Supplemental Table 1

Item-level descriptive statistics for PCL-5 items.

Item	N	M	SD	Possible range	Observed range
1	1139	0.95	1.15	0-4	0-4
2	1139	0.58	1.03	0-4	0-4
3	1138	0.53	0.99	0-4	0-4
4	1135	1.32	1.29	0-4	0-4
5	1136	0.86	1.22	0-4	0-4
6	1138	1.24	1.35	0-4	0-4
7	1139	1.02	1.33	0-4	0-4
8	1139	0.74	1.10	0-4	0-4
9	1139	0.75	1.20	0-4	0-4
10	1137	0.90	1.32	0-4	0-4
11	1136	1.10	1.32	0-4	0-4
12	1139	0.51	1.03	0-4	0-4
13	1136	0.66	1.11	0-4	0-4
14	1137	0.58	1.06	0-4	0-4
15	1139	0.48	0.94	0-4	0-4
16	1139	0.32	0.79	0-4	0-4
17	1139	0.92	1.27	0-4	0-4
18	1135	0.70	1.16	0-4	0-4
19	1137	0.84	1.24	0-4	0-4
20	1138	0.87	1.28	0-4	0-4

Note. PCL-5 = PTSD Checklist for *DSM-5*.

Supplemental Table 2

Descriptive statistics for scales used in analyses.

Variable	N	M	SD	Possible range	Observed range	α
PCL-5						
Total Scale	1114	15.83	17.26	0-80	0-80	.96
REX	1131	4.24	4.87	0-20	0-20	.91
AV	1138	2.26	2.52	0-8	0-8	.87
NACM	1129	5.19	6.47	0-28	0-28	.90
AAR	1133	4.12	5.35	0-24	0-24	.88
NA	1134	3.44	4.04	0-16	0-16	.83
AN	1134	1.75	2.94	0-12	0-12	.91
EB	1139	0.80	1.53	0-8	0-8	.71
AA	1135	1.62	2.25	0-8	0-8	.83
DA	1136	1.71	2.35	0-8	0-8	.86
PAI						
DEP	1038	20.55	12.52	0-72	0-65	.91
ANX	1040	26.53	14.44	0-72	0-72	.93
AGG	1051	13.88	9.09	0-54	0-49	.86
ANT	1036	16.38	9.59	0-72	0-56	.83
ALC	1062	6.13	5.81	0-36	0-35	.82
DRG	1067	5.31	5.26	0-36	0-32	.73

