

Appendix B. SEM model output with unstandardized and standardized parameter estimates

SEM model, unstandardized parameters

```
sem (DA -> D1 D2 D3 D4 D5 D6 D7) ///
(MA -> M1 M3 M5 M6 M7 M8 M9), ///
covstruct(_lexogenous, diagonal) method(mlmv) latent(DA MA ) ///
cov( DA@1 DA*MA e.D1*e.D2 e.D1*e.D3 e.D6*e.D7 ///
MA@1 e.M3*e.M5) means( DA@0 MA@0) nocapslatent
```

Endogenous variables

Measurement: D1 D2 D3 D4 D5 D6 D7 M1 M3 M5 M6 M7 M8 M9

Exogenous variables

Latent: DA MA

Fitting saturated model:

```
Iteration 0: log likelihood = -9003.3706
Iteration 1: log likelihood = -8997.7694
Iteration 2: log likelihood = -8997.6553
Iteration 3: log likelihood = -8997.6552
```

Fitting baseline model:

```
Iteration 0: log likelihood = -10330.968
Iteration 1: log likelihood = -10330.943
Iteration 2: log likelihood = -10330.943
```

Fitting target model:

```
Iteration 0: log likelihood = -9400.7225 (not concave)
Iteration 1: log likelihood = -9245.5222 (not concave)
Iteration 2: log likelihood = -9156.9711
Iteration 3: log likelihood = -9105.7863
Iteration 4: log likelihood = -9092.2796
Iteration 5: log likelihood = -9092.0466
Iteration 6: log likelihood = -9092.0465
```

Structural equation model

Number of obs = 674

Estimation method: mlmv

Log likelihood = -9092.0465

```
( 1) [ ]var(DA) = 1
( 2) [ ]var(MA) = 1
```

		OIM					[95% conf. interval]	
		Coefficient	std. err.	z	P> z			
Measurement		-----						
D1	DA	.3486842	.024949	13.98	0.000	.299785	.3975834	
	_cons	.9244126	.0243675	37.94	0.000	.8766532	.972172	
D2		-----						
	DA	.3888214	.0253654	15.33	0.000	.339106	.4385367	
	_cons	.8137719	.0252892	32.18	0.000	.764206	.8633377	
D3		-----						
	DA	.3941736	.0267853	14.72	0.000	.3416754	.4466718	
	_cons	1.528536	.0265495	57.57	0.000	1.4765	1.580572	

D4	DA	.5187783	.0271534	19.11	0.000	.4655586	.5719981
	_cons	1.397599	.0286939	48.71	0.000	1.34136	1.453838
D5	DA	.5655215	.0250344	22.59	0.000	.5164549	.6145881
	_cons	1.198423	.0274681	43.63	0.000	1.144587	1.25226
D6	DA	.451687	.0262365	17.22	0.000	.4002643	.5031096
	_cons	1.116315	.0267977	41.66	0.000	1.063793	1.168838
D7	DA	.4850119	.0253704	19.12	0.000	.4352869	.5347369
	_cons	1.309397	.0266232	49.18	0.000	1.257216	1.361577
M1	MA	.2450332	.032317	7.58	0.000	.181693	.3083734
	_cons	.4735249	.0265114	17.86	0.000	.4215635	.5254862
M3	MA	.4358736	.0406288	10.73	0.000	.3562427	.5155045
	_cons	1.557871	.0336245	46.33	0.000	1.491969	1.623774
M5	MA	.3174876	.0349667	9.08	0.000	.248954	.3860211
	_cons	1.682033	.0282872	59.46	0.000	1.626591	1.737475
M6	MA	.564611	.04103	13.76	0.000	.4841937	.6450282
	_cons	1.320031	.0338208	39.03	0.000	1.253743	1.386318
M7	MA	.2735698	.0354087	7.73	0.000	.2041701	.3429696
	_cons	1.019152	.028904	35.26	0.000	.9625017	1.075803
M8	MA	.316009	.0367879	8.59	0.000	.2439059	.388112
	_cons	.7539231	.0304473	24.76	0.000	.6942474	.8135987
M9	MA	.2944739	.0392457	7.50	0.000	.2175538	.371394
	_cons	.9448263	.0322884	29.26	0.000	.8815422	1.00811
	var(e.D1)	.2772418	.0159373			.2477007	.3103059
	var(e.D2)	.2780465	.0173755			.2459942	.3142752
	var(e.D3)	.3153143	.0194907			.2793366	.3559258
	var(e.D4)	.2727252	.0189302			.2380359	.31247
	var(e.D5)	.1825767	.0157442			.1541854	.2161959
	var(e.D6)	.2771729	.0181754			.2437439	.3151866
	var(e.D7)	.2384281	.0165656			.2080738	.2732106
	var(e.M1)	.4103434	.0244338			.3651429	.4611392
	var(e.M3)	.5654357	.0382852			.495164	.64568
	var(e.M5)	.42057	.0273808			.3701873	.4778097
	var(e.M6)	.4454257	.0397492			.3739514	.5305612
	var(e.M7)	.4812024	.0289572			.4276665	.5414399
	var(e.M8)	.5214561	.0318201			.462675	.587705
	var(e.M9)	.6110143	.0362391			.5439599	.6863346
	var(DA)	1	(constrained)				
	var(MA)	1	(constrained)				
	cov(e.D1,e.D2)	.1435695	.0134754	10.65	0.000	.1171583	.1699808
	cov(e.D1,e.D3)	.0560801	.0110049	5.10	0.000	.0345109	.0776494
	cov(e.D6,e.D7)	.1053647	.0138636	7.60	0.000	.0781926	.1325367
	cov(e.M3,e.M5)	.1694005	.0252511	6.71	0.000	.1199093	.2188918
	cov(DA,MA)	.4027982	.0478745	8.41	0.000	.3089659	.4966305

