

Supplemental Material

Appendix

Construct Validity of the BASC-3 Teacher Rating Scales: Independent Hierarchical Exploratory Factor Analyses of the Normative Sample

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BASC-3 Teacher Rating Scale-Preschool Exploratory Factor Analysis of Clinical and Adaptive Scales: Four Oblique Factor Solution for the Standardization Sample (N = 500)

Table A2

BASC-3 Teacher Rating Scale-Preschool Exploratory Factor Analysis of Clinical and Adaptive Scales: Three Oblique Factor Solution for the Standardization Sample (N = 500)

Table A3

BASC-3 Teacher Rating Scale-Preschool Exploratory Factor Analysis of Clinical Scales: Four Oblique Factor Solution for the Standardization Sample (N = 500)

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Table A9

BASC-3 Teacher Rating Scale-Adolescent Exploratory Factor Analysis of Clinical Scales: Two Oblique Factor Solution for the Standardization General Norm Sample (N = 600)

Figure A1

BASC-3 Teacher Rating Scale-Preschool Sources of Clinical Scales Variance for the Standardization Sample (N = 500)

Figure A2

BASC-3 Teacher Rating Scale-Child Sources of Clinical Scales Variance for the Standardization Sample (N = 600)

Figure A3

BASC-3 Teacher Rating Scale-Adolescent Sources of Clinical Scales Variance for the Standardization Sample (N = 600)

Table A1

BASC-3 Teacher Rating Scale-Preschool Exploratory Factor Analysis of Clinical and Adaptive Scales: Four Oblique Factor Solution for the Standardization Sample (N = 500)

BASC-3 Scale	General	F1: Adaptive Skills		F2: Internalizing		F3: Externalizing		F4: Undefined		<i>h</i> ²
	<i>S</i>	<i>P</i>	<i>S</i>	<i>P</i>	<i>S</i>	<i>P</i>	<i>S</i>	<i>P</i>	<i>S</i>	
Social Skills	-.613	.947	.806	.225	-.190	.026	-.393	.072	-.251	.692
Functional Communication	-.683	.871	.841	.078	-.272	.083	-.389	-.154	-.447	.747
Adaptability	-.746	.718	.779	-.167	-.516	-.046	-.539	.118	-.135	.655
Hyperactivity	.715	.104	-.481	-.115	.384	1.014	.905	.153	.202	.855
Aggression	.754	-.010	-.507	.180	.602	.777	.872	-.092	-.022	.793
Anxiety	.549	.053	-.320	.876	.795	-.107	.343	.109	.088	.652
Somatization	.299	.214	-.103	.597	.500	-.003	.206	.140	.070	.286
Depression	.765	-.055	-.506	.667	.851	.297	.682	-.064	-.015	.798
Atypicality	.718	-.113	-.570	<i>.396</i>	<i>.564</i>	.211	<i>.527</i>	.451	.511	.630
Withdrawal	.674	-.383	-.623	.507	.593	-.167	.352	<i>.309</i>	.431	.614
Attention Problems	.741	-.436	-.719	-.190	.295	.533	.697	.182	.375	.697
Eigenvalue		5.29		1.68		1.16		.65		
% Variance		45.23		11.73		8.00		2.47		
<u>Promax Based Factor Correlations</u>		F1		F2		F3		F4		
F1: Adaptive Skills		-								
F2: Internalizing		-.453		-						
F3: Externalizing		-.576		.538		-				
F4: Undefined		-.345		.007		.084		-		

Note. *S* = Structure Coefficient, *P* = Pattern Coefficient, *h*² = Communality. General structure coefficients are based on the first unrotated factor coefficients (*g* loadings). Salient pattern coefficients presented in bold (pattern coefficient $\geq .40$) and aligned (.30-.39) in italic. Due to Heywood case in communality estimation, extraction was limited to two iterations as per Gorsuch (2003).