Note. PCL-5 = PTSD Checklist for *DSM-5*; REX = Reexperiencing; AV = Avoidance; NAMC = Negative alterations in cognitions and mood; AAR = Alterations in arousal and reactivity; NA = Negative affect; AN = Anhedonia; EB = Externalizing behavior; AA = Anxious arousal; DA = Dysphoric arousal; PAI = Personality Assessment Inventory; DEP = Depression; ANX = Anxiety; AGG = Aggression; ANT = Antisocial features; ALC = Alcohol problems; DRG = Drug problems.
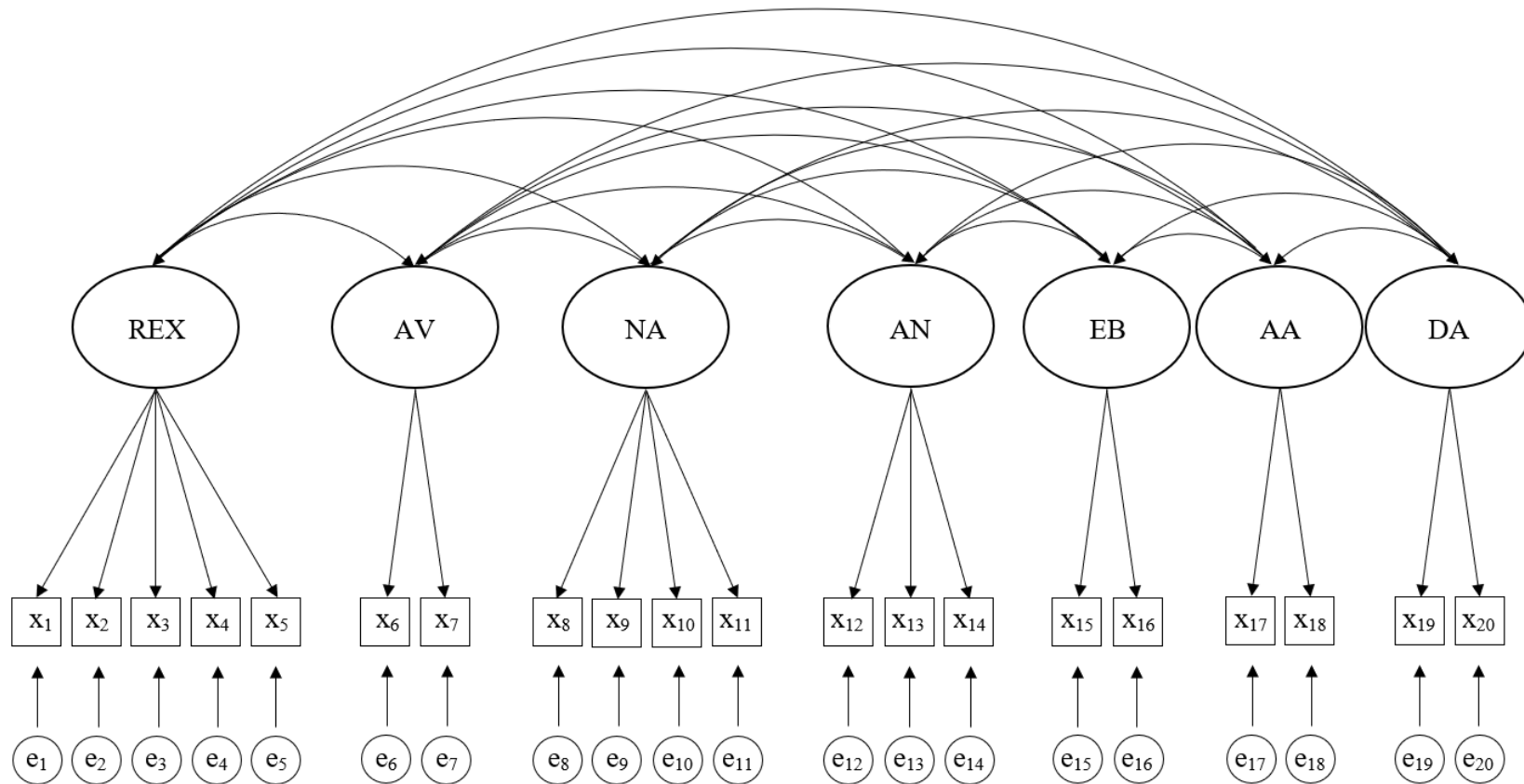
Supplemental Figure 1

Model structure of *DSM-5* PTSD in confirmatory factor analysis.

