

Mplus VERSION 7  
MUTHEN & MUTHEN  
12/29/2023 8:23 PM

INPUT INSTRUCTIONS

TITLE: CFA ICSA.  
  
DATA: FILE = ICSA MIMIC.dat;  
  
VARIABLE:  
NAMES = Dum\_JK Dum\_Rlg Dum\_Ets Dum\_SMhs Dum\_SPT Dum\_CYoS  
ICSA\_1-ICSA\_14;  
  
USEVARIABLES = ICSA\_1-ICSA\_14;  
  
ANALYSIS: ESTIMATOR = MLR;  
  
MODEL:  
ICSA BY ICSA\_1-ICSA\_14;  
  
OUTPUT: STDY MOD;

INPUT READING TERMINATED NORMALLY

CFA ICSA.

SUMMARY OF ANALYSIS

Number of groups	1
Number of observations	589
Number of dependent variables	14
Number of independent variables	0
Number of continuous latent variables	1

Observed dependent variables

Continuous					
ICSA_1	ICSA_2	ICSA_3	ICSA_4	ICSA_5	ICSA_6
ICSA_7	ICSA_8	ICSA_9	ICSA_10	ICSA_11	ICSA_12
ICSA_13	ICSA_14				

Continuous latent variables

ICSA

Estimator	MLR
Information matrix	OBSERVED
Maximum number of iterations	1000
Convergence criterion	0.500D-04
Maximum number of steepest descent iterations	20

Input data file(s)  
ICSA MIMIC.dat

Input data format FREE

THE MODEL ESTIMATION TERMINATED NORMALLY

MODEL FIT INFORMATION

Number of Free Parameters 42

Loglikelihood

H0 Value	-10618.372
H0 Scaling Correction Factor for MLR	1.4491
H1 Value	-10490.806
H1 Scaling Correction Factor for MLR	1.5608

Information Criteria

Akaike (AIC)	21320.744
Bayesian (BIC)	21504.638
Sample-Size Adjusted BIC ( $n^* = (n + 2) / 24$ )	21371.302

Chi-Square Test of Model Fit

Value	157.328*
Degrees of Freedom	77
P-Value	0.0000
Scaling Correction Factor for MLR	1.6216

\* The chi-square value for MLM, MLMV, MLR, ULSMV, WLSM and WLSMV cannot be used for chi-square difference testing in the regular way. MLM, MLR and WLSM chi-square difference testing is described on the Mplus website. MLMV, WLSMV, and ULSMV difference testing is done using the DIFFTEST option.

RMSEA (Root Mean Square Error Of Approximation)

Estimate	0.042
90 Percent C.I.	0.033 0.051
Probability RMSEA <= .05	0.916

CFI/TLI

CFI	0.921
TLI	0.906

Chi-Square Test of Model Fit for the Baseline Model

Value	1105.815
Degrees of Freedom	91
P-Value	0.0000

SRMR (Standardized Root Mean Square Residual)

Value	0.047
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MODEL RESULTS

Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
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ISCSA	BY				
ICSA_1		1.000	0.000	999.000	999.000
ICSA_2		1.281	0.170	7.551	0.000
ICSA_3		1.188	0.179	6.642	0.000
ICSA_4		1.225	0.185	6.617	0.000
ICSA_5		1.515	0.228	6.634	0.000
ICSA_6		1.331	0.203	6.552	0.000
ICSA_7		1.282	0.181	7.084	0.000
ICSA_8		1.375	0.188	7.295	0.000
ICSA_9		1.493	0.234	6.384	0.000
ICSA_10		1.369	0.172	7.940	0.000
ICSA_11		1.322	0.172	7.675	0.000
ICSA_12		1.376	0.190	7.233	0.000
ICSA_13		1.212	0.181	6.716	0.000
ICSA_14		1.412	0.176	8.004	0.000

Intercepts					
ICSA_1		3.295	0.033	98.464	0.000
ICSA_2		3.842	0.039	98.830	0.000
ICSA_3		3.929	0.040	98.401	0.000
ICSA_4		3.710	0.038	97.976	0.000
ICSA_5		3.407	0.042	80.851	0.000
ICSA_6		3.204	0.040	79.208	0.000
ICSA_7		3.538	0.037	96.916	0.000
ICSA_8		3.606	0.035	103.564	0.000
ICSA_9		3.416	0.045	75.557	0.000
ICSA_10		3.319	0.042	79.680	0.000
ICSA_11		3.679	0.036	103.502	0.000
ICSA_12		3.375	0.039	86.347	0.000
ICSA_13		3.248	0.047	69.038	0.000
ICSA_14		3.324	0.046	72.715	0.000