LR test of model vs. saturated: $\chi^2(72) = 188.78$

Prob > $\chi^2 = 0.0000$

SEM model, standardized parameters

```
sem (DA -> D1 D2 D3 D4 D5 D6 D7) ///
(MA -> M1 M3 M5 M6 M7 M8 M9), ///
covstruct(_lexogenous, diagonal) method(mlmv) latent(DA MA ) ///
cov( DA@1 DA*MA e.D1*e.D2 e.D1*e.D3 e.D6*e.D7 ///
MA@1 e.M3*e.M5) means( DA@0 MA@0) nocapslatent ///
standardized
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Endogenous variables

Measurement: D1 D2 D3 D4 D5 D6 D7 M1 M3 M5 M6 M7 M8 M9

Exogenous variables

Latent: DA MA

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```

Structural equation model
Estimation method: mlmv

Number of obs = 674

Log likelihood = -9092.0465

- (1) []var(DA) = 1
- (2) []var(MA) = 1

		OIM					
Standardized		Coefficient	std. err.	z	P> z	[95% conf. interval]	

Measurement							
D1	DA	.5521314	.0312781	17.65	0.000	.4908275	.6134354
	_cons	1.463781	.0552059	26.51	0.000	1.355579	1.571983

D2	DA	.5934796	.0299261	19.83	0.000	.5348255	.6521338
	_cons	1.242105	.0513869	24.17	0.000	1.141389	1.342822

D3	DA	.5745415	.0307952	18.66	0.000	.514184	.634899
	_cons	2.227971	.0722038	30.86	0.000	2.086454	2.369488

D4	DA	.7047577	.0246295	28.61	0.000	.6564848	.7530306
	_cons	1.898631	.065287	29.08	0.000	1.770671	2.026592

D5	DA	.7978625	.0206478	38.64	0.000	.7573937	.8383314
	_cons	1.690788	.060418	27.98	0.000	1.572371	1.809205

D6	DA	.6511446	.0274026	23.76	0.000	.5974366	.7048526
	_cons	1.609262	.0584756	27.52	0.000	1.494652	1.723872
D7	DA	.7047205	.024738	28.49	0.000	.6562349	.7532061
	_cons	1.902549	.0649566	29.29	0.000	1.775236	2.029861
M1	MA	.3572715	.0442704	8.07	0.000	.270503	.4440399
	_cons	.6904246	.0430247	16.05	0.000	.6060977	.7747515
M3	MA	.5014942	.0414454	12.10	0.000	.4202626	.5827257
	_cons	1.792408	.0625061	28.68	0.000	1.669899	1.914918
M5	MA	.4396979	.0442702	9.93	0.000	.3529299	.5264659
	_cons	2.329497	.0757595	30.75	0.000	2.181011	2.477983
M6	MA	.6458662	.0390259	16.55	0.000	.5693768	.7223556
	_cons	1.510001	.0566647	26.65	0.000	1.398941	1.621062
M7	MA	.3668716	.0444832	8.25	0.000	.2796861	.454057
	_cons	1.366737	.0538633	25.37	0.000	1.261167	1.472307
M8	MA	.400906	.0431015	9.30	0.000	.3164285	.4853835
	_cons	.9564673	.0466249	20.51	0.000	.8650841	1.047851
M9	MA	.3525359	.0441984	7.98	0.000	.2659086	.4391632
	_cons	1.13112	.0494899	22.86	0.000	1.034121	1.228118
	var(e.D1)	.6951509	.0345393			.6306469	.7662524
	var(e.D2)	.6477819	.0355211			.5817726	.7212809
	var(e.D3)	.6699021	.0353863			.6040158	.7429753
	var(e.D4)	.5033166	.0347156			.4396739	.5761716
	var(e.D5)	.3634154	.0329481			.3042505	.4340856
	var(e.D6)	.5760107	.0356861			.510147	.6503778
	var(e.D7)	.503369	.0348667			.4394673	.5765626
	var(e.M1)	.8723571	.0316331			.8125092	.9366132
	var(e.M3)	.7485036	.0415693			.6713069	.8345775
	var(e.M5)	.8066657	.038931			.73386	.8866945
	var(e.M6)	.5828568	.050411			.4919736	.690529
	var(e.M7)	.8654052	.0326392			.8037408	.9318007
	var(e.M8)	.8392744	.0345593			.7742006	.9098178
	var(e.M9)	.8757184	.0311631			.8167213	.9389773
	var(DA)	1	(constrained)				
	var(MA)	1	(constrained)				
	cov(e.D1,e.D2)	.5170997	.0304622	16.98	0.000	.457395	.5768044
	cov(e.D1,e.D3)	.1896741	.0349009	5.43	0.000	.1212696	.2580785
	cov(e.D6,e.D7)	.4098651	.0380125	10.78	0.000	.3353619	.4843683
	cov(e.M3,e.M5)	.3473794	.0401006	8.66	0.000	.2687838	.425975
	cov(DA,MA)	.4027982	.0478745	8.41	0.000	.3089659	.4966305

LR test of model vs. saturated: $\chi^2(72) = 188.78$

Prob > $\chi^2 = 0.0000$

Appendix to:

Variation in attitudes toward diagnosis and medication of ADHD: a survey among clinicians in the Norwegian child and adolescent mental health services. *Eur Child Adolesc Psychiatry*

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