Note. X_1-X_{20} are PTSD symptoms 1-20; e_1-e_{20} are observed indicators PCL-5 items 1-20; REX Reexperiencing; AV = Avoidance; NACM = Negative alterations in cognitions and mood; AAR = Alterations in arousal and reactivity.
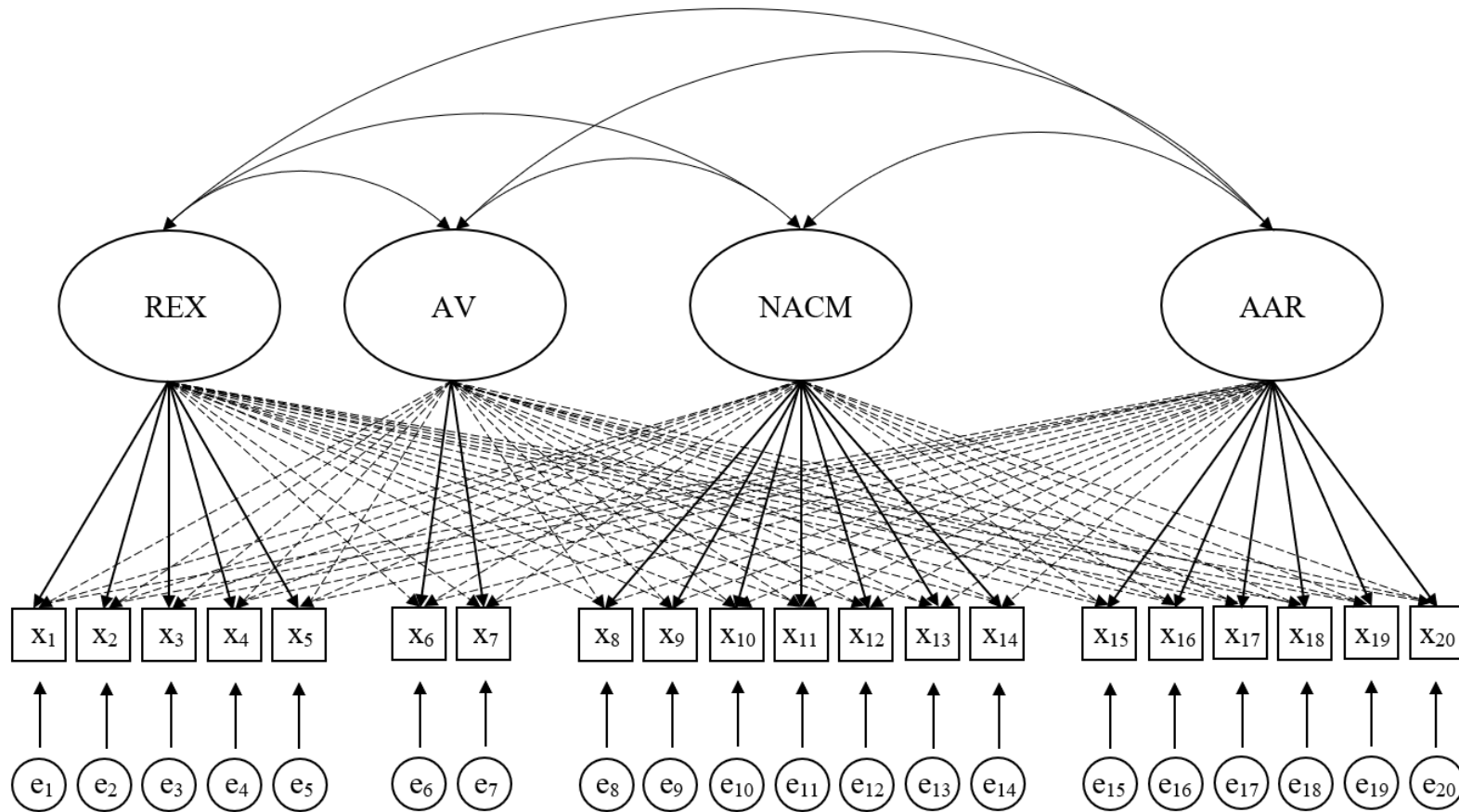
Supplemental Figure 2

Model structure of the 7-factor Hybrid model of PTSD in confirmatory factor analysis.

