

ภาคผนวก ฅ

การวิเคราะห์องค์ประกอบเชิงยืนยันอันดับหนึ่งมาตรวัดสมรรถนะครูปฐมวัยของ
ศูนย์พัฒนาเด็กเล็ก

ผลการวิเคราะห์องค์ประกอบเชิงยืนยันอันดับหนึ่งมาตรวจวัดสมรรถนะครูปฐมวัยของศูนย์พัฒนาเด็กเล็ก
(นำเสนอในส่วนสำคัญ)

Estimates (Group number 1 - Default model)

Scalar Estimates (Group number 1 - Default model)

Maximum Likelihood Estimates

Regression Weights: (Group number 1 - Default model)

	Estimate	S.E.	C.R.	P	Label
DI22 <--- DISP	1.000				
DI20 <--- DISP	.877	.050	17.373	***	
DI18 <--- DISP	.934	.062	15.040	***	
DI16 <--- DISP	1.018	.062	16.309	***	
DI15 <--- DISP	1.066	.060	17.876	***	
DI13 <--- DISP	1.024	.064	15.955	***	
DI12 <--- DISP	1.071	.062	17.278	***	
DI11 <--- DISP	1.091	.067	16.184	***	
DI10 <--- DISP	1.025	.064	16.079	***	
DI9 <--- DISP	1.045	.065	16.153	***	
DI8 <--- DISP	1.037	.060	17.283	***	
DI7 <--- DISP	.884	.059	15.057	***	
DI6 <--- DISP	.907	.061	14.900	***	
SY13 <--- SYNT	1.000				
SY9 <--- SYNT	1.123	.067	16.762	***	
SY8 <--- SYNT	1.112	.060	18.496	***	
SY6 <--- SYNT	1.179	.067	17.726	***	
SY5 <--- SYNT	1.150	.074	15.586	***	
SY4 <--- SYNT	1.093	.067	16.331	***	
SY3 <--- SYNT	1.067	.067	15.875	***	
CR13 <--- CREA	1.000				
CR10 <--- CREA	.998	.082	12.109	***	
CR9 <--- CREA	1.033	.078	13.214	***	
CR7 <--- CREA	.995	.079	12.658	***	
CR6 <--- CREA	1.121	.080	14.075	***	
CR5 <--- CREA	1.036	.073	14.291	***	
CR4 <--- CREA	1.057	.069	15.342	***	
CR3 <--- CREA	1.056	.074	14.360	***	

	Estimate	S.E.	C.R.	P	Label
RE13 <--- RESP	1.000				
RE12 <--- RESP	1.089	.062	17.505	***	
RE9 <--- RESP	1.178	.061	19.358	***	
RE8 <--- RESP	1.159	.063	18.387	***	
RE7 <--- RESP	1.160	.059	19.813	***	
RE6 <--- RESP	1.123	.059	18.925	***	
RE5 <--- RESP	1.074	.059	18.164	***	
RE4 <--- RESP	1.071	.061	17.685	***	
RE3 <--- RESP	1.005	.059	17.173	***	
ET17 <--- ETHI	1.000				
ET16 <--- ETHI	1.021	.033	31.301	***	
ET15 <--- ETHI	.955	.037	25.816	***	
ET14 <--- ETHI	.992	.050	19.993	***	
ET13 <--- ETHI	.969	.047	20.494	***	
ET12 <--- ETHI	.997	.048	20.821	***	
ET11 <--- ETHI	.996	.048	20.790	***	
ET10 <--- ETHI	.995	.048	20.788	***	
ET9 <--- ETHI	.943	.048	19.711	***	
ET8 <--- ETHI	1.024	.048	21.322	***	
ET7 <--- ETHI	1.031	.050	20.747	***	
ET6 <--- ETHI	1.008	.049	20.559	***	
ET5 <--- ETHI	1.004	.049	20.446	***	
ET4 <--- ETHI	.975	.051	19.255	***	
CR14 <--- CREA	1.126	.066	17.037	***	
RE14 <--- RESP	1.065	.048	22.083	***	
ET20 <--- ETHI	.920	.032	28.592	***	

Standardized Regression Weights: (Group number 1 - Default model)

