9	5.6
	133812	33%	80%				
	148411	24%	91%				

Fig. 5 - 50

Tumor necrosis factor-alpha

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	7.480	7.480	7.480	9.130	7.480	7.165
average	12.426	9.952	12.426	15.427	12.426	13.706
stdev	28.223	9.014	28.223	27.627	28.223	20.503
p (t-test)		0.517		0.454		0.822
min	0.040	0.040	0.040	0.040	0.040	0.040
max	307.000	50.100	307.000	196.000	307.000	96.600
n (Samp)	257	56	257	61	257	26
n (Pat)	112	56	112	61	112	26

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	7.480	10.400	7.480	8.455	7.480	11.400
average	13.004	11.477	13.004	14.105	13.004	18.242
stdev	38.845	8.761	38.845	16.115	38.845	25.045
p (t-test)		0.851		0.886		0.617
min	0.040	0.040	0.040	0.829	0.040	2.160
max	669.000	35.500	669.000	75.800	669.000	96.600
n (Samp)	459	23	459	26	459	14
n (Pat)	180	23	180	26	180	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	7.480	7.980	7.480	9.360	7.480	5.750
average	11.809	9.949	11.809	14.414	11.809	10.010
stdev	24.151	8.504	24.151	27.792	24.151	10.649
p (t-test)		0.589		0.496		0.724
min	0.040	0.040	0.040	0.040	0.040	0.040
max	307.000	50.100	307.000	196.000	307.000	43.600
n (Samp)	213	51	213	53	213	23
n (Pat)	89	51	89	53	89	23

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.51	0.043	257	56	0.858
24 hours	0.55	0.042	257	61	0.194
48 hours	0.50	0.059	257	26	0.966

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.59	0.064	459	23	0.181
24 hours	0.58	0.060	459	26	0.200
48 hours	0.62	0.081	459	14	0.153

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.52	0.045	213	51	0.588
24 hours	0.56	0.045	213	53	0.168
48 hours	0.47	0.062	213	23	0.636

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	3.81	79%	25%	1			
	3.26	82%	20%	2	1.2	0.8	1.7
	1.95	91%	13%	3	0.8	0.6	1.2

Fig. 5 - 51

	11.1	34%	70%	4	1.4	1.0	1.9
	13.5	25%	81%				
	22	7%	91%				
24 hours	5.08	70%	36%	1			
	3.81	80%	25%	2	0.9	0.6	1.3
	1.68	93%	12%	3	1.4	1.0	1.9
	11.1	36%	70%	4	1.6	1.2	2.2
	13.5	26%	81%				
	22	13%	91%				
48 hours	3.81	73%	25%	1			
	3.17	81%	20%	2	1.7	0.8	3.4
	2.2	92%	14%	3	1.2	0.6	2.7
	11.1	35%	70%	4	1.5	0.7	3.1
	13.5	19%	81%				
	22	15%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	5.28	74%	39%	1			
	3.81	87%	25%	2	2.0	0.7	5.6
	3.26	91%	21%	3	1.7	0.6	5.0
	10.9	43%	70%	4	3.1	1.3	7.7
	14.1	35%	81%				
	21.4	9%	90%				
24 hours	6.27	73%	45%	1			
	4.23	81%	28%	2	0.8	0.3	2.0
	0.0399	100%	6%	3	1.6	0.8	3.2
	10.9	38%	70%	4	1.8	1.0	3.5
	14.1	31%	81%				
	21.4	19%	90%				
48 hours	6.27	71%	45%	1			
	4.23	86%	28%	2	1.5	0.3	8.0
	3.81	93%	25%	3	2.6	0.6	10.5
	10.9	57%	70%	4	2.0	0.4	9.1
	14.1	29%	81%				
	21.4	14%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	5.08	71%	36%	1			
	3.81	82%	23%	2	1.1	0.7	1.7
	2.49	90%	15%	3	1.3	0.9	2.0
	11.4	31%	71%	4	1.3	0.9	2.0
	13.5	24%	81%				
	21.4	8%	90%				
24 hours	5.28	72%	38%	1			
	3.81	81%	23%	2	1.0	0.6	1.5
	1.95	91%	12%	3	1.1	0.7	1.7
	11.4	40%	71%	4	2.0	1.4	2.8
	13.5	25%	81%				
	21.4	8%	90%				
48 hours	3.17	74%	18%	1			
	3.08	83%	17%	2	1.2	0.6	2.7
	1.04	91%	9%	3	0.8	0.3	2.0
	11.4	26%	71%	4	1.7	0.8	3.5
	13.5	22%	81%				
	21.4	13%	90%				

Fig. 5 - 52

Vascular cell adhesion molecule 1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	664.588	631.644	664.588	752.902	664.588	694.192
average	735.893	727.942	735.893	889.248	735.893	760.608
stdev	284.567	298.511	284.567	494.917	284.567	381.004
p (t-test)		0.875		0.014		0.716
min	294.325	341.055	294.325	417.689	294.325	312.022
max	1703.672	1753.212	1703.672	2809.360	1703.672	1737.712
n (Samp)	105	48	105	55	105	25
n (Pat)	99	48	99	55	99	25

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	655.326	748.630	655.326	860.493	655.326	858.327
average	746.904	806.176	746.904	862.564	746.904	890.534
stdev	381.956	289.999	381.956	290.267	381.956	381.906
p (t-test)		0.543		0.187		0.205
min	203.738	341.055	203.738	438.983	203.738	466.114
max	2809.360	1510.868	2809.360	1437.352	2809.360	1737.712
n (Samp)	241	16	241	20	241	12
n (Pat)	160	16	160	20	160	12

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	695.555	647.259	695.555	756.653	695.555	694.192
average	777.562	709.203	777.562	901.494	777.562	730.977
stdev	316.077	282.174	316.077	526.727	316.077	340.084
p (t-test)		0.238		0.086		0.547
min	315.327	363.063	315.327	417.689	315.327	312.022
max	1737.712	1753.212	1737.712	2809.360	1737.712	1611.394
n (Samp)	96	40	96	44	96	21
n (Pat)	84	40	84	44	84	21

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.48	0.050	105	48	0.643
24 hours	0.58	0.048	105	55	0.091
48 hours	0.49	0.064	105	25	0.880

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.60	0.077	241	16	0.197
24 hours	0.64	0.069	241	20	0.038
48 hours	0.64	0.088	241	12	0.125

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.43	0.053	96	40	0.197
24 hours	0.56	0.053	96	44	0.294
48 hours	0.45	0.068	96	21	0.456

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	554.542	71%	28%	1			
	478.156	81%	14%	2	0.7	0.4	1.2
	437.503	92%	11%	3	0.9	0.6	1.5

Fig. 5 - 53

	790.308	33%	70%	4	1.0	0.7	1.6
	918.539	23%	80%				
	1120.39	8%	90%				
24 hours	625.519	71%	39%	1			
	539.828	80%	26%	2	0.7	0.4	1.1
	463.048	91%	13%	3	1.4	0.9	2.1
	790.308	42%	70%	4	1.4	0.9	2.1
	918.539	29%	80%				
	1120.39	20%	90%				
48 hours	531.18	72%	24%	1			
	463.048	80%	13%	2	0.6	0.3	1.3
	333.403	92%	4%	3	0.6	0.3	1.2
	790.308	32%	70%	4	0.9	0.4	1.7
	918.539	28%	80%				
	1120.39	12%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	618.442	75%	43%	1			
	588.786	81%	37%	2	6.5	0.6	68.4
	549.347	94%	31%	3	3.1	0.2	45.0
	769.405	44%	70%	4	6.4	0.6	67.2
	938.328	31%	80%				
	1196.9	6%	90%				
24 hours	664.588	70%	54%	1			
	556.964	80%	32%	2	5.3	0.5	59.7
	542.277	90%	30%	3	4.2	0.3	51.8
	769.405	55%	70%	4	11.4	1.2	105.4
	938.328	40%	80%				
	1196.9	10%	90%				
48 hours	549.347	75%	31%	1			
	542.277	83%	30%	2	1.0	0.1	7.6
	503.981	92%	25%	3	1.0	0.1	7.6
	769.405	58%	70%	4	3.2	0.8	12.4
	938.328	33%	80%				
	1196.9	17%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	549.347	70%	26%	1			
	478.156	80%	13%	2	1.2	0.6	2.2
	443.626	90%	9%	3	1.6	0.9	2.8
	882.489	23%	71%	4	1.8	1.0	3.1
	1041.63	10%	80%				
	1200.23	5%	91%				
24 hours	630.621	70%	36%	1			
	521.454	82%	20%	2	0.6	0.3	1.2
	463.048	91%	11%	3	2.1	1.3	3.5
	882.489	27%	71%	4	1.1	0.7	2.0
	1041.63	25%	80%				
	1200.23	14%	91%				
48 hours	531.602	71%	22%	1			
	419.767	81%	8%	2	2.1	0.8	5.3
	333.403	90%	3%	3	0.8	0.2	2.7
	882.489	29%	71%	4	2.1	0.8	5.3
	1041.63	14%	80%				
	1200.23	10%	91%				

Fig. 5 - 54

Vascular endothelial growth factor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	952.000	1095.000	952.000	939.000	952.000	836.500
average	1198.206	1318.607	1198.206	1433.820	1198.206	1113.115
stdev	1043.990	1136.196	1043.990	1474.053	1043.990	782.499
p (t-test)		0.442		0.147		0.687
min	353.000	424.000	353.000	414.000	353.000	392.000
max	11500.000	8250.000	11500.000	9620.000	11500.000	3580.000
n (Samp)	257	56	257	61	257	26
n (Pat)	112	56	112	61	112	26

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	953.000	1380.000	953.000	1145.000	953.000	1100.000
average	1254.007	1847.261	1254.007	1804.346	1254.007	1721.571
stdev	1427.206	1461.084	1427.206	1758.063	1427.206	1408.810
p (t-test)		0.053		0.060		0.228
min	338.000	473.000	338.000	520.000	338.000	724.000
max	16200.000	7240.000	16200.000	8830.000	16200.000	5870.000
n (Samp)	459	23	459	26	459	14
n (Pat)	180	23	180	26	180	14

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	969.000	1100.000	969.000	922.000	969.000	850.000
average	1233.559	1404.059	1233.559	1534.019	1233.559	1216.739
stdev	1096.453	1208.080	1096.453	1644.714	1096.453	892.862
p (t-test)		0.329		0.111		0.943
min	436.000	424.000	436.000	414.000	436.000	392.000
max	11500.000	8250.000	11500.000	9620.000	11500.000	3580.000
n (Samp)	213	51	213	53	213	23
n (Pat)	89	51	89	53	89	23

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.54	0.043	257	56	0.348
24 hours	0.52	0.041	257	61	0.716
48 hours	0.44	0.057	257	26	0.289

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.70	0.062	459	23	0.002
24 hours	0.62	0.060	459	26	0.044
48 hours	0.64	0.081	459	14	0.075

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.55	0.046	213	51	0.290
24 hours	0.50	0.044	213	53	0.986
48 hours	0.44	0.061	213	23	0.335

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	765	71%	30%	1			
	678	80%	21%	2	0.7	0.5	1.1
	506	91%	6%	3	1.2	0.8	1.7

Fig. 5 - 55

	1220	38%	70%	4	1.5	1.1	2.0
	1450	29%	80%				
	1810	14%	90%				
24 hours	786	70%	32%	1			
	667	80%	20%	2	0.8	0.6	1.1
	585	90%	13%	3	0.7	0.5	1.0
	1220	33%	70%	4	0.9	0.7	1.2
	1450	25%	80%				
	1810	18%	90%				
48 hours	666	73%	20%	1			
	588	81%	13%	2	0.6	0.3	1.6
	449	92%	3%	3	1.4	0.7	2.6
	1220	27%	70%	4	1.4	0.7	2.6
	1450	23%	80%				
	1810	15%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1060	74%	59%	1			
	825	83%	37%	2	1.5	0.3	7.9
	765	91%	32%	3	3.1	0.8	11.9
	1220	61%	70%	4	6.5	2.0	21.1
	1460	39%	80%				
	1810	30%	90%				
24 hours	791	73%	34%	1			
	786	81%	34%	2	1.7	0.6	5.0
	593	92%	14%	3	2.8	1.1	7.1
	1220	46%	70%	4	3.5	1.5	8.5
	1460	31%	80%				
	1810	27%	90%				
48 hours	943	71%	49%	1			
	811	86%	35%	2	na	na	na
	730	93%	28%	3	na	na	na
	1220	43%	70%	4	na	na	na
	1460	43%	80%				
	1810	29%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	778	71%	28%	1			
	693	80%	19%	2	0.4	0.2	0.6
	522	90%	5%	3	0.9	0.6	1.3
	1250	37%	71%	4	1.4	1.0	1.9
	1490	33%	81%				
	1810	18%	90%				
24 hours	724	72%	23%	1			
	667	81%	16%	2	0.5	0.3	0.7
	585	91%	9%	3	0.9	0.6	1.3
	1250	32%	71%	4	1.1	0.8	1.5
	1490	23%	81%				
	1810	21%	90%				
48 hours	588	74%	9%	1			
	556	83%	7%	2	0.3	0.1	1.0
	442	91%	1%	3	0.7	0.3	1.5
	1250	30%	71%	4	1.3	0.8	2.4
	1490	30%	81%				
	1810	22%	90%				

Fig. 5 - 56

Aspartate aminotransferase, cytoplasmic

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	16.600	18.600	16.600	19.650	16.600	20.650
average	17.351	18.257	17.351	16.371	17.351	18.011
stdev	16.496	9.174	16.496	10.272	16.496	10.428
p (t-test)		0.774		0.726		0.866
min	0.943	1.900	0.943	2.210	0.943	2.020
max	251.000	41.100	251.000	29.700	251.000	32.100
n (Samp)	434	28	434	36	434	18
n (Pat)	173	28	173	36	173	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	16.600	20.800	16.600	20.450	16.600	19.200
average	17.130	21.067	17.130	17.653	17.130	16.791
stdev	15.269	3.166	15.269	10.501	15.269	10.446
p (t-test)		0.528		0.914		0.953
min	0.943	16.100	0.943	2.430	0.943	2.020
max	251.000	25.700	251.000	28.400	251.000	29.100
n (Samp)	542	6	542	10	542	7
n (Pat)	208	6	208	10	208	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	17.450	17.800	17.450	20.500	17.450	22.350
average	18.020	17.744	18.020	17.354	18.020	20.423
stdev	17.751	9.284	17.751	10.014	17.751	9.330
p (t-test)		0.936		0.835		0.591
min	1.810	1.900	1.810	2.210	1.810	2.530
max	251.000	41.100	251.000	29.700	251.000	32.100
n (Samp)	356	27	356	32	356	16
n (Pat)	138	27	138	32	138	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.58	0.058	434	28	0.172
24 hours	0.54	0.051	434	36	0.443
48 hours	0.60	0.072	434	18	0.185

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.70	0.120	542	6	0.094
24 hours	0.59	0.095	542	10	0.369
48 hours	0.55	0.113	542	7	0.664

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.54	0.059	356	27	0.516
24 hours	0.56	0.055	356	32	0.294
48 hours	0.67	0.075	356	16	0.022

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	16.9	71%	51%	1			
	13.7	82%	34%	2	0.6	0.2	1.7
	2.59	93%	7%	3	2.6	1.4	4.6
	20.4	43%	70%	4	1.6	0.8	3.2
	23	25%	80%				

Fig. 6 - 1

	27.1	11%	90%				
24 hours	4.51	72%	19%	1			
	3	81%	11%	2	0.2	0.1	0.5
	2.42	92%	5%	3	0.5	0.3	0.8
	20.4	44%	70%	4	1.3	0.9	1.8
	23	39%	80%				
	27.1	14%	90%				
48 hours	18	72%	57%	1			
	3.06	83%	11%	2	0.0	0.0	na
	2.51	94%	6%	3	1.2	0.6	2.6
	20.4	50%	70%	4	1.4	0.7	2.9
	23	39%	80%				
	27.1	22%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	20	83%	68%	1			
	20	83%	68%	2	na	na	na
	16	100%	47%	3	na	na	na
	20.6	50%	70%	4	na	na	na
	23.4	17%	80%				
	27.4	0%	90%				
24 hours	16.3	70%	48%	1			
	4.76	80%	20%	2	0.3	0.0	4.6
	3.12	90%	12%	3	0.3	0.0	4.6
	20.6	50%	70%	4	1.7	0.6	5.0
	23.4	40%	80%				
	27.4	20%	90%				
48 hours	18	71%	57%	1			
	2.81	86%	9%	2	0.0	0.0	na
	1.97	100%	1%	3	1.0	0.1	7.3
	20.6	43%	70%	4	1.5	0.3	7.9
	23.4	29%	80%				
	27.4	14%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	16.4	70%	46%	1			
	12.9	81%	28%	2	1.2	0.6	2.6
	2.59	93%	6%	3	1.9	1.0	3.6
	21	33%	70%	4	1.4	0.7	2.9
	23.4	26%	80%				
	27.7	11%	90%				
24 hours	14.4	72%	35%	1			
	3	81%	9%	2	0.5	0.3	1.0
	2.46	91%	4%	3	0.4	0.2	0.9
	21	47%	70%	4	1.6	1.1	2.5
	23.4	44%	80%				
	27.7	9%	90%				
48 hours	19.9	75%	65%	1			
	18.8	81%	60%	2	0.0	0.0	na
	3.06	94%	10%	3	1.7	0.6	5.1
	21	69%	70%	4	2.8	1.1	7.3
	23.4	38%	80%				
	27.7	19%	90%				

Fig. 6 - 2

CD40

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.610	1.990	1.610	1.815	1.610	1.780
average	2.029	2.666	2.029	3.052	2.029	2.181
stdev	1.791	2.168	1.791	4.549	1.791	1.385
p (t-test)		0.073		0.006		0.724
min	0.446	0.720	0.446	0.627	0.446	0.702
max	28.000	11.100	28.000	28.100	28.000	6.600
n (Samp)	434	28	434	36	434	18
n (Pat)	173	28	173	36	173	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.695	3.525	1.695	2.615	1.695	2.380
average	2.115	3.770	2.115	5.197	2.115	2.876
stdev	1.804	1.874	1.804	8.167	1.804	1.596
p (t-test)		0.026		0.000		0.267
min	0.446	1.720	0.446	1.060	0.446	1.320
max	28.000	6.650	28.000	28.100	28.000	5.280
n (Samp)	542	6	542	10	542	7
n (Pat)	208	6	208	10	208	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.610	1.990	1.610	1.815	1.610	1.760
average	1.990	2.663	1.990	2.455	1.990	2.231
stdev	1.211	2.181	1.211	1.628	1.211	1.467
p (t-test)		0.010		0.044		0.440
min	0.541	0.720	0.541	0.627	0.541	0.702
max	6.970	11.100	6.970	6.510	6.970	6.600
n (Samp)	356	27	356	32	356	16
n (Pat)	138	27	138	32	138	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.60	0.058	434	28	0.076
24 hours	0.58	0.052	434	36	0.125
48 hours	0.56	0.071	434	18	0.396

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.81	0.107	542	6	0.004
24 hours	0.70	0.093	542	10	0.029
48 hours	0.69	0.112	542	7	0.091

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.60	0.059	356	27	0.087
24 hours	0.58	0.055	356	32	0.164
48 hours	0.56	0.076	356	16	0.424

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1.59	71%	49%	1			
	1.23	86%	30%	2	1.5	0.6	3.5
	0.87	93%	10%	3	2.4	1.1	5.0

Fig. 6 - 3

	2.17	39%	70%	4	2.3	1.1	4.9
	2.59	29%	80%				
	3.39	21%	90%				
24 hours	1.45	72%	43%	1			
	1.28	81%	33%	2	1.0	0.5	1.8
	0.95	92%	14%	3	1.5	0.9	2.5
	2.17	39%	70%	4	1.8	1.1	2.9
	2.59	31%	80%				
	3.39	19%	90%				
48 hours	1.68	72%	51%	1			
	1.31	83%	35%	2	0.7	0.1	3.5
	0.745	94%	4%	3	2.4	0.9	6.4
	2.17	33%	70%	4	2.1	0.7	5.7
	2.59	22%	80%				
	3.39	11%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	2.13	83%	68%	1			
	2.13	83%	68%	2	na	na	na
	1.71	100%	51%	3	na	na	na
	2.22	67%	70%	4	na	na	na
	2.76	67%	80%				
	3.89	50%	90%				
24 hours	2.2	70%	70%	1			
	1.63	80%	48%	2	2.0	0.1	39.2
	1.55	90%	44%	3	2.0	0.1	39.2
	2.22	60%	70%	4	5.2	0.5	55.7
	2.76	50%	80%				
	3.89	20%	90%				
48 hours	1.77	71%	53%	1			
	1.73	86%	52%	2	na	na	na
	1.31	100%	33%	3	na	na	na
	2.22	57%	70%	4	na	na	na
	2.76	29%	80%				
	3.89	29%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1.59	70%	49%	1			
	1.23	85%	30%	2	1.5	0.6	3.6
	0.869	93%	9%	3	1.8	0.8	4.0
	2.2	44%	71%	4	2.6	1.3	5.5
	2.69	30%	80%				
	3.78	19%	90%				
24 hours	1.45	72%	42%	1			
	1.27	81%	32%	2	0.8	0.4	1.8
	0.95	91%	13%	3	1.9	1.1	3.4
	2.2	38%	71%	4	1.7	1.0	3.1
	2.69	28%	80%				
	3.78	22%	90%				
48 hours	1.63	75%	51%	1			
	1.44	81%	42%	2	0.3	0.0	4.6
	0.745	94%	4%	3	2.8	1.1	7.3
	2.2	31%	71%	4	1.3	0.4	4.4
	2.69	25%	80%				
	3.78	13%	90%				

Fig. 6 - 4

CD40 Ligand

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.303	0.233	0.303	0.251	0.303	0.242
average	0.473	0.428	0.473	0.322	0.473	0.291
stdev	0.476	0.475	0.476	0.264	0.476	0.248
p (t-test)		0.628		0.061		0.108
min	0.000	0.039	0.000	0.051	0.000	0.067
max	4.030	1.810	4.030	1.180	4.030	0.923
n (Samp)	434	28	434	36	434	18
n (Pat)	173	28	173	36	173	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.293	0.264	0.293	0.381	0.293	0.225
average	0.446	0.578	0.446	0.381	0.446	0.333
stdev	0.450	0.693	0.450	0.298	0.450	0.263
p (t-test)		0.478		0.647		0.509
min	0.000	0.069	0.000	0.052	0.000	0.105
max	4.030	1.810	4.030	1.110	4.030	0.775
n (Samp)	542	6	542	10	542	7
n (Pat)	208	6	208	10	208	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.300	0.209	0.300	0.242	0.300	0.260
average	0.471	0.347	0.471	0.314	0.471	0.363
stdev	0.492	0.380	0.492	0.260	0.492	0.442
p (t-test)		0.203		0.077		0.389
min	0.000	0.039	0.000	0.051	0.000	0.067
max	4.030	1.690	4.030	1.180	4.030	1.810
n (Samp)	356	27	356	32	356	16
n (Pat)	138	27	138	32	138	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.43	0.054	434	28	0.223
24 hours	0.41	0.047	434	36	0.066
48 hours	0.38	0.061	434	18	0.043

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.49	0.118	542	6	0.926
24 hours	0.49	0.092	542	10	0.941
48 hours	0.44	0.105	542	7	0.575

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.39	0.052	356	27	0.041
24 hours	0.41	0.049	356	32	0.056
48 hours	0.40	0.067	356	16	0.129

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.124	71%	18%	1			
	0.103	82%	14%	2	1.0	0.5	2.0
	0.0599	93%	5%	3	0.8	0.4	1.8

Fig. 6 - 5

	0.547	21%	70%	4	1.9	1.1	3.3
	0.746	21%	80%				
	1.03	11%	90%				
24 hours	0.162	72%	24%	1			
	0.111	83%	16%	2	2.7	1.3	5.5
	0.0871	92%	10%	3	2.9	1.4	5.9
	0.547	11%	70%	4	3.0	1.5	6.0
	0.746	6%	80%				
	1.03	6%	90%				
48 hours	0.104	72%	14%	1			
	0.0798	83%	8%	2	3.1	0.8	11.9
	0.0674	94%	6%	3	1.0	0.1	7.4
	0.547	11%	70%	4	4.2	1.2	14.9
	0.746	11%	80%				
	1.03	0%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.0738	83%	8%	1			
	0.0738	83%	8%	2	0.5	0.0	9.7
	0.0676	100%	6%	3	0.5	0.0	9.7
	0.52	33%	70%	4	1.0	0.1	7.3
	0.691	33%	80%				
	0.995	17%	90%				
24 hours	0.237	70%	42%	1			
	0.174	80%	28%	2	5.2	0.5	55.7
	0.0999	90%	14%	3	2.0	0.1	39.2
	0.52	10%	70%	4	2.0	0.1	39.2
	0.691	10%	80%				
	0.995	10%	90%				
48 hours	0.114	71%	17%	1			
	0.107	86%	16%	2	2.0	0.1	39.5
	0.104	100%	15%	3	1.0	0.0	52.3
	0.52	14%	70%	4	3.1	0.2	43.1
	0.691	14%	80%				
	0.995	0%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.124	70%	17%	1			
	0.103	81%	13%	2	1.5	0.6	3.6
	0.0599	93%	4%	3	1.5	0.6	3.6
	0.536	15%	70%	4	3.0	1.5	6.1
	0.691	15%	80%				
	1	7%	90%				
24 hours	0.124	72%	17%	1			
	0.111	81%	15%	2	2.1	1.0	4.6
	0.0738	91%	6%	3	2.7	1.3	5.5
	0.536	13%	70%	4	2.7	1.3	5.5
	0.691	9%	80%				
	1	3%	90%				
48 hours	0.088	75%	9%	1			
	0.0798	81%	7%	2	2.6	0.6	10.7
	0.0674	94%	4%	3	1.5	0.3	8.1
	0.536	13%	70%	4	3.1	0.8	12.1
	0.691	13%	80%				
	1	6%	90%				

Fig. 6 - 6

CXCL16 (C-X-C Motif chemokine 16)

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	4.000	5.360	4.000	4.803	4.000	4.573
average	4.881	5.726	4.881	6.294	4.881	5.776
stdev	4.251	2.277	4.251	5.000	4.251	2.726
p (t-test)		0.318		0.080		0.379
min	1.242	2.563	1.242	1.969	1.242	2.614
max	45.787	11.002	45.787	29.157	45.787	11.674
n (Samp)	301	26	301	32	301	18
n (Pat)	167	26	167	32	167	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	4.094	9.071	4.094	7.458	4.094	6.893
average	4.976	8.709	4.976	9.710	4.976	7.096
stdev	3.948	1.418	3.948	7.783	3.948	2.495
p (t-test)		0.060		0.001		0.158
min	1.187	6.700	1.187	4.797	1.187	4.073
max	45.787	9.992	45.787	29.157	45.787	11.545
n (Samp)	383	4	383	9	383	7
n (Pat)	199	4	199	9	199	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	4.044	5.360	4.044	4.744	4.044	4.356
average	4.586	5.552	4.586	5.588	4.586	5.342
stdev	2.265	2.067	2.265	2.840	2.265	2.542
p (t-test)		0.038		0.032		0.213
min	1.425	2.563	1.425	1.969	1.425	2.614
max	18.483	11.002	18.483	14.552	18.483	11.674
n (Samp)	252	26	252	28	252	15
n (Pat)	135	26	135	28	135	15

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.67	0.060	301	26	0.004
24 hours	0.64	0.055	301	32	0.010
48 hours	0.65	0.072	301	18	0.031

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.91	0.099	383	4	0.000
24 hours	0.83	0.085	383	9	0.000
48 hours	0.79	0.102	383	7	0.004

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.67	0.060	252	26	0.006
24 hours	0.62	0.059	252	28	0.044
48 hours	0.61	0.079	252	15	0.174

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	4.24107	73%	59%	1			
	3.97329	81%	49%	2	1.0	0.3	3.8
	2.9312	92%	21%	3	2.4	0.9	6.5

Fig. 6 - 7

	4.86607	54%	70%	4	4.9	2.1	11.5
	6.00924	38%	80%				
	7.64595	23%	90%				
24 hours	4	72%	50%	1			
	3.73148	81%	42%	2	2.8	1.1	7.3
	3.24708	91%	31%	3	2.8	1.1	7.3
	4.86607	44%	70%	4	4.9	2.1	11.5
	6.00924	31%	80%				
	7.64595	22%	90%				
48 hours	4.12791	72%	54%	1			
	3.76453	83%	43%	2	4.1	0.3	50.1
	3.54758	94%	40%	3	6.3	0.6	65.5
	4.86607	39%	70%	4	7.5	0.8	74.0
	6.00924	33%	80%				
	7.64595	22%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	4.24107	73%	59%	1			
	3.97329	81%	47%	2	1.0	0.3	3.9
	2.9312	92%	18%	3	2.5	0.9	6.7
	4.84012	54%	70%	4	5.0	2.1	12.0
	5.8046	42%	80%				
	7.49042	19%	90%				
24 hours	3.90708	71%	44%	1			
	3.38663	82%	34%	2	2.9	1.1	7.5
	2.75532	93%	12%	3	2.1	0.7	5.9
	4.84012	43%	70%	4	4.2	1.7	10.2
	5.8046	36%	80%				
	7.49042	25%	90%				
48 hours	3.87963	73%	44%	1			
	3.76453	80%	41%	2	4.1	0.3	50.8
	3.54758	93%	38%	3	6.4	0.6	67.0
	4.84012	27%	70%	4	4.1	0.3	50.8
	5.8046	27%	80%				
	7.49042	20%	90%				