Note. X_1-X_{20} are PTSD symptoms 1-20; e_1-e_{20} are observed indicators PCL-5 items 1-20; REX Reexperiencing; AV = Avoidance; NA = Negative affect; AN = Anhedonia; EB = Externalizing behavior; AA = Anxious Arousal; DA = Dysphoric Arousal
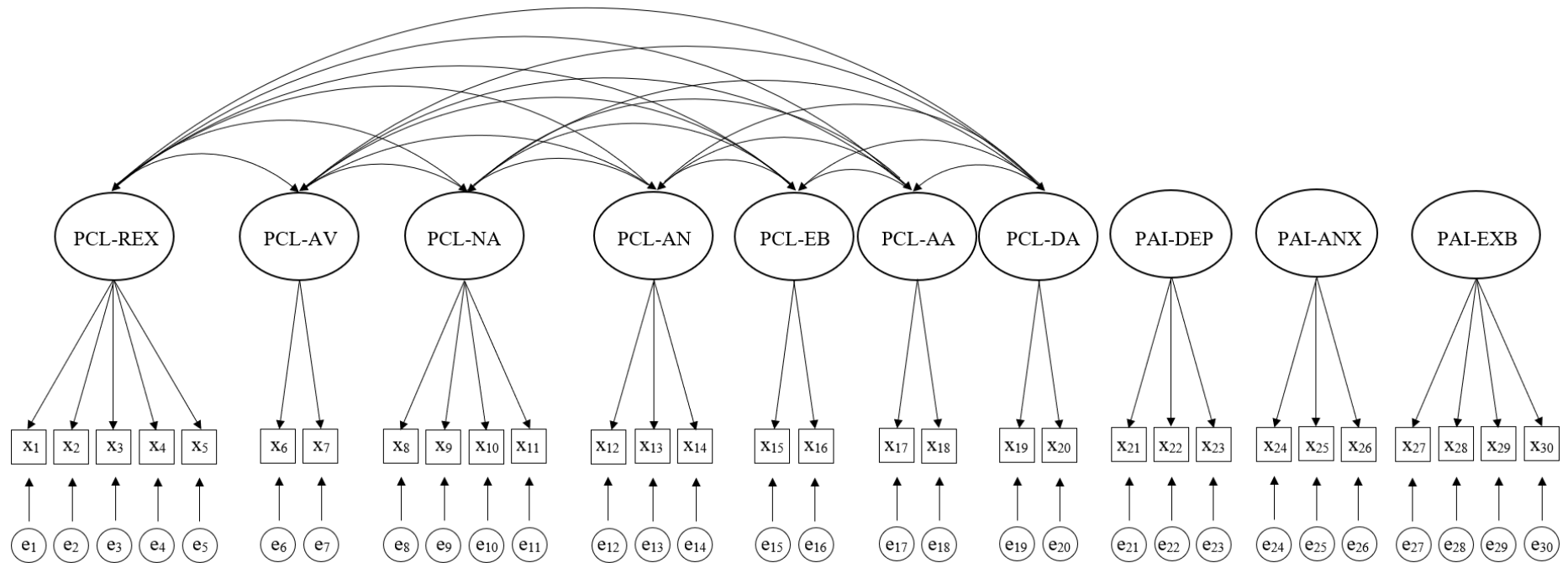
Supplemental Figure 3

Model structure of *DSM-5* PTSD in exploratory structural equation modeling.