	Estimate
DI22 <--- DISP	.733
DI20 <--- DISP	.672
DI18 <--- DISP	.660

	Estimate
DI16 <--- DISP	.717
DI15 <--- DISP	.778
DI13 <--- DISP	.760
DI12 <--- DISP	.760
DI11 <--- DISP	.763
DI10 <--- DISP	.738
DI9 <--- DISP	.756
DI8 <--- DISP	.759
DI7 <--- DISP	.662
DI6 <--- DISP	.657
SY13 <--- SYNT	.711
SY9 <--- SYNT	.759
SY8 <--- SYNT	.759
SY6 <--- SYNT	.792
SY5 <--- SYNT	.751
SY4 <--- SYNT	.738
SY3 <--- SYNT	.715
CR13 <--- CREA	.642
CR10 <--- CREA	.592
CR9 <--- CREA	.654
CR7 <--- CREA	.619
CR6 <--- CREA	.706
CR5 <--- CREA	.722
CR4 <--- CREA	.743
CR3 <--- CREA	.725
RE13 <--- RESP	.749
RE12 <--- RESP	.738
RE9 <--- RESP	.805
RE8 <--- RESP	.771
RE7 <--- RESP	.827
RE6 <--- RESP	.789
RE5 <--- RESP	.764
RE4 <--- RESP	.748

	Estimate
RE3 <--- RESP	.723
ET17 <--- ETHI	.809
ET16 <--- ETHI	.793
ET15 <--- ETHI	.774
ET14 <--- ETHI	.790
ET13 <--- ETHI	.777
ET12 <--- ETHI	.786
ET11 <--- ETHI	.788
ET10 <--- ETHI	.772
ET9 <--- ETHI	.757
ET8 <--- ETHI	.800
ET7 <--- ETHI	.783
ET6 <--- ETHI	.774
ET5 <--- ETHI	.776
ET4 <--- ETHI	.737
CR14 <--- CREA	.758
RE14 <--- RESP	.774
ET20 <--- ETHI	.747

Squared Multiple Correlations: (Group number 1 - Default model)

	Estimate
ET20	.558
RE14	.599
CR14	.575
ET4	.543
ET5	.602
ET6	.600

	Estimate
ET7	.613
ET8	.640
ET9	.573
ET10	.596
ET11	.621
ET12	.618
ET13	.604
ET14	.624
ET15	.599
ET16	.629
ET17	.655
RE3	.523
RE4	.560
RE5	.584
RE6	.622
RE7	.685
RE8	.595
RE9	.649
RE12	.544
RE13	.561
CR3	.526
CR4	.552
CR5	.522
CR6	.498
CR7	.384
CR9	.427
CR10	.351
CR13	.412
SY3	.511
SY4	.545
SY5	.565
SY6	.627
SY8	.576

	Estimate
SY9	.576
SY13	.505
DI6	.431
DI7	.438
DI8	.575
DI9	.572
DI10	.545
DI11	.582
DI12	.578
DI13	.578
DI15	.606
DI16	.514
DI18	.436
DI20	.452
DI22	.538

Model	NPAR	CMIN	DF	P	CMIN/DF
Default model	403	1288.764	1082	.000	1.191
Saturated model	1485	.000	0		
Independence model	54	24118.596	1431	.000	16.854

Model	RMR	GFI	AGFI	PGFI
Default model	.013	.919	.889	.670
Saturated model	.000	1.000		
Independence model	.176	.079	.044	.076

Model	NFI	RFI	IFI	TLI	CFI
	Delta1	rho1	Delta2	rho2	
Default model	.947	.929	.991	.988	.991
Saturated model	1.000		1.000		1.000

Model	NFI Delta1	RFI rho1	IFI Delta2	TLI rho2	CFI
Independence model	.000	.000	.000	.000	.000
Model	PRATIO	PNFI	PCFI		
Default model	.756	.716	.749		
Saturated model	.000	.000	.000		
Independence model	1.000	.000	.000		
Model	NCP	LO 90	HI 90		
Default model	206.764	120.897	300.854		
Saturated model	.000	.000	.000		
Independence model	22687.596	22187.545	23194.057		
Model	FMIN	F0	LO 90	HI 90	
Default model	2.450	.393	.230	.572	
Saturated model	.000	.000	.000	.000	
Independence model	45.853	43.132	42.182	44.095	
Model	RMSEA	LO 90	HI 90	PCLOSE	
Default model	.019	.015	.023	1.000	
Independence model	.174	.172	.176	.000	
Model	AIC	BCC	BIC	CAIC	
Default model	2094.764	2188.883	3814.446	4217.446	
Saturated model	2970.000	3316.815	9306.793	10791.793	
Independence model	24226.596	24239.208	24457.025	24511.025	
Model	ECVI	LO 90	HI 90	MECVI	
Default model	3.982	3.819	4.161	4.161	
Saturated model	5.646	5.646	5.646	6.306	
Independence model	46.058	45.107	47.021	46.082	
Model	HOELTER	HOELTER			
	.05	.01			
Default model	474	487			
Independence model	34	34			

Minimization: .577

Miscellaneous: 2.871

Bootstrap: .000

Total: 3.448

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(นำเสนอในส่วนสำคัญ)

Scalar Estimates (Group number 1 - Default model)