Fig. 6 - 8

EN-RAGE

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	29.596	47.452	29.596	56.090	29.596	36.174
average	51.055	141.534	51.055	89.962	51.055	102.575
stdev	68.389	268.697	68.389	124.591	68.389	182.246
p (t-test)		0.000		0.013		0.014
min	0.000	9.025	0.000	3.818	0.000	2.110
max	582.406	1187.203	582.406	559.225	582.406	736.132
n (Samp)	229	19	229	27	229	16
n (Pat)	157	19	157	27	157	16

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	30.771	646.991	30.771	79.526	30.771	43.960
average	58.092	646.991	58.092	273.588	58.092	180.238
stdev	75.886	763.975	75.886	396.233	75.886	311.600
p (t-test)		0.000		0.000		0.001
min	0.000	106.780	0.000	7.818	0.000	10.808
max	582.406	1187.203	582.406	1063.972	582.406	736.132
n (Samp)	295	2	295	7	295	5
n (Pat)	186	2	186	7	186	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	30.404	45.999	30.404	47.304	30.404	37.003
average	60.970	88.829	60.970	73.405	60.970	146.151
stdev	96.844	100.602	96.844	85.150	96.844	308.059
p (t-test)		0.234		0.541		0.012
min	0.000	9.025	0.000	3.818	0.000	2.110
max	736.132	360.114	736.132	324.143	736.132	1187.203
n (Samp)	196	19	196	25	196	14
n (Pat)	130	19	130	25	130	14

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.66	0.071	229	19	0.028
24 hours	0.62	0.060	229	27	0.053
48 hours	0.58	0.077	229	16	0.321

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.94	0.121	295	2	0.000
24 hours	0.73	0.109	295	7	0.032
48 hours	0.62	0.135	295	5	0.374

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.61	0.071	196	19	0.118
24 hours	0.59	0.063	196	25	0.141
48 hours	0.59	0.082	196	14	0.253

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	29.6272	74%	51%	1			
	18.7129	84%	31%	2	2.1	0.4	9.6
	11.8675	95%	12%	3	2.1	0.4	9.6

Fig. 6 - 9

	46.1644	53%	70%	4	5.1	1.4	18.1
	67.6223	42%	80%				
	110.686	26%	90%				
24 hours	28.2185	70%	50%	1			
	20.3794	81%	34%	2	1.3	0.5	3.3
	7.64999	93%	4%	3	1.8	0.8	4.3
	46.1644	56%	70%	4	3.1	1.5	6.5
	67.6223	33%	80%				
	110.686	15%	90%				
48 hours	19.1976	75%	32%	1			
	18.7129	81%	31%	2	2.1	0.4	9.6
	9.71827	94%	7%	3	2.1	0.4	9.6
	46.1644	38%	70%	4	3.2	0.8	12.5
	67.6223	31%	80%				
	110.686	19%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	105.662	100%	87%	1			
	105.662	100%	87%	2	na	na	na
	105.662	100%	87%	3	na	na	na
	56.0902	100%	71%	4	na	na	na
	77.4131	100%	80%				
	134.68	50%	90%				
24 hours	68.2725	71%	78%	1			
	47.3037	86%	67%	2	0.0	0.0	na
	7.64999	100%	4%	3	1.0	0.0	53.1
	56.0902	71%	71%	4	5.2	0.5	57.8
	77.4131	57%	80%				
	134.68	29%	90%				
48 hours	34.6857	80%	57%	1			
	34.6857	80%	57%	2	0.0	0.0	na
	9.71827	100%	8%	3	2.0	0.1	40.5
	56.0902	40%	71%	4	2.0	0.1	40.5
	77.4131	20%	80%				
	134.68	20%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	25.3309	74%	39%	1			
	18.7129	84%	29%	2	1.3	0.4	4.5
	11.8675	95%	12%	3	1.3	0.4	4.5
	50.1062	42%	71%	4	2.9	1.1	7.7
	68.2725	37%	80%				
	130.902	21%	90%				
24 hours	25.34	72%	40%	1			
	22.9584	80%	37%	2	2.1	0.7	6.1
	8.70763	92%	6%	3	2.5	0.9	7.0
	50.1062	48%	71%	4	3.3	1.3	8.6
	68.2725	28%	80%				
	130.902	12%	90%				
48 hours	25.3309	71%	39%	1			
	18.7129	86%	29%	2	5.3	0.5	60.4
	17.5353	93%	28%	3	3.1	0.2	46.1
	50.1062	43%	71%	4	5.3	0.5	60.4
	68.2725	36%	80%				
	130.902	21%	90%				

Fig. 6 - 10

Eotaxin

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	55.400	66.850	55.400	58.850	55.400	71.950
average	77.082	79.358	77.082	71.381	77.082	93.061
stdev	87.119	59.413	87.119	54.350	87.119	68.028
p (t-test)		0.892		0.700		0.443
min	0.410	0.410	0.410	0.410	0.410	16.900
max	1240.000	272.000	1240.000	200.000	1240.000	239.000
n (Samp)	434	28	434	36	434	18
n (Pat)	173	28	173	36	173	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	56.800	95.650	56.800	81.750	56.800	112.000
average	74.805	88.283	74.805	95.370	74.805	155.829
stdev	81.166	30.109	81.166	70.534	81.166	123.195
p (t-test)		0.685		0.427		0.009
min	0.410	47.500	0.410	15.400	0.410	44.000
max	1240.000	119.000	1240.000	200.000	1240.000	391.000
n (Samp)	542	6	542	10	542	7
n (Pat)	208	6	208	10	208	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	59.950	64.900	59.950	58.850	59.950	62.950
average	80.735	75.394	80.735	66.035	80.735	92.194
stdev	92.878	60.078	92.878	48.122	92.878	70.493
p (t-test)		0.769		0.377		0.627
min	0.410	0.410	0.410	0.410	0.410	16.900
max	1240.000	272.000	1240.000	200.000	1240.000	239.000
n (Samp)	356	27	356	32	356	16
n (Pat)	138	27	138	32	138	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.56	0.058	434	28	0.268
24 hours	0.50	0.050	434	36	0.990
48 hours	0.60	0.072	434	18	0.163

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.68	0.121	542	6	0.128
24 hours	0.59	0.095	542	10	0.365
48 hours	0.74	0.108	542	7	0.023

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.52	0.058	356	27	0.714
24 hours	0.47	0.052	356	32	0.603
48 hours	0.57	0.076	356	16	0.353

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	57.7	71%	52%	1			
	33.3	82%	26%	2	0.6	0.2	1.7
	0	100%	0%	3	2.6	1.4	4.6

Fig. 6 - 11

	81.9	36%	71%	4	1.6	0.8	3.2
	105	25%	80%				
	149	11%	90%				
24 hours	38.4	72%	29%	1			
	27.3	83%	16%	2	0.7	0.4	1.1
	8.2	94%	8%	3	0.9	0.6	1.4
	81.9	33%	71%	4	1.0	0.6	1.5
	105	22%	80%				
	149	14%	90%				
48 hours	51.2	72%	45%	1			
	41	83%	35%	2	1.0	0.3	3.8
	25.7	94%	15%	3	2.1	0.7	5.7
	81.9	44%	71%	4	2.1	0.7	5.7
	105	28%	80%				
	149	17%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	54.9	83%	49%	1			
	54.9	83%	49%	2	na	na	na
	46.9	100%	39%	3	na	na	na
	81.5	67%	70%	4	na	na	na
	102	33%	80%				
	147	0%	90%				
24 hours	43.5	70%	35%	1			
	27.3	90%	17%	2	0.3	0.0	4.6
	27.3	90%	17%	3	0.7	0.1	3.5
	81.5	50%	70%	4	1.3	0.4	4.3
	102	40%	80%				
	147	30%	90%				
48 hours	87.8	71%	74%	1			
	46.5	86%	39%	2	na	na	na
	43.5	100%	35%	3	na	na	na
	81.5	71%	70%	4	na	na	na
	102	57%	80%				
	147	43%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	52.8	70%	44%	1			
	33.3	81%	25%	2	0.6	0.3	1.5
	0	100%	0%	3	1.9	1.1	3.3
	86.2	26%	70%	4	1.0	0.5	2.0
	116	15%	81%				
	154	11%	91%				
24 hours	38.4	72%	27%	1			
	27.3	84%	16%	2	1.7	1.0	3.1
	8.2	94%	9%	3	1.2	0.6	2.3
	86.2	25%	70%	4	1.6	0.9	2.8
	116	13%	81%				
	154	9%	91%				
48 hours	50.3	75%	43%	1			
	41	81%	33%	2	1.7	0.6	5.1
	25.7	94%	15%	3	1.0	0.3	3.9
	86.2	31%	70%	4	1.7	0.6	5.1
	116	25%	81%				
	154	19%	91%				

Fig. 6 - 12

E-selectin

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	8.781	na	8.781	12.197	8.781	2.991
average	9.808	na	9.808	13.647	9.808	19.984
stdev	6.407	na	6.407	10.766	6.407	na
p (t-test)		na		0.110		na
min	2.991	na	2.991	3.333	2.991	19.984
max	42.140	na	42.140	46.625	42.140	19.984
n (Samp)	46	0	46	13	46	1
n (Pat)	43	0	43	13	43	1

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	8.873	na	8.873	19.365	8.873	na
average	10.865	na	10.865	16.061	10.865	na
stdev	8.434	na	8.434	9.082	8.434	na
p (t-test)		na		0.303		na
min	1.155	na	1.155	5.790	1.155	na
max	46.625	na	46.625	23.028	46.625	na
n (Samp)	59	0	59	3	59	0
n (Pat)	54	0	54	3	54	0

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	7.890	na	7.890	11.583	7.890	2.991
average	9.467	na	9.467	12.622	9.467	19.984
stdev	6.569	na	6.569	10.811	6.569	na
p (t-test)		na		0.210		na
min	2.991	na	2.991	3.333	2.991	19.984
max	42.140	na	42.140	46.625	42.140	19.984
n (Samp)	40	0	40	13	40	1
n (Pat)	37	0	37	13	37	1

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	nd	nd	46	0	nd
24 hours	0.64	0.091	46	13	0.116
48 hours	0.98	0.104	46	1	0.000

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	nd	nd	59	0	nd
24 hours	0.72	0.171	59	3	0.205
48 hours	nd	nd	59	0	nd

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	nd	nd	40	0	nd
24 hours	0.62	0.093	40	13	0.209
48 hours	0.98	0.111	40	1	0.000

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	na	na	na	1			
	na	na	na	2	na	na	na
	na	na	na	3	na	na	na

Fig. 6 - 13

	na	na	na	4	na	na	na
	na	na	na				
	na	na	na				
24 hours	6.92209	77%	39%	1			
	6.23347	85%	35%	2	3.3	0.2	60.7
	5.70931	92%	28%	3	4.7	0.3	76.1
	10.9592	69%	72%	4	6.5	0.4	96.6
	13.0751	31%	80%				
	17.0471	15%	91%				
48 hours	18.4916	100%	98%	1			
	18.4916	100%	98%	2	na	na	na
	18.4916	100%	98%	3	na	na	na
	10.9592	100%	72%	4	na	na	na
	13.0751	100%	80%				
	17.0471	100%	91%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	na	na	na	1			
	na	na	na	2	na	na	na
	na	na	na	3	na	na	na
	na	na	na	4	na	na	na
	na	na	na				
	na	na	na				
24 hours	6.23347	77%	38%	1			
	5.94088	85%	35%	2	5.3	0.3	90.5
	5.70931	92%	30%	3	3.6	0.2	70.4
	10.5341	62%	70%	4	6.7	0.4	102.5
	12.427	38%	80%				
	14.6809	8%	90%				
48 hours	18.1406	100%	98%	1			
	18.1406	100%	98%	2	na	na	na
	18.1406	100%	98%	3	na	na	na
	10.5341	100%	70%	4	na	na	na
	12.427	100%	80%				
	14.6809	100%	90%				

Fig. 6 - 14

Granulocyte colony-stimulating factor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	18.800	31.950	18.800	41.650	18.800	21.600
average	164.596	55.254	164.596	361.138	164.596	223.321
stdev	979.228	64.397	979.228	1116.598	979.228	456.843
p (t-test)		0.555		0.253		0.800
min	0.050	8.110	0.050	7.730	0.050	8.480
max	11103.000	320.000	11103.000	6280.000	11103.000	1650.000
n (Samp)	434	28	434	36	434	18
n (Pat)	173	28	173	36	173	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	21.150	54.600	21.150	37.400	21.150	20.700
average	154.888	63.667	154.888	673.260	154.888	283.843
stdev	885.759	44.824	885.759	1970.537	885.759	699.507
p (t-test)		0.801		0.076		0.701
min	0.050	19.600	0.050	11.600	0.050	9.400
max	11103.000	136.000	11103.000	6280.000	11103.000	1870.000
n (Samp)	542	6	542	10	542	7
n (Pat)	208	6	208	10	208	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	20.200	32.500	20.200	45.300	20.200	45.050
average	188.226	52.923	188.226	208.352	188.226	640.893
stdev	1077.984	63.329	1077.984	491.922	1077.984	1577.158
p (t-test)		0.515		0.917		0.109
min	0.050	8.110	0.050	7.730	0.050	8.480
max	11103.000	320.000	11103.000	2160.000	11103.000	6280.000
n (Samp)	356	27	356	32	356	16
n (Pat)	138	27	138	32	138	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.64	0.058	434	28	0.016
24 hours	0.68	0.051	434	36	0.000
48 hours	0.61	0.072	434	18	0.137

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.72	0.119	542	6	0.067
24 hours	0.62	0.096	542	10	0.196
48 hours	0.48	0.109	542	7	0.879

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.63	0.059	356	27	0.031
24 hours	0.69	0.054	356	32	0.000
48 hours	0.66	0.076	356	16	0.029

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	21.7	71%	55%	1			
	13.7	82%	36%	2	1.7	0.6	5.0
	10.3	96%	24%	3	3.2	1.3	7.9

Fig. 6 - 15

	34.9	46%	70%	4	3.9	1.6	9.3
	53.2	25%	80%				
	106	14%	91%				
24 hours	19.1	75%	50%	1			
	15.2	81%	41%	2	5.3	1.6	17.9
	12.4	92%	31%	3	3.7	1.0	13.4
	34.9	58%	70%	4	9.7	3.1	30.0
	53.2	44%	80%				
	106	25%	91%				
48 hours	16.5	72%	44%	1			
	12.4	83%	31%	2	2.6	0.6	10.5
	9.38	94%	20%	3	2.0	0.5	9.2
	34.9	39%	70%	4	3.7	1.0	13.4
	53.2	39%	80%				
	106	28%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	21.9	83%	52%	1			
	21.9	83%	52%	2	na	na	na
	19.4	100%	46%	3	na	na	na
	38.4	67%	70%	4	na	na	na
	59	33%	80%				
	121	17%	90%				
24 hours	17.8	70%	43%	1			
	15.2	80%	36%	2	3.0	0.2	42.8
	13.2	90%	29%	3	1.0	0.0	51.9
	38.4	50%	70%	4	5.2	0.5	55.7
	59	40%	80%				
	121	20%	90%				
48 hours	12.4	71%	27%	1			
	11.6	86%	24%	2	2.0	0.1	39.5
	9.38	100%	17%	3	2.0	0.1	39.5
	38.4	29%	70%	4	2.0	0.1	39.5
	59	14%	80%				
	121	14%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	25	70%	59%	1			
	13.7	81%	34%	2	0.7	0.2	2.4
	10.3	96%	21%	3	2.6	1.3	5.5
	35.6	44%	71%	4	2.6	1.3	5.5
	52.8	22%	80%				
	105	11%	90%				
24 hours	19.4	72%	48%	1			
	18.6	81%	47%	2	4.9	1.4	16.8
	13	91%	29%	3	2.6	0.6	10.6
	35.6	63%	71%	4	9.4	3.0	29.6
	52.8	47%	80%				
	105	25%	90%				
48 hours	18.1	75%	46%	1			
	16.5	81%	42%	2	2.0	0.5	9.3
	11.1	94%	24%	3	1.0	0.1	7.4
	35.6	50%	71%	4	4.3	1.2	15.2
	52.8	50%	80%				
	105	38%	90%				

Fig. 6 - 16

Heparin-binding growth factor 2

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	89.100	151.000	89.100	176.000	89.100	92.100
average	124.856	529.694	124.856	455.832	124.856	107.181
stdev	160.959	1613.524	160.959	1462.570	160.959	107.904
p (t-test)		0.000		0.000		0.645
min	0.980	0.980	0.980	0.980	0.980	0.980
max	1280.000	8410.000	1280.000	8750.000	1280.000	338.000
n (Samp)	434	28	434	36	434	18
n (Pat)	173	28	173	36	173	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	105.000	274.500	105.000	143.000	105.000	150.000
average	139.293	782.660	139.293	1057.336	139.293	714.277
stdev	211.875	1449.361	211.875	2953.982	211.875	1531.543
p (t-test)		0.000		0.000		0.000
min	0.980	0.980	0.980	0.980	0.980	0.980
max	2520.000	3720.000	2520.000	9460.000	2520.000	4170.000
n (Samp)	542	6	542	10	542	7
n (Pat)	208	6	208	10	208	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	106.000	144.000	106.000	211.500	106.000	134.500
average	131.273	555.683	131.273	522.156	131.273	132.520
stdev	163.515	1641.518	163.515	1545.071	163.515	104.240
p (t-test)		0.000		0.000		0.976
min	0.980	0.980	0.980	0.980	0.980	0.980
max	1280.000	8410.000	1280.000	8750.000	1280.000	338.000
n (Samp)	356	27	356	32	356	16
n (Pat)	138	27	138	32	138	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.60	0.058	434	28	0.087
24 hours	0.66	0.051	434	36	0.002
48 hours	0.50	0.069	434	18	0.989

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.67	0.122	542	6	0.168
24 hours	0.58	0.095	542	10	0.404
48 hours	0.57	0.114	542	7	0.521

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.60	0.059	356	27	0.102
24 hours	0.69	0.054	356	32	0.001
48 hours	0.56	0.076	356	16	0.446

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	na	na	na
	0	100%	0%	3	na	na	na

Fig. 6 - 17

	158	46%	70%	4	na	na	na
	208	39%	80%				
	300	21%	90%				
24 hours	131	72%	62%	1			
	58.2	81%	41%	2	1.5	0.6	3.5
	0	100%	0%	3	2.4	1.1	5.0
	158	64%	70%	4	4.8	2.5	9.0
	208	44%	80%				
	300	8%	90%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	0.8	0.3	2.0
	0	100%	0%	3	1.9	1.0	3.6
	158	28%	70%	4	0.0	0.0	na
	208	17%	80%				
	300	6%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	0.0	0.0	na
	0	100%	0%	3	0.0	0.0	na
	162	67%	71%	4	2.0	0.5	9.1
	218	50%	81%				
	306	50%	90%				
24 hours	58.2	80%	39%	1			
	58.2	80%	39%	2	3.0	0.2	42.8
	0	100%	0%	3	3.0	0.2	42.8
	162	30%	71%	4	3.0	0.2	42.8
	218	30%	81%				
	306	10%	90%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	na	na	na
	0	100%	0%	3	na	na	na
	162	43%	71%	4	na	na	na
	218	43%	81%				
	306	29%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	78.2	70%	47%	1			
	0	100%	0%	2	1.2	0.6	2.6
	0	100%	0%	3	0.8	0.3	2.0
	162	44%	72%	4	2.6	1.4	4.7
	217	41%	80%				
	319	22%	90%				
24 hours	158	72%	69%	1			
	58.2	84%	40%	2	na	na	na
	0	100%	0%	3	na	na	na
	162	59%	72%	4	na	na	na
	217	47%	80%				
	319	16%	90%				
48 hours	76.3	75%	45%	1			
	0	100%	0%	2	6.3	0.6	65.2
	0	100%	0%	3	4.1	0.3	50.0
	162	38%	72%	4	5.2	0.5	57.4
	217	19%	80%				
	319	6%	90%				

Fig. 6 - 18

Hepatocyte growth factor receptor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	257438.017	249735.450	257438.017	253752.897	257438.017	260743.802
average	285227.824	284992.077	285227.824	269378.740	285227.824	282064.897
stdev	112082.908	111190.396	112082.908	104330.097	112082.908	59422.507
p (t-test)		0.995		0.593		0.961
min	94852.941	192279.412	94852.941	128361.345	94852.941	236244.541
max	680652.681	487159.533	680652.681	501631.702	680652.681	349206.349
n (Samp)	123	9	123	16	123	3
n (Pat)	72	9	72	16	72	3

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	257758.310	324867.725	257758.310	307851.240	257758.310	298941.799
average	285421.915	324867.725	285421.915	361075.287	285421.915	298941.799
stdev	114312.681	103260.038	114312.681	108838.532	114312.681	71084.809
p (t-test)		0.628		0.147		0.868
min	94852.941	251851.852	94852.941	259090.909	94852.941	248677.249
max	680652.681	397883.598	680652.681	501631.702	680652.681	349206.349
n (Samp)	154	2	154	5	154	2
n (Pat)	90	2	90	5	90	2

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	257438.017	249735.450	257438.017	215702.479	257438.017	248494.172
average	287875.805	284992.077	287875.805	236196.394	287875.805	248494.172
stdev	118979.963	111190.396	118979.963	69950.107	118979.963	17323.593
p (t-test)		0.944		0.116		0.642
min	94852.941	192279.412	94852.941	128361.345	94852.941	236244.541
max	680652.681	487159.533	680652.681	380578.512	680652.681	260743.802
n (Samp)	99	9	99	14	99	2
n (Pat)	56	9	56	14	56	2

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.50	0.100	123	9	0.960
24 hours	0.46	0.075	123	16	0.598
48 hours	0.57	0.174	123	3	0.698

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.66	0.213	154	2	0.445
24 hours	0.72	0.131	154	5	0.086
48 hours	0.61	0.214	154	2	0.606

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.49	0.100	99	9	0.906
24 hours	0.38	0.075	99	14	0.103
48 hours	0.46	0.201	99	2	0.841

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	201058	78%	26%	1			
	192279	89%	20%	2	1.0	0.1	8.1
	191807	100%	20%	3	1.6	0.3	9.0

Fig. 6 - 19

	311111	33%	71%	4	1.0	0.1	8.1
	355556	22%	80%				
	423346	22%	90%				
24 hours	195168	75%	20%	1			
	191807	81%	20%	2	1.4	0.4	4.9
	158193	94%	6%	3	1.4	0.4	4.9
	311111	31%	71%	4	1.8	0.6	6.0
	355556	19%	80%				
	423346	13%	90%				
48 hours	231004	100%	40%	1			
	231004	100%	40%	2	na	na	na
	231004	100%	40%	3	na	na	na
	311111	33%	71%	4	na	na	na
	355556	0%	80%				
	423346	0%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	201058	78%	24%	1			
	192279	89%	19%	2	1.0	0.1	8.3
	187605	100%	19%	3	1.0	0.1	8.3
	309504	33%	71%	4	1.6	0.3	9.4
	364876	22%	81%				
	473152	11%	91%				
24 hours	195168	71%	20%	1			
	178782	86%	12%	2	1.6	0.3	9.6
	158193	93%	7%	3	2.3	0.4	11.4
	309504	21%	71%	4	2.9	0.6	13.6
	364876	7%	81%				
	473152	0%	91%				
48 hours	231004	100%	40%	1			
	231004	100%	40%	2	na	na	na
	231004	100%	40%	3	na	na	na
	309504	0%	71%	4	na	na	na
	364876	0%	81%				
	473152	0%	91%				

Fig. 6 - 20

Interleukin-1 receptor antagonist

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	234.500	294.500	234.500	335.500	234.500	306.000
average	903.000	963.946	903.000	2045.144	903.000	786.000
stdev	4128.635	1799.306	4128.635	7029.515	4128.635	815.359
p (t-test)		0.938		0.136		0.905
min	0.150	59.300	0.150	15.200	0.150	74.000
max	58400.000	8150.000	58400.000	42500.000	58400.000	2170.000
n (Samp)	434	28	434	36	434	18
n (Pat)	173	28	173	36	173	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	241.000	1980.000	241.000	1585.000	241.000	281.000
average	823.513	3041.667	823.513	5782.400	823.513	1200.000
stdev	3710.664	3173.072	3710.664	13073.661	3710.664	1265.570
p (t-test)		0.145		0.000		0.789
min	0.150	174.000	0.150	127.000	0.150	261.000
max	58400.000	8150.000	58400.000	42500.000	58400.000	3420.000
n (Samp)	542	6	542	10	542	7
n (Pat)	208	6	208	10	208	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	239.000	254.000	239.000	291.000	239.000	336.500
average	916.785	427.463	916.785	985.100	916.785	3771.875
stdev	4337.769	448.032	4337.769	1440.524	4337.769	10518.586
p (t-test)		0.559		0.929		0.019
min	0.150	59.300	0.150	15.200	0.150	74.000
max	58400.000	1740.000	58400.000	5550.000	58400.000	42500.000
n (Samp)	356	27	356	32	356	16
n (Pat)	138	27	138	32	138	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.58	0.058	434	28	0.173
24 hours	0.65	0.051	434	36	0.004
48 hours	0.59	0.072	434	18	0.217

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.82	0.106	542	6	0.003
24 hours	0.77	0.089	542	10	0.003
48 hours	0.72	0.110	542	7	0.042

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.54	0.059	356	27	0.502
24 hours	0.63	0.055	356	32	0.019
48 hours	0.59	0.076	356	16	0.229

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	175	71%	35%	1			
	158	82%	28%	2	2.1	1.0	4.4
	126	93%	18%	3	1.3	0.5	3.2

Fig. 6 - 21

	356	43%	70%	4	2.9	1.4	5.9
	513	29%	80%				
	980	21%	90%				
24 hours	199	72%	42%	1			
	190	81%	39%	2	3.5	1.5	8.5
	168	92%	33%	3	2.4	0.9	6.4
	356	50%	70%	4	6.0	2.6	13.4
	513	42%	80%				
	980	33%	90%				
48 hours	191	72%	40%	1			
	134	83%	20%	2	0.4	0.1	1.6
	114	94%	15%	3	0.8	0.3	2.0
	356	39%	70%	4	1.4	0.7	2.9
	513	39%	80%				
	980	33%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	414	83%	74%	1			
	414	83%	74%	2	na	na	na
	173	100%	33%	3	na	na	na
	364	83%	70%	4	na	na	na
	540	67%	80%				
	1020	67%	90%				
24 hours	414	70%	74%	1			
	338	80%	67%	2	1.0	0.0	51.9
	180	90%	35%	3	2.0	0.1	39.2
	364	70%	70%	4	6.2	0.6	63.1
	540	60%	80%				
	1020	60%	90%				
48 hours	270	71%	56%	1			
	264	86%	54%	2	na	na	na
	260	100%	53%	3	na	na	na
	364	43%	70%	4	na	na	na
	540	43%	80%				
	1020	43%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	190	70%	37%	1			
	156	81%	26%	2	2.1	0.9	4.5
	126	93%	16%	3	1.5	0.6	3.6
	356	37%	70%	4	2.4	1.1	5.0
	505	19%	80%				
	980	11%	90%				
24 hours	199	72%	40%	1			
	190	81%	37%	2	5.5	1.6	18.5
	168	91%	31%	3	3.1	0.8	12.1
	356	47%	70%	4	8.0	2.5	25.7
	505	41%	80%				
	980	28%	90%				
48 hours	142	75%	20%	1			
	132	81%	18%	2	0.4	0.1	1.6
	114	94%	14%	3	0.4	0.1	1.6
	356	44%	70%	4	1.4	0.7	2.9
	505	44%	80%				
	980	38%	90%				

Fig. 6 - 22

Interleukin-1 beta

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.015	0.015	0.015	0.015	0.015	0.015
average	0.318	0.421	0.318	0.315	0.318	0.634
stdev	3.084	0.827	3.084	0.627	3.084	0.962
p (t-test)		0.861		0.996		0.665
min	0.015	0.015	0.015	0.015	0.015	0.015
max	63.800	3.740	63.800	2.870	63.800	3.180
n (Samp)	434	28	434	36	434	18
n (Pat)	173	28	173	36	173	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.015	0.015	0.015	0.015	0.015	0.015
average	0.317	0.681	0.317	0.424	0.317	0.389
stdev	2.776	1.060	2.776	0.580	2.776	0.531
p (t-test)		0.748		0.903		0.945
min	0.015	0.015	0.015	0.015	0.015	0.015
max	63.800	2.390	63.800	1.420	63.800	1.290
n (Samp)	542	6	542	10	542	7
n (Pat)	208	6	208	10	208	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.015	0.015	0.015	0.015	0.015	0.175
average	0.339	0.348	0.339	0.292	0.339	0.805
stdev	3.398	0.745	3.398	0.637	3.398	1.082
p (t-test)		0.989		0.937		0.585
min	0.015	0.015	0.015	0.015	0.015	0.015
max	63.800	3.740	63.800	2.870	63.800	3.180
n (Samp)	356	27	356	32	356	16
n (Pat)	138	27	138	32	138	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.59	0.058	434	28	0.118
24 hours	0.54	0.051	434	36	0.431
48 hours	0.64	0.072	434	18	0.046