Table A2

BASC-3 Teacher Rating Scale-Preschool Exploratory Factor Analysis of Clinical and Adaptive Scales: Three Oblique Factor Solution for the Standardization Sample (N = 500)

BASC-3 Scale	F1:		F2:		F3:		<i>h</i> ²	
	General <i>S</i>	Adaptive Skills <i>P</i>	Internalizing <i>S</i>		Externalizing <i>P</i>			
Functional Communication	-.693	-.973	-.877	.078	-.325	.107	-.395	.786
Social Skills	-.613	-.895	-.797	.215	-.210	-.006	-.393	.670
Adaptability	-.739	-.601	-.741	-.175	-.512	-.103	-.529	.589
Attention Problems	.737	.529	.725	-.158	.342	.484	.697	.667
Withdrawal	.671	.505	.640	.495	.642	-.175	.363	.578
Anxiety	.558	-.063	.308	.914	.829	-.107	.331	.703
Depression	.762	-.027	.472	.663	.823	.334	.663	.755
Somatization	.299	-.168	.104	.588	.505	-.009	.202	.278
Atypicality	.707	.330	.596	.387	.620	.151	.535	.517
Hyperactivity	.733	-.047	.479	-.124	.397	1.049	.958	.933
Aggression	.747	-.043	.475	.201	.575	.760	.840	.733
Eigenvalue		5.29		1.68		1.16		
% Variance		45.20		11.93		8.40		
<u>Promax Based Factor Correlations</u>		F1		F2		F3		
F1: Adaptive Skills		–						
F2: Internalizing		-.453		–				
F3: Externalizing		-.576		.538		–		

Note. *S* = Structure Coefficient, *P* = Pattern Coefficient, *h*² = Communality. General structure coefficients are based on the first unrotated factor coefficients (*g* loadings). Salient pattern coefficients presented in bold (pattern coefficient ≥ .40) and aligned (.30-.39) in italic. Due to Heywood case in communality estimation, extraction was limited to two iterations as per Gorsuch (2003).

Table A3

BASC-3 Teacher Rating Scale-Preschool Exploratory Factor Analysis of Clinical Scales: Four Oblique Factor Solution for the Standardization Sample (N = 500)

BASC-3 Scale	General	F1: Externalizing		F2: Internalizing		F3: Social Disengagement		F4: Undefined		<i>h</i> ²
	<i>S</i>	<i>P</i>	<i>S</i>	<i>P</i>	<i>S</i>	<i>P</i>	<i>S</i>	<i>P</i>	<i>S</i>	
Hyperactivity	.760	.917	.912	.030	.323	-.111	.476	.130	.435	.850
Attention Problems	.645	.650	.747	-.033	.275	.267	.552	-.110	.226	.599
Aggression	.805	.615	.771	-.045	.490	-.040	.508	.527	.700	.800
Somatization	.382	.012	.124	.688	.552	-.138	.330	-.059	.375	.314
Anxiety	.619	-.101	.217	.622	.788	.156	.596	.120	.600	.633
Withdrawal	.633	-.124	.353	-.053	.564	.840	.772	.082	.384	.606
Atypicality	.724	.200	.553	.100	.558	.629	.779	-.068	.365	.632
Depression	.833	.210	.532	<i>.309</i>	.781	.108	.655	.461	.809	.798
Eigenvalue			4.12		1.32		0.83		0.61	
% Variance			47.35		11.60		5.37		1.07	
<u>Promax Based Factor Correlations</u>			F1	F2	F3	F4				
F1: Externalizing			–							
F2: Internalizing			.303	–						
F3: Social Disengagement			.552	.709	–					
F4: Undefined			.365	.716	.458	–				

Note. *S* = Structure Coefficient, *P* = Pattern Coefficient, *h*² = Communality. General structure coefficients are based on the first unrotated factor coefficients (*g* loadings). Salient pattern coefficients presented in bold (pattern coefficient ≥ .40) and aligned (.30-.39) in italic. Due to Heywood case in communality estimation, extraction was limited to two iterations as per Gorsuch (2003).

