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(71) 00144 47

(72) , , -00040, 30,400,
. . . .

, -00040, 30,400,
. . . .

(74)

:

(54)

, , L- , 가 L- L-

1

, L- , L-

가 , 12 .
 -L- , .
 ALCAR
 (³¹P MRS)
³¹P MRS (prefrontal)
 [, 가 (PME) 가 ,
 PME (ATP)가 (PCr)
 가
 가

1(a)	2	(#1; #2)	PME(s- \ c)	HDRS
1(b)	2	(#1; #2)	PCr	HDRS
2(a)	2	(#1; #2)	(O, n=6)	6 12 ±SD ;
a)		PME(s- c) PCr		
2(b)	2	(#1; #2)	(O, n=6)	6 12 ±SD ;
		PME(s- c) PCr		
3(a)	2	가 a) PME(s- c)	12	
/SD)		Z- PME(s- c) PCR	Z- 3.0 2.0	Z- (
3(b)	2	가 a) PCr	12	2 /SD)
		Z- PME(s- c) PCR	Z- 2.0 2.0	Z- (

2 , 8)(L- L- (가 가
 , , ,
 , L- L- , 가
 , L- L- (ALC ALCAR L-) , L-
 (PLC), L- , L- L- ,

$(i - \lambda_c)$
 0.75 ms
 $(i - \lambda_c)$
) PME(,
 /
 PDE)
 /
 (,
 /
 31 P %

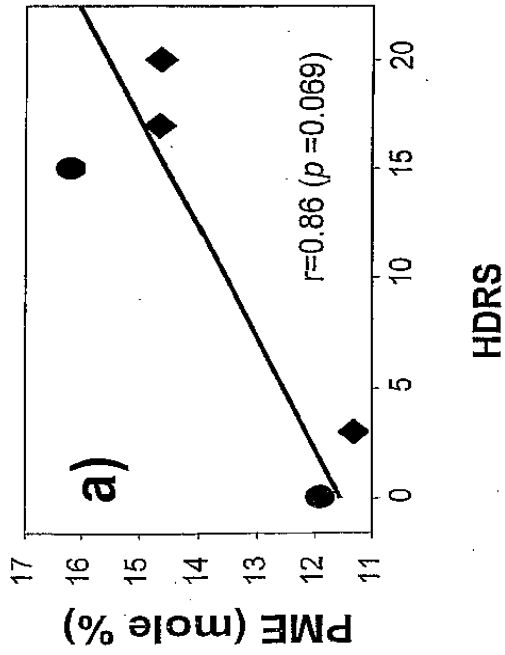
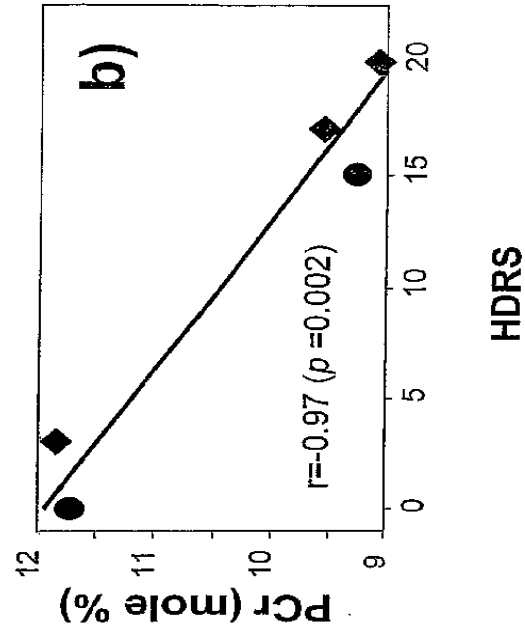
(Statview)(SAS Institute, Inc.)
(pearson) t