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.59	0.123	542	6	0.444
24 hours	0.61	0.096	542	10	0.234
48 hours	0.62	0.114	542	7	0.304

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.58	0.059	356	27	0.178
24 hours	0.53	0.054	356	32	0.610
48 hours	0.68	0.075	356	16	0.017

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	1.0	0.4	2.2
	0	100%	0%	3	1.6	0.8	3.2

Fig. 6 - 23

	0.0146	36%	81%	4	2.1	1.1	3.9
	0.0146	36%	81%				
	0.639	21%	90%				
24 hours	0	100%	0%	1			
	0	100%	0%	2	3.5	1.8	6.9
	0	100%	0%	3	2.4	1.1	5.0
	0.0146	25%	81%	4	2.6	1.3	5.4
	0.0146	25%	81%				
	0.639	19%	90%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	na	na	na
	0	100%	0%	3	na	na	na
	0.0146	44%	81%	4	na	na	na
	0.0146	44%	81%				
	0.639	39%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	na	na	na
	0	100%	0%	3	na	na	na
	0.0146	33%	82%	4	na	na	na
	0.0146	33%	82%				
	0.598	19%	90%				
24 hours	0	100%	0%	1			
	0	100%	0%	2	1.2	0.6	2.3
	0	100%	0%	3	1.7	1.0	3.1
	0.0146	22%	82%	4	1.6	0.9	2.8
	0.0146	22%	82%				
	0.598	19%	90%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	na	na	na
	0	100%	0%	3	na	na	na
	0.0146	50%	82%	4	na	na	na
	0.0146	50%	82%				
	0.598	44%	90%				

Fig. 6 - 24

Interleukin-10

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	15.300	18.450	15.300	23.400	15.300	13.000
average	64.089	25.955	64.089	46.532	64.089	33.085
stdev	653.984	29.144	653.984	54.661	653.984	43.210
p (t-test)		0.758		0.872		0.841
min	0.154	0.154	0.154	0.154	0.154	4.400
max	13400.000	151.000	13400.000	217.000	13400.000	176.000
n (Samp)	434	28	434	36	434	18
n (Pat)	173	28	173	36	173	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	16.000	59.550	16.000	18.950	16.000	13.500
average	57.596	53.233	57.596	48.522	57.596	29.314
stdev	585.455	22.628	585.455	57.960	585.455	32.504
p (t-test)		0.985		0.961		0.898
min	0.154	18.100	0.154	0.154	0.154	4.400
max	13400.000	81.500	13400.000	159.000	13400.000	88.400
n (Samp)	542	6	542	10	542	7
n (Pat)	208	6	208	10	208	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	15.100	18.800	15.100	23.400	15.100	19.700
average	70.419	25.691	70.419	47.084	70.419	43.846
stdev	721.168	29.178	721.168	52.829	721.168	53.601
p (t-test)		0.748		0.855		0.883
min	0.154	0.154	0.154	0.154	0.154	6.370
max	13400.000	151.000	13400.000	217.000	13400.000	176.000
n (Samp)	356	27	356	32	356	16
n (Pat)	138	27	138	32	138	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.55	0.058	434	28	0.384
24 hours	0.62	0.052	434	36	0.025
48 hours	0.50	0.070	434	18	0.974

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.85	0.100	542	6	0.000
24 hours	0.53	0.094	542	10	0.732
48 hours	0.49	0.109	542	7	0.923

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.55	0.059	356	27	0.415
24 hours	0.66	0.054	356	32	0.004
48 hours	0.57	0.076	356	16	0.334

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	12	71%	39%	1			
	10.2	82%	30%	2	3.1	1.3	7.8
	8.43	93%	23%	3	3.6	1.5	8.6

Fig. 6 - 25

	23.1	25%	70%	4	2.0	0.7	5.6
	30.4	18%	80%				
	45.4	14%	90%				
24 hours	11.5	72%	35%	1			
	9.7	81%	29%	2	0.8	0.4	1.6
	4.88	94%	7%	3	1.0	0.6	1.8
	23.1	53%	70%	4	2.5	1.6	3.8
	30.4	42%	80%				
	45.4	31%	90%				
48 hours	8.54	72%	23%	1			
	6.64	83%	13%	2	0.7	0.3	1.5
	6.31	94%	11%	3	0.3	0.1	1.2
	23.1	33%	70%	4	1.0	0.5	2.0
	30.4	28%	80%				
	45.4	28%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	35.3	83%	82%	1			
	35.3	83%	82%	2	na	na	na
	18	100%	55%	3	na	na	na
	24	83%	71%	4	na	na	na
	31.9	83%	80%				
	50.7	67%	90%				
24 hours	9.26	70%	24%	1			
	5	90%	6%	2	0.2	0.0	2.9
	5	90%	6%	3	0.2	0.0	2.9
	24	40%	71%	4	1.0	0.4	2.7
	31.9	40%	80%				
	50.7	40%	90%				
48 hours	13.2	71%	42%	1			
	8.54	86%	21%	2	0.0	0.0	na
	4.13	100%	5%	3	1.5	0.3	8.0
	24	29%	71%	4	1.0	0.1	7.4
	31.9	29%	80%				
	50.7	29%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	12	70%	39%	1			
	10.2	81%	30%	2	2.8	1.1	7.2
	8.43	93%	22%	3	3.6	1.5	8.7
	23.1	26%	70%	4	2.0	0.7	5.7
	29.7	19%	80%				
	45.1	11%	90%				
24 hours	15.6	72%	52%	1			
	11.1	81%	33%	2	1.5	0.6	3.6
	8.83	91%	23%	3	1.8	0.8	4.1
	23.1	56%	70%	4	4.3	2.2	8.3
	29.7	44%	80%				
	45.1	31%	90%				
48 hours	10.5	75%	31%	1			
	8.43	81%	22%	2	0.7	0.2	2.4
	6.31	100%	10%	3	0.5	0.1	2.2
	23.1	44%	70%	4	1.8	0.8	4.1
	29.7	38%	80%				
	45.1	31%	90%				

Fig. 6 - 26

Interleukin-15

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.151	0.013	0.151	0.013	0.151	0.040
average	0.204	0.097	0.204	0.120	0.204	0.133
stdev	0.382	0.135	0.382	0.151	0.382	0.159
p (t-test)		0.139		0.190		0.430
min	0.013	0.013	0.013	0.013	0.013	0.013
max	6.590	0.551	6.590	0.628	6.590	0.492
n (Samp)	434	28	434	36	434	18
n (Pat)	173	28	173	36	173	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.119	0.041	0.119	0.013	0.119	0.013
average	0.189	0.141	0.189	0.063	0.189	0.104
stdev	0.351	0.180	0.351	0.125	0.351	0.127
p (t-test)		0.738		0.256		0.523
min	0.013	0.013	0.013	0.013	0.013	0.013
max	6.590	0.405	6.590	0.405	6.590	0.338
n (Samp)	542	6	542	10	542	7
n (Pat)	208	6	208	10	208	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.129	0.013	0.129	0.062	0.129	0.111
average	0.207	0.090	0.207	0.127	0.207	0.157
stdev	0.414	0.129	0.414	0.149	0.414	0.169
p (t-test)		0.146		0.279		0.631
min	0.013	0.013	0.013	0.013	0.013	0.013
max	6.590	0.551	6.590	0.628	6.590	0.492
n (Samp)	356	27	356	32	356	16
n (Pat)	138	27	138	32	138	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.37	0.050	434	28	0.008
24 hours	0.40	0.046	434	36	0.031
48 hours	0.42	0.065	434	18	0.228

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.45	0.114	542	6	0.693
24 hours	0.30	0.070	542	10	0.004
48 hours	0.40	0.100	542	7	0.318

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.36	0.051	356	27	0.007
24 hours	0.43	0.051	356	32	0.160
48 hours	0.47	0.073	356	16	0.708

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	1.7	0.6	5.0
	0	100%	0%	3	7.4	3.3	16.3

Fig. 6 - 27

	0.246	14%	71%	4	0.3	0.0	4.7
	0.328	11%	81%				
	0.422	4%	90%				
24 hours	0	100%	0%	1			
	0	100%	0%	2	1.7	0.8	3.2
	0	100%	0%	3	5.2	3.1	8.7
	0.246	17%	71%	4	0.2	0.0	2.1
	0.328	14%	81%				
	0.422	3%	90%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	1.7	0.6	5.0
	0	100%	0%	3	2.8	1.1	7.1
	0.246	17%	71%	4	0.7	0.1	3.5
	0.328	17%	81%				
	0.422	11%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	0.0	0.0	na
	0	100%	0%	3	2.0	0.5	9.1
	0.242	33%	70%	4	0.0	0.0	na
	0.313	33%	80%				
	0.418	0%	90%				
24 hours	0	100%	0%	1			
	0	100%	0%	2	1.0	0.0	51.9
	0	100%	0%	3	8.4	0.9	78.7
	0.242	10%	70%	4	0.0	0.0	na
	0.313	10%	80%				
	0.418	0%	90%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	2.0	0.1	39.5
	0	100%	0%	3	4.1	0.3	49.2
	0.242	14%	70%	4	0.0	0.0	na
	0.313	14%	80%				
	0.418	0%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	1.7	0.6	5.1
	0	100%	0%	3	7.6	3.4	17.1
	0.245	11%	70%	4	0.0	0.0	na
	0.323	7%	80%				
	0.431	4%	91%				
24 hours	0	100%	0%	1			
	0	100%	0%	2	2.4	1.1	5.0
	0	100%	0%	3	3.6	1.8	7.1
	0.245	25%	70%	4	1.5	0.6	3.6
	0.323	13%	80%				
	0.431	3%	91%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	1.0	0.4	2.8
	0	100%	0%	3	1.5	0.6	3.6
	0.245	25%	70%	4	0.5	0.1	2.2
	0.323	25%	80%				
	0.431	13%	91%				

Fig. 6 - 28

Interleukin-3

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.060	0.033	0.060	0.038	0.060	0.035
average	0.093	0.059	0.093	0.063	0.093	0.050
stdev	0.105	0.103	0.105	0.082	0.105	0.048
p (t-test)		0.097		0.095		0.084
min	0.002	0.002	0.002	0.002	0.002	0.002
max	0.566	0.550	0.566	0.404	0.566	0.164
n (Samp)	434	28	434	36	434	18
n (Pat)	173	28	173	36	173	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.057	0.068	0.057	0.037	0.057	0.053
average	0.088	0.157	0.088	0.057	0.088	0.056
stdev	0.101	0.206	0.101	0.064	0.101	0.038
p (t-test)		0.097		0.335		0.409
min	0.002	0.002	0.002	0.002	0.002	0.002
max	0.566	0.550	0.566	0.211	0.566	0.123
n (Samp)	542	6	542	10	542	7
n (Pat)	208	6	208	10	208	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.053	0.031	0.053	0.037	0.053	0.035
average	0.085	0.041	0.085	0.058	0.085	0.082
stdev	0.104	0.037	0.104	0.082	0.104	0.135
p (t-test)		0.028		0.151		0.898
min	0.002	0.002	0.002	0.002	0.002	0.002
max	0.566	0.121	0.566	0.404	0.566	0.550
n (Samp)	356	27	356	32	356	16
n (Pat)	138	27	138	32	138	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.37	0.049	434	28	0.007
24 hours	0.40	0.046	434	36	0.027
48 hours	0.38	0.062	434	18	0.060

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.58	0.123	542	6	0.512
24 hours	0.41	0.085	542	10	0.291
48 hours	0.47	0.107	542	7	0.748

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.38	0.051	356	27	0.016
24 hours	0.40	0.049	356	32	0.042
48 hours	0.44	0.070	356	16	0.393

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.0216	71%	23%	1			
	0	100%	0%	2	1.7	0.6	5.0
	0	100%	0%	3	3.9	1.7	9.4

Fig. 6 - 29

	0.102	14%	70%	4	3.2	1.3	7.9
	0.146	4%	80%				
	0.23	4%	90%				
24 hours	0.00277	72%	15%	1			
	0	100%	0%	2	2.1	1.1	3.9
	0	100%	0%	3	1.4	0.7	2.9
	0.102	19%	70%	4	3.1	1.7	5.4
	0.146	11%	80%				
	0.23	6%	90%				
48 hours	0.0218	72%	24%	1			
	0	100%	0%	2	2.0	0.5	9.2
	0	100%	0%	3	2.6	0.6	10.5
	0.102	11%	70%	4	3.7	1.0	13.4
	0.146	6%	80%				
	0.23	0%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.0402	83%	41%	1			
	0.0402	83%	41%	2	2.0	0.1	39.2
	0	100%	0%	3	1.0	0.0	51.9
	0.0972	33%	70%	4	2.0	0.1	39.2
	0.136	33%	80%				
	0.218	17%	90%				
24 hours	0.0309	70%	33%	1			
	0	100%	0%	2	3.0	0.2	42.8
	0	100%	0%	3	3.0	0.2	42.8
	0.0972	20%	70%	4	3.0	0.2	42.8
	0.136	10%	80%				
	0.218	0%	90%				
48 hours	0.0471	71%	45%	1			
	0.0277	86%	31%	2	2.0	0.1	39.5
	0	100%	0%	3	3.1	0.2	43.1
	0.0972	14%	70%	4	1.0	0.0	52.3
	0.136	0%	80%				
	0.218	0%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.0218	70%	26%	1			
	0.00277	81%	17%	2	1.7	0.6	5.1
	0	100%	0%	3	4.4	1.9	10.5
	0.0944	15%	71%	4	2.5	0.9	6.5
	0.121	0%	80%				
	0.207	0%	90%				
24 hours	0.00277	72%	17%	1			
	0	100%	0%	2	1.2	0.6	2.6
	0	100%	0%	3	1.9	1.0	3.6
	0.0944	16%	71%	4	2.6	1.4	4.7
	0.121	9%	80%				
	0.207	6%	90%				
48 hours	0.0115	75%	18%	1			
	0	100%	0%	2	1.3	0.4	4.4
	0	100%	0%	3	1.3	0.4	4.4
	0.0944	25%	71%	4	1.7	0.6	5.1
	0.121	19%	80%				
	0.207	6%	90%				

Fig. 6 - 30

Myeloperoxidase

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	170.297	86.725	170.297	236.638	170.297	278.774
average	218.021	352.301	218.021	250.024	218.021	267.746
stdev	268.779	625.782	268.779	231.222	268.779	191.490
p (t-test)		0.070		0.547		0.468
min	0.000	0.000	0.000	0.000	0.000	0.000
max	1808.488	2065.234	1808.488	862.883	1808.488	585.270
n (Samp)	230	19	230	28	230	16
n (Pat)	158	19	158	28	158	16

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	165.435	2056.930	165.435	277.618	165.435	234.462
average	219.215	2056.930	219.215	416.483	219.215	258.294
stdev	257.553	11.744	257.553	561.866	257.553	178.310
p (t-test)		0.000		0.054		0.736
min	0.000	2048.626	0.000	0.000	0.000	0.000
max	1808.488	2065.234	1808.488	1580.100	1808.488	477.383
n (Samp)	295	2	295	7	295	5
n (Pat)	187	2	187	7	187	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	177.462	86.725	177.462	266.108	177.462	329.876
average	230.048	175.711	230.048	342.348	230.048	411.037
stdev	283.897	211.789	283.897	415.184	283.897	512.325
p (t-test)		0.418		0.076		0.032
min	0.000	0.000	0.000	0.000	0.000	0.000
max	1808.488	663.247	1808.488	2048.626	1808.488	2065.234
n (Samp)	198	19	198	26	198	14
n (Pat)	132	19	132	26	132	14

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.51	0.070	230	19	0.847
24 hours	0.57	0.059	230	28	0.216
48 hours	0.61	0.077	230	16	0.151

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	1.00	0.000	295	2	nd
24 hours	0.60	0.115	295	7	0.400
48 hours	0.60	0.135	295	5	0.473

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.47	0.068	198	19	0.637
24 hours	0.61	0.062	198	26	0.084
48 hours	0.65	0.082	198	14	0.075

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	20.1558	74%	35%	1			
	0	100%	0%	2	na	na	na
	0	100%	0%	3	na	na	na

Fig. 6 - 31

	294.035	32%	70%	4	na	na	na
	349.512	26%	80%				
	513.42	16%	90%				
24 hours	101.348	71%	41%	1			
	5.44998	82%	34%	2	2.1	0.9	4.7
	0	100%	0%	3	1.8	0.8	4.3
	294.035	36%	70%	4	2.4	1.1	5.2
	349.512	32%	80%				
	513.42	11%	90%				
48 hours	109.477	75%	42%	1			
	78.1194	81%	39%	2	0.6	0.1	3.5
	0	100%	0%	3	1.4	0.4	4.6
	294.035	50%	70%	4	2.5	0.9	6.7
	349.512	31%	80%				
	513.42	13%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1808.49	100%	100%	1			
	1808.49	100%	100%	2	na	na	na
	1808.49	100%	100%	3	na	na	na
	296.761	100%	70%	4	na	na	na
	364.661	100%	80%				
	514.759	100%	90%				
24 hours	84.1607	71%	38%	1			
	5.44998	86%	32%	2	2.0	0.1	39.9
	0	100%	0%	3	2.0	0.1	40.5
	296.761	43%	70%	4	2.0	0.1	39.9
	364.661	29%	80%				
	514.759	29%	90%				
48 hours	218.559	80%	56%	1			
	218.559	80%	56%	2	0.0	0.0	na
	0	100%	0%	3	2.0	0.1	40.5
	296.761	40%	70%	4	2.0	0.1	40.5
	364.661	20%	80%				
	514.759	0%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	20.1558	74%	33%	1			
	0	100%	0%	2	0.8	0.2	2.5
	0	100%	0%	3	2.9	1.3	6.3
	294.035	26%	70%	4	0.5	0.1	2.3
	364.661	21%	80%				
	550.772	11%	90%				
24 hours	128.008	73%	45%	1			
	101.348	81%	41%	2	2.5	0.9	6.9
	0	100%	0%	3	2.1	0.7	6.1
	294.035	42%	70%	4	3.8	1.5	9.7
	364.661	27%	80%				
	550.772	12%	90%				
48 hours	211.291	71%	55%	1			
	78.1194	86%	37%	2	na	na	na
	0	100%	0%	3	na	na	na
	294.035	57%	70%	4	na	na	na
	364.661	36%	80%				
	550.772	14%	90%				

Fig. 6 - 32

Nidogen-1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	274684.343	365099.010	274684.343	481331.169	274684.343	306006.494
average	441895.551	439086.795	441895.551	519762.067	441895.551	421048.325
stdev	498707.894	325456.181	498707.894	297315.567	498707.894	425448.037
p (t-test)		0.987		0.545		0.943
min	140.129	4788.306	140.129	140.129	140.129	64950.980
max	3173333.333	996875.000	3173333.333	1355072.464	3173333.333	892187.500
n (Samp)	106	9	106	16	106	3
n (Pat)	65	9	65	16	65	3

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	322411.616	88217.871	322411.616	626068.376	322411.616	482803.087
average	443314.574	88217.871	443314.574	669422.641	443314.574	482803.087
stdev	465755.847	44030.886	465755.847	517323.852	465755.847	578956.989
p (t-test)		0.285		0.290		0.906
min	140.129	57083.333	140.129	140.129	140.129	73418.675
max	3173333.333	119352.410	3173333.333	1193581.781	3173333.333	892187.500
n (Samp)	138	2	138	5	138	2
n (Pat)	83	2	83	5	83	2

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	332323.232	365099.010	332323.232	498144.217	332323.232	185478.737
average	474489.190	439086.795	474489.190	578158.516	474489.190	185478.737
stdev	517120.899	325456.181	517120.899	281479.308	517120.899	170451.988
p (t-test)		0.841		0.467		0.434
min	34143.519	4788.306	34143.519	222938.144	34143.519	64950.980
max	3173333.333	996875.000	3173333.333	1355072.464	3173333.333	306006.494
n (Samp)	85	9	85	14	85	2
n (Pat)	50	9	50	14	50	2

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.54	0.103	106	9	0.675
24 hours	0.64	0.079	106	16	0.074
48 hours	0.49	0.169	106	3	0.955

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.18	0.112	138	2	0.005
24 hours	0.64	0.136	138	5	0.302
48 hours	0.49	0.205	138	2	0.972

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.52	0.103	85	9	0.854
24 hours	0.67	0.084	85	14	0.042
48 hours	0.28	0.152	85	2	0.141

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	291919	78%	52%	1			
	56250	89%	11%	2	0.0	0.0	na
	1456.57	100%	3%	3	2.1	0.4	10.6

Fig. 6 - 33

	499188	33%	71%	4	1.5	0.3	8.9
	741453	22%	80%				
	965625	11%	91%				
24 hours	356436	75%	58%	1			
	338474	81%	55%	2	2.0	0.1	43.3
	193299	94%	44%	3	10.5	1.0	111.9
	499188	44%	71%	4	5.6	0.5	67.6
	741453	13%	80%				
	965625	6%	91%				
48 hours	56250	100%	11%	1			
	56250	100%	11%	2	1.0	0.0	60.7
	56250	100%	11%	3	0.0	0.0	na
	499188	33%	71%	4	1.0	0.0	60.7
	741453	33%	80%				
	965625	0%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	56250	100%	12%	1			
	56250	100%	12%	2	na	na	na
	56250	100%	12%	3	na	na	na
	510684	0%	70%	4	na	na	na
	724359	0%	80%				
	965625	0%	91%				
24 hours	356436	80%	55%	1			
	356436	80%	55%	2	0.0	0.0	na
	0	100%	0%	3	2.0	0.1	42.5
	510684	60%	70%	4	2.0	0.1	42.5
	724359	40%	80%				
	965625	40%	91%				
48 hours	71159.6	100%	13%	1			
	71159.6	100%	13%	2	0.0	0.0	na
	71159.6	100%	13%	3	0.0	0.0	na
	510684	50%	70%	4	1.0	0.0	56.6
	724359	50%	80%				
	965625	0%	91%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	291919	78%	48%	1			
	56250	89%	7%	2	0.5	0.0	10.3
	0	100%	0%	3	2.2	0.4	11.7
	553419	33%	72%	4	1.0	0.1	8.1
	741453	22%	80%				
	965625	11%	91%				
24 hours	461851	71%	62%	1			
	332323	86%	51%	2	na	na	na
	259596	93%	46%	3	na	na	na
	553419	43%	72%	4	na	na	na
	741453	21%	80%				
	965625	7%	91%				
48 hours	56250	100%	7%	1			
	56250	100%	7%	2	na	na	na
	56250	100%	7%	3	na	na	na
	553419	0%	72%	4	na	na	na
	741453	0%	80%				
	965625	0%	91%				

Fig. 6 - 34

Oxidized low-density lipoprotein receptor 1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.405	0.491	0.405	0.557	0.405	0.620
average	0.499	0.723	0.499	0.832	0.499	0.785
stdev	0.336	0.747	0.336	0.729	0.336	0.658
p (t-test)		0.015		0.000		0.003
min	0.000	0.153	0.000	0.121	0.000	0.121
max	2.264	3.428	2.264	3.215	2.264	2.441
n (Samp)	230	19	230	28	230	16
n (Pat)	158	19	158	28	158	16

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.440	2.526	0.440	0.659	0.440	0.573
average	0.553	2.526	0.553	0.647	0.553	0.675
stdev	0.433	1.277	0.433	0.301	0.433	0.469
p (t-test)		0.000		0.565		0.532
min	0.000	1.623	0.000	0.121	0.000	0.196
max	3.215	3.428	3.215	1.020	3.215	1.179
n (Samp)	295	2	295	7	295	5
n (Pat)	187	2	187	7	187	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.426	0.478	0.426	0.557	0.426	0.646
average	0.543	0.581	0.543	0.882	0.543	1.068
stdev	0.416	0.433	0.416	0.763	0.416	0.949
p (t-test)		0.708		0.001		0.000
min	0.121	0.153	0.121	0.162	0.121	0.121
max	3.013	2.023	3.013	3.215	3.013	3.428
n (Samp)	198	19	198	26	198	14
n (Pat)	132	19	132	26	132	14

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.59	0.071	230	19	0.225
24 hours	0.67	0.058	230	28	0.004
48 hours	0.65	0.077	230	16	0.057

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.98	0.070	295	2	0.000
24 hours	0.66	0.114	295	7	0.162
48 hours	0.57	0.135	295	5	0.581

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.53	0.070	198	19	0.666
24 hours	0.65	0.061	198	26	0.011
48 hours	0.71	0.080	198	14	0.007

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.31139	74%	32%	1			
	0.26785	84%	22%	2	0.2	0.0	2.1
	0.15936	95%	4%	3	1.0	0.4	2.3

Fig. 6 - 35

	0.52711	42%	70%	4	1.7	0.8	3.4
	0.66119	37%	80%				
	0.94808	16%	90%				
24 hours	0.47418	71%	60%	1			
	0.33901	82%	36%	2	1.3	0.4	4.5
	0.26318	93%	21%	3	3.3	1.3	8.5
	0.52711	57%	70%	4	4.6	1.9	11.2
	0.66119	43%	80%				
	0.94808	29%	90%				
48 hours	0.37277	75%	46%	1			
	0.34901	81%	37%	2	0.6	0.1	3.5
	0.19557	94%	10%	3	0.7	0.1	3.6
	0.52711	63%	70%	4	3.3	1.3	8.4
	0.66119	31%	80%				
	0.94808	19%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1.45111	100%	96%	1			
	1.45111	100%	96%	2	na	na	na
	1.45111	100%	96%	3	na	na	na
	0.5758	100%	70%	4	na	na	na
	0.72141	100%	80%				
	1.01552	100%	90%				
24 hours	0.60057	71%	72%	1			
	0.47817	86%	57%	2	0.0	0.0	na
	1E-09	100%	0%	3	2.0	0.1	40.5
	0.5758	71%	70%	4	4.1	0.3	50.3
	0.72141	29%	80%				
	1.01552	14%	90%				
48 hours	0.27364	80%	21%	1			
	0.27364	80%	21%	2	0.0	0.0	na
	0.19557	100%	9%	3	0.5	0.0	9.8
	0.5758	40%	70%	4	1.0	0.1	7.5
	0.72141	40%	80%				
	1.01552	40%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.31139	74%	28%	1			
	0.26785	84%	20%	2	0.4	0.1	1.6
	0.15936	95%	4%	3	1.0	0.4	2.4
	0.57009	37%	70%	4	1.4	0.7	3.0
	0.75586	21%	80%				
	1.02433	5%	90%				
24 hours	0.45351	73%	55%	1			
	0.33901	81%	33%	2	0.7	0.2	2.5
	0.26318	92%	19%	3	1.9	0.8	4.3
	0.57009	46%	70%	4	3.5	1.7	7.4
	0.75586	42%	80%				
	1.02433	31%	90%				
48 hours	0.61084	71%	75%	1			
	0.37277	86%	42%	2	2.0	0.1	41.6
	0.34901	93%	35%	3	4.2	0.3	53.2
	0.57009	71%	70%	4	7.9	0.8	80.5
	0.75586	36%	80%				
	1.02433	29%	90%				

Fig. 6 - 36

P-selectin glycoprotein ligand 1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	277.352	231.778	277.352	259.476	277.352	257.793
average	286.966	224.435	286.966	276.426	286.966	241.709
stdev	111.502	80.123	111.502	98.036	111.502	77.743
p (t-test)		0.006		0.613		0.091
min	11.853	78.931	11.853	96.193	11.853	70.946
max	1092.518	387.856	1092.518	524.267	1092.518	388.464
n (Samp)	293	26	293	31	293	18
n (Pat)	165	26	165	31	165	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	265.873	239.642	265.873	296.740	265.873	278.939
average	276.603	236.259	276.603	305.246	276.603	285.116
stdev	108.347	31.206	108.347	74.321	108.347	65.736
p (t-test)		0.458		0.431		0.836
min	11.853	196.206	11.853	194.647	11.853	198.285
max	1092.518	269.545	1092.518	437.970	1092.518	379.297
n (Samp)	375	4	375	9	375	7
n (Pat)	197	4	197	9	197	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	276.939	231.672	276.939	249.294	276.939	268.053
average	282.261	226.605	282.261	269.909	282.261	241.715
stdev	111.001	82.852	111.001	95.966	111.001	84.009
p (t-test)		0.014		0.579		0.166
min	11.853	78.931	11.853	96.193	11.853	70.946
max	1092.518	387.856	1092.518	524.267	1092.518	388.464
n (Samp)	244	26	244	27	244	15
n (Pat)	133	26	133	27	133	15