Table A4

BASC-3 Teacher Rating Scale-Child Exploratory Factor Analysis of Clinical and Adaptive Scales: Five Oblique Factor Solution for the Standardization General Norm Sample (N = 600)

BASC-3 Scale	General	F1: School Problems		F2: Externalizing		F3: Adaptive Skills		F4: Internalizing		F5: Social Disengagement		<i>h</i> ²
	<i>S</i>	<i>P</i>	<i>S</i>	<i>P</i>	<i>S</i>	<i>P</i>	<i>S</i>	<i>P</i>	<i>S</i>	<i>P</i>	<i>S</i>	
Learning Probs	.676	.863	.805	-.059	.347	.140	-.445	.192	.362	.001	.480	.683
Study Skills	-.821	-.759	-.890	-.134	-.518	.238	.686	.084	-.229	.097	-.464	.844
Attention Probs	.837	.732	.856	.399	.682	.100	-.546	-.037	.315	.028	.522	.847
Leadership	-.819	-.600	-.851	.147	-.370	.571	.837	-.003	-.301	.069	-.523	.899
Functional Com	-.787	-.579	-.826	.209	-.317	<i>.331</i>	.732	-.005	-.352	-.246	-.666	.820
Aggression	.698	-.192	.349	.862	.898	-.208	-.522	.056	.438	.004	.407	.841
Hyperactivity	.679	.153	.484	.855	.857	.092	-.396	-.119	.274	.059	.385	.761
Conduct Probs	.727	.043	.462	.830	.888	-.017	-.472	.039	.418	.034	.437	.796
Social Skills	-.712	-.073	-.582	-.094	-.436	.824	.843	.244	-.162	-.044	-.451	.759
Adaptability	-.776	-.078	-.566	-.257	-.599	.628	.790	-.122	-.441	.099	-.472	.701
Anxiety	.403	.179	.282	-.171	.204	.103	-.256	.811	.763	.019	.439	.617
Depression	.700	-.074	.385	<i>.321</i>	.639	-.193	-.553	.594	.802	.040	.571	.782
Somatization	.200	-.011	.066	.076	.208	.153	-.070	.549	.497	-.037	.207	.269
Atypicality	.739	.103	.573	.218	.542	.068	-.518	-.026	.490	.763	.858	.784
Withdrawal	.656	-.102	.463	-.113	.320	-.469	-.688	.051	.470	.561	.750	.685
Eigenvalue			7.59		1.81		1.46		.93		.67	
% Variance			49.17		1.44		7.42		4.39		2.50	
<u>Promax Based Factor Correlations</u>			F1		F2		F3		F4		F5	
F1: School Problems			–									
F2: Externalizing			.456		–							
F3: Adaptive Skills			-.622		-.475		–					
F4: Internalizing			.288		.411		-.391		–			
F5: Social Disengagement			.551		.419		-.562		.555		–	

Note. BASC-3 Scales: Learning Probs = Learning Problems, Attention Probs = Attention Problems, Functional Com = Functional Communication, Conduct Probs = Conduct Problems, *S* = Structure Coefficient, *P* = Pattern Coefficient, *h*² = Communality. General structure coefficients are based on the first unrotated factor coefficients (*g* loadings). Salient pattern coefficients presented in bold (pattern coefficient ≥ .40) and aligned (.30-.39) in italic.

Table A5

BASC-3 Teacher Rating Scale-Child Exploratory Factor Analysis of Clinical and Adaptive Scales: Four Oblique Factor Solution for the Standardization General Norm Sample (N = 600)

