METHOD OF CARDIAC RISK ASSESSMENT

A method of data management for assessing a patient's autonomic balance, risk of death, and the patient's response to therapy in terms of these assessments is described. This method describes a process by which a set of "raw variables" (RV) are translated into one or more of a new variable, defined as a Mortality Prediction Index (MPI), that quantifies the patient's cardiovascular reflex control and risk of death. The translated variables are representative of both cerebral and peripheral chemo receptivity, baroreflexes, and peripheral ergo receptors, which, in turn, provide the measurement of sympathovagal, or autonomic, balance. The process of selection and measurement of the MPI, and thus the sympathetic and parasympathetic components of autonomic balance at rest and during dynamic, isotonic exercise and recovery is described. The invention will further define risk of death using a Kaplan-Meier Plot for translated variables.
For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.
### INTERNATIONAL SEARCH REPORT

**International application No.**

PCT/US03/13281

A. **CLASSIFICATION OF SUBJECT MATTER**

<table>
<thead>
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<th>IPC(7)</th>
<th>US CL.</th>
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<tr>
<td>A61B 05/00</td>
<td>600/300</td>
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According to International Patent Classification (IPC) or to both national classification and IPC

B. **FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

- U.S.: 600/300, 485, 500, 508;

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Please See Continuation Sheet

C. **DOCUMENTS CONSIDERED TO BE RELEVANT**

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
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<tr>
<td>X</td>
<td>US 6,234,963 A (Bliko) 22 May 2001 (22.05.2001), See entire document.</td>
<td>14</td>
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<tr>
<td>A</td>
<td>US 5,046,499 A (Berger) 10 September 1991 (10.09.1991), See entire document.</td>
<td>15, 16</td>
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</table>

☐ Further documents are listed in the continuation of Box C. ☐ Patent family annex.

Special categories of cited documents:

- "A" - document defining the general state of the art: which is not considered to be of particular relevance
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Date of the actual completion of the international search: 09 September 2004 (09.09.2004)

Date of mailing of the international preliminary report: 10 FEB 2005

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Form PCT/ISA/210 (second sheet) (January 2004)
Continuation of B. FIELDS SEARCHED Item 3:
east - cardiovascular or cardiopulmonary disease, cardiovascular or cardiopulmonary risk
virtual display
graphical disply
data object