Note. X_1-X_{20} are PTSD symptoms 1-20; e_1-e_{20} are observed indicators PCL-5 items 1-20; REX Reexperiencing; AV = Avoidance; NACM = Negative alterations in cognitions and mood; AAR = Alterations in arousal and reactivity; Solid lines represent primary factor loadings; Dotted lines represent secondary factor loadings (cross-loadings)
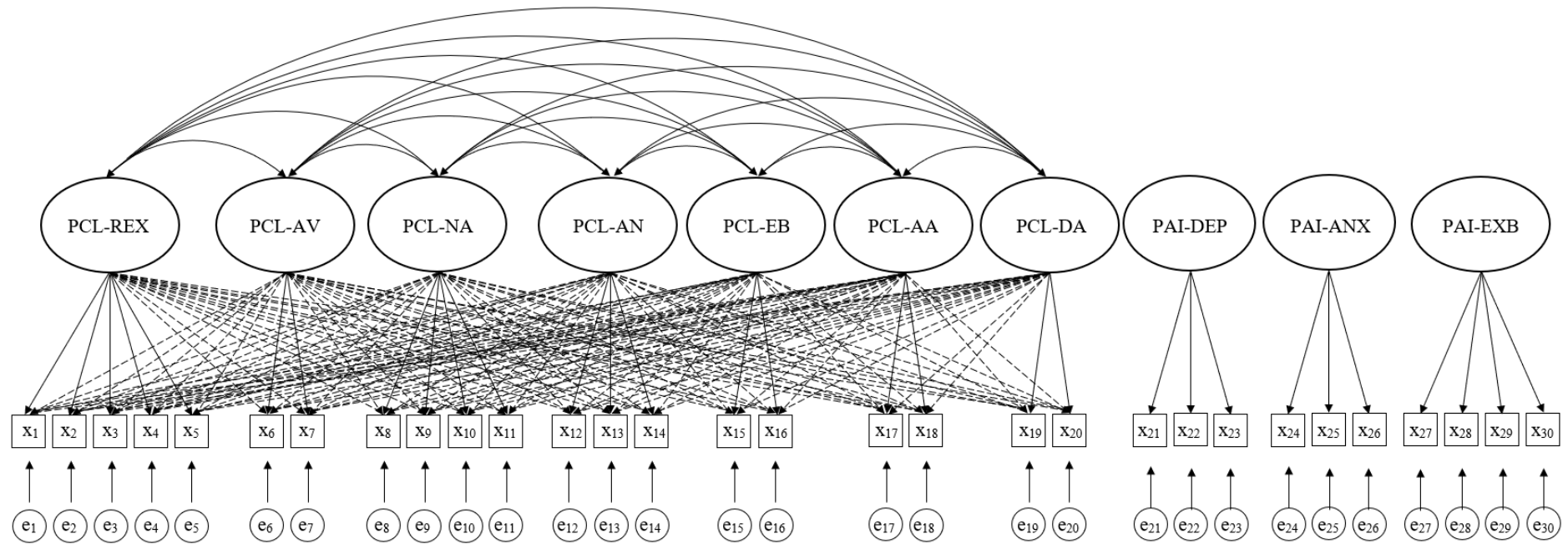
Supplemental Figure 4

Model structure of ten-factor CFA including PCL-5 and PAI latent variables.

Note. X_1-X_{20} are PTSD symptoms 1-20; X_{21}-X_{30} are symptoms of depression, anxiety, and externalizing behavior; e_1-e_{20} are PCL-5 items 1-20; e_{21} = PAI Depression Cognitive subscale (DEP-C); e_{22} = PAI Depression Affective subscale (DEP-A); e_{23} = PAI Depression Physiological subscale (DEP-P); e_{24} = PAI Anxiety Cognitive subscale (ANX-C); e_{25} = PAI Anxiety Affective subscale (ANX-A); e_{26} = PAI Anxiety Physiological subscale (ANX-P); e_{27} = PAI Antisocial Features scale (ANT); e_{28} = PAI Aggression scale (AGG); e_{29} = PAI Anxiety Alcohol Problems scale (ALC); e_{30} = PAI Drug Problems scale (DRG); PCL-REX Reexperiencing; PCL-AV = Avoidance; PCL-NACM = Negative alterations in cognitions and mood; PCL-AAR = Alterations in arousal and reactivity; PAI-DEP = Depression; PAI-ANX = Anxiety; PAI-EXB = Externalizing Behavior.

Supplemental Figure 5

Model structure of ten-factor ESEM including PCL-5 and PAI latent variables.