BASC-3 Scale	F1: General Externalizing		F2: School Problems		F3: Adaptive Skills		F4: Internalizing		<i>h</i> ²	
	<i>S</i>	<i>P</i>	<i>S</i>	<i>P</i>	<i>S</i>	<i>P</i>	<i>S</i>	<i>P</i>		
Aggression	.700	.897	.904	-.200	.352	-.164	-.528	.036	.412	.842
Hyperactivity	.680	.870	.854	.191	.490	.137	-.427	-.081	.270	.755
Conduct Problems	.729	.855	.891	.059	.467	.023	-.500	.050	.405	.798
Learning Problems	.678	-.067	.359	.871	.809	.127	-.511	.193	.368	.687
Attention Problems	.840	.402	.691	.757	.862	.120	-.603	-.022	.314	.852
Study Skills	-.822	-.142	-.537	-.719	-.885	.212	.711	.157	-.203	.832
Functional Communication	-.788	.223	-.350	-.570	-.825	.500	.799	-.074	-.365	.819
Social Skills	-.714	-.110	-.473	.004	-.574	.906	.832	.308	-.123	.766
Withdrawal	.649	-.108	.361	-.038	.472	-.720	-.739	.243	.495	.596
Leadership	-.818	.130	-.406	-.520	-.840	.601	.846	.091	-.266	.868
Adaptability	-.773	-.287	-.623	-.014	-.564	.601	.771	-.012	-.389	.654
Anxiety	.402	-.153	.218	.156	.286	.041	-.317	.785	.751	.588
Depression	.701	.348	.656	-.100	.391	-.228	-.592	.572	.781	.771
Somatization	.200	.089	.208	-.019	.071	.160	-.101	.529	.491	.261
Atypicality	.716	.191	.549	.220	.570	-.258	-.631	.280	.533	.542
Eigenvalue		7.59		1.81		1.46		.93		
% Variance		48.96		1.39		7.24		4.28		
<u>Promax Based Factor Correlations</u>		F1		F2		F3		F4		
F1: Externalizing		–								
F2: School Problems		.479		–						
F3: Adaptive Skills		-.540		-.680		–				
F4: Internalizing		.406		.295		-.427		–		

Note. *S* = Structure Coefficient, *P* = Pattern Coefficient, *h*² = Community. General structure coefficients are based on the first unrotated factor coefficients (*g* loadings). Salient pattern coefficients presented in bold (pattern coefficient ≥ .40) and aligned (.30-.39) in italic.

Table A6

BASC-3 Teacher Rating Scale-Child Exploratory Factor Analysis of Clinical and Adaptive Scales: Three Oblique Factor Solution for the Standardization General Norm Sample (N = 600)

BASC-3 Scale	F1: Adaptive Skills		F2: Externalizing		F3: Internalizing		<i>h</i> ²	
	General <i>S</i>	<i>P</i>	<i>S</i>	<i>P</i>	<i>P</i>	<i>S</i>		
Leadership	-.821	1.032	.928	.121	-.449	.074	-.329	.879
Functional Communication	-.792	.995	.897	.228	-.391	-.079	-.417	.836
Study Skills	-.821	.880	.877	-.152	-.571	.208	-.255	.805
Social Skills	-.697	.719	.735	-.154	-.498	.168	-.224	.568
Learning Problems	.663	-.703	-.708	-.058	.395	.088	.374	.508
Attention Problems	.828	-.608	-.793	.388	.700	-.097	.355	.720
Withdrawal	.641	-.540	-.642	-.072	.394	.323	.530	.489
Adaptability	-.769	.494	.715	-.313	-.642	-.085	-.451	.593
Atypicality	.719	-.403	-.651	.198	.572	.298	.569	.545
Aggression	.700	.110	-.466	.928	.898	.073	.455	.816
Conduct Problems	.733	.020	-.519	.894	.898	.035	.441	.808
Hyperactivity	.680	-.031	-.496	.888	.849	-.122	.304	.732
Anxiety	.403	-.079	-.324	-.183	.230	.789	.740	.567
Depression	.703	-.034	-.522	.354	.667	.632	.811	.766
Somatization	.201	.192	-.087	.071	.206	.533	.480	.254
Eigenvalue		7.59		1.81		1.46		
% Variance		48.62		10.24		7.04		
<u>Promax Based Factor Correlations</u>		F1		F2		F3		
F1: Adaptive Skills		–						
F2: Externalizing		-.586		–				
F3: Internalizing		-.446		.464		–		

Note. *S* = Structure Coefficient, *P* = Pattern Coefficient, *h*² = Community. General structure coefficients are based on the first unrotated factor coefficients (*g* loadings). Salient pattern coefficients presented in bold (pattern coefficient ≥ .40) and aligned (.30-.39) in italic.