2 DSM-IV MDD 3
 #2 20, 17 3 가 #1 15, 1 0 , 6 12 HDRS 가 ,
 (HDRS<8) , s/p #1 #2
 , 6 12 CIRSE #1 7, 6 5 EKG ; #2 4, 4 2 .
 ALCAR #1 #2
 가가

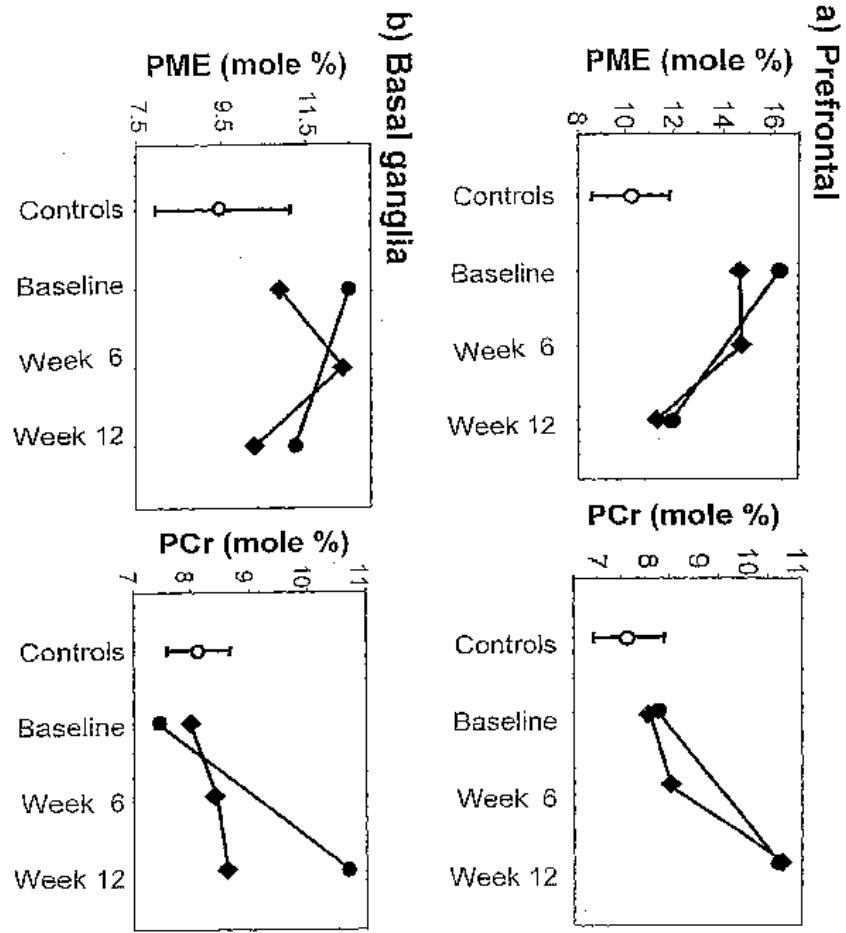
1 2 PME(s- \ c)(r=0.86, p=0.069) PCr(r=0.97, p=0.002)
 HDRS PCr PME(s- \ c) , 2 2 , 6 12
 #1 6 31 P MRSI PCr PME(s- \ c)
 가 ALCAR 가 , ALCAR PCr 27% 31% 가 1.5 2.0 SD
 PCr 가 가 (2), PME(s- \ c) 1 SD
 z- ALCAR 가 가 HDRS PME(s- \ c) PCr
 6) 가 (3) . ALCAR 12 , PME(s- \ c) 가 PME(s- \ c) (p=0.00
 (p=0.027) (p=0.05). , PCr ALCAR 12 (p=0.001), (p=0.022)

PME(s- \ c) PCr -L- , ALCAR 12
 PME(s- \ c) PCr
 PME(s- \ c) 가 PME(s- \ c) -1-
 가 가 . ALCAR PME(s- \ c) , 12 ALCAR PME
 PCr ATP
 , PME(s- \ c) PCr , HDRS
 ALCAR 가 (3).
 가

1



2



3