Note. X_1-X_{20} are PTSD symptoms 1-20; X_{21}-X_{30} are symptoms of depression, anxiety, and externalizing behavior; e_1-e_{20} are PCL-5 items 1-20; e_{21} = PAI Depression Cognitive subscale (DEP-C); e_{22} = PAI Depression Affective subscale (DEP-A); e_{23} = PAI Depression Physiological subscale (DEP-P); e_{24} = PAI Anxiety Cognitive subscale (ANX-C); e_{25} = PAI Anxiety Affective subscale (ANX-A); e_{26} = PAI Anxiety Physiological subscale (ANX-P); e_{27} = PAI Antisocial Features scale (ANT); e_{28} = PAI Aggression scale (AGG); e_{29} = PAI Anxiety Alcohol Problems scale (ALC); e_{30} = PAI Drug Problems scale (DRG); PCL- REX Reexperiencing; PCL-AV = Avoidance; PCL-NA = Negative affect; PCL-AN = Anhedonia; PCL-EB = Externalizing behavior; PCL-AA = Anxious Arousal; PCL-DA = Dysphoric Arousal; PAI-DEP = Depression; PAI-ANX = Anxiety; PAI-EXB = Externalizing Behavior; Solid lines represent primary factor loadings; Dotted lines represent secondary factor loadings (cross-loadings).

Supplemental Code

TITLE: 7-factor Hybrid ESEM on PCL-5;

DATA: FILE IS dataset.dat;

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USEVARIABLES ARE PCL1 PCL2 PCL3 PCL4 PCL5 PCL6 PCL7 PCL8 PCL9 PCL10
PCL11 PCL12 PCL13 PCL14 PCL15 PCL16 PCL17 PCL18 PCL19 PCL20;
IDVARIABLE=ID;
MISSING ARE ALL (-999);

ANALYSIS:
ESTIMATOR IS MLR;
ROTATION IS TARGET;

MODEL:
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PCL6~0 PCL7~0 PCL8~0 PCL9~0 PCL10~0 PCL11~0 PCL12~0 PCL13~0
PCL14~0 PCL15~0 PCL16~0 PCL17~0 PCL18~0 PCL19~0 PCL20~0 (*1);

avoid by PCL6 PCL7
PCL1~0 PCL2~0 PCL3~0 PCL4~0 PCL5~0 PCL8~0 PCL9~0 PCL10~0 PCL11~0 PCL12~0
PCL13~0 PCL14~0 PCL15~0 PCL16~0 PCL17~0 PCL18~0 PCL19~0 PCL20~0 (*1);

naegaf by PCL8 PCL9 PCL10 PCL11
PCL1~0 PCL2~0 PCL3~0 PCL4~0 PCL5~0 PCL6~0 PCL7~0 PCL12~0 PCL13~0 PCL14~0
PCL15~0 PCL16~0 PCL17~0 PCL18~0 PCL19~0 PCL20~0 (*1);

anhed by PCL12 PCL13 PCL14
PCL1~0 PCL2~0 PCL3~0 PCL4~0 PCL5~0 PCL6~0 PCL7~0 PCL8~0 PCL9~0 PCL10~0
PCL11~0 PCL15~0 PCL16~0 PCL17~0 PCL18~0 PCL19~0 PCL20~0 (*1);

extbeh by PCL15 PCL16
PCL1~0 PCL2~0 PCL3~0 PCL4~0 PCL5~0 PCL6~0 PCL7~0 PCL8~0 PCL9~0 PCL10~0
PCL11~0 PCL12~0 PCL13~0 PCL14~0 PCL17~0 PCL18~0 PCL19~0 PCL20~0 (*1);

anxar by PCL17 PCL18
PCL1~0 PCL2~0 PCL3~0 PCL4~0 PCL5~0 PCL6~0 PCL7~0 PCL8~0 PCL9~0 PCL10~0
PCL11~0 PCL12~0 PCL13~0 PCL14~0 PCL15~0 PCL16~0 PCL19~0 PCL20~0 (*1);

dysar by PCL19 PCL20
PCL1~0 PCL2~0 PCL3~0 PCL4~0 PCL5~0 PCL6~0 PCL7~0 PCL8~0 PCL9~0 PCL10~0
PCL11~0 PCL12~0 PCL13~0 PCL14~0 PCL15~0 PCL16~0 PCL17~0 PCL18~0 (*1);

OUTPUT: SAMPSTAT STANDARDIZED MODINDICES tech1 tech4;