Variances					
ISCSA		0.144	0.034	4.202	0.000

Residual Variances					
ICSA_1		0.516	0.050	10.298	0.000
ICSA_2		0.654	0.065	9.995	0.000
ICSA_3		0.735	0.073	10.087	0.000
ICSA_4		0.628	0.052	12.006	0.000
ICSA_5		0.715	0.074	9.707	0.000
ICSA_6		0.708	0.058	12.306	0.000
ICSA_7		0.548	0.045	12.227	0.000
ICSA_8		0.442	0.043	10.330	0.000
ICSA_9		0.882	0.075	11.705	0.000
ICSA_10		0.752	0.065	11.532	0.000
ICSA_11		0.492	0.040	12.356	0.000
ICSA_12		0.627	0.061	10.289	0.000
ICSA_13		1.092	0.079	13.765	0.000
ICSA_14		0.943	0.075	12.630	0.000

STANDARDIZED MODEL RESULTS

STDY Standardization

	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
ISCSA				
ICSA_1	0.468	0.047	9.883	0.000
ICSA_2	0.516	0.045	11.434	0.000

ICSA_3	0.466	0.047	9.974	0.000
ICSA_4	0.506	0.044	11.471	0.000
ICSA_5	0.563	0.041	13.842	0.000
ICSA_6	0.515	0.041	12.613	0.000
ICSA_7	0.549	0.036	15.366	0.000
ICSA_8	0.618	0.040	15.577	0.000
ICSA_9	0.517	0.039	13.234	0.000
ICSA_10	0.514	0.042	12.199	0.000
ICSA_11	0.582	0.038	15.139	0.000
ICSA_12	0.551	0.040	13.815	0.000
ICSA_13	0.403	0.043	9.362	0.000
ICSA_14	0.483	0.043	11.204	0.000

Intercepts

ICSA_1	4.057	0.196	20.662	0.000
ICSA_2	4.072	0.182	22.333	0.000
ICSA_3	4.055	0.210	19.306	0.000
ICSA_4	4.037	0.155	26.079	0.000
ICSA_5	3.331	0.149	22.389	0.000
ICSA_6	3.264	0.139	23.514	0.000
ICSA_7	3.993	0.172	23.217	0.000
ICSA_8	4.267	0.169	25.201	0.000
ICSA_9	3.113	0.138	22.582	0.000
ICSA_10	3.283	0.132	24.865	0.000
ICSA_11	4.265	0.187	22.805	0.000
ICSA_12	3.558	0.163	21.792	0.000
ICSA_13	2.845	0.119	23.953	0.000
ICSA_14	2.996	0.127	23.562	0.000

Variances

ISCSA	1.000	0.000	999.000	999.000
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Residual Variances

ICSA_1	0.781	0.044	17.665	0.000
ICSA_2	0.734	0.046	15.791	0.000
ICSA_3	0.783	0.044	18.001	0.000
ICSA_4	0.744	0.045	16.647	0.000
ICSA_5	0.684	0.046	14.950	0.000
ICSA_6	0.735	0.042	17.485	0.000
ICSA_7	0.698	0.039	17.779	0.000
ICSA_8	0.618	0.049	12.618	0.000
ICSA_9	0.733	0.040	18.165	0.000
ICSA_10	0.736	0.043	16.963	0.000
ICSA_11	0.662	0.045	14.795	0.000
ICSA_12	0.697	0.044	15.853	0.000
ICSA_13	0.837	0.035	24.105	0.000
ICSA_14	0.766	0.042	18.378	0.000

R-SQUARE

Observed Variable	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
ICSA_1	0.219	0.044	4.941	0.000
ICSA_2	0.266	0.046	5.717	0.000
ICSA_3	0.217	0.044	4.987	0.000
ICSA_4	0.256	0.045	5.736	0.000
ICSA_5	0.316	0.046	6.921	0.000
ICSA_6	0.265	0.042	6.306	0.000
ICSA_7	0.302	0.039	7.683	0.000
ICSA_8	0.382	0.049	7.789	0.000
ICSA_9	0.267	0.040	6.617	0.000
ICSA_10	0.264	0.043	6.099	0.000

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ICSA_11	0.338	0.045	7.569	0.000
ICSA_12	0.303	0.044	6.908	0.000
ICSA_13	0.163	0.035	4.681	0.000
ICSA_14	0.234	0.042	5.602	0.000

QUALITY OF NUMERICAL RESULTS

Condition Number for the Information Matrix 0.541E-03  
(ratio of smallest to largest eigenvalue)

MODEL MODIFICATION INDICES

NOTE: Modification indices for direct effects of observed dependent variables regressed on covariates may not be included. To include these, request MODINDICES (ALL).

Minimum M.I. value for printing the modification index 10.000

	M.I.	E.P.C.	Std E.P.C.	StdYX E.P.C.
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WITH Statements

ICSA_8	WITH ICSA_4	12.530	0.109	0.109	0.207
ICSA_10	WITH ICSA_5	14.533	-0.161	-0.161	-0.219
ICSA_11	WITH ICSA_4	11.694	-0.110	-0.110	-0.198
ICSA_11	WITH ICSA_10	12.656	0.125	0.125	0.206

DIAGRAM INFORMATION

Use View Diagram under the Diagram menu in the Mplus Editor to view the diagram. If running Mplus from the Mplus Diagrammer, the diagram opens automatically.

Diagram output

d:\research\pdp 2023\data\mplus\icsa\icsa cfa.dgm

Beginning Time: 20:23:06  
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