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.32	0.048	293	26	0.000
24 hours	0.48	0.054	293	31	0.678
48 hours	0.38	0.063	293	18	0.067

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.37	0.127	375	4	0.320
24 hours	0.62	0.101	375	9	0.252
48 hours	0.55	0.113	375	7	0.628

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.34	0.051	244	26	0.002
24 hours	0.47	0.058	244	27	0.648
48 hours	0.40	0.070	244	15	0.157

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	179.628	73%	12%	1			
	165.473	81%	9%	2	1.0	0.3	3.9
	86.0465	92%	2%	3	3.3	1.3	8.2

Fig. 6 - 37

	321.846	12%	70%	4	4.2	1.7	10.1
	349.777	8%	80%				
	398.829	0%	90%				
24 hours	224.212	71%	27%	1			
	190.123	81%	15%	2	0.4	0.2	0.9
	175.501	90%	11%	3	1.0	0.6	1.6
	321.846	35%	70%	4	1.0	0.6	1.6
	349.777	26%	80%				
	398.829	10%	90%				
48 hours	197.838	72%	18%	1			
	191.148	83%	15%	2	6.4	0.6	66.6
	85.2713	94%	2%	3	4.2	0.3	50.8
	321.846	11%	70%	4	7.7	0.8	76.3
	349.777	6%	80%				
	398.829	0%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	229.559	75%	34%	1			
	195.596	100%	21%	2	na	na	na
	195.596	100%	21%	3	na	na	na
	313.492	0%	70%	4	na	na	na
	341.364	0%	80%				
	389.61	0%	90%				
24 hours	263.209	78%	49%	1			
	258.919	89%	47%	2	2.0	0.1	39.9
	194.423	100%	20%	3	4.1	0.3	49.9
	313.492	22%	70%	4	2.0	0.1	39.9
	341.364	22%	80%				
	389.61	22%	90%				
48 hours	256.154	71%	46%	1			
	237.694	86%	37%	2	2.0	0.1	39.4
	197.838	100%	22%	3	2.0	0.1	39.9
	313.492	29%	70%	4	2.0	0.1	39.4
	341.364	29%	80%				
	389.61	0%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	177.65	73%	13%	1			
	165.473	81%	10%	2	0.5	0.1	2.3
	86.0465	92%	2%	3	2.4	1.1	5.3
	319.242	15%	70%	4	3.1	1.5	6.5
	342.314	8%	80%				
	391.52	0%	90%				
24 hours	224.212	70%	28%	1			
	189.689	81%	16%	2	0.3	0.1	0.9
	144.347	93%	5%	3	1.0	0.6	1.7
	319.242	33%	70%	4	1.0	0.6	1.8
	342.314	26%	80%				
	391.52	4%	90%				
48 hours	197.765	73%	20%	1			
	191.148	80%	17%	2	4.2	0.3	51.8
	85.2713	93%	2%	3	5.3	0.5	59.7
	319.242	13%	70%	4	5.4	0.5	60.7
	342.314	7%	80%				
	391.52	0%	90%				

Fig. 6 - 38

Secretory leukocyte peptidase inhibitor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	62595.973	78063.439	62595.973	65709.516	62595.973	70712.067
average	69456.204	85962.439	69456.204	79126.168	69456.204	77609.002
stdev	31260.478	33779.341	31260.478	41376.549	31260.478	31939.002
p (t-test)		0.011		0.115		0.285
min	13520.408	30802.920	13520.408	40614.203	13520.408	43486.529
max	199917.831	160690.846	199917.831	218323.747	199917.831	168974.359
n (Samp)	282	26	282	31	282	18
n (Pat)	163	26	163	31	163	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	64830.647	97681.047	64830.647	64659.271	64830.647	69879.518
average	70473.504	93207.920	70473.504	99372.792	70473.504	105227.374
stdev	29816.401	55133.199	29816.401	60719.800	29816.401	56107.821
p (t-test)		0.134		0.006		0.003
min	13520.408	30802.920	13520.408	40614.203	13520.408	51516.315
max	199917.831	146666.667	199917.831	218323.747	199917.831	169533.679
n (Samp)	364	4	364	9	364	7
n (Pat)	195	4	195	9	195	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	62461.300	78063.439	62461.300	68406.910	62461.300	71053.763
average	68318.825	86491.384	68318.825	76803.702	68318.825	71866.204
stdev	28255.445	31508.533	28255.445	34581.318	28255.445	26210.826
p (t-test)		0.002		0.150		0.636
min	10867.347	38136.201	10867.347	44299.424	10867.347	30802.920
max	183903.282	160690.846	183903.282	170531.178	183903.282	136649.396
n (Samp)	236	26	236	27	236	15
n (Pat)	132	26	132	27	132	15

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.66	0.060	282	26	0.008
24 hours	0.56	0.056	282	31	0.255
48 hours	0.59	0.072	282	18	0.199

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.61	0.151	364	4	0.472
24 hours	0.61	0.101	364	9	0.291
48 hours	0.66	0.114	364	7	0.157

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.68	0.060	236	26	0.003
24 hours	0.57	0.060	236	27	0.261
48 hours	0.56	0.079	236	15	0.435

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	67828.8	73%	59%	1			
	59182.8	81%	44%	2	0.5	0.1	2.2
	42891.6	92%	15%	3	2.4	1.1	5.2

Fig. 6 - 39

	75855.4	54%	70%	4	3.0	1.5	6.3
	87078.5	42%	80%				
	108187	27%	90%				
24 hours	59182.8	71%	44%	1			
	51538.5	81%	29%	2	2.1	1.0	4.7
	45220.7	90%	20%	3	3.4	1.7	6.8
	75855.4	26%	70%	4	1.8	0.8	4.1
	87078.5	23%	80%				
	108187	16%	90%				
48 hours	59855.4	72%	44%	1			
	59182.8	83%	44%	2	2.1	0.4	9.4
	43992.3	94%	16%	3	4.4	1.2	15.7
	75855.4	22%	70%	4	2.1	0.4	9.4
	87078.5	22%	80%				
	108187	17%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	63518.1	75%	48%	1			
	30739.7	100%	3%	2	1.0	0.0	52.6
	30739.7	100%	3%	3	0.0	0.0	na
	75855.4	50%	70%	4	2.0	0.1	39.9
	87887.3	50%	80%				
	108205	50%	90%				
24 hours	60731.2	78%	43%	1			
	41965.1	89%	12%	2	1.5	0.3	8.1
	39856.6	100%	11%	3	0.0	0.0	na
	75855.4	44%	70%	4	2.0	0.4	9.2
	87887.3	44%	80%				
	108205	44%	90%				
48 hours	61497.1	71%	44%	1			
	59354.8	86%	39%	2	na	na	na
	51362.8	100%	26%	3	na	na	na
	75855.4	43%	70%	4	na	na	na
	87887.3	43%	80%				
	108205	43%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	67828.8	73%	60%	1			
	61343.6	81%	49%	2	1.0	0.3	3.9
	48614.4	92%	22%	3	2.9	1.1	7.6
	75698.9	54%	70%	4	4.6	1.9	11.1
	84615.4	42%	80%				
	105385	27%	90%				
24 hours	57927.7	70%	44%	1			
	51362.8	81%	28%	2	2.9	1.1	7.5
	45220.7	93%	18%	3	3.3	1.3	8.3
	75698.9	26%	70%	4	2.5	0.9	6.7
	84615.4	22%	80%				
	105385	15%	90%				
48 hours	59855.4	73%	45%	1			
	59401.7	80%	45%	2	0.6	0.1	3.5
	43354.8	93%	14%	3	2.5	0.9	6.7
	75698.9	27%	70%	4	1.0	0.2	3.9
	84615.4	20%	80%				
	105385	13%	90%				

Fig. 6 - 40

Stem cell factor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	332.000	350.500	332.000	353.000	332.000	318.500
average	375.711	410.250	375.711	378.056	375.711	371.500
stdev	311.554	204.270	311.554	199.648	311.554	204.434
p (t-test)		0.563		0.965		0.955
min	89.700	169.000	89.700	150.000	89.700	161.000
max	5840.000	860.000	5840.000	1100.000	5840.000	927.000
n (Samp)	434	28	434	36	434	18
n (Pat)	173	28	173	36	173	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	335.000	542.500	335.000	453.500	335.000	543.000
average	374.708	529.333	374.708	418.700	374.708	547.143
stdev	290.180	267.211	290.180	186.823	290.180	144.158
p (t-test)		0.195		0.633		0.117
min	89.700	188.000	89.700	174.000	89.700	316.000
max	5840.000	860.000	5840.000	660.000	5840.000	769.000
n (Samp)	542	6	542	10	542	7
n (Pat)	208	6	208	10	208	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	330.500	356.000	330.500	340.500	330.500	293.000
average	373.648	390.259	373.648	368.969	373.648	343.938
stdev	330.156	172.112	330.156	201.614	330.156	217.431
p (t-test)		0.796		0.937		0.722
min	89.700	169.000	89.700	150.000	89.700	161.000
max	5840.000	819.000	5840.000	1100.000	5840.000	927.000
n (Samp)	356	27	356	32	356	16
n (Pat)	138	27	138	32	138	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.55	0.058	434	28	0.381
24 hours	0.50	0.050	434	36	0.922
48 hours	0.48	0.069	434	18	0.778

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.68	0.121	542	6	0.130
24 hours	0.60	0.096	542	10	0.308
48 hours	0.83	0.097	542	7	0.001

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.55	0.059	356	27	0.393
24 hours	0.49	0.053	356	32	0.784
48 hours	0.41	0.068	356	16	0.173

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	284	71%	33%	1			
	224	86%	17%	2	0.6	0.3	1.2
	187	93%	8%	3	0.7	0.4	1.4

Fig. 6 - 41

	404	39%	71%	4	1.1	0.7	1.9
	463	32%	80%				
	563	21%	90%				
24 hours	229	72%	20%	1			
	198	81%	10%	2	0.3	0.2	0.6
	177	92%	7%	3	0.7	0.5	1.1
	404	33%	71%	4	0.9	0.6	1.3
	463	25%	80%				
	563	11%	90%				
48 hours	219	72%	16%	1			
	214	83%	14%	2	0.4	0.1	1.6
	161	94%	4%	3	1.0	0.4	2.3
	404	33%	71%	4	1.2	0.6	2.6
	463	28%	80%				
	563	17%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	323	83%	48%	1			
	323	83%	48%	2	1.0	0.0	51.9
	187	100%	9%	3	1.0	0.0	51.9
	407	50%	70%	4	3.0	0.2	42.8
	482	50%	80%				
	561	50%	90%				
24 hours	320	70%	47%	1			
	231	80%	22%	2	0.3	0.0	4.6
	173	100%	7%	3	0.0	0.0	na
	407	60%	70%	4	2.0	0.7	5.6
	482	30%	80%				
	561	30%	90%				
48 hours	525	71%	87%	1			
	439	86%	75%	2	na	na	na
	315	100%	45%	3	na	na	na
	407	86%	70%	4	na	na	na
	482	71%	80%				
	561	43%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	299	70%	38%	1			
	229	81%	20%	2	0.7	0.3	1.4
	198	93%	10%	3	1.0	0.5	1.8
	404	37%	71%	4	1.1	0.6	2.0
	463	26%	81%				
	551	15%	90%				
24 hours	222	72%	16%	1			
	198	81%	10%	2	0.9	0.5	1.5
	177	94%	7%	3	0.4	0.2	0.9
	404	28%	71%	4	1.3	0.8	1.9
	463	25%	81%				
	551	9%	90%				
48 hours	214	75%	14%	1			
	173	81%	7%	2	0.7	0.1	3.5
	161	94%	5%	3	1.3	0.4	4.4
	404	25%	71%	4	2.4	0.9	6.5
	463	19%	81%				
	551	19%	90%				

Fig. 6 - 42

Tissue inhibitor of metalloproteinase 1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	217.000	272.500	217.000	271.000	217.000	264.500
average	265.817	348.268	265.817	412.575	265.817	366.194
stdev	178.612	213.601	178.612	311.598	178.612	284.211
p (t-test)		0.020		0.000		0.024
min	75.400	83.100	75.400	83.700	75.400	60.500
max	1250.000	966.000	1250.000	1220.000	1250.000	1207.000
n (Samp)	434	28	434	36	434	18
n (Pat)	173	28	173	36	173	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	229.000	457.500	229.000	287.000	229.000	285.000
average	280.938	500.500	280.938	379.000	280.938	353.714
stdev	197.982	251.936	197.982	250.315	197.982	229.709
p (t-test)		0.007		0.123		0.335
min	56.400	237.000	56.400	104.000	56.400	131.000
max	1250.000	966.000	1250.000	829.000	1250.000	776.000
n (Samp)	542	6	542	10	542	7
n (Pat)	208	6	208	10	208	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	221.500	277.000	221.500	281.500	221.500	287.500
average	269.575	340.796	269.575	426.084	269.575	418.531
stdev	179.160	201.793	179.160	322.719	179.160	306.921
p (t-test)		0.049		0.000		0.002
min	75.400	83.100	75.400	83.700	75.400	60.500
max	1250.000	860.000	1250.000	1220.000	1250.000	1207.000
n (Samp)	356	27	356	32	356	16
n (Pat)	138	27	138	32	138	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.65	0.058	434	28	0.012
24 hours	0.66	0.051	434	36	0.002
48 hours	0.62	0.072	434	18	0.087

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.83	0.104	542	6	0.002
24 hours	0.63	0.096	542	10	0.181
48 hours	0.60	0.114	542	7	0.367

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.64	0.059	356	27	0.018
24 hours	0.68	0.054	356	32	0.001
48 hours	0.67	0.076	356	16	0.024

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	221	71%	51%	1			
	201	82%	48%	2	2.0	0.7	5.6
	142	93%	21%	3	2.1	0.7	5.7

Fig. 6 - 43

	284	46%	70%	4	4.7	2.0	10.9
	344	39%	80%				
	464	21%	90%				
24 hours	225	72%	52%	1			
	205	81%	48%	2	2.4	0.9	6.3
	163	92%	29%	3	4.3	1.9	10.2
	284	44%	70%	4	5.1	2.2	11.7
	344	39%	80%				
	464	28%	90%				
48 hours	221	72%	51%	1			
	190	83%	42%	2	1.0	0.3	3.8
	142	94%	21%	3	2.4	0.9	6.4
	284	44%	70%	4	1.7	0.6	5.0
	344	28%	80%				
	464	22%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	343	83%	78%	1			
	343	83%	78%	2	na	na	na
	236	100%	54%	3	na	na	na
	304	83%	70%	4	na	na	na
	368	67%	80%				
	502	33%	90%				
24 hours	237	70%	54%	1			
	223	80%	48%	2	0.5	0.0	9.7
	134	90%	15%	3	1.5	0.3	8.0
	304	40%	70%	4	2.0	0.5	9.1
	368	40%	80%				
	502	20%	90%				
48 hours	221	71%	47%	1			
	143	86%	20%	2	0.5	0.0	9.7
	128	100%	14%	3	0.5	0.0	9.7
	304	43%	70%	4	1.5	0.3	7.9
	368	43%	80%				
	502	14%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	221	70%	50%	1			
	201	81%	47%	2	2.0	0.7	5.7
	142	93%	17%	3	1.7	0.6	5.0
	284	48%	71%	4	4.8	2.1	11.2
	341	48%	80%				
	480	15%	90%				
24 hours	226	72%	52%	1			
	205	81%	48%	2	3.7	1.0	13.6
	184	91%	37%	3	4.9	1.4	16.8
	284	47%	71%	4	8.0	2.5	25.7
	341	41%	80%				
	480	28%	90%				
48 hours	226	75%	52%	1			
	209	81%	48%	2	1.0	0.1	7.4
	142	94%	17%	3	3.1	0.8	12.1
	284	50%	71%	4	3.1	0.8	12.1
	341	38%	80%				
	480	31%	90%				

Fig. 6 - 44

Tissue inhibitor of metalloproteinase 2

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	108182.165	109652.749	108182.165	104305.961	108182.165	104617.577
average	111994.414	112988.720	111994.414	110005.697	111994.414	115162.625
stdev	26296.681	26740.378	26296.681	34143.345	26296.681	33743.986
p (t-test)		0.874		0.716		0.648
min	1936.748	72282.274	1936.748	35539.194	1936.748	67378.553
max	179965.030	189045.463	179965.030	207083.195	179965.030	172165.058
n (Samp)	230	19	230	28	230	16
n (Pat)	158	19	158	28	158	16

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	108182.165	164727.734	108182.165	98973.852	108182.165	125925.775
average	111625.100	164727.734	111625.100	102238.831	111625.100	130535.847
stdev	27189.052	34390.462	27189.052	61125.224	27189.052	41670.097
p (t-test)		0.006		0.386		0.127
min	1936.748	140410.005	1936.748	1892.018	1936.748	91182.534
max	197537.458	189045.463	197537.458	207083.195	197537.458	188983.579
n (Samp)	295	2	295	7	295	5
n (Pat)	187	2	187	7	187	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	109195.271	109652.749	109195.271	109625.622	109195.271	110348.228
average	112534.167	116132.526	112534.167	110635.560	112534.167	117517.294
stdev	26081.524	35112.079	26081.524	33294.675	26081.524	34056.252
p (t-test)		0.579		0.736		0.500
min	1936.748	72282.274	1936.748	35539.194	1936.748	67378.553
max	179965.030	231513.529	179965.030	189045.463	179965.030	172165.058
n (Samp)	198	19	198	26	198	14
n (Pat)	132	19	132	26	132	14

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.50	0.069	230	19	0.989
24 hours	0.46	0.057	230	28	0.525
48 hours	0.50	0.075	230	16	0.960

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.93	0.129	295	2	0.001
24 hours	0.41	0.102	295	7	0.390
48 hours	0.63	0.135	295	5	0.329

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.49	0.069	198	19	0.927
24 hours	0.47	0.059	198	26	0.657
48 hours	0.53	0.081	198	14	0.701

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	99908.3	74%	34%	1			
	93484.9	84%	26%	2	1.0	0.4	2.4
	81511.4	95%	9%	3	1.2	0.6	2.7

Fig. 6 - 45

	124324	26%	70%	4	0.6	0.2	1.8
	132991	16%	80%				
	145286	11%	90%				
24 hours	89398.2	71%	21%	1			
	79303.9	82%	7%	2	0.6	0.3	1.2
	74702.4	93%	4%	3	0.7	0.4	1.4
	124324	32%	70%	4	1.2	0.7	2.0
	132991	25%	80%				
	145286	14%	90%				
48 hours	89398.2	75%	21%	1			
	87479.3	81%	17%	2	0.3	0.1	1.2
	79303.9	94%	7%	3	0.3	0.1	1.2
	124324	38%	70%	4	1.0	0.5	2.0
	132991	38%	80%				
	145286	31%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	139922	100%	85%	1			
	139922	100%	85%	2	na	na	na
	139922	100%	85%	3	na	na	na
	124938	100%	70%	4	na	na	na
	134700	100%	80%				
	148411	50%	90%				
24 hours	89533.2	71%	23%	1			
	84630.8	86%	15%	2	0.0	0.0	na
	0	100%	0%	3	1.0	0.1	7.5
	124938	29%	70%	4	1.5	0.3	8.3
	134700	14%	80%				
	148411	14%	90%				
48 hours	92760.6	80%	27%	1			
	92760.6	80%	27%	2	1.0	0.0	53.1
	90955	100%	25%	3	1.0	0.0	53.1
	124938	60%	70%	4	2.0	0.1	40.5
	134700	40%	80%				
	148411	40%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	99908.3	74%	32%	1			
	93484.9	84%	24%	2	1.0	0.4	2.4
	81511.4	95%	8%	3	1.0	0.4	2.4
	124324	26%	70%	4	0.8	0.3	2.1
	134700	16%	80%				
	148411	11%	90%				
24 hours	87479.3	73%	17%	1			
	79303.9	81%	7%	2	0.6	0.3	1.2
	74702.4	92%	4%	3	0.6	0.3	1.2
	124324	35%	70%	4	1.0	0.6	1.8
	134700	27%	80%				
	148411	12%	90%				
48 hours	89398.2	71%	20%	1			
	85864.4	86%	14%	2	0.2	0.0	2.1
	79303.9	93%	7%	3	0.4	0.1	1.6
	124324	43%	70%	4	1.2	0.6	2.7
	134700	43%	80%				
	148411	21%	90%				

Fig. 6 - 46

Tumor necrosis factor-alpha

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	7.480	8.075	7.480	9.915	7.480	9.805
average	13.194	10.634	13.194	13.273	13.194	17.533
stdev	39.858	8.132	39.858	14.058	39.858	18.876
p (t-test)		0.735		0.991		0.646
min	0.040	0.040	0.040	0.040	0.040	2.160
max	669.000	35.000	669.000	75.800	669.000	78.900
n (Samp)	434	28	434	36	434	18
n (Pat)	173	28	173	36	173	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	7.530	12.010	7.530	12.500	7.530	8.930
average	12.856	14.500	12.856	16.733	12.856	12.849
stdev	36.059	11.658	36.059	21.229	36.059	8.935
p (t-test)		0.911		0.735		1.000
min	0.040	3.330	0.040	0.829	0.040	2.160
max	669.000	35.500	669.000	75.800	669.000	23.700
n (Samp)	542	6	542	10	542	7
n (Pat)	208	6	208	10	208	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	7.480	7.550	7.480	9.765	7.480	10.210
average	13.354	10.435	13.354	11.838	13.354	17.905
stdev	41.358	8.049	41.358	9.463	41.358	19.785
p (t-test)		0.715		0.836		0.662
min	0.040	0.040	0.040	0.040	0.040	2.160
max	669.000	35.000	669.000	49.300	669.000	78.900
n (Samp)	356	27	356	32	356	16
n (Pat)	138	27	138	32	138	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.55	0.058	434	28	0.388
24 hours	0.60	0.052	434	36	0.057
48 hours	0.64	0.072	434	18	0.048

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.64	0.123	542	6	0.254
24 hours	0.64	0.095	542	10	0.130
48 hours	0.61	0.114	542	7	0.330

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.55	0.059	356	27	0.426
24 hours	0.60	0.055	356	32	0.079
48 hours	0.64	0.076	356	16	0.065

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	5.08	71%	36%	1			
	3.81	82%	24%	2	1.6	0.8	3.2
	2.97	93%	17%	3	1.2	0.6	2.6

Fig. 6 - 47

	11.4	36%	71%	4	1.9	1.0	3.5
	13.5	32%	80%				
	21.4	7%	90%				
24 hours	6.61	75%	47%	1			
	4.23	86%	28%	2	1.2	0.6	2.5
	3.1	92%	19%	3	2.6	1.4	4.6
	11.4	39%	71%	4	2.8	1.6	4.9
	13.5	36%	80%				
	21.4	11%	90%				
48 hours	7.91	72%	54%	1			
	4.87	83%	34%	2	0.7	0.1	3.5
	3.17	94%	19%	3	1.7	0.6	5.0
	11.4	44%	71%	4	2.8	1.1	7.1
	13.5	44%	80%				
	21.4	28%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	5.73	83%	40%	1			
	5.73	83%	40%	2	1.0	0.0	51.9
	3.26	100%	19%	3	1.0	0.0	51.9
	11.4	50%	70%	4	3.0	0.2	42.8
	14.1	50%	80%				
	21.3	17%	90%				
24 hours	7.95	70%	52%	1			
	7.67	80%	51%	2	1.0	0.0	51.9
	6.61	90%	45%	3	3.0	0.2	42.8
	11.4	50%	70%	4	5.2	0.5	55.7
	14.1	40%	80%				
	21.3	10%	90%				
48 hours	7.95	71%	52%	1			
	4.87	86%	33%	2	1.0	0.0	51.9
	2.07	100%	12%	3	2.0	0.1	39.2
	11.4	43%	70%	4	3.0	0.2	42.4
	14.1	43%	80%				
	21.3	29%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	5.52	70%	40%	1			
	4.23	81%	28%	2	2.4	1.1	5.0
	2.64	93%	17%	3	1.3	0.5	3.2
	11.4	33%	71%	4	2.4	1.1	5.0
	13.5	30%	81%				
	21.3	7%	90%				
24 hours	6.61	72%	47%	1			
	4.23	88%	28%	2	1.5	0.6	3.6
	3.26	91%	20%	3	3.0	1.5	6.1
	11.4	38%	71%	4	3.0	1.5	6.1
	13.5	34%	81%				
	21.3	9%	90%				
48 hours	6.61	75%	47%	1			
	4.87	81%	35%	2	0.7	0.1	3.5
	3.17	94%	19%	3	1.3	0.4	4.4
	11.4	44%	71%	4	2.4	0.9	6.5
	13.5	44%	81%				
	21.3	25%	90%				

Fig. 6 - 48

Vascular endothelial growth factor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	957.000	1125.000	957.000	1060.000	957.000	1004.500
average	1148.935	1764.286	1148.935	1830.639	1148.935	1362.222
stdev	885.128	1765.240	885.128	1796.119	885.128	850.515
p (t-test)		0.001		0.000		0.316
min	353.000	369.000	353.000	387.000	353.000	338.000
max	11500.000	8250.000	11500.000	9620.000	11500.000	3580.000
n (Samp)	434	28	434	36	434	18
n (Pat)	173	28	173	36	173	18

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	974.000	1715.000	974.000	1212.000	974.000	2530.000
average	1261.585	2872.667	1261.585	2429.600	1261.585	2501.286
stdev	1340.352	2461.806	1340.352	2586.759	1340.352	1768.124
p (t-test)		0.004		0.008		0.016
min	338.000	806.000	338.000	599.000	338.000	734.000
max	16200.000	7240.000	16200.000	8830.000	16200.000	5870.000
n (Samp)	542	6	542	10	542	7
n (Pat)	208	6	208	10	208	7

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	963.500	1110.000	963.500	1075.000	963.500	1004.500
average	1169.059	1725.333	1169.059	1939.469	1169.059	1318.500
stdev	933.550	1742.580	933.550	1939.431	933.550	801.135
p (t-test)		0.006		0.000		0.529
min	392.000	369.000	392.000	387.000	392.000	338.000
max	11500.000	8250.000	11500.000	9620.000	11500.000	3580.000
n (Samp)	356	27	356	32	356	16
n (Pat)	138	27	138	32	138	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.62	0.058	434	28	0.032
24 hours	0.63	0.052	434	36	0.014
48 hours	0.58	0.072	434	18	0.243

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.79	0.110	542	6	0.007
24 hours	0.59	0.096	542	10	0.341
48 hours	0.75	0.107	542	7	0.019

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.62	0.059	356	27	0.047
24 hours	0.65	0.055	356	32	0.006
48 hours	0.57	0.076	356	16	0.349

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	939	71%	48%	1			
	803	82%	35%	2	2.0	0.7	5.6
	609	93%	15%	3	2.8	1.1	7.1

Fig. 6 - 49

	1210	39%	70%	4	3.9	1.6	9.3
	1440	36%	80%				
	1780	25%	90%				
24 hours	910	72%	45%	1			
	828	81%	37%	2	1.6	0.8	3.2
	703	92%	24%	3	2.1	1.1	3.9
	1210	42%	70%	4	2.8	1.6	4.9
	1440	36%	80%				
	1780	25%	90%				
48 hours	822	72%	36%	1			
	730	89%	28%	2	3.7	1.0	13.4
	657	94%	19%	3	1.0	0.1	7.4
	1210	44%	70%	4	3.7	1.0	13.4
	1440	39%	80%				
	1780	22%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1430	83%	77%	1			
	1430	83%	77%	2	na	na	na
	803	100%	32%	3	na	na	na
	1250	83%	70%	4	na	na	na
	1490	50%	80%				
	1820	50%	90%				
24 hours	749	70%	28%	1			
	712	80%	23%	2	0.7	0.1	3.5
	703	90%	22%	3	0.0	0.0	na
	1250	50%	70%	4	1.7	0.6	5.0
	1490	50%	80%				
	1820	40%	90%				
48 hours	1530	71%	81%	1			
	814	86%	33%	2	na	na	na
	730	100%	26%	3	na	na	na
	1250	71%	70%	4	na	na	na
	1490	71%	80%				
	1820	57%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	978	70%	52%	1			
	847	81%	37%	2	1.0	0.4	2.8
	607	93%	14%	3	2.4	1.1	5.0
	1220	37%	71%	4	2.6	1.3	5.5
	1450	37%	80%				
	1800	22%	91%				
24 hours	958	72%	50%	1			
	910	81%	44%	2	2.4	0.9	6.5
	825	91%	36%	3	3.6	1.5	8.8
	1220	44%	71%	4	4.4	1.9	10.5
	1450	34%	80%				
	1800	25%	91%				
48 hours	822	75%	36%	1			
	730	81%	28%	2	1.7	0.6	5.1
	657	94%	18%	3	0.7	0.1	3.5
	1220	44%	71%	4	2.1	0.7	5.8
	1450	38%	80%				
	1800	25%	91%				

Fig. 6 - 50

EN-RAGE

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	27.697	32.831	27.697	32.831	27.697	32.831
average	44.947	52.066	44.947	52.066	44.947	52.066
stdev	56.067	71.549	56.067	71.549	56.067	71.549
p (t-test)		0.687		0.687		0.687
min	1.616	2.110	1.616	2.110	1.616	2.110
max	382.303	295.699	382.303	295.699	382.303	295.699
n (Samp)	51	15	51	15	51	15
n (Pat)	51	15	51	15	51	15