Maximum Likelihood Estimates

Regression Weights: (Group number 1 - Default model)

	Estimate	S.E.	C.R.	P	Label
DISP <--- COMPET	1.000				
SYNT <--- COMPET	1.044	.072	14.579	***	
CREA <--- COMPET	1.101	.086	12.836	***	
RESP <--- COMPET	1.068	.075	14.303	***	
ETHI <--- COMPET	.999	.071	14.079	***	
DI22 <--- DISP	1.000				
DI20 <--- DISP	.879	.050	17.490	***	
DI18 <--- DISP	.938	.061	15.312	***	
DI16 <--- DISP	.982	.061	16.022	***	

	Estimate	S.E.	C.R.	P	Label
DI15 <--- DISP	1.058	.059	17.940	***	
DI13 <--- DISP	.975	.063	15.595	***	
DI12 <--- DISP	1.057	.061	17.265	***	
DI11 <--- DISP	1.075	.067	16.105	***	
DI10 <--- DISP	.972	.063	15.480	***	
DI9 <--- DISP	1.031	.064	16.211	***	
DI8 <--- DISP	1.028	.059	17.347	***	
DI7 <--- DISP	.866	.058	14.933	***	
DI6 <--- DISP	.900	.060	14.951	***	
SY13 <--- SYNT	1.000				
SY9 <--- SYNT	1.104	.066	16.817	***	
SY8 <--- SYNT	1.092	.059	18.524	***	
SY6 <--- SYNT	1.171	.065	18.040	***	
SY5 <--- SYNT	1.134	.072	15.849	***	
SY4 <--- SYNT	1.079	.066	16.406	***	
SY3 <--- SYNT	1.064	.066	16.110	***	
CR13 <--- CREA	1.000				
CR10 <--- CREA	.987	.082	12.041	***	
CR9 <--- CREA	1.032	.078	13.236	***	
CR7 <--- CREA	1.001	.078	12.752	***	
CR6 <--- CREA	1.118	.080	14.021	***	
CR5 <--- CREA	1.056	.073	14.479	***	
CR4 <--- CREA	1.062	.070	15.084	***	
CR3 <--- CREA	1.049	.073	14.349	***	
RE13 <--- RESP	1.000				
RE12 <--- RESP	1.047	.061	17.082	***	
RE9 <--- RESP	1.154	.060	19.160	***	
RE8 <--- RESP	1.169	.066	17.826	***	
RE7 <--- RESP	1.143	.058	19.806	***	
RE6 <--- RESP	1.133	.058	19.376	***	
RE5 <--- RESP	1.091	.058	18.806	***	
RE4 <--- RESP	1.043	.060	17.501	***	
RE3 <--- RESP	.999	.058	17.240	***	

	Estimate	S.E.	C.R.	P	Label
ET17 <--- ETHI	1.000				
ET16 <--- ETHI	1.013	.034	30.152	***	
ET15 <--- ETHI	.954	.038	25.187	***	
ET14 <--- ETHI	.990	.048	20.554	***	
ET13 <--- ETHI	.974	.048	20.479	***	
ET12 <--- ETHI	1.008	.050	20.133	***	
ET11 <--- ETHI	.972	.049	19.983	***	
ET10 <--- ETHI	.991	.049	20.127	***	
ET9 <--- ETHI	.942	.048	19.467	***	
ET8 <--- ETHI	1.032	.048	21.507	***	
ET7 <--- ETHI	1.042	.050	20.897	***	
ET6 <--- ETHI	1.023	.049	20.679	***	
ET5 <--- ETHI	1.015	.049	20.551	***	
ET4 <--- ETHI	.988	.052	19.051	***	
CR14 <--- CREA	1.126	.065	17.376	***	
RE14 <--- RESP	1.017	.047	21.682	***	
ET20 <--- ETHI	.925	.032	28.645	***	

Standardized Regression Weights: (Group number 1 - Default model)

	Estimate
DISP <--- COMPET	.819
SYNT <--- COMPET	.926
CREA <--- COMPET	.980
RESP <--- COMPET	.924
ETHI <--- COMPET	.798
DI22 <--- DISP	.739
DI20 <--- DISP	.684
DI18 <--- DISP	.672
DI16 <--- DISP	.701
DI15 <--- DISP	.778
DI13 <--- DISP	.733
DI12 <--- DISP	.756
DI11 <--- DISP	.764
DI10 <--- DISP	.708