Table A7

BASC-3 Teacher Rating Scale-Child Exploratory Factor Analysis of Clinical Scales: Three Oblique Factor Solution for the Standardization General Norm Sample (N = 600)

BASC-3 Scale	General	F1: Externalizing		F2: School Problems		F3: Internalizing		<i>h</i> ²
	<i>S</i>	<i>P</i>	<i>S</i>	<i>P</i>	<i>S</i>	<i>P</i>	<i>S</i>	
Aggression	.804	.974	.917	-.167	.490	.102	.475	.860
Conduct Problems	.828	.876	.905	.030	.586	.022	.447	.821
Hyperactivity	.758	.782	.832	.215	.613	-.179	.293	.729
Attention Problems	.809	.213	.674	.901	.928	-.213	.332	.909
Learning Problems	.578	-.126	.374	.746	.705	.076	.386	.508
Atypicality	.732	.127	.563	.492	.709	.278	.581	.582
Withdrawal	.561	-.049	.373	.396	.552	.376	.549	.407
Anxiety	.455	-.219	.219	.156	.380	.729	.704	.524
Depression	.789	.343	.659	.000	.548	.678	.838	.794
Somatization	.293	.060	.209	-.134	.149	.497	.459	.221
Eigenvalue		4.95		1.39		1.08		
% Variance		46.60		9.86		7.08		
<u>Promax Based Factor Correlations</u>		F1		F2		F3		
F1: Externalizing		-						
F2: School Problems		.623		-				
F3: Internalizing		.468		.495		-		

Note. *S* = Structure Coefficient, *P* = Pattern Coefficient, *h*² = Community. General structure coefficients are based on the first unrotated factor coefficients (*g* loadings). Salient pattern coefficients presented in bold (pattern coefficient ≥ .40) and aligned (.30-.39) in italic.

Table A8

BASC-3 Teacher Rating Scale-Adolescent Exploratory Factor Analysis of Clinical and Adaptive Scales: Four Oblique Factor Solution for the Standardization General Norm Sample (N = 600)

BASC-3 Scale	F1: General Externalizing		F2: Adaptive Skills		F3: Internalizing		F4: School Problems		<i>h</i> ²	
	<i>S</i>	<i>P</i>	<i>S</i>	<i>P</i>	<i>S</i>	<i>P</i>	<i>S</i>	<i>P</i>		
Aggression	.727	.972	.935	-.098	-.475	.001	.481	-.142	.497	.885
Conduct Problems	.757	.855	.909	-.044	-.492	-.026	.464	.077	.601	.832
Hyperactivity	.712	.754	.852	.173	-.384	.104	.492	.217	.599	.757
Social Skills	-.752	-.139	-.490	.983	.926	.291	-.310	-.043	-.628	.915
Withdrawal	.653	-.173	.305	-.688	-.749	.498	.689	-.178	.384	.737
Leadership	-.810	.111	-.451	.628	.858	.087	-.411	-.511	-.810	.867
Adaptability	-.827	-.181	-.600	.563	.808	-.080	-.545	-.181	-.686	.732
Functional Communication	-.805	.177	-.427	.507	.808	-.164	-.546	-.468	-.762	.779
Anxiety	.527	-.090	.336	.165	-.314	.865	.784	.114	.339	.635
Depression	.759	.254	.625	-.133	-.566	.758	.898	-.130	.444	.856
Somatization	.486	.000	.348	.149	-.286	.678	.658	.129	.335	.446
Atypicality	.728	.205	.580	-.157	-.564	.553	.753	.032	.500	.639
Study Skills	-.843	-.090	-.605	.204	.704	.126	-.387	-.811	-.940	.912
Learning Problems	.785	-.064	.518	.044	-.572	.255	.556	.799	.847	.760
Attention Problems	.863	.263	.717	.001	-.618	.030	.492	.741	.910	.877
Eigenvalue			8.48		1.75		1.46		.82	
% Variance			55.18		1.00		8.29		4.07	
<u>Promax Based Factor Correlations</u>			F1	F2	F3	F4				
F1: Externalizing			–							
F2: Adaptive Skills			-.482	–						
F3: Internalizing			.507	-.520	–					
F4: School Problems			.593	-.643	.445	–				

Note. *S* = Structure Coefficient, *P* = Pattern