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	26.387	45.706	26.387	45.706	26.387	45.706
average	44.601	45.706	44.601	45.706	44.601	45.706
stdev	56.804	2.469	56.804	2.469	56.804	2.469
p (t-test)		0.979		0.979		0.979
min	2.110	43.960	2.110	43.960	2.110	43.960
max	257.339	47.452	257.339	47.452	257.339	47.452
n (Samp)	19	2	19	2	19	2
n (Pat)	19	2	19	2	19	2

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	25.340	59.492	25.340	59.492	25.340	59.492
average	45.880	65.878	45.880	65.878	45.880	65.878
stdev	62.833	74.618	62.833	74.618	62.833	74.618
p (t-test)		0.348		0.348		0.348
min	1.616	3.818	1.616	3.818	1.616	3.818
max	382.303	295.699	382.303	295.699	382.303	295.699
n (Samp)	39	13	39	13	39	13
n (Pat)	39	13	39	13	39	13

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.49	0.085	51	15	0.933
24 hours	0.49	0.085	51	15	0.933
48 hours	0.49	0.085	51	15	0.933

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.74	0.212	19	2	0.265
24 hours	0.74	0.212	19	2	0.265
48 hours	0.74	0.212	19	2	0.265

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.62	0.094	39	13	0.191
24 hours	0.62	0.094	39	13	0.191
48 hours	0.62	0.094	39	13	0.191

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	19.1976	73%	29%	1			
	14.1057	80%	16%	2	0.6	0.1	2.2
	2.11037	93%	2%	3	0.5	0.1	2.0
	50.1062	40%	71%	4	0.8	0.2	2.7

Fig. 7 - 1

	61.8752	20%	80%				
	82.5914	7%	90%				
24 hours	19.1976	73%	29%	1			
	14.1057	80%	16%	2	0.6	0.1	2.2
	2.11037	93%	2%	3	0.5	0.1	2.0
	50.1062	40%	71%	4	0.8	0.2	2.7
	61.8752	20%	80%				
	82.5914	7%	90%				
48 hours	19.1976	73%	29%	1			
	14.1057	80%	16%	2	0.6	0.1	2.2
	2.11037	93%	2%	3	0.5	0.1	2.0
	50.1062	40%	71%	4	0.8	0.2	2.7
	61.8752	20%	80%				
	82.5914	7%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	19.6509	77%	38%	1			
	19.1976	85%	36%	2	1.0	0.1	10.1
	13.849	92%	18%	3	3.4	0.6	20.7
	56.0902	54%	74%	4	2.4	0.4	15.8
	61.8752	31%	82%				
	85.7632	15%	92%				
24 hours	19.6509	77%	38%	1			
	19.1976	85%	36%	2	1.0	0.1	10.1
	13.849	92%	18%	3	3.4	0.6	20.7
	56.0902	54%	74%	4	2.4	0.4	15.8
	61.8752	31%	82%				
	85.7632	15%	92%				
48 hours	19.6509	77%	38%	1			
	19.1976	85%	36%	2	1.0	0.1	10.1
	13.849	92%	18%	3	3.4	0.6	20.7
	56.0902	54%	74%	4	2.4	0.4	15.8
	61.8752	31%	82%				
	85.7632	15%	92%				

Fig. 7 - 2

Eotaxin

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	64.800	46.500	64.800	46.500	64.800	46.500
average	94.277	59.130	94.277	59.130	94.277	59.130
stdev	167.602	51.227	167.602	51.227	167.602	51.227
p (t-test)		0.350		0.350		0.350
min	0.410	0.410	0.410	0.410	0.410	0.410
max	1240.000	200.000	1240.000	200.000	1240.000	200.000
n (Samp)	56	21	56	21	56	21
n (Pat)	56	21	56	21	56	21

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	60.900	161.000	60.900	161.000	60.900	161.000
average	69.543	142.000	69.543	142.000	69.543	142.000
stdev	33.990	62.183	33.990	62.183	33.990	62.183
p (t-test)		0.001		0.001		0.001
min	25.100	74.400	25.100	74.400	25.100	74.400
max	147.000	200.000	147.000	200.000	147.000	200.000
n (Samp)	21	5	21	5	21	5
n (Pat)	21	5	21	5	21	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	66.000	45.600	66.000	45.600	66.000	45.600
average	103.018	45.685	103.018	45.685	103.018	45.685
stdev	183.972	34.312	183.972	34.312	183.972	34.312
p (t-test)		0.209		0.209		0.209
min	0.410	0.410	0.410	0.410	0.410	0.410
max	1240.000	109.000	1240.000	109.000	1240.000	109.000
n (Samp)	46	17	46	17	46	17
n (Pat)	46	17	46	17	46	17

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.41	0.071	56	21	0.210
24 hours	0.41	0.071	56	21	0.210
48 hours	0.41	0.071	56	21	0.210

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.86	0.112	21	5	0.001
24 hours	0.86	0.112	21	5	0.001
48 hours	0.86	0.112	21	5	0.001

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.34	0.073	46	17	0.027
24 hours	0.34	0.073	46	17	0.027
48 hours	0.34	0.073	46	17	0.027

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	30.2	71%	20%	1			
	15.6	81%	9%	2	1.4	0.5	4.5

Fig. 7 - 3

	0	100%	0%	3	1.8	0.6	5.5
	81.9	24%	71%	4	1.8	0.6	5.5
	101	19%	80%				
	129	10%	91%				
24 hours	30.2	71%	20%	1			
	15.6	81%	9%	2	1.4	0.5	4.5
	0	100%	0%	3	1.8	0.6	5.5
	81.9	24%	71%	4	1.8	0.6	5.5
	101	19%	80%				
	129	10%	91%				
48 hours	30.2	71%	20%	1			
	15.6	81%	9%	2	1.4	0.5	4.5
	0	100%	0%	3	1.8	0.6	5.5
	81.9	24%	71%	4	1.8	0.6	5.5
	101	19%	80%				
	129	10%	91%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	25.1	71%	17%	1			
	0	100%	0%	2	1.6	0.2	11.1
	0	100%	0%	3	4.2	0.8	21.7
	94.1	12%	72%	4	4.7	0.9	24.7
	104	6%	83%				
	154	0%	91%				
24 hours	25.1	71%	17%	1			
	0	100%	0%	2	1.6	0.2	11.1
	0	100%	0%	3	4.2	0.8	21.7
	94.1	12%	72%	4	4.7	0.9	24.7
	104	6%	83%				
	154	0%	91%				
48 hours	25.1	71%	17%	1			
	0	100%	0%	2	1.6	0.2	11.1
	0	100%	0%	3	4.2	0.8	21.7
	94.1	12%	72%	4	4.7	0.9	24.7
	104	6%	83%				
	154	0%	91%				

Fig. 7 - 4

Hepatocyte growth factor receptor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	255026.455	221074.380	255026.455	221074.380	255026.455	221074.380
average	277098.766	216283.545	277098.766	216283.545	277098.766	216283.545
stdev	95004.283	59884.354	95004.283	59884.354	95004.283	59884.354
p (t-test)		0.100		0.100		0.100
min	136397.059	106092.437	136397.059	106092.437	136397.059	106092.437
max	490272.374	302892.562	490272.374	302892.562	490272.374	302892.562
n (Samp)	15	9	15	9	15	9
n (Pat)	15	9	15	9	15	9

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	256354.434	356371.808	256354.434	356371.808	256354.434	356371.808
average	266320.510	356371.808	266320.510	356371.808	266320.510	356371.808
stdev	24029.573	136537.342	24029.573	136537.342	24029.573	136537.342
p (t-test)		0.219		0.219		0.219
min	250826.446	259825.328	250826.446	259825.328	250826.446	259825.328
max	301746.725	452918.288	301746.725	452918.288	301746.725	452918.288
n (Samp)	4	2	4	2	4	2
n (Pat)	4	2	4	2	4	2

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	256232.236	212809.917	256232.236	212809.917	256232.236	212809.917
average	281826.033	210726.013	281826.033	210726.013	281826.033	210726.013
stdev	99662.999	61487.842	99662.999	61487.842	99662.999	61487.842
p (t-test)		0.084		0.084		0.084
min	136397.059	106092.437	136397.059	106092.437	136397.059	106092.437
max	490272.374	302892.562	490272.374	302892.562	490272.374	302892.562
n (Samp)	14	8	14	8	14	8
n (Pat)	14	8	14	8	14	8

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.33	0.112	15	9	0.119
24 hours	0.33	0.112	15	9	0.119
48 hours	0.33	0.112	15	9	0.119

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.75	0.241	4	2	0.300
24 hours	0.75	0.241	4	2	0.300
48 hours	0.75	0.241	4	2	0.300

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.28	0.110	14	8	0.042
24 hours	0.28	0.110	14	8	0.042
48 hours	0.28	0.110	14	8	0.042

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	163235	78%	7%	1			

Fig. 7 - 5

	136397	89%	7%	2	2.5	0.1	114.2
	0	100%	0%	3	5.0	0.1	194.0
	284656	11%	73%	4	5.0	0.1	194.0
	301747	11%	80%				
	440083	0%	93%				
24 hours	163235	78%	7%	1			
	136397	89%	7%	2	2.5	0.1	114.2
	0	100%	0%	3	5.0	0.1	194.0
	284656	11%	73%	4	5.0	0.1	194.0
	301747	11%	80%				
	440083	0%	93%				
48 hours	163235	78%	7%	1			
	136397	89%	7%	2	2.5	0.1	114.2
	0	100%	0%	3	5.0	0.1	194.0
	284656	11%	73%	4	5.0	0.1	194.0
	301747	11%	80%				
	440083	0%	93%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	163235	75%	7%	1			
	136397	88%	7%	2	1.3	0.0	152.2
	0	100%	0%	3	5.0	0.1	194.0
	284656	13%	71%	4	7.5	0.1	403.5
	379894	0%	86%				
	440083	0%	93%				
24 hours	163235	75%	7%	1			
	136397	88%	7%	2	1.3	0.0	152.2
	0	100%	0%	3	5.0	0.1	194.0
	284656	13%	71%	4	7.5	0.1	403.5
	379894	0%	86%				
	440083	0%	93%				
48 hours	163235	75%	7%	1			
	136397	88%	7%	2	1.3	0.0	152.2
	0	100%	0%	3	5.0	0.1	194.0
	284656	13%	71%	4	7.5	0.1	403.5
	379894	0%	86%				
	440083	0%	93%				

Fig. 7 - 6

Interleukin-1 beta

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.015	0.015	0.015	0.015	0.015	0.015
average	1.355	0.220	1.355	0.220	1.355	0.220
stdev	8.504	0.444	8.504	0.444	8.504	0.444
p (t-test)		0.544		0.544		0.544
min	0.015	0.015	0.015	0.015	0.015	0.015
max	63.800	1.360	63.800	1.360	63.800	1.360
n (Samp)	56	21	56	21	56	21
n (Pat)	56	21	56	21	56	21

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.015	0.598	0.015	0.598	0.015	0.598
average	0.148	0.681	0.148	0.681	0.148	0.681
stdev	0.353	0.690	0.353	0.690	0.353	0.690
p (t-test)		0.019		0.019		0.019
min	0.015	0.015	0.015	0.015	0.015	0.015
max	1.360	1.420	1.360	1.420	1.360	1.420
n (Samp)	21	5	21	5	21	5
n (Pat)	21	5	21	5	21	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.015	0.015	0.015	0.015	0.015	0.015
average	1.615	0.189	1.615	0.189	1.615	0.189
stdev	9.380	0.396	9.380	0.396	9.380	0.396
p (t-test)		0.535		0.535		0.535
min	0.015	0.015	0.015	0.015	0.015	0.015
max	63.800	1.180	63.800	1.180	63.800	1.180
n (Samp)	46	17	46	17	46	17
n (Pat)	46	17	46	17	46	17

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.47	0.073	56	21	0.668
24 hours	0.47	0.073	56	21	0.668
48 hours	0.47	0.073	56	21	0.668

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.74	0.138	21	5	0.084
24 hours	0.74	0.138	21	5	0.084
48 hours	0.74	0.138	21	5	0.084

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.45	0.081	46	17	0.521
24 hours	0.45	0.081	46	17	0.521
48 hours	0.45	0.081	46	17	0.521

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			

Fig. 7 - 7

	0	100%	0%	2	0.0	0.0	na
	0	100%	0%	3	8.7	2.9	25.8
	0.0146	19%	71%	4	1.1	0.3	3.7
	0.711	19%	80%				
	0.866	14%	91%				
24 hours	0	100%	0%	1			
	0	100%	0%	2	0.0	0.0	na
	0	100%	0%	3	8.7	2.9	25.8
	0.0146	19%	71%	4	1.1	0.3	3.7
	0.711	19%	80%				
	0.866	14%	91%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	0.0	0.0	na
	0	100%	0%	3	8.7	2.9	25.8
	0.0146	19%	71%	4	1.1	0.3	3.7
	0.711	19%	80%				
	0.866	14%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	0.8	0.0	86.2
	0	100%	0%	3	0.0	0.0	na
	0.0146	60%	86%	4	3.8	0.1	123.6
	0.0146	60%	86%				
	0.711	40%	90%				
24 hours	0	100%	0%	1			
	0	100%	0%	2	0.8	0.0	86.2
	0	100%	0%	3	0.0	0.0	na
	0.0146	60%	86%	4	3.8	0.1	123.6
	0.0146	60%	86%				
	0.711	40%	90%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	0.8	0.0	86.2
	0	100%	0%	3	0.0	0.0	na
	0.0146	60%	86%	4	3.8	0.1	123.6
	0.0146	60%	86%				
	0.711	40%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	0.0	0.0	na
	0	100%	0%	3	9.5	2.4	37.7
	0.391	18%	72%	4	1.1	0.2	5.5
	0.773	12%	87%				
	1.03	12%	91%				
24 hours	0	100%	0%	1			
	0	100%	0%	2	0.0	0.0	na
	0	100%	0%	3	9.5	2.4	37.7
	0.391	18%	72%	4	1.1	0.2	5.5
	0.773	12%	87%				
	1.03	12%	91%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	0.0	0.0	na
	0	100%	0%	3	9.5	2.4	37.7
	0.391	18%	72%	4	1.1	0.2	5.5
	0.773	12%	87%				
	1.03	12%	91%				

Fig. 7 - 8

Interleukin-10

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	15.700	23.400	15.700	23.400	15.700	23.400
average	260.477	43.302	260.477	43.302	260.477	43.302
stdev	1788.020	48.908	1788.020	48.908	1788.020	48.908
p (t-test)		0.581		0.581		0.581
min	0.154	6.370	0.154	6.370	0.154	6.370
max	13400.000	182.000	13400.000	182.000	13400.000	182.000
n (Samp)	56	21	56	21	56	21
n (Pat)	56	21	56	21	56	21

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	15.700	15.600	15.700	15.600	15.700	15.600
average	28.166	51.256	28.166	51.256	28.166	51.256
stdev	46.628	64.215	46.628	64.215	46.628	64.215
p (t-test)		0.363		0.363		0.363
min	0.154	4.880	0.154	4.880	0.154	4.880
max	222.000	159.000	222.000	159.000	222.000	159.000
n (Samp)	21	5	21	5	21	5
n (Pat)	21	5	21	5	21	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	16.050	23.400	16.050	23.400	16.050	23.400
average	309.114	41.697	309.114	41.697	309.114	41.697
stdev	1973.081	44.703	1973.081	44.703	1973.081	44.703
p (t-test)		0.580		0.580		0.580
min	0.154	6.370	0.154	6.370	0.154	6.370
max	13400.000	182.000	13400.000	182.000	13400.000	182.000
n (Samp)	46	17	46	17	46	17
n (Pat)	46	17	46	17	46	17

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.63	0.074	56	21	0.072
24 hours	0.63	0.074	56	21	0.072
48 hours	0.63	0.074	56	21	0.072

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.58	0.149	21	5	0.586
24 hours	0.58	0.149	21	5	0.586
48 hours	0.58	0.149	21	5	0.586

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.66	0.081	46	17	0.051
24 hours	0.66	0.081	46	17	0.051
48 hours	0.66	0.081	46	17	0.051

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	13.6	71%	45%	1			

Fig. 7 - 9

	9.84	81%	29%	2	0.7	0.2	2.8
	6.37	90%	18%	3	1.7	0.6	5.2
	24	43%	71%	4	2.5	0.9	7.0
	31.3	38%	80%				
	36.1	38%	91%				
24 hours	13.6	71%	45%	1			
	9.84	81%	29%	2	0.7	0.2	2.8
	6.37	90%	18%	3	1.7	0.6	5.2
	24	43%	71%	4	2.5	0.9	7.0
	31.3	38%	80%				
	36.1	38%	91%				
48 hours	13.6	71%	45%	1			
	9.84	81%	29%	2	0.7	0.2	2.8
	6.37	90%	18%	3	1.7	0.6	5.2
	24	43%	71%	4	2.5	0.9	7.0
	31.3	38%	80%				
	36.1	38%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	13.7	80%	48%	1			
	13.7	80%	48%	2	2.0	0.0	82.9
	0.154	100%	10%	3	0.0	0.0	na
	24	40%	76%	4	2.0	0.0	82.9
	30.8	40%	81%				
	37.8	40%	90%				
24 hours	13.7	80%	48%	1			
	13.7	80%	48%	2	2.0	0.0	82.9
	0.154	100%	10%	3	0.0	0.0	na
	24	40%	76%	4	2.0	0.0	82.9
	30.8	40%	81%				
	37.8	40%	90%				
48 hours	13.7	80%	48%	1			
	13.7	80%	48%	2	2.0	0.0	82.9
	0.154	100%	10%	3	0.0	0.0	na
	24	40%	76%	4	2.0	0.0	82.9
	30.8	40%	81%				
	37.8	40%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	18	71%	59%	1			
	7.37	82%	22%	2	0.2	0.0	2.9
	6.18	100%	17%	3	1.3	0.4	4.3
	23.1	59%	72%	4	2.1	0.7	6.9
	31.9	41%	80%				
	36.1	41%	91%				
24 hours	18	71%	59%	1			
	7.37	82%	22%	2	0.2	0.0	2.9
	6.18	100%	17%	3	1.3	0.4	4.3
	23.1	59%	72%	4	2.1	0.7	6.9
	31.9	41%	80%				
	36.1	41%	91%				
48 hours	18	71%	59%	1			
	7.37	82%	22%	2	0.2	0.0	2.9
	6.18	100%	17%	3	1.3	0.4	4.3
	23.1	59%	72%	4	2.1	0.7	6.9
	31.9	41%	80%				
	36.1	41%	91%				

Fig. 7 - 10

Nidogen-1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	345779.221	481331.169	345779.221	481331.169	345779.221	481331.169
average	428166.624	488104.520	428166.624	488104.520	428166.624	488104.520
stdev	345939.448	279488.075	345939.448	279488.075	345939.448	279488.075
p (t-test)		0.664		0.664		0.664
min	69653.614	12348.790	69653.614	12348.790	69653.614	12348.790
max	1050724.638	959401.709	1050724.638	959401.709	1050724.638	959401.709
n (Samp)	12	10	12	10	12	10
n (Pat)	12	10	12	10	12	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	401785.714	219734.106	401785.714	219734.106	401785.714	219734.106
average	386095.752	219734.106	386095.752	219734.106	386095.752	219734.106
stdev	73510.998	196366.032	73510.998	196366.032	73510.998	196366.032
p (t-test)		0.251		0.251		0.251
min	306006.494	80882.353	306006.494	80882.353	306006.494	80882.353
max	450495.050	358585.859	450495.050	358585.859	450495.050	358585.859
n (Samp)	3	2	3	2	3	2
n (Pat)	3	2	3	2	3	2

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	289772.727	481331.169	289772.727	481331.169	289772.727	481331.169
average	426136.767	508337.634	426136.767	508337.634	426136.767	508337.634
stdev	362749.396	288569.349	362749.396	288569.349	362749.396	288569.349
p (t-test)		0.588		0.588		0.588
min	69653.614	12348.790	69653.614	12348.790	69653.614	12348.790
max	1050724.638	959401.709	1050724.638	959401.709	1050724.638	959401.709
n (Samp)	11	9	11	9	11	9
n (Pat)	11	9	11	9	11	9

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.58	0.125	12	10	0.505
24 hours	0.58	0.125	12	10	0.505
48 hours	0.58	0.125	12	10	0.505

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.17	0.201	3	2	0.097
24 hours	0.17	0.201	3	2	0.097
48 hours	0.17	0.201	3	2	0.097

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.59	0.131	11	9	0.513
24 hours	0.59	0.131	11	9	0.513
48 hours	0.59	0.131	11	9	0.513

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	306006	70%	50%	1			
	289773	80%	50%	2	4.0	0.1	171.2

Fig. 7 - 11

	176772	90%	42%	3	16.0	0.1	2148.6
	698718	20%	75%	4	2.0	0.0	100.8
	759375	20%	83%				
	908120	10%	92%				
24 hours	306006	70%	50%	1			
	289773	80%	50%	2	4.0	0.1	171.2
	176772	90%	42%	3	16.0	0.1	2148.6
	698718	20%	75%	4	2.0	0.0	100.8
	759375	20%	83%				
	908120	10%	92%				
48 hours	306006	70%	50%	1			
	289773	80%	50%	2	4.0	0.1	171.2
	176772	90%	42%	3	16.0	0.1	2148.6
	698718	20%	75%	4	2.0	0.0	100.8
	759375	20%	83%				
	908120	10%	92%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	289773	78%	55%	1			
	176772	89%	45%	2	2.7	0.0	158.2
	0	100%	0%	3	16.0	0.1	2148.6
	698718	22%	73%	4	2.7	0.0	158.2
	759375	22%	82%				
	908120	11%	91%				
24 hours	289773	78%	55%	1			
	176772	89%	45%	2	2.7	0.0	158.2
	0	100%	0%	3	16.0	0.1	2148.6
	698718	22%	73%	4	2.7	0.0	158.2
	759375	22%	82%				
	908120	11%	91%				
48 hours	289773	78%	55%	1			
	176772	89%	45%	2	2.7	0.0	158.2
	0	100%	0%	3	16.0	0.1	2148.6
	698718	22%	73%	4	2.7	0.0	158.2
	759375	22%	82%				
	908120	11%	91%				

Fig. 7 - 12

Oxidized low-density lipoprotein receptor 1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.368	0.514	0.368	0.514	0.368	0.514
average	0.465	0.706	0.465	0.706	0.465	0.706
stdev	0.271	0.692	0.271	0.692	0.271	0.692
p (t-test)		0.040		0.040		0.040
min	0.121	0.121	0.121	0.121	0.121	0.121
max	1.282	3.215	1.282	3.215	1.282	3.215
n (Samp)	52	17	52	17	52	17
n (Pat)	52	17	52	17	52	17

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.440	1.069	0.440	1.069	0.440	1.069
average	0.511	1.069	0.511	1.069	0.511	1.069
stdev	0.288	0.156	0.288	0.156	0.288	0.156
p (t-test)		0.016		0.016		0.016
min	0.198	0.959	0.198	0.959	0.198	0.959
max	1.194	1.179	1.194	1.179	1.194	1.179
n (Samp)	19	2	19	2	19	2
n (Pat)	19	2	19	2	19	2

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.356	0.502	0.356	0.502	0.356	0.502
average	0.454	0.758	0.454	0.758	0.454	0.758
stdev	0.279	0.787	0.279	0.787	0.279	0.787
p (t-test)		0.037		0.037		0.037
min	0.121	0.121	0.121	0.121	0.121	0.121
max	1.282	3.215	1.282	3.215	1.282	3.215
n (Samp)	41	14	41	14	41	14
n (Pat)	41	14	41	14	41	14

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.66	0.080	52	17	0.040
24 hours	0.66	0.080	52	17	0.040
48 hours	0.66	0.080	52	17	0.040

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.92	0.136	19	2	0.002
24 hours	0.92	0.136	19	2	0.002
48 hours	0.92	0.136	19	2	0.002

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.69	0.087	41	14	0.033
24 hours	0.69	0.087	41	14	0.033
48 hours	0.69	0.087	41	14	0.033

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.44038	71%	67%	1			

Fig. 7 - 13

	0.34212	82%	40%	2	3.4	0.2	60.8
	0.33021	94%	40%	3	11.2	0.9	144.7
	0.50872	53%	71%	4	8.0	0.6	104.8
	0.64703	29%	81%				
	0.8854	12%	90%				
24 hours	0.44038	71%	67%	1			
	0.34212	82%	40%	2	3.4	0.2	60.8
	0.33021	94%	40%	3	11.2	0.9	144.7
	0.50872	53%	71%	4	8.0	0.6	104.8
	0.64703	29%	81%				
	0.8854	12%	90%				
48 hours	0.44038	71%	67%	1			
	0.34212	82%	40%	2	3.4	0.2	60.8
	0.33021	94%	40%	3	11.2	0.9	144.7
	0.50872	53%	71%	4	8.0	0.6	104.8
	0.64703	29%	81%				
	0.8854	12%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.44038	71%	73%	1			
	0.33021	93%	41%	2	2.0	0.1	52.4
	0.33021	93%	41%	3	12.0	0.8	175.6
	0.42395	71%	71%	4	4.8	0.3	79.7
	0.64703	29%	80%				
	0.8854	14%	90%				
24 hours	0.44038	71%	73%	1			
	0.33021	93%	41%	2	2.0	0.1	52.4
	0.33021	93%	41%	3	12.0	0.8	175.6
	0.42395	71%	71%	4	4.8	0.3	79.7
	0.64703	29%	80%				
	0.8854	14%	90%				
48 hours	0.44038	71%	73%	1			
	0.33021	93%	41%	2	2.0	0.1	52.4
	0.33021	93%	41%	3	12.0	0.8	175.6
	0.42395	71%	71%	4	4.8	0.3	79.7
	0.64703	29%	80%				
	0.8854	14%	90%				

Fig. 7 - 14

P-selectin glycoprotein ligand 1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	311.269	239.327	311.269	239.327	311.269	239.327
average	318.895	252.903	318.895	252.903	318.895	252.903
stdev	123.002	97.315	123.002	97.315	123.002	97.315
p (t-test)		0.038		0.038		0.038
min	70.652	96.193	70.652	96.193	70.652	96.193
max	853.893	524.267	853.893	524.267	853.893	524.267
n (Samp)	53	19	53	19	53	19
n (Pat)	53	19	53	19	53	19

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	269.837	261.702	269.837	261.702	269.837	261.702
average	316.369	274.337	316.369	274.337	316.369	274.337
stdev	161.856	86.093	161.856	86.093	161.856	86.093
p (t-test)		0.624		0.624		0.624
min	70.652	194.647	70.652	194.647	70.652	194.647
max	853.893	379.297	853.893	379.297	853.893	379.297
n (Samp)	18	4	18	4	18	4
n (Pat)	18	4	18	4	18	4

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	311.586	241.675	311.586	241.675	311.586	241.675
average	312.904	248.031	312.904	248.031	312.904	248.031
stdev	95.178	101.417	95.178	101.417	95.178	101.417
p (t-test)		0.025		0.025		0.025
min	162.557	96.193	162.557	96.193	162.557	96.193
max	654.702	524.267	654.702	524.267	654.702	524.267
n (Samp)	44	16	44	16	44	16
n (Pat)	44	16	44	16	44	16

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.31	0.066	53	19	0.003
24 hours	0.31	0.066	53	19	0.003
48 hours	0.31	0.066	53	19	0.003

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.40	0.153	18	4	0.525
24 hours	0.40	0.153	18	4	0.525
48 hours	0.40	0.153	18	4	0.525

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.29	0.070	44	16	0.003
24 hours	0.29	0.070	44	16	0.003
48 hours	0.29	0.070	44	16	0.003