	Estimate
DI9 <--- DISP	.757
DI8 <--- DISP	.758
DI7 <--- DISP	.657
DI6 <--- DISP	.658
SY13 <--- SYNT	.718
SY9 <--- SYNT	.756
SY8 <--- SYNT	.755
SY6 <--- SYNT	.796
SY5 <--- SYNT	.754
SY4 <--- SYNT	.739
SY3 <--- SYNT	.722
CR13 <--- CREA	.641
CR10 <--- CREA	.588
CR9 <--- CREA	.657
CR7 <--- CREA	.625
CR6 <--- CREA	.705
CR5 <--- CREA	.735
CR4 <--- CREA	.749
CR3 <--- CREA	.724
RE13 <--- RESP	.754
RE12 <--- RESP	.718
RE9 <--- RESP	.794
RE8 <--- RESP	.779
RE7 <--- RESP	.820
RE6 <--- RESP	.801
RE5 <--- RESP	.780
RE4 <--- RESP	.734
RE3 <--- RESP	.722
ET17 <--- ETHI	.813
ET16 <--- ETHI	.781
ET15 <--- ETHI	.766
ET14 <--- ETHI	.776
ET13 <--- ETHI	.776

	Estimate
ET12 <--- ETHI	.787
ET11 <--- ETHI	.762
ET10 <--- ETHI	.763
ET9 <--- ETHI	.752
ET8 <--- ETHI	.802
ET7 <--- ETHI	.784
ET6 <--- ETHI	.776
ET5 <--- ETHI	.778
ET4 <--- ETHI	.735
CR14 <--- CREA	.753
RE14 <--- RESP	.747
ET20 <--- ETHI	.747

Squared Multiple Correlations: (Group number 1 - Default model)

	Estimate
ETHI	.637
RESP	.854
CREA	.961
SYNT	.857
DISP	.671
ET20	.558
RE14	.558
CR14	.567
ET4	.540
ET5	.605
ET6	.602
ET7	.615
ET8	.643
ET9	.565
ET10	.583
ET11	.581
ET12	.620
ET13	.602
ET14	.603

	Estimate
ET15	.587
ET16	.609
ET17	.661
RE3	.522
RE4	.539
RE5	.609
RE6	.642
RE7	.673
RE8	.607
RE9	.631
RE12	.516
RE13	.568
CR3	.524
CR4	.560
CR5	.540
CR6	.497
CR7	.391
CR9	.431
CR10	.346
CR13	.411
SY3	.521
SY4	.546
SY5	.569
SY6	.633
SY8	.570
SY9	.572
SY13	.516
DI6	.432
DI7	.431
DI8	.575
DI9	.572
DI10	.501
DI11	.584

	Estimate
DI12	.571
DI13	.538
DI15	.606
DI16	.491
DI18	.452
DI20	.468
DI22	.546

Model Fit Summary

CMIN

Model	NPAR	CMIN	DF	P	CMIN/DF
Default model	387	1272.795	1098	.000	1.159
Saturated model	1485	.000	0		
Independence model	54	24118.596	1431	.000	16.854

RMR, GFI

Model	RMR	GFI	AGFI	PGFI
Default model	.013	.920	.892	.680
Saturated model	.000	1.000		
Independence model	.176	.079	.044	.076

Baseline Comparisons

Model	NFI	RFI	IFI	TLI	CFI
	Delta1	rho1	Delta2	rho2	
Default model	.947	.931	.992	.990	.992
Saturated model	1.000		1.000		1.000
Independence model	.000	.000	.000	.000	.000

Parsimony-Adjusted Measures

Model	PRATIO	PNFI	PCFI
Default model	.767	.727	.761
Saturated model	.000	.000	.000
Independence model	1.000	.000	.000

NCP

Model	NCP	LO 90	HI 90
Default model	174.795	90.404	267.452

Model	NCP	LO 90	HI 90
Saturated model	.000	.000	.000
Independence model	22687.596	22187.545	23194.057

FMIN

Model	FMIN	F0	LO 90	HI 90
Default model	2.420	.332	.172	.508
Saturated model	.000	.000	.000	.000
Independence model	45.853	43.132	42.182	44.095

RMSEA

Model	RMSEA	LO 90	HI 90	PCLOSE
Default model	.017	.013	.022	1.000
Independence model	.174	.172	.176	.000

AIC

Model	AIC	BCC	BIC	CAIC
Default model	2046.795	2137.177	3698.202	4085.202
Saturated model	2970.000	3316.815	9306.793	10791.793
Independence model	24226.596	24239.208	24457.025	24511.025

ECVI

Model	ECVI	LO 90	HI 90	MECVI
Default model	3.891	3.731	4.067	4.063
Saturated model	5.646	5.646	5.646	6.306
Independence model	46.058	45.107	47.021	46.082

HOELTER

Model	HOELTER	HOELTER
	.05	.01
Default model	487	501
Independence model	34	34

Minimization: .499

Miscellaneous: 3.011

Bootstrap: .000

Total: 3.510