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	212.916	74%	17%	1			

Fig. 7 - 15

	188.395	84%	11%	2	0.3	0.0	5.1
	96.1934	95%	2%	3	2.5	0.7	8.9
	346.99	16%	72%	4	5.0	1.5	16.9
	386.761	5%	81%				
	430.758	5%	91%				
24 hours	212.916	74%	17%	1			
	188.395	84%	11%	2	0.3	0.0	5.1
	96.1934	95%	2%	3	2.5	0.7	8.9
	346.99	16%	72%	4	5.0	1.5	16.9
	386.761	5%	81%				
	430.758	5%	91%				
48 hours	212.916	74%	17%	1			
	188.395	84%	11%	2	0.3	0.0	5.1
	96.1934	95%	2%	3	2.5	0.7	8.9
	346.99	16%	72%	4	5.0	1.5	16.9
	386.761	5%	81%				
	430.758	5%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	194.647	75%	11%	1			
	139.124	100%	11%	2	1.3	0.0	152.2
	139.124	100%	11%	3	0.0	0.0	na
	358.862	25%	72%	4	3.3	0.1	179.3
	371.516	25%	83%				
	430.758	0%	94%				
24 hours	194.647	75%	11%	1			
	139.124	100%	11%	2	1.3	0.0	152.2
	139.124	100%	11%	3	0.0	0.0	na
	358.862	25%	72%	4	3.3	0.1	179.3
	371.516	25%	83%				
	430.758	0%	94%				
48 hours	194.647	75%	11%	1			
	139.124	100%	11%	2	1.3	0.0	152.2
	139.124	100%	11%	3	0.0	0.0	na
	358.862	25%	72%	4	3.3	0.1	179.3
	371.516	25%	83%				
	430.758	0%	94%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	191.148	75%	11%	1			
	188.395	81%	9%	2	0.5	0.0	11.7
	96.1934	94%	0%	3	4.3	0.8	23.1
	334.792	13%	70%	4	5.7	1.1	29.8
	386.761	6%	82%				
	420.825	6%	91%				
24 hours	191.148	75%	11%	1			
	188.395	81%	9%	2	0.5	0.0	11.7
	96.1934	94%	0%	3	4.3	0.8	23.1
	334.792	13%	70%	4	5.7	1.1	29.8
	386.761	6%	82%				
	420.825	6%	91%				
48 hours	191.148	75%	11%	1			
	188.395	81%	9%	2	0.5	0.0	11.7
	96.1934	94%	0%	3	4.3	0.8	23.1
	334.792	13%	70%	4	5.7	1.1	29.8
	386.761	6%	82%				
	420.825	6%	91%				

Fig. 7 - 16

Stem cell factor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	343.500	266.000	343.500	266.000	343.500	266.000
average	469.107	308.143	469.107	308.143	469.107	308.143
stdev	749.057	127.739	749.057	127.739	749.057	127.739
p (t-test)		0.332		0.332		0.332
min	127.000	150.000	127.000	150.000	127.000	150.000
max	5840.000	553.000	5840.000	553.000	5840.000	553.000
n (Samp)	56	21	56	21	56	21
n (Pat)	56	21	56	21	56	21

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	307.000	613.000	307.000	613.000	307.000	613.000
average	344.143	486.600	344.143	486.600	344.143	486.600
stdev	127.539	272.120	127.539	272.120	127.539	272.120
p (t-test)		0.088		0.088		0.088
min	170.000	174.000	170.000	174.000	170.000	174.000
max	575.000	769.000	575.000	769.000	575.000	769.000
n (Samp)	21	5	21	5	21	5
n (Pat)	21	5	21	5	21	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	363.500	305.000	363.500	305.000	363.500	305.000
average	505.435	301.824	505.435	301.824	505.435	301.824
stdev	822.057	115.063	822.057	115.063	822.057	115.063
p (t-test)		0.315		0.315		0.315
min	127.000	150.000	127.000	150.000	127.000	150.000
max	5840.000	553.000	5840.000	553.000	5840.000	553.000
n (Samp)	46	17	46	17	46	17
n (Pat)	46	17	46	17	46	17

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.38	0.069	56	21	0.080
24 hours	0.38	0.069	56	21	0.080
48 hours	0.38	0.069	56	21	0.080

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.65	0.147	21	5	0.314
24 hours	0.65	0.147	21	5	0.314
48 hours	0.65	0.147	21	5	0.314

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.34	0.074	46	17	0.035
24 hours	0.34	0.074	46	17	0.035
48 hours	0.34	0.074	46	17	0.035

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	214	76%	18%	1			

Fig. 7 - 17

	198	81%	13%	2	1.4	0.5	4.5
	173	90%	9%	3	1.1	0.3	3.7
	442	19%	71%	4	2.9	1.0	8.2
	517	10%	80%				
	608	0%	91%				
24 hours	214	76%	18%	1			
	198	81%	13%	2	1.4	0.5	4.5
	173	90%	9%	3	1.1	0.3	3.7
	442	19%	71%	4	2.9	1.0	8.2
	517	10%	80%				
	608	0%	91%				
48 hours	214	76%	18%	1			
	198	81%	13%	2	1.4	0.5	4.5
	173	90%	9%	3	1.1	0.3	3.7
	442	19%	71%	4	2.9	1.0	8.2
	517	10%	80%				
	608	0%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	216	80%	19%	1			
	216	80%	19%	2	0.0	0.0	na
	170	100%	5%	3	0.0	0.0	na
	377	60%	71%	4	1.5	0.1	20.5
	523	60%	81%				
	534	60%	90%				
24 hours	216	80%	19%	1			
	216	80%	19%	2	0.0	0.0	na
	170	100%	5%	3	0.0	0.0	na
	377	60%	71%	4	1.5	0.1	20.5
	523	60%	81%				
	534	60%	90%				
48 hours	216	80%	19%	1			
	216	80%	19%	2	0.0	0.0	na
	170	100%	5%	3	0.0	0.0	na
	377	60%	71%	4	1.5	0.1	20.5
	523	60%	81%				
	534	60%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	216	71%	17%	1			
	198	82%	13%	2	1.6	0.2	11.1
	159	94%	7%	3	4.2	0.8	21.7
	489	12%	72%	4	4.7	0.9	24.7
	517	6%	80%				
	644	0%	91%				
24 hours	216	71%	17%	1			
	198	82%	13%	2	1.6	0.2	11.1
	159	94%	7%	3	4.2	0.8	21.7
	489	12%	72%	4	4.7	0.9	24.7
	517	6%	80%				
	644	0%	91%				
48 hours	216	71%	17%	1			
	198	82%	13%	2	1.6	0.2	11.1
	159	94%	7%	3	4.2	0.8	21.7
	489	12%	72%	4	4.7	0.9	24.7
	517	6%	80%				
	644	0%	91%				

Fig. 7 - 18

Aspartate aminotransferase, cytoplasmic

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	19.450	24.300	19.450	24.000	19.450	25.250
average	21.115	23.444	21.115	21.786	21.115	24.216
stdev	28.506	7.721	28.506	9.104	28.506	9.516
p (t-test)		0.739		0.924		0.734
min	2.080	3.650	2.080	3.650	2.080	3.560
max	251.000	41.100	251.000	41.100	251.000	41.100
n (Samp)	112	17	112	17	112	10
n (Pat)	112	17	112	17	112	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	19.950	24.400	19.950	24.400	19.950	24.000
average	19.983	25.513	19.983	25.475	19.983	26.320
stdev	23.449	7.455	23.449	7.486	23.449	9.022
p (t-test)		0.508		0.510		0.548
min	2.040	18.700	2.040	18.700	2.040	18.700
max	251.000	41.100	251.000	41.100	251.000	41.100
n (Samp)	180	8	180	8	180	5
n (Pat)	180	8	180	8	180	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	20.400	25.000	20.400	24.300	20.400	25.500
average	22.702	23.859	22.702	21.325	22.702	25.094
stdev	31.428	9.232	31.428	11.053	31.428	11.158
p (t-test)		0.904		0.886		0.842
min	1.890	3.650	1.890	3.650	1.890	3.560
max	251.000	41.100	251.000	41.100	251.000	41.100
n (Samp)	89	11	89	11	89	7
n (Pat)	89	11	89	11	89	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.66	0.076	112	17	0.034
24 hours	0.62	0.077	112	17	0.126
48 hours	0.69	0.096	112	10	0.051

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.68	0.107	180	8	0.090
24 hours	0.68	0.107	180	8	0.092
48 hours	0.68	0.134	180	5	0.175

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.66	0.094	89	11	0.091
24 hours	0.59	0.095	89	11	0.325
48 hours	0.71	0.113	89	7	0.066

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	20.7	71%	57%	1			
	18.9	82%	49%	2	3.2	0.2	49.9
	14.6	94%	33%	3	8.7	0.8	93.9
	24.3	47%	71%	4	6.9	0.6	77.7

Fig. 8 - 1

	27.1	29%	80%				
	29.2	12%	90%				
24 hours	18.9	71%	49%	1			
	14.7	82%	33%	2	5.7	0.5	69.1
	4.51	94%	28%	3	7.2	0.6	80.9
	24.3	41%	71%	4	5.5	0.5	66.4
	27.1	29%	80%				
	29.2	12%	90%				
48 hours	23.5	70%	66%	1			
	19.6	80%	54%	2	1.0	0.0	55.6
	18.6	90%	47%	3	4.5	0.3	59.6
	24.3	60%	71%	4	4.3	0.3	57.3
	27.1	40%	80%				
	29.2	20%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	22.8	73%	65%	1			
	20.7	82%	53%	2	2.1	0.1	46.6
	14.4	91%	30%	3	4.6	0.3	63.1
	24.7	55%	72%	4	4.6	0.3	63.1
	27.8	18%	82%				
	30.2	9%	92%				
24 hours	14.7	73%	30%	1			
	14.4	82%	30%	2	1.0	0.1	8.4
	4.51	91%	26%	3	2.2	0.4	11.4
	24.7	45%	72%	4	1.6	0.3	9.6
	27.8	18%	82%				
	30.2	9%	92%				
48 hours	24.7	71%	72%	1			
	23.5	86%	66%	2	0.0	0.0	na
	3.47	100%	19%	3	3.3	0.2	53.6
	24.7	71%	72%	4	3.3	0.2	53.6
	27.8	29%	82%				
	30.2	14%	92%				

Fig. 8 - 2

CD40

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.750	5.060	1.750	3.190	1.750	2.380
average	2.390	5.809	2.390	5.000	2.390	2.823
stdev	2.988	6.010	2.988	6.158	2.988	1.317
p (t-test)		0.000		0.005		0.651
min	0.547	1.680	0.547	1.640	0.547	1.560
max	28.000	28.100	28.000	28.100	28.000	5.280
n (Samp)	112	17	112	17	112	10
n (Pat)	112	17	112	17	112	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.775	4.745	1.775	2.995	1.775	2.380
average	2.360	7.061	2.360	6.371	2.360	3.170
stdev	2.579	8.652	2.579	8.933	2.579	1.807
p (t-test)		0.000		0.000		0.487
min	0.547	1.680	0.547	1.640	0.547	1.560
max	28.000	28.100	28.000	28.100	28.000	5.280
n (Samp)	180	8	180	8	180	5
n (Pat)	180	8	180	8	180	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1.710	5.430	1.710	4.910	1.710	2.910
average	2.003	4.881	2.003	4.132	2.003	3.230
stdev	1.218	1.799	1.218	1.622	1.218	1.376
p (t-test)		0.000		0.000		0.013
min	0.547	1.900	0.547	1.690	0.547	1.690
max	6.610	6.720	6.610	6.050	6.610	5.280
n (Samp)	89	11	89	11	89	7
n (Pat)	89	11	89	11	89	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.85	0.061	112	17	0.000
24 hours	0.78	0.068	112	17	0.000
48 hours	0.68	0.096	112	10	0.055

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.83	0.091	180	8	0.000
24 hours	0.76	0.100	180	8	0.008
48 hours	0.69	0.133	180	5	0.147

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.90	0.062	89	11	0.000
24 hours	0.85	0.074	89	11	0.000
48 hours	0.77	0.107	89	7	0.011

CD40 Ligand

sCr or UO

0 hr prior to AKI stage	24 hr prior to AKI stage	48 hr prior to AKI stage

Fig. 8 - 3

	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.413	0.470	0.413	0.470	0.413	0.396
average	0.599	0.515	0.599	0.467	0.599	0.491
stdev	0.612	0.319	0.612	0.275	0.612	0.275
p (t-test)		0.583		0.385		0.581
min	0.019	0.069	0.019	0.051	0.019	0.191
max	4.030	1.070	4.030	1.070	4.030	1.070
n (Samp)	112	17	112	17	112	10
n (Pat)	112	17	112	17	112	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.415	0.488	0.415	0.488	0.415	0.505
average	0.599	0.595	0.599	0.571	0.599	0.649
stdev	0.582	0.395	0.582	0.378	0.582	0.289
p (t-test)		0.985		0.893		0.851
min	0.019	0.069	0.019	0.052	0.019	0.351
max	4.030	1.070	4.030	1.070	4.030	1.070
n (Samp)	180	8	180	8	180	5
n (Pat)	180	8	180	8	180	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.413	0.480	0.413	0.480	0.413	0.364
average	0.613	0.507	0.613	0.450	0.613	0.382
stdev	0.654	0.281	0.654	0.220	0.654	0.151
p (t-test)		0.595		0.414		0.354
min	0.019	0.105	0.019	0.051	0.019	0.191
max	4.030	1.070	4.030	0.895	4.030	0.624
n (Samp)	89	11	89	11	89	7
n (Pat)	89	11	89	11	89	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.52	0.076	112	17	0.838
24 hours	0.49	0.075	112	17	0.841
48 hours	0.52	0.096	112	10	0.860

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.55	0.107	180	8	0.647
24 hours	0.54	0.107	180	8	0.703
48 hours	0.64	0.136	180	5	0.300

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.53	0.094	89	11	0.773
24 hours	0.49	0.092	89	11	0.872
48 hours	0.43	0.108	89	7	0.544

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.338	71%	46%	1			
	0.237	82%	25%	2	1.0	0.2	4.2
	0.0976	94%	12%	3	2.7	0.9	8.0
	0.75	24%	71%	4	1.3	0.4	4.8
	0.83	24%	80%				
	1.1	0%	90%				
24 hours	0.338	71%	46%	1			
	0.237	82%	25%	2	2.8	1.0	8.2

Fig. 8 - 4

	0.0511	94%	1%	3	1.4	0.4	5.1
	0.75	18%	71%	4	1.0	0.2	4.4
	0.83	12%	80%				
	1.1	0%	90%				
48 hours	0.338	70%	46%	1			
	0.324	80%	43%	2	1.5	0.3	8.8
	0.226	90%	24%	3	1.6	0.3	9.2
	0.75	20%	71%	4	1.0	0.1	7.9
	0.83	10%	80%				
	1.1	0%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.338	75%	46%	1			
	0.237	88%	28%	2	2.0	0.1	42.2
	0.0652	100%	3%	3	2.0	0.1	42.2
	0.75	38%	70%	4	3.1	0.2	46.7
	0.905	38%	80%				
	1.16	0%	90%				
24 hours	0.338	75%	46%	1			
	0.237	88%	28%	2	2.0	0.1	42.2
	0.0246	100%	1%	3	2.0	0.1	42.2
	0.75	38%	70%	4	3.1	0.2	46.7
	0.905	25%	80%				
	1.16	0%	90%				
48 hours	0.489	80%	56%	1			
	0.489	80%	56%	2	na	na	na
	0.338	100%	46%	3	na	na	na
	0.75	40%	70%	4	na	na	na
	0.905	20%	80%				
	1.16	0%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.416	73%	52%	1			
	0.324	82%	43%	2	1.0	0.1	8.4
	0.185	91%	19%	3	2.9	0.6	13.6
	0.745	18%	71%	4	1.0	0.1	8.4
	0.83	18%	81%				
	1.16	0%	91%				
24 hours	0.365	73%	48%	1			
	0.324	82%	43%	2	7.6	0.6	89.7
	0.185	91%	19%	3	2.1	0.1	46.6
	0.745	9%	71%	4	2.1	0.1	46.6
	0.83	9%	81%				
	1.16	0%	91%				
48 hours	0.324	71%	43%	1			
	0.226	86%	22%	2	na	na	na
	0.185	100%	19%	3	na	na	na
	0.745	0%	71%	4	na	na	na
	0.83	0%	81%				
	1.16	0%	91%				

Fig. 8 - 5

CXCL16 (C-X-C Motif chemokine 16)

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	4.204	9.386	4.204	7.655	4.204	6.930
average	6.123	10.502	6.123	9.300	6.123	6.998
stdev	6.518	5.685	6.518	6.512	6.518	2.863
p (t-test)		0.012		0.089		0.676
min	1.960	4.866	1.960	3.894	1.960	3.894
max	45.787	29.157	45.787	29.157	45.787	11.674
n (Samp)	107	16	107	14	107	10
n (Pat)	107	16	107	14	107	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	4.447	9.635	4.447	7.701	4.447	7.701
average	5.871	11.760	5.871	11.752	5.871	7.885
stdev	5.374	7.519	5.374	8.215	5.374	2.380
p (t-test)		0.003		0.006		0.405
min	1.960	4.866	1.960	4.866	1.960	4.866
max	45.787	29.157	45.787	29.157	45.787	11.545
n (Samp)	172	8	172	7	172	5
n (Pat)	172	8	172	7	172	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	4.271	8.693	4.271	7.701	4.271	6.252
average	5.179	9.495	5.179	7.658	5.179	6.566
stdev	2.843	3.016	2.843	3.508	2.843	2.796
p (t-test)		0.000		0.017		0.218
min	1.960	5.778	1.960	3.894	1.960	3.894
max	18.483	14.552	18.483	14.552	18.483	11.674
n (Samp)	86	10	86	9	86	7
n (Pat)	86	10	86	9	86	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.85	0.062	107	16	0.000
24 hours	0.77	0.077	107	14	0.000
48 hours	0.71	0.095	107	10	0.029

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.87	0.082	172	8	0.000
24 hours	0.85	0.093	172	7	0.000
48 hours	0.80	0.121	172	5	0.014

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.88	0.072	86	10	0.000
24 hours	0.75	0.097	86	9	0.010
48 hours	0.68	0.115	86	7	0.113

Fig. 8 - 6

EN-RAGE

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	30.036	79.526	30.036	77.235	30.036	66.341
average	60.145	167.525	60.145	172.587	60.145	85.477
stdev	82.268	276.376	82.268	288.035	82.268	74.741
p (t-test)		0.003		0.003		0.401
min	0.000	18.073	0.000	18.073	0.000	18.073
max	582.406	1063.972	582.406	1063.972	582.406	260.355
n (Samp)	99	13	99	12	99	8
n (Pat)	99	13	99	12	99	8

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	33.225	88.783	33.225	81.864	33.225	74.945
average	61.700	275.688	61.700	317.915	61.700	69.229
stdev	79.092	441.263	79.092	497.724	79.092	22.952
p (t-test)		0.000		0.000		0.870
min	0.000	43.960	0.000	43.960	0.000	43.960
max	582.406	1063.972	582.406	1063.972	582.406	88.783
n (Samp)	160	5	160	4	160	3
n (Pat)	160	5	160	4	160	3

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	31.753	71.210	31.753	71.210	31.753	65.208
average	52.602	91.829	52.602	91.829	52.602	85.004
stdev	56.882	71.336	56.882	71.336	56.882	80.717
p (t-test)		0.048		0.048		0.165
min	0.000	18.073	0.000	18.073	0.000	18.073
max	328.866	260.355	328.866	260.355	328.866	260.355
n (Samp)	84	10	84	10	84	7
n (Pat)	84	10	84	10	84	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.77	0.080	99	13	0.001
24 hours	0.76	0.083	99	12	0.002
48 hours	0.71	0.106	99	8	0.051

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.81	0.119	160	5	0.011
24 hours	0.80	0.135	160	4	0.028
48 hours	0.73	0.168	160	3	0.172

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.75	0.093	84	10	0.008
24 hours	0.75	0.093	84	10	0.008
48 hours	0.70	0.114	84	7	0.075

Fig. 8 - 7

Eotaxin

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	69.800	92.000	69.800	92.000	69.800	104.400
average	90.773	142.906	90.773	133.976	90.773	148.700
stdev	76.700	95.471	76.700	101.333	76.700	122.092
p (t-test)		0.013		0.041		0.032
min	0.410	47.500	0.410	27.400	0.410	27.400
max	441.000	424.000	441.000	424.000	441.000	424.000
n (Samp)	112	17	112	17	112	10
n (Pat)	112	17	112	17	112	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	74.250	140.500	74.250	123.500	74.250	131.000
average	98.645	138.763	98.645	132.000	98.645	122.860
stdev	112.726	61.558	112.726	66.143	112.726	84.249
p (t-test)		0.319		0.408		0.635
min	0.410	47.500	0.410	27.400	0.410	27.400
max	1240.000	212.000	1240.000	212.000	1240.000	212.000
n (Samp)	180	8	180	8	180	5
n (Pat)	180	8	180	8	180	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	67.700	88.400	67.700	77.800	67.700	77.800
average	91.580	145.727	91.580	136.845	91.580	159.514
stdev	79.355	111.879	79.355	118.218	79.355	138.025
p (t-test)		0.045		0.096		0.043
min	0.410	58.000	0.410	44.000	0.410	58.000
max	441.000	424.000	441.000	424.000	441.000	424.000
n (Samp)	89	11	89	11	89	7
n (Pat)	89	11	89	11	89	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.71	0.074	112	17	0.004
24 hours	0.65	0.076	112	17	0.054
48 hours	0.65	0.098	112	10	0.117

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.73	0.103	180	8	0.027
24 hours	0.70	0.106	180	8	0.062
48 hours	0.60	0.136	180	5	0.474

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.69	0.092	89	11	0.037
24 hours	0.63	0.095	89	11	0.180
48 hours	0.67	0.116	89	7	0.132

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	81.9	71%	63%	1			
	73.7	82%	54%	2	na	na	na
	57.7	94%	43%	3	na	na	na
	99.9	47%	71%	4	na	na	na

Fig. 8 - 8

	129	47%	80%				
	189	35%	90%				
24 hours	64.9	71%	46%	1			
	57.7	82%	43%	2	5.7	0.5	69.1
	42.9	94%	25%	3	4.4	0.3	58.6
	99.9	47%	71%	4	8.3	0.8	90.1
	129	41%	80%				
	189	35%	90%				
48 hours	60	70%	44%	1			
	58	80%	43%	2	3.1	0.2	48.6
	57.7	90%	43%	3	1.0	0.0	57.7
	99.9	50%	71%	4	5.6	0.5	67.6
	129	50%	80%				
	189	40%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	86.2	75%	61%	1			
	84.7	88%	60%	2	na	na	na
	46.5	100%	27%	3	na	na	na
	104	63%	70%	4	na	na	na
	135	50%	80%				
	200	13%	91%				
24 hours	86.2	75%	61%	1			
	84.7	88%	60%	2	0.0	0.0	na
	25.1	100%	10%	3	3.1	0.2	46.7
	104	63%	70%	4	4.3	0.3	54.2
	135	38%	80%				
	200	13%	91%				
48 hours	46.5	80%	27%	1			
	46.5	80%	27%	2	1.0	0.0	55.0
	25.1	100%	10%	3	0.0	0.0	na
	104	60%	70%	4	3.1	0.2	45.7
	135	40%	80%				
	200	20%	91%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	77.6	73%	56%	1			
	73.7	82%	54%	2	na	na	na
	64.9	91%	49%	3	na	na	na
	105	36%	71%	4	na	na	na
	135	36%	81%				
	189	36%	91%				
24 hours	60	73%	45%	1			
	57.1	82%	44%	2	4.6	0.3	63.1
	46.5	91%	31%	3	2.1	0.1	46.6
	105	36%	71%	4	4.6	0.3	63.1
	135	36%	81%				
	189	36%	91%				
48 hours	60	71%	45%	1			
	58	86%	44%	2	na	na	na
	57.1	100%	44%	3	na	na	na
	105	43%	71%	4	na	na	na
	135	43%	81%				
	189	43%	91%				

Fig. 8 - 9

E-selectin

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	8.873	12.704	8.873	12.704	8.873	12.704
average	9.498	14.159	9.498	14.159	9.498	14.035
stdev	4.517	6.138	4.517	6.138	4.517	3.633
p (t-test)		0.043		0.043		0.068
min	3.422	5.790	3.422	5.790	3.422	11.364
max	18.492	23.028	18.492	23.028	18.492	19.365
n (Samp)	25	6	25	6	25	4
n (Pat)	25	6	25	6	25	4

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	8.883	19.365	8.883	19.365	8.883	16.288
average	11.438	18.535	11.438	18.535	11.438	16.288
stdev	9.229	4.961	9.229	4.961	9.229	4.352
p (t-test)		0.197		0.197		0.467
min	3.333	13.211	3.333	13.211	3.333	13.211
max	46.625	23.028	46.625	23.028	46.625	19.365
n (Samp)	44	3	44	3	44	2
n (Pat)	44	3	44	3	44	2

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	7.624	11.781	7.624	11.781	7.624	12.197
average	8.954	10.641	8.954	10.641	8.954	12.258
stdev	4.077	3.321	4.077	3.321	4.077	0.925
p (t-test)		0.440		0.440		0.180
min	3.422	5.790	3.422	5.790	3.422	11.364
max	18.141	13.211	18.141	13.211	18.141	13.211
n (Samp)	25	4	25	4	25	3
n (Pat)	25	4	25	4	25	3

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.75	0.124	25	6	0.047
24 hours	0.75	0.124	25	6	0.047
48 hours	0.80	0.140	25	4	0.032

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.89	0.128	44	3	0.003
24 hours	0.89	0.128	44	3	0.003
48 hours	0.86	0.168	44	2	0.030

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.67	0.159	25	4	0.284
24 hours	0.67	0.159	25	4	0.284
48 hours	0.80	0.160	25	3	0.061

Fig. 8 - 10

Fibronectin

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	259659.017	228489.505	259659.017	228489.505	259659.017	228489.505
average	274233.986	245585.834	274233.986	245585.834	274233.986	244070.377
stdev	98685.929	106449.149	98685.929	106449.149	98685.929	96225.453
p (t-test)		0.534		0.534		0.574
min	56713.581	128509.435	56713.581	128509.435	56713.581	143884.103
max	467390.708	375418.393	467390.708	375418.393	467390.708	375418.393
n (Samp)	25	6	25	6	25	4
n (Pat)	25	6	25	6	25	4

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	238632.730	227286.327	238632.730	227286.327	238632.730	228489.505
average	258426.244	195162.815	258426.244	195162.815	258426.244	228489.505
stdev	118927.680	57736.059	118927.680	57736.059	118927.680	1701.552
p (t-test)		0.369		0.369		0.726
min	56713.581	128509.435	56713.581	128509.435	56713.581	227286.327
max	620512.175	229692.684	620512.175	229692.684	620512.175	229692.684
n (Samp)	44	3	44	3	44	2
n (Pat)	44	3	44	3	44	2

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	259659.017	299208.374	259659.017	299208.374	259659.017	229692.684
average	268317.413	279429.811	268317.413	279429.811	268317.413	249665.060
stdev	91213.373	112596.170	91213.373	112596.170	91213.373	117052.141
p (t-test)		0.828		0.828		0.747
min	56713.581	143884.103	56713.581	143884.103	56713.581	143884.103
max	413982.406	375418.393	413982.406	375418.393	413982.406	375418.393
n (Samp)	25	4	25	4	25	3
n (Pat)	25	4	25	4	25	3

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.41	0.126	25	6	0.493
24 hours	0.41	0.126	25	6	0.493
48 hours	0.39	0.145	25	4	0.449

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.34	0.147	44	3	0.280
24 hours	0.34	0.147	44	3	0.280
48 hours	0.44	0.202	44	2	0.779

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.55	0.161	25	4	0.779
24 hours	0.55	0.161	25	4	0.779
48 hours	0.43	0.171	25	3	0.697

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	128509	83%	8%	1			
	128509	83%	8%	2	0.0	0.0	na
	126889	100%	8%	3	1.0	0.1	13.6
	326303	33%	72%	4	1.2	0.1	17.5

Fig. 8 - 11

	355014	33%	80%				
	406971	0%	92%				
24 hours	128509	83%	8%	1			
	128509	83%	8%	2	0.0	0.0	na
	126889	100%	8%	3	1.0	0.1	13.6
	326303	33%	72%	4	1.2	0.1	17.5
	355014	33%	80%				
	406971	0%	92%				
48 hours	222232	75%	32%	1			
	126889	100%	8%	2	0.0	0.0	na
	126889	100%	8%	3	2.8	0.1	103.7
	326303	25%	72%	4	1.2	0.0	107.9
	355014	25%	80%				
	406971	0%	92%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	222232	75%	32%	1			
	126889	100%	8%	2	1.0	0.0	96.9
	126889	100%	8%	3	0.0	0.0	na
	311697	50%	72%	4	2.0	0.1	72.7
	351984	50%	80%				
	398685	0%	92%				
24 hours	222232	75%	32%	1			
	126889	100%	8%	2	1.0	0.0	96.9
	126889	100%	8%	3	0.0	0.0	na
	311697	50%	72%	4	2.0	0.1	72.7
	351984	50%	80%				
	398685	0%	92%				
48 hours	126889	100%	8%	1			
	126889	100%	8%	2	0.0	0.0	na
	126889	100%	8%	3	1.0	0.0	96.9
	311697	33%	72%	4	1.0	0.0	96.9
	351984	33%	80%				
	398685	0%	92%				

Fig. 8 - 12

Granulocyte colony-stimulating factor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	30.700	68.100	30.700	68.100	30.700	71.100
average	102.874	596.553	102.874	595.424	102.874	166.950
stdev	392.646	1533.660	392.646	1534.090	392.646	222.456
p (t-test)		0.005		0.005		0.613
min	0.050	16.000	0.050	16.000	0.050	16.000
max	3280.000	6280.000	3280.000	6280.000	3280.000	640.000
n (Samp)	112	17	112	17	112	10
n (Pat)	112	17	112	17	112	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	32.850	95.100	32.850	95.100	32.850	83.200
average	261.537	1077.963	261.537	1077.963	261.537	434.480
stdev	1198.176	2193.701	1198.176	2193.701	1198.176	803.809
p (t-test)		0.072		0.072		0.749
min	0.050	31.100	0.050	31.100	0.050	31.100
max	11103.000	6280.000	11103.000	6280.000	11103.000	1870.000
n (Samp)	180	8	180	8	180	5
n (Pat)	180	8	180	8	180	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	30.900	59.000	30.900	59.000	30.900	59.000
average	166.522	311.618	166.522	309.873	166.522	201.029
stdev	675.173	559.618	675.173	560.525	675.173	261.860
p (t-test)		0.496		0.501		0.894
min	0.050	16.000	0.050	16.000	0.050	16.000
max	4970.000	1870.000	4970.000	1870.000	4970.000	640.000
n (Samp)	89	11	89	11	89	7
n (Pat)	89	11	89	11	89	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.75	0.071	112	17	0.000
24 hours	0.74	0.072	112	17	0.001
48 hours	0.73	0.094	112	10	0.017

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.76	0.100	180	8	0.008
24 hours	0.76	0.100	180	8	0.008
48 hours	0.72	0.131	180	5	0.087

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.71	0.091	89	11	0.021
24 hours	0.69	0.092	89	11	0.035
48 hours	0.71	0.113	89	7	0.065

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	58	71%	73%	1			

Fig. 8 - 13

	39.2	82%	64%	2	2.1	0.1	44.5
	22.5	94%	38%	3	7.2	0.6	80.9
	55.9	71%	71%	4	9.9	0.9	103.7
	91	35%	80%				
	122	29%	90%				
24 hours	42.7	71%	65%	1			
	39.2	82%	64%	2	2.1	0.1	44.5
	20	94%	30%	3	7.2	0.6	80.9
	55.9	65%	71%	4	9.9	0.9	103.7
	91	35%	80%				
	122	29%	90%				
48 hours	40.1	70%	64%	1			
	39.2	80%	64%	2	1.0	0.0	55.6
	30.9	90%	52%	3	3.2	0.2	50.6
	55.9	60%	71%	4	5.6	0.5	67.6
	91	30%	80%				
	122	30%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	42.7	73%	66%	1			
	39.2	82%	65%	2	1.0	0.0	59.3
	22.5	91%	34%	3	4.6	0.3	63.1
	51.1	64%	71%	4	6.0	0.5	75.4
	98	27%	81%				
	113	27%	91%				
24 hours	40.1	73%	65%	1			
	39.2	82%	65%	2	0.0	0.0	na
	18.2	91%	25%	3	2.2	0.4	11.4
	51.1	55%	71%	4	2.9	0.6	13.6
	98	27%	81%				
	113	27%	91%				
48 hours	40.1	71%	65%	1			
	39.2	86%	65%	2	0.0	0.0	na
	15.1	100%	19%	3	3.3	0.2	53.6
	51.1	57%	71%	4	3.3	0.2	53.6
	98	29%	81%				
	113	29%	91%				

Fig. 8 - 14

Granulocyte-macrophage colony-stimulating factor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.574	12.100	0.574	12.100	0.574	8.195
average	7.905	15.605	7.905	13.934	7.905	12.688
stdev	26.882	15.694	26.882	13.509	26.882	16.912
p (t-test)		0.253		0.367		0.582
min	0.574	0.574	0.574	0.574	0.574	0.574
max	277.000	58.600	277.000	58.600	277.000	58.600
n (Samp)	112	17	112	17	112	10
n (Pat)	112	17	112	17	112	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.574	13.005	0.574	11.355	0.574	6.770
average	8.154	11.229	8.154	10.816	8.154	6.946
stdev	23.367	8.099	23.367	7.855	23.367	7.069
p (t-test)		0.712		0.749		0.908
min	0.574	0.574	0.574	0.574	0.574	0.574
max	277.000	21.500	277.000	21.500	277.000	17.600
n (Samp)	180	8	180	8	180	5
n (Pat)	180	8	180	8	180	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.574	12.100	0.574	12.100	0.574	9.270
average	8.585	17.603	8.585	15.321	8.585	15.761
stdev	29.898	18.746	29.898	16.066	29.898	19.639
p (t-test)		0.332		0.466		0.535
min	0.574	0.574	0.574	0.574	0.574	0.574
max	277.000	58.600	277.000	58.600	277.000	58.600
n (Samp)	89	11	89	11	89	7
n (Pat)	89	11	89	11	89	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.76	0.071	112	17	0.000
24 hours	0.75	0.071	112	17	0.000
48 hours	0.69	0.096	112	10	0.053

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.69	0.106	180	8	0.069
24 hours	0.69	0.106	180	8	0.074
48 hours	0.56	0.135	180	5	0.648

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.75	0.088	89	11	0.004
24 hours	0.75	0.088	89	11	0.005
48 hours	0.73	0.111	89	7	0.037

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	7.94	71%	80%	1			

Fig. 8 - 15

	4.69	82%	59%	2	2.1	0.1	44.5
	0	100%	0%	3	3.2	0.2	49.9
	7.23	71%	71%	4	15.5	1.6	153.1
	7.94	71%	80%				
	16	41%	90%				
24 hours	7.94	71%	80%	1			
	4.69	82%	59%	2	2.1	0.1	44.5
	0	100%	0%	3	3.2	0.2	49.9
	7.23	71%	71%	4	15.5	1.6	153.1
	7.94	71%	80%				
	16	35%	90%				
48 hours	5.75	70%	64%	1			
	4.69	80%	59%	2	1.0	0.0	55.6
	0	100%	0%	3	3.2	0.2	50.6
	7.23	50%	71%	4	5.6	0.5	67.6
	7.94	50%	80%				
	16	20%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	7.94	73%	79%	1			
	4.69	82%	60%	2	1.0	0.0	59.3
	0	100%	0%	3	2.1	0.1	46.6
	7.18	73%	71%	4	9.3	0.8	106.1
	11.1	55%	81%				
	17.1	36%	91%				
24 hours	7.94	73%	79%	1			
	4.69	82%	60%	2	1.0	0.0	59.3
	0	100%	0%	3	2.1	0.1	46.6
	7.18	73%	71%	4	9.3	0.8	106.1
	11.1	55%	81%				
	17.1	36%	91%				
48 hours	6.77	71%	69%	1			
	4.69	86%	60%	2	na	na	na
	0	100%	0%	3	na	na	na
	7.18	57%	71%	4	na	na	na
	11.1	43%	81%				
	17.1	29%	91%				

Fig. 8 - 16

Heparin-binding growth factor 2

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	133.000	338.000	133.000	276.000	133.000	238.500
average	170.456	851.494	170.456	799.965	170.456	1082.420
stdev	215.350	2223.789	215.350	2235.439	215.350	2696.238
p (t-test)		0.002		0.004		0.000
min	0.980	61.200	0.980	61.200	0.980	61.200
max	1280.000	9460.000	1280.000	9460.000	1280.000	8750.000
n (Samp)	112	17	112	17	112	10
n (Pat)	112	17	112	17	112	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	141.000	271.000	141.000	223.000	141.000	276.000
average	201.326	251.425	201.326	207.175	201.326	241.840
stdev	281.124	138.039	281.124	115.569	281.124	121.646
p (t-test)		0.617		0.953		0.749
min	0.980	61.200	0.980	61.200	0.980	61.200
max	2520.000	425.000	2520.000	386.000	2520.000	386.000
n (Samp)	180	8	180	8	180	5
n (Pat)	180	8	180	8	180	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	133.000	386.000	133.000	291.000	133.000	276.000
average	183.333	1194.636	183.333	1147.182	183.333	1470.286
stdev	225.030	2744.912	225.030	2759.612	225.030	3211.789
p (t-test)		0.001		0.001		0.000
min	0.980	122.000	0.980	122.000	0.980	122.000
max	1280.000	9460.000	1280.000	9460.000	1280.000	8750.000
n (Samp)	89	11	89	11	89	7
n (Pat)	89	11	89	11	89	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.79	0.068	112	17	0.000
24 hours	0.73	0.073	112	17	0.001
48 hours	0.71	0.095	112	10	0.028

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.67	0.107	180	8	0.104
24 hours	0.60	0.108	180	8	0.337
48 hours	0.67	0.135	180	5	0.213

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.85	0.075	89	11	0.000
24 hours	0.80	0.082	89	11	0.000
48 hours	0.74	0.111	89	7	0.030

Fig. 8 - 17

Interleukin-1 receptor antagonist

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	336.500	890.000	336.500	890.000	336.500	575.000
average	1430.265	4470.118	1430.265	4252.706	1430.265	1154.600
stdev	4910.670	10092.217	4910.670	10073.901	4910.670	1521.549
p (t-test)		0.047		0.065		0.860
min	0.150	175.000	0.150	175.000	0.150	175.000
max	43939.000	42500.000	43939.000	42500.000	43939.000	5080.000
n (Samp)	112	17	112	17	112	10
n (Pat)	112	17	112	17	112	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	333.500	2150.000	333.500	1870.000	333.500	358.000
average	1712.439	7290.500	1712.439	7215.500	1712.439	1190.800
stdev	6255.629	14424.603	6255.629	14455.167	6255.629	1423.932
p (t-test)		0.023		0.025		0.853
min	0.150	175.000	0.150	175.000	0.150	175.000
max	58400.000	42500.000	58400.000	42500.000	58400.000	3420.000
n (Samp)	180	8	180	8	180	5
n (Pat)	180	8	180	8	180	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	320.000	792.000	320.000	792.000	320.000	792.000
average	1327.284	1949.636	1327.284	1668.182	1327.284	1338.571
stdev	4920.488	2401.170	4920.488	1822.974	4920.488	1743.981
p (t-test)		0.681		0.821		0.995
min	0.150	200.000	0.150	191.000	0.150	200.000
max	43939.000	7500.000	43939.000	5080.000	43939.000	5080.000
n (Samp)	89	11	89	11	89	7
n (Pat)	89	11	89	11	89	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.71	0.074	112	17	0.005
24 hours	0.69	0.075	112	17	0.011
48 hours	0.59	0.098	112	10	0.355

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.71	0.105	180	8	0.042
24 hours	0.70	0.105	180	8	0.055
48 hours	0.56	0.135	180	5	0.671

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.72	0.091	89	11	0.015
24 hours	0.70	0.092	89	11	0.033
48 hours	0.66	0.116	89	7	0.169

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	356	71%	53%	1			
	267	82%	38%	2	4.4	0.3	58.6
	185	94%	29%	3	3.2	0.2	49.9

Fig. 8 - 18

	687	65%	71%	4	11.6	1.1	118.6
	845	53%	80%				
	2350	35%	90%				
24 hours	356	71%	53%	1			
	191	82%	29%	2	1.6	0.3	9.1
	177	94%	26%	3	1.6	0.3	9.1
	687	65%	71%	4	5.6	1.5	21.6
	845	53%	80%				
	2350	29%	90%				
48 hours	210	70%	29%	1			
	185	80%	29%	2	3.1	0.2	48.6
	177	90%	26%	3	1.0	0.0	57.7
	687	50%	71%	4	5.6	0.5	67.6
	845	40%	80%				
	2350	10%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	356	75%	54%	1			
	211	88%	31%	2	1.0	0.0	54.9
	172	100%	22%	3	1.0	0.0	54.9
	643	63%	70%	4	5.5	0.5	62.9
	905	63%	80%				
	2350	50%	90%				
24 hours	356	75%	54%	1			
	177	88%	23%	2	0.0	0.0	na
	172	100%	22%	3	0.5	0.0	10.1
	643	63%	70%	4	2.7	0.6	11.6
	905	63%	80%				
	2350	38%	90%				
48 hours	177	80%	23%	1			
	177	80%	23%	2	0.0	0.0	na
	172	100%	22%	3	0.5	0.0	10.1
	643	40%	70%	4	1.0	0.1	7.6
	905	40%	80%				
	2350	20%	90%				

Fig. 8 - 19

Interleukin-1 beta

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.015	0.759	0.015	0.598	0.015	0.653
average	0.341	0.891	0.341	0.698	0.341	0.709
stdev	0.657	0.965	0.657	0.840	0.657	0.950
p (t-test)		0.003		0.046		0.105
min	0.015	0.015	0.015	0.015	0.015	0.015
max	3.990	3.180	3.990	3.180	3.990	3.180
n (Samp)	112	17	112	17	112	10
n (Pat)	112	17	112	17	112	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.015	0.424	0.015	0.424	0.015	0.421
average	0.749	0.591	0.749	0.591	0.749	0.447
stdev	4.777	0.642	4.777	0.642	4.777	0.441
p (t-test)		0.926		0.926		0.888
min	0.015	0.015	0.015	0.015	0.015	0.015
max	63.800	1.420	63.800	1.420	63.800	0.953
n (Samp)	180	8	180	8	180	5
n (Pat)	180	8	180	8	180	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.015	0.759	0.015	0.598	0.015	0.598
average	0.287	1.045	0.287	0.747	0.287	0.756
stdev	0.643	1.087	0.643	0.943	0.643	1.122
p (t-test)		0.001		0.037		0.084
min	0.015	0.015	0.015	0.015	0.015	0.015
max	3.990	3.180	3.990	3.180	3.990	3.180
n (Samp)	89	11	89	11	89	7
n (Pat)	89	11	89	11	89	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.68	0.075	112	17	0.017
24 hours	0.65	0.076	112	17	0.045
48 hours	0.66	0.098	112	10	0.110

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.61	0.108	180	8	0.331
24 hours	0.61	0.108	180	8	0.331
48 hours	0.59	0.136	180	5	0.492

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.73	0.090	89	11	0.012
24 hours	0.69	0.093	89	11	0.037
48 hours	0.66	0.116	89	7	0.167

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			

Fig. 8 - 20

	0	100%	0%	2	0.4	0.1	1.6
	0	100%	0%	3	0.0	0.0	na
	0.444	59%	71%	4	2.3	1.1	4.9
	0.598	59%	80%				
	1.06	35%	90%				
24 hours	0	100%	0%	1			
	0	100%	0%	2	0.4	0.1	1.6
	0	100%	0%	3	0.2	0.0	2.1
	0.444	53%	71%	4	2.0	0.9	4.3
	0.598	47%	80%				
	1.06	24%	90%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	3.1	0.2	48.6
	0	100%	0%	3	0.0	0.0	na
	0.444	60%	71%	4	7.0	0.6	79.3
	0.598	50%	80%				
	1.06	10%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0	100%	0%	1			
	0	100%	0%	2	na	na	na
	0	100%	0%	3	na	na	na
	0.511	50%	73%	4	na	na	na
	0.773	50%	84%				
	1.17	25%	90%				
24 hours	0	100%	0%	1			
	0	100%	0%	2	na	na	na
	0	100%	0%	3	na	na	na
	0.511	50%	73%	4	na	na	na
	0.773	50%	84%				
	1.17	25%	90%				
48 hours	0	100%	0%	1			
	0	100%	0%	2	0.0	0.0	na
	0	100%	0%	3	0.5	0.0	10.1
	0.511	40%	73%	4	1.0	0.1	7.6
	0.773	40%	84%				
	1.17	0%	90%				

Fig. 8 - 21

Interleukin-10

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	20.700	86.600	20.700	86.600	20.700	34.000
average	40.290	152.265	40.290	99.365	40.290	77.260
stdev	69.922	219.982	69.922	85.415	69.922	101.514
p (t-test)		0.000		0.002		0.126
min	0.154	22.300	0.154	22.300	0.154	12.500
max	480.000	942.000	480.000	348.000	480.000	348.000
n (Samp)	112	17	112	17	112	10
n (Pat)	112	17	112	17	112	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	22.800	84.950	22.800	78.500	22.800	35.200
average	129.997	113.150	129.997	111.538	129.997	105.340
stdev	1012.756	107.088	1012.756	107.728	1012.756	138.065
p (t-test)		0.963		0.959		0.957
min	0.154	22.300	0.154	22.300	0.154	22.300
max	13400.000	348.000	13400.000	348.000	13400.000	348.000
n (Samp)	180	8	180	8	180	5
n (Pat)	180	8	180	8	180	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	20.200	86.600	20.200	86.600	20.200	35.200
average	33.583	164.264	33.583	83.682	33.583	52.786
stdev	44.847	264.189	44.847	59.866	44.847	41.343
p (t-test)		0.000		0.001		0.276
min	0.154	23.400	0.154	23.400	0.154	12.500
max	318.000	942.000	318.000	217.000	318.000	126.000
n (Samp)	89	11	89	11	89	7
n (Pat)	89	11	89	11	89	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.84	0.061	112	17	0.000
24 hours	0.82	0.065	112	17	0.000
48 hours	0.70	0.095	112	10	0.033

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.80	0.095	180	8	0.001
24 hours	0.80	0.095	180	8	0.002
48 hours	0.73	0.130	180	5	0.071

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.87	0.071	89	11	0.000
24 hours	0.83	0.078	89	11	0.000
48 hours	0.70	0.114	89	7	0.075

Fig. 8 - 22

Interleukin-3

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.079	0.091	0.079	0.074	0.079	0.085
average	0.119	0.113	0.119	0.100	0.119	0.105
stdev	0.112	0.081	0.112	0.088	0.112	0.073
p (t-test)		0.836		0.508		0.694
min	0.002	0.030	0.002	0.002	0.002	0.030
max	0.537	0.271	0.537	0.271	0.537	0.271
n (Samp)	112	17	112	17	112	10
n (Pat)	112	17	112	17	112	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.082	0.052	0.082	0.052	0.082	0.057
average	0.121	0.101	0.121	0.090	0.121	0.101
stdev	0.113	0.090	0.113	0.099	0.113	0.098
p (t-test)		0.622		0.457		0.709
min	0.002	0.035	0.002	0.002	0.002	0.035
max	0.566	0.271	0.566	0.271	0.566	0.271
n (Samp)	180	8	180	8	180	5
n (Pat)	180	8	180	8	180	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.078	0.115	0.078	0.115	0.078	0.101
average	0.106	0.131	0.106	0.118	0.106	0.123
stdev	0.104	0.086	0.104	0.090	0.104	0.080
p (t-test)		0.463		0.726		0.691
min	0.002	0.030	0.002	0.002	0.002	0.030
max	0.537	0.271	0.537	0.271	0.537	0.271
n (Samp)	89	11	89	11	89	7
n (Pat)	89	11	89	11	89	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.53	0.076	112	17	0.733
24 hours	0.46	0.074	112	17	0.611
48 hours	0.52	0.096	112	10	0.864

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.45	0.101	180	8	0.635
24 hours	0.40	0.096	180	8	0.297
48 hours	0.46	0.128	180	5	0.764

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.62	0.095	89	11	0.194
24 hours	0.57	0.095	89	11	0.487
48 hours	0.61	0.117	89	7	0.356

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.0467	71%	30%	1			
	0.0432	82%	28%	2	1.8	0.5	5.9
	0.0338	94%	23%	3	1.8	0.5	5.9
	0.146	29%	71%	4	1.3	0.4	4.8

Fig. 8 - 23

	0.2	24%	80%				
	0.274	0%	90%				
24 hours	0.0456	71%	29%	1			
	0.0284	82%	21%	2	1.9	0.6	6.0
	0	100%	0%	3	1.4	0.4	5.1
	0.146	29%	71%	4	1.9	0.6	6.0
	0.2	18%	80%				
	0.274	0%	90%				
48 hours	0.0713	70%	44%	1			
	0.0537	80%	35%	2	1.5	0.3	8.8
	0.0338	90%	23%	3	2.2	0.4	10.8
	0.146	20%	71%	4	0.5	0.0	10.1
	0.2	10%	80%				
	0.274	0%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.0432	75%	26%	1			
	0.0361	88%	23%	2	0.5	0.0	10.1
	0.0346	100%	22%	3	1.5	0.3	8.6
	0.136	25%	70%	4	1.0	0.1	7.7
	0.2	25%	80%				
	0.27	13%	90%				
24 hours	0.0346	75%	22%	1			
	0	100%	0%	2	0.5	0.0	10.1
	0	100%	0%	3	1.0	0.1	7.7
	0.136	25%	70%	4	1.5	0.3	8.6
	0.2	25%	80%				
	0.27	13%	90%				
48 hours	0.0467	80%	29%	1			
	0.0467	80%	29%	2	1.0	0.0	56.2
	0.0346	100%	22%	3	2.1	0.1	43.2
	0.136	20%	70%	4	1.0	0.0	56.2
	0.2	20%	80%				
	0.27	20%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.0713	73%	46%	1			
	0.0467	82%	36%	2	3.3	0.2	53.0
	0.0456	91%	35%	3	3.3	0.2	53.0
	0.132	36%	72%	4	4.6	0.3	63.1
	0.196	27%	81%				
	0.25	18%	91%				
24 hours	0.0467	73%	36%	1			
	0.0456	82%	35%	2	1.6	0.3	9.6
	0.0284	91%	25%	3	1.0	0.1	8.4
	0.132	36%	72%	4	2.2	0.4	11.4
	0.196	18%	81%				
	0.25	18%	91%				
48 hours	0.0735	71%	46%	1			
	0.0713	86%	46%	2	2.1	0.1	47.1
	0.0284	100%	25%	3	2.1	0.1	47.1
	0.132	43%	72%	4	2.1	0.1	47.1
	0.196	14%	81%				
	0.25	14%	91%				

Fig. 8 - 24

Myeloperoxidase

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	128.008	469.412	128.008	410.983	128.008	352.554
average	184.155	691.230	184.155	555.491	184.155	429.229
stdev	205.515	593.936	205.515	408.360	205.515	208.507
p (t-test)		0.000		0.000		0.003
min	0.000	244.989	0.000	244.989	0.000	244.989
max	992.966	2048.626	992.966	1580.100	992.966	862.883
n (Samp)	99	11	99	10	99	7
n (Pat)	99	11	99	10	99	7

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	204.402	477.383	204.402	377.501	204.402	277.618
average	218.288	925.743	218.288	645.022	218.288	333.330
stdev	215.478	832.701	215.478	631.793	215.478	125.816
p (t-test)		0.000		0.000		0.359
min	0.000	244.989	0.000	244.989	0.000	244.989
max	992.966	2048.626	992.966	1580.100	992.966	477.383
n (Samp)	161	5	161	4	161	3
n (Pat)	161	5	161	4	161	3

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	154.673	410.983	154.673	410.983	154.673	404.053
average	222.959	462.148	222.959	462.148	222.959	454.498
stdev	286.781	208.424	286.781	208.424	286.781	216.349
p (t-test)		0.024		0.024		0.056
min	0.000	244.989	0.000	244.989	0.000	244.989
max	1808.488	862.883	1808.488	862.883	1808.488	862.883
n (Samp)	84	8	84	8	84	6
n (Pat)	84	8	84	8	84	6

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.87	0.071	99	11	0.000
24 hours	0.86	0.077	99	10	0.000
48 hours	0.83	0.096	99	7	0.000

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.83	0.114	161	5	0.004
24 hours	0.78	0.137	161	4	0.038
48 hours	0.71	0.170	161	3	0.209

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.83	0.092	84	8	0.000
24 hours	0.83	0.092	84	8	0.000
48 hours	0.82	0.107	84	6	0.003

Fig. 8 - 25

Oxidized low-density lipoprotein receptor 1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.440	1.068	0.440	1.044	0.440	1.020
average	0.505	1.212	0.505	1.130	0.505	0.983
stdev	0.324	0.759	0.324	0.746	0.324	0.735
p (t-test)		0.000		0.000		0.001
min	0.121	0.342	0.121	0.342	0.121	0.342
max	1.737	2.441	1.737	2.441	1.737	2.441
n (Samp)	99	11	99	10	99	7
n (Pat)	99	11	99	10	99	7

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.478	1.150	0.478	1.085	0.478	1.150
average	0.592	1.213	0.592	1.008	0.592	1.117
stdev	0.471	0.499	0.471	0.227	0.471	0.085
p (t-test)		0.004		0.080		0.056
min	0.121	0.683	0.121	0.683	0.121	1.020
max	3.215	2.034	3.215	1.179	3.215	1.179
n (Samp)	161	5	161	4	161	3
n (Pat)	161	5	161	4	161	3

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.435	1.109	0.435	1.109	0.435	0.773
average	0.527	1.200	0.527	1.200	0.527	0.977
stdev	0.367	0.825	0.367	0.825	0.367	0.805
p (t-test)		0.000		0.000		0.010
min	0.121	0.342	0.121	0.342	0.121	0.342
max	1.920	2.441	1.920	2.441	1.920	2.441
n (Samp)	84	8	84	8	84	6
n (Pat)	84	8	84	8	84	6

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.83	0.078	99	11	0.000
24 hours	0.81	0.085	99	10	0.000
48 hours	0.74	0.111	99	7	0.033

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.89	0.097	161	5	0.000
24 hours	0.87	0.116	161	4	0.002
48 hours	0.90	0.117	161	3	0.001

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.78	0.099	84	8	0.004
24 hours	0.78	0.099	84	8	0.004
48 hours	0.69	0.124	84	6	0.132

Fig. 8 - 26

Pappalysin-1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.053	0.107	0.053	0.099	0.053	0.091
average	0.153	0.165	0.153	0.138	0.153	0.112
stdev	0.910	0.120	0.910	0.111	0.910	0.083
p (t-test)		0.956		0.945		0.886
min	0.000	0.029	0.000	0.029	0.000	0.027
max	9.680	0.412	9.680	0.392	9.680	0.258
n (Samp)	112	17	112	17	112	10
n (Pat)	112	17	112	17	112	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.057	0.096	0.057	0.071	0.057	0.056
average	0.132	0.100	0.132	0.081	0.132	0.058
stdev	0.719	0.053	0.719	0.051	0.719	0.031
p (t-test)		0.900		0.844		0.820
min	0.000	0.029	0.000	0.029	0.000	0.029
max	9.680	0.187	9.680	0.187	9.680	0.107
n (Samp)	180	8	180	8	180	5
n (Pat)	180	8	180	8	180	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	0.043	0.158	0.043	0.115	0.043	0.141
average	0.169	0.201	0.169	0.171	0.169	0.143
stdev	1.021	0.131	1.021	0.120	1.021	0.080
p (t-test)		0.919		0.993		0.947
min	0.000	0.036	0.000	0.036	0.000	0.027
max	9.680	0.412	9.680	0.392	9.680	0.258
n (Samp)	89	11	89	11	89	7
n (Pat)	89	11	89	11	89	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.77	0.069	112	17	0.000
24 hours	0.71	0.074	112	17	0.005
48 hours	0.64	0.098	112	10	0.151

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.67	0.107	180	8	0.118
24 hours	0.57	0.108	180	8	0.513
48 hours	0.45	0.127	180	5	0.709

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.85	0.075	89	11	0.000
24 hours	0.83	0.079	89	11	0.000
48 hours	0.80	0.103	89	7	0.003

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.0854	71%	71%	1			

Fig. 8 - 27

	0.0623	82%	59%	2	0.0	0.0	na
	0.0358	94%	27%	3	2.8	0.6	12.6
	0.0854	71%	71%	4	6.5	1.7	24.6
	0.095	59%	80%				
	0.135	47%	90%				
24 hours	0.0645	71%	60%	1			
	0.0492	82%	47%	2	1.6	0.3	9.1
	0.0358	94%	27%	3	1.6	0.3	9.1
	0.0854	59%	71%	4	5.6	1.5	21.6
	0.095	53%	80%				
	0.135	35%	90%				
48 hours	0.0533	70%	52%	1			
	0.0312	80%	21%	2	0.0	0.0	na
	0.0273	90%	19%	3	0.6	0.1	3.8
	0.0854	50%	71%	4	1.7	0.5	5.7
	0.095	50%	80%				
	0.135	40%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.0635	75%	57%	1			
	0.058	88%	52%	2	0.0	0.0	na
	0.0292	100%	19%	3	3.1	0.2	46.7
	0.0856	50%	70%	4	4.3	0.3	54.2
	0.11	25%	80%				
	0.165	13%	90%				
24 hours	0.0494	75%	44%	1			
	0.0362	88%	28%	2	3.1	0.2	46.7
	0.0292	100%	19%	3	1.0	0.0	54.9
	0.0856	38%	70%	4	3.1	0.2	46.7
	0.11	13%	80%				
	0.165	13%	90%				
48 hours	0.0331	80%	22%	1			
	0.0331	80%	22%	2	1.0	0.0	56.2
	0.0292	100%	19%	3	1.0	0.0	56.2
	0.0856	20%	70%	4	2.1	0.1	43.2
	0.11	0%	80%				
	0.165	0%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	0.0928	73%	83%	1			
	0.0854	82%	75%	2	na	na	na
	0.0725	91%	67%	3	na	na	na
	0.0817	82%	71%	4	na	na	na
	0.0901	73%	81%				
	0.132	55%	91%				
24 hours	0.0928	73%	83%	1			
	0.0725	82%	67%	2	na	na	na
	0.0623	91%	64%	3	na	na	na
	0.0817	73%	71%	4	na	na	na
	0.0901	73%	81%				
	0.132	45%	91%				
48 hours	0.095	71%	87%	1			
	0.0725	86%	67%	2	0.0	0.0	na
	0.027	100%	19%	3	1.0	0.0	59.8
	0.0817	71%	71%	4	6.1	0.5	76.8
	0.0901	71%	81%				
	0.132	57%	91%				

Fig. 8 - 28

P-selectin glycoprotein ligand 1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	277.352	270.312	277.352	286.946	277.352	270.312
average	286.799	287.974	286.799	293.820	286.799	278.498
stdev	102.462	74.907	102.462	79.001	102.462	73.529
p (t-test)		0.965		0.806		0.803
min	85.271	192.048	85.271	192.048	85.271	192.048
max	795.623	437.970	795.623	437.970	795.623	385.562
n (Samp)	105	16	105	14	105	10
n (Pat)	105	16	105	14	105	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	288.212	280.106	288.212	296.740	288.212	263.473
average	295.318	297.784	295.318	304.711	295.318	279.653
stdev	99.419	89.000	99.419	93.772	99.419	89.160
p (t-test)		0.945		0.806		0.728
min	85.271	192.048	85.271	192.048	85.271	192.048
max	795.623	437.970	795.623	437.970	795.623	379.297
n (Samp)	170	8	170	7	170	5
n (Pat)	170	8	170	7	170	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	269.920	294.993	269.920	312.834	269.920	312.834
average	271.304	296.977	271.304	302.774	271.304	304.454
stdev	86.237	67.854	86.237	70.017	86.237	70.486
p (t-test)		0.367		0.294		0.326
min	85.271	209.144	85.271	197.838	85.271	197.838
max	531.755	385.562	531.755	385.562	531.755	385.562
n (Samp)	84	10	84	9	84	7
n (Pat)	84	10	84	9	84	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.52	0.078	105	16	0.814
24 hours	0.54	0.084	105	14	0.615
48 hours	0.49	0.096	105	10	0.944

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.51	0.106	170	8	0.900
24 hours	0.54	0.114	170	7	0.734
48 hours	0.46	0.128	170	5	0.754

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.60	0.100	84	10	0.318
24 hours	0.63	0.104	84	9	0.226
48 hours	0.63	0.117	84	7	0.258

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	228.945	75%	31%	1			

Fig. 8 - 29

	227.979	81%	30%	2	2.3	0.7	7.0
	195.596	94%	21%	3	1.0	0.2	4.3
	321.667	31%	70%	4	1.3	0.4	4.8
	358.289	25%	80%				
	401.74	6%	90%				
24 hours	237.694	71%	34%	1			
	197.838	86%	21%	2	1.3	0.4	4.9
	195.596	93%	21%	3	1.0	0.2	4.1
	321.667	36%	70%	4	1.3	0.4	4.9
	358.289	29%	80%				
	401.74	7%	90%				
48 hours	237.694	70%	34%	1			
	197.838	80%	21%	2	1.0	0.1	8.2
	195.596	90%	21%	3	1.6	0.3	9.2
	321.667	30%	70%	4	1.6	0.3	9.6
	358.289	20%	80%				
	401.74	0%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	247.135	75%	34%	1			
	197.838	88%	17%	2	1.0	0.1	7.6
	190.485	100%	14%	3	0.5	0.0	10.1
	335.606	38%	70%	4	1.5	0.3	8.4
	361.727	38%	80%				
	401.74	13%	90%				
24 hours	258.919	71%	36%	1			
	197.838	86%	17%	2	0.5	0.0	10.1
	190.485	100%	14%	3	0.5	0.0	10.1
	335.606	43%	70%	4	1.5	0.3	8.4
	361.727	43%	80%				
	401.74	14%	90%				
48 hours	197.838	80%	17%	1			
	197.838	80%	17%	2	0.0	0.0	na
	190.485	100%	14%	3	0.5	0.0	10.1
	335.606	40%	70%	4	1.0	0.1	8.0
	361.727	40%	80%				
	401.74	0%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	237.694	70%	37%	1			
	228.627	80%	33%	2	3.1	0.2	51.5
	224.212	90%	32%	3	2.1	0.1	47.6
	310.047	50%	70%	4	4.4	0.3	61.5
	347.212	30%	81%				
	383.222	10%	90%				
24 hours	237.694	78%	37%	1			
	224.212	89%	32%	2	2.1	0.1	47.6
	195.182	100%	24%	3	2.1	0.1	47.6
	310.047	56%	70%	4	4.4	0.3	61.5
	347.212	33%	81%				
	383.222	11%	90%				
48 hours	275.164	71%	54%	1			
	237.694	86%	37%	2	1.0	0.0	57.7
	195.182	100%	24%	3	2.0	0.1	45.6
	310.047	57%	70%	4	3.2	0.2	52.0
	347.212	29%	81%				
	383.222	14%	90%				

Fig. 8 - 30

Secretory leukocyte peptidase inhibitor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	65642.439	110949.914	65642.439	107269.829	65642.439	99670.689
average	75387.460	126262.264	75387.460	122213.065	75387.460	108930.142
stdev	36562.166	44661.931	36562.166	46469.954	36562.166	41678.233
p (t-test)		0.000		0.000		0.007
min	13520.408	72946.237	13520.408	64659.271	13520.408	64659.271
max	199917.831	218323.747	199917.831	218323.747	199917.831	170531.178
n (Samp)	104	15	104	14	104	10
n (Pat)	104	15	104	14	104	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	71251.981	151191.710	71251.981	155716.753	71251.981	155716.753
average	76070.778	148234.164	76070.778	144702.729	76070.778	132494.761
stdev	33362.429	43304.158	33362.429	51559.754	33362.429	46580.729
p (t-test)		0.000		0.000		0.000
min	13520.408	81282.051	13520.408	64659.271	13520.408	64659.271
max	199917.831	218323.747	199917.831	218323.747	199917.831	169533.679
n (Samp)	169	8	169	7	169	5
n (Pat)	169	8	169	7	169	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	66409.639	95751.634	66409.639	95751.634	66409.639	95751.634
average	73308.303	115923.102	73308.303	114812.342	73308.303	107439.722
stdev	31111.701	41351.778	31111.701	39523.478	31111.701	40874.582
p (t-test)		0.000		0.000		0.008
min	21505.376	72946.237	21505.376	72946.237	21505.376	70370.370
max	183903.282	179530.516	183903.282	170531.178	183903.282	170531.178
n (Samp)	83	9	83	9	83	7
n (Pat)	83	9	83	9	83	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.84	0.065	104	15	0.000
24 hours	0.82	0.071	104	14	0.000
48 hours	0.76	0.091	104	10	0.004

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.92	0.068	169	8	0.000
24 hours	0.87	0.088	169	7	0.000
48 hours	0.83	0.113	169	5	0.003

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.83	0.085	83	9	0.000
24 hours	0.83	0.085	83	9	0.000
48 hours	0.77	0.107	83	7	0.011

Fig. 8 - 31

Stem cell factor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	356.000	642.000	356.000	549.000	356.000	516.500
average	415.158	609.882	415.158	551.000	415.158	520.600
stdev	220.079	257.385	220.079	277.790	220.079	259.667
p (t-test)		0.001		0.024		0.155
min	89.700	233.000	89.700	174.000	89.700	233.000
max	1340.000	1100.000	1340.000	1100.000	1340.000	927.000
n (Samp)	112	17	112	17	112	10
n (Pat)	112	17	112	17	112	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	387.000	660.500	387.000	651.000	387.000	584.000
average	460.909	596.125	460.909	519.625	460.909	591.000
stdev	454.552	237.155	454.552	281.473	454.552	242.288
p (t-test)		0.405		0.718		0.525
min	89.700	289.000	89.700	174.000	89.700	233.000
max	5840.000	895.000	5840.000	895.000	5840.000	895.000
n (Samp)	180	8	180	8	180	5
n (Pat)	180	8	180	8	180	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	356.000	679.000	356.000	549.000	356.000	484.000
average	397.873	652.091	397.873	616.727	397.873	527.000
stdev	195.813	270.409	195.813	275.574	195.813	285.084
p (t-test)		0.000		0.001		0.108
min	89.700	233.000	89.700	233.000	89.700	233.000
max	1260.000	1100.000	1260.000	1100.000	1260.000	927.000
n (Samp)	89	11	89	11	89	7
n (Pat)	89	11	89	11	89	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.73	0.073	112	17	0.002
24 hours	0.64	0.077	112	17	0.065
48 hours	0.62	0.098	112	10	0.236

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.70	0.105	180	8	0.053
24 hours	0.59	0.108	180	8	0.429
48 hours	0.72	0.132	180	5	0.100

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.78	0.085	89	11	0.001
24 hours	0.74	0.089	89	11	0.007
48 hours	0.61	0.117	89	7	0.349

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	382	71%	55%	1			

Fig. 8 - 32

	322	82%	42%	2	1.0	0.1	8.1
	278	94%	25%	3	1.0	0.1	8.1
	439	65%	71%	4	7.5	2.0	27.9
	551	65%	80%				
	653	47%	90%				
24 hours	382	71%	55%	1			
	229	88%	15%	2	0.2	0.0	3.0
	171	100%	4%	3	0.7	0.2	2.6
	439	65%	71%	4	2.6	1.1	6.2
	551	47%	80%				
	653	35%	90%				
48 hours	315	70%	39%	1			
	278	80%	25%	2	1.0	0.1	7.9
	229	100%	15%	3	0.5	0.0	10.5
	439	60%	71%	4	2.7	0.6	12.3
	551	40%	80%				
	653	30%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	377	75%	47%	1			
	322	88%	36%	2	2.0	0.1	42.2
	288	100%	25%	3	0.0	0.0	na
	494	63%	70%	4	5.5	0.5	62.9
	553	63%	80%				
	702	25%	90%				
24 hours	229	75%	13%	1			
	171	100%	3%	2	0.0	0.0	na
	171	100%	3%	3	0.0	0.0	na
	494	63%	70%	4	1.7	0.6	5.4
	553	63%	80%				
	702	13%	90%				
48 hours	523	80%	77%	1			
	523	80%	77%	2	0.0	0.0	na
	229	100%	13%	3	0.0	0.0	na
	494	80%	70%	4	4.2	0.3	53.0
	553	60%	80%				
	702	20%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	571	73%	91%	1			
	382	82%	60%	2	0.0	0.0	na
	278	91%	25%	3	0.5	0.0	10.7
	428	73%	71%	4	5.4	1.3	22.5
	549	73%	82%				
	571	73%	91%				
24 hours	443	73%	73%	1			
	382	82%	60%	2	0.0	0.0	na
	278	91%	25%	3	1.0	0.1	8.4
	428	73%	71%	4	4.5	1.0	19.1
	549	45%	82%				
	571	45%	91%				
48 hours	315	71%	38%	1			
	278	86%	25%	2	2.1	0.1	47.1
	229	100%	16%	3	1.0	0.0	59.8
	428	57%	71%	4	3.3	0.2	53.6
	549	29%	82%				
	571	29%	91%				

Fig. 8 - 33

Tissue inhibitor of metalloproteinase 1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	259.500	484.000	259.500	444.000	259.500	362.500
average	308.191	597.176	308.191	539.765	308.191	404.000
stdev	201.488	319.091	201.488	293.413	201.488	189.259
p (t-test)		0.000		0.000		0.150
min	75.400	227.000	75.400	226.000	75.400	226.000
max	1207.000	1220.000	1207.000	1220.000	1207.000	739.000
n (Samp)	112	17	112	17	112	10
n (Pat)	112	17	112	17	112	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	263.000	512.500	263.000	459.000	263.000	444.000
average	337.145	576.125	337.145	514.000	337.145	446.600
stdev	236.891	257.790	236.891	243.295	236.891	208.024
p (t-test)		0.006		0.040		0.308
min	75.400	246.000	75.400	246.000	75.400	246.000
max	1250.000	966.000	1250.000	829.000	1250.000	776.000
n (Samp)	180	8	180	8	180	5
n (Pat)	180	8	180	8	180	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	262.000	474.000	262.000	474.000	262.000	432.000
average	320.321	617.545	320.321	574.000	320.321	436.714
stdev	215.000	346.836	215.000	317.024	215.000	214.474
p (t-test)		0.000		0.001		0.171
min	75.400	227.000	75.400	226.000	75.400	226.000
max	1207.000	1220.000	1207.000	1220.000	1207.000	739.000
n (Samp)	89	11	89	11	89	7
n (Pat)	89	11	89	11	89	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.82	0.065	112	17	0.000
24 hours	0.77	0.070	112	17	0.000
48 hours	0.69	0.096	112	10	0.052

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.80	0.096	180	8	0.002
24 hours	0.75	0.101	180	8	0.013
48 hours	0.71	0.132	180	5	0.102

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.82	0.080	89	11	0.000
24 hours	0.77	0.086	89	11	0.001
48 hours	0.69	0.115	89	7	0.091

Fig. 8 - 34

Tissue inhibitor of metalloproteinase 2

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	111542.535	142079.866	111542.535	134002.820	111542.535	145549.173
average	113632.608	134474.118	113632.608	128419.349	113632.608	133076.767
stdev	24617.965	37132.928	24617.965	34173.363	24617.965	37080.962
p (t-test)		0.013		0.084		0.054
min	58493.008	84650.482	58493.008	84650.482	58493.008	89776.943
max	177248.877	189045.463	177248.877	188983.579	177248.877	188983.579
n (Samp)	99	11	99	10	99	7
n (Pat)	99	11	99	10	99	7

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	113284.580	131902.122	113284.580	110839.533	113284.580	125925.775
average	115893.688	136871.718	115893.688	123828.282	115893.688	134895.432
stdev	25995.299	51008.377	25995.299	48321.125	25995.299	50207.870
p (t-test)		0.088		0.556		0.219
min	58493.008	84650.482	58493.008	84650.482	58493.008	89776.943
max	197537.458	189045.463	197537.458	188983.579	197537.458	188983.579
n (Samp)	161	5	161	4	161	3
n (Pat)	161	5	161	4	161	3

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	109561.495	143814.520	109561.495	143814.520	109561.495	147764.677
average	112998.806	139467.801	112998.806	138720.758	112998.806	140293.404
stdev	25433.473	29594.364	25433.473	29886.612	25433.473	34821.351
p (t-test)		0.007		0.008		0.015
min	58493.008	99652.346	58493.008	99652.346	58493.008	99652.346
max	177248.877	188983.579	177248.877	188983.579	177248.877	188983.579
n (Samp)	84	8	84	8	84	6
n (Pat)	84	8	84	8	84	6

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.67	0.093	99	11	0.072
24 hours	0.63	0.099	99	10	0.192
48 hours	0.66	0.116	99	7	0.175

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.60	0.136	161	5	0.454
24 hours	0.50	0.147	161	4	0.979
48 hours	0.61	0.175	161	3	0.523

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.75	0.103	84	8	0.014
24 hours	0.75	0.103	84	8	0.017
48 hours	0.73	0.121	84	6	0.059

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	99703.7	73%	31%	1			

Fig. 8 - 35

	98973.9	82%	30%	2	1.0	0.1	8.0
	89077.1	91%	18%	3	0.5	0.0	10.6
	125509	64%	71%	4	3.4	0.8	14.9
	135666	55%	81%				
	145286	45%	91%				
24 hours	99703.7	70%	31%	1			
	98973.9	80%	30%	2	1.0	0.1	8.3
	89077.1	90%	18%	3	0.5	0.0	10.6
	125509	60%	71%	4	2.7	0.6	12.6
	135666	50%	81%				
	145286	40%	91%				
48 hours	99703.7	71%	31%	1			
	98973.9	86%	30%	2	2.0	0.1	44.3
	89077.1	100%	18%	3	0.0	0.0	na
	125509	57%	71%	4	4.3	0.3	59.3
	135666	57%	81%				
	145286	57%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	89388.9	80%	17%	1			
	89388.9	80%	17%	2	0.0	0.0	na
	84630.8	100%	10%	3	0.5	0.0	10.2
	127129	60%	70%	4	1.0	0.1	7.6
	135952	40%	80%				
	149556	40%	90%				
24 hours	89388.9	75%	17%	1			
	84630.8	100%	10%	2	0.0	0.0	na
	84630.8	100%	10%	3	0.0	0.0	na
	127129	50%	70%	4	1.0	0.1	7.6
	135952	25%	80%				
	149556	25%	90%				
48 hours	89388.9	100%	17%	1			
	89388.9	100%	17%	2	0.0	0.0	na
	89388.9	100%	17%	3	1.0	0.0	55.6
	127129	33%	70%	4	1.0	0.0	55.6
	135952	33%	80%				
	149556	33%	90%				

Fig. 8 - 36

Tumor necrosis factor-alpha

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	9.515	14.100	9.515	14.100	9.515	9.915
average	17.458	20.223	17.458	18.072	17.458	14.210
stdev	40.048	18.380	40.048	18.459	40.048	14.279
p (t-test)		0.780		0.951		0.800
min	0.040	5.680	0.040	3.330	0.040	0.829
max	307.000	75.800	307.000	75.800	307.000	50.900
n (Samp)	112	17	112	17	112	10
n (Pat)	112	17	112	17	112	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	9.865	20.150	9.865	14.300	9.865	13.000
average	20.544	24.643	20.544	20.955	20.544	13.418
stdev	59.969	22.923	59.969	23.252	59.969	9.447
p (t-test)		0.848		0.985		0.791
min	0.040	5.680	0.040	3.330	0.040	0.829
max	669.000	75.800	669.000	75.800	669.000	23.300
n (Samp)	180	8	180	8	180	5
n (Pat)	180	8	180	8	180	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	8.220	14.100	8.220	14.100	8.220	10.700
average	15.575	17.441	15.575	16.798	15.575	17.173
stdev	34.035	12.238	34.035	12.748	34.035	16.100
p (t-test)		0.858		0.907		0.903
min	0.040	6.910	0.040	4.300	0.040	3.830
max	307.000	50.900	307.000	50.900	307.000	50.900
n (Samp)	89	11	89	11	89	7
n (Pat)	89	11	89	11	89	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.67	0.076	112	17	0.023
24 hours	0.61	0.077	112	17	0.149
48 hours	0.52	0.097	112	10	0.825

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.69	0.106	180	8	0.066
24 hours	0.62	0.108	180	8	0.272
48 hours	0.56	0.135	180	5	0.645

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.71	0.092	89	11	0.023
24 hours	0.67	0.094	89	11	0.074
48 hours	0.60	0.117	89	7	0.374

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	9.01	71%	48%	1			

Fig. 8 - 37

	8.34	82%	48%	2	5.7	0.5	69.1
	6.61	94%	33%	3	4.4	0.3	58.6
	13.5	53%	71%	4	8.3	0.8	90.1
	18	35%	80%				
	27.7	18%	90%				
24 hours	8.34	71%	48%	1			
	6.61	88%	33%	2	2.1	0.4	10.7
	3.85	94%	13%	3	3.5	0.8	14.7
	13.5	53%	71%	4	2.7	0.6	12.1
	18	24%	80%				
	27.7	12%	90%				
48 hours	7.98	70%	46%	1			
	6.61	80%	33%	2	1.5	0.3	8.8
	3.81	90%	10%	3	1.0	0.1	8.2
	13.5	30%	71%	4	1.5	0.3	8.8
	18	20%	80%				
	27.7	10%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	8.34	75%	46%	1			
	7.98	88%	43%	2	2.0	0.1	42.2
	5.52	100%	23%	3	0.0	0.0	na
	14.1	63%	72%	4	5.5	0.5	62.9
	18.4	50%	80%				
	25.4	25%	90%				
24 hours	7.98	75%	43%	1			
	6.61	88%	30%	2	2.0	0.1	42.2
	3.26	100%	7%	3	2.0	0.1	42.2
	14.1	63%	72%	4	3.1	0.2	46.7
	18.4	38%	80%				
	25.4	13%	90%				
48 hours	7.98	80%	43%	1			
	7.98	80%	43%	2	1.0	0.0	55.0
	0.0399	100%	2%	3	1.0	0.0	55.0
	14.1	40%	72%	4	2.0	0.1	41.3
	18.4	40%	80%				
	25.4	0%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	11.4	73%	63%	1			
	9.01	82%	53%	2	na	na	na
	8.34	91%	53%	3	na	na	na
	13	55%	71%	4	na	na	na
	17.4	27%	81%				
	27.7	9%	91%				
24 hours	10.4	73%	57%	1			
	8.34	82%	53%	2	2.1	0.1	46.6
	6.61	91%	37%	3	3.3	0.2	53.0
	13	55%	71%	4	6.0	0.5	75.4
	17.4	27%	81%				
	27.7	9%	91%				
48 hours	8.34	71%	53%	1			
	6.61	86%	37%	2	1.0	0.0	59.8
	3.81	100%	10%	3	2.1	0.1	47.1
	13	43%	71%	4	3.3	0.2	53.6
	17.4	29%	81%				
	27.7	14%	91%				

Fig. 8 - 38

Vascular cell adhesion molecule 1

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	664.588	969.442	664.588	947.936	664.588	894.409
average	737.563	1068.585	737.563	1070.037	737.563	908.300
stdev	286.542	571.648	286.542	597.604	286.542	450.080
p (t-test)		0.001		0.001		0.125
min	315.327	474.555	315.327	474.555	315.327	474.555
max	1703.672	2442.930	1703.672	2442.930	1703.672	1836.748
n (Samp)	99	13	99	12	99	8
n (Pat)	99	13	99	12	99	8

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	669.279	909.701	669.279	918.065	669.279	733.001
average	782.551	827.184	782.551	847.716	782.551	719.443
stdev	387.161	203.336	387.161	228.729	387.161	197.386
p (t-test)		0.798		0.738		0.779
min	304.293	515.627	304.293	515.627	304.293	515.627
max	2809.360	1039.105	2809.360	1039.105	2809.360	909.701
n (Samp)	160	5	160	4	160	3
n (Pat)	160	5	160	4	160	3

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	670.806	1042.538	670.806	1007.706	670.806	909.701
average	750.448	1170.449	750.448	1139.839	750.448	964.396
stdev	302.673	613.458	302.673	628.200	302.673	454.933
p (t-test)		0.000		0.001		0.088
min	315.327	474.555	315.327	474.555	315.327	474.555
max	1737.712	2442.930	1737.712	2442.930	1737.712	1836.748
n (Samp)	84	10	84	10	84	7
n (Pat)	84	10	84	10	84	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.71	0.085	99	13	0.015
24 hours	0.69	0.089	99	12	0.031
48 hours	0.60	0.110	99	8	0.346

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.64	0.136	160	5	0.298
24 hours	0.65	0.151	160	4	0.332
48 hours	0.53	0.171	160	3	0.884

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.73	0.094	84	10	0.013
24 hours	0.71	0.096	84	10	0.026
48 hours	0.64	0.117	84	7	0.216

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	745.011	77%	65%	1			

Fig. 8 - 39

	601.367	85%	34%	2	0.5	0.0	10.6
	512.57	92%	22%	3	1.0	0.1	8.3
	790.308	69%	71%	4	5.2	1.3	21.1
	955.241	54%	81%				
	1126.83	15%	91%				
24 hours	727.836	75%	61%	1			
	601.367	83%	34%	2	0.5	0.0	10.2
	512.57	92%	22%	3	1.0	0.1	8.0
	790.308	67%	71%	4	4.2	1.0	17.4
	955.241	50%	81%				
	1126.83	17%	91%				
48 hours	512.57	75%	22%	1			
	506.491	88%	21%	2	0.0	0.0	na
	466.49	100%	14%	3	0.3	0.0	4.7
	790.308	63%	71%	4	1.3	0.4	5.0
	955.241	38%	81%				
	1126.83	13%	91%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	745.011	80%	62%	1			
	745.011	80%	62%	2	0.0	0.0	na
	512.57	100%	23%	3	1.0	0.0	55.6
	816.421	60%	70%	4	3.1	0.2	46.4
	1002.77	20%	80%				
	1303.86	0%	90%				
24 hours	905.004	75%	76%	1			
	512.57	100%	23%	2	0.0	0.0	na
	512.57	100%	23%	3	1.0	0.0	55.6
	816.421	75%	70%	4	2.1	0.1	42.9
	1002.77	25%	80%				
	1303.86	0%	90%				
48 hours	512.57	100%	23%	1			
	512.57	100%	23%	2	0.0	0.0	na
	512.57	100%	23%	3	1.0	0.0	54.3
	816.421	33%	70%	4	1.0	0.0	54.3
	1002.77	0%	80%				
	1303.86	0%	90%				

UO only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	955.241	70%	77%	1			
	882.489	80%	74%	2	1.0	0.0	57.4
	601.367	90%	32%	3	2.1	0.1	47.6
	779.457	80%	70%	4	7.3	0.6	88.0
	1033.49	60%	81%				
	1126.83	20%	90%				
24 hours	882.489	70%	74%	1			
	728.274	80%	61%	2	1.0	0.0	57.4
	601.367	90%	32%	3	3.3	0.2	54.3
	779.457	70%	70%	4	5.8	0.5	73.7
	1033.49	50%	81%				
	1126.83	20%	90%				
48 hours	807.384	71%	73%	1			
	503.794	86%	20%	2	0.0	0.0	na
	466.49	100%	14%	3	1.0	0.1	8.2
	779.457	71%	70%	4	1.5	0.2	9.3
	1033.49	43%	81%				
	1126.83	14%	90%				

Fig. 8 - 40

Vascular endothelial growth factor

sCr or UO

	0 hr prior to AKI stage		24 hr prior to AKI stage		48 hr prior to AKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1045.000	3010.000	1045.000	2910.000	1045.000	2240.000
average	1392.214	3403.235	1392.214	3166.059	1392.214	2762.800
stdev	1337.321	2248.559	1337.321	2383.915	1337.321	2627.380
p (t-test)		0.000		0.000		0.006
min	417.000	935.000	417.000	705.000	417.000	714.000
max	11500.000	9620.000	11500.000	9620.000	11500.000	9620.000
n (Samp)	112	17	112	17	112	10
n (Pat)	112	17	112	17	112	10

sCr only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1080.000	2960.000	1080.000	2960.000	1080.000	2910.000
average	1481.711	2763.750	1481.711	2391.875	1481.711	2434.800
stdev	1649.766	1149.807	1649.766	1396.769	1649.766	982.057
p (t-test)		0.031		0.126		0.201
min	417.000	1440.000	417.000	705.000	417.000	714.000
max	16200.000	4320.000	16200.000	4010.000	16200.000	3010.000
n (Samp)	180	8	180	8	180	5
n (Pat)	180	8	180	8	180	5

UO only

	0 hr prior toAKI stage		24 hr prior toAKI stage		48 hr prior toAKI stage	
	Cohort 1	Cohort 2	Cohort 1	Cohort 2	Cohort 1	Cohort 2
median	1040.000	3370.000	1040.000	3010.000	1040.000	1570.000
average	1419.629	3829.545	1419.629	3733.455	1419.629	2999.143
stdev	1430.533	2579.281	1430.533	2626.820	1430.533	3094.531
p (t-test)		0.000		0.000		0.013
min	458.000	935.000	458.000	838.000	458.000	834.000
max	11500.000	9620.000	11500.000	9620.000	11500.000	9620.000
n (Samp)	89	11	89	11	89	7
n (Pat)	89	11	89	11	89	7

sCr or UO

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.85	0.060	112	17	0.000
24 hours	0.76	0.071	112	17	0.000
48 hours	0.73	0.094	112	10	0.016

sCr only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.86	0.084	180	8	0.000
24 hours	0.67	0.107	180	8	0.103
48 hours	0.78	0.123	180	5	0.022

UO only

Time prior AKI stage	AUC	SE	nCohort 1	nCohort 2	p
0 hours	0.85	0.074	89	11	0.000
24 hours	0.84	0.076	89	11	0.000
48 hours	0.74	0.111	89	7	0.032

sCr or UO

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1680	71%	79%	1			

Fig. 8 - 41

	1450	82%	73%	2	na	na	na
	1120	94%	58%	3	na	na	na
	1380	88%	71%	4	na	na	na
	1700	65%	80%				
	2300	59%	90%				
24 hours	1540	71%	75%	1			
	836	82%	32%	2	1.0	0.1	8.1
	749	94%	22%	3	1.0	0.1	8.1
	1380	71%	71%	4	7.5	2.0	27.9
	1700	65%	80%				
	2300	59%	90%				
48 hours	1240	70%	63%	1			
	1120	80%	58%	2	1.0	0.0	55.6
	825	90%	31%	3	3.2	0.2	50.6
	1380	60%	71%	4	5.6	0.5	67.6
	1700	50%	80%				
	2300	50%	90%				

sCr only

Time prior AKI stage	Cutoff value	sens	spec	Quartile	OR	95% CI of OR	
0 hours	1580	75%	74%	1			
	1450	88%	71%	2	na	na	na
	1410	100%	70%	3	na	na	na
	1410	100%	70%	4	na	na	na
	1700	63%	80%				
	2340	63%	90%				
24 hours	803	75%	27%	1			
	749	88%	22%	2	0.5	0.0	10.1
	701	100%	17%	3	0.0	0.0	na
	1410	63%	70%	4	2.7	0.6	11.6
	1700	63%	80%				
	2340	63%	90%				
48 hours	2520	80%	92%	1			
	2520	80%	92%	2	0.0	0.0	na
	709	100%	17%	3	0.0	0.0	na
	1410	80%	70%	4	4.2	0.3	53.0
	1700	80%	80%				
	2340	80%	90%				

Fig. 8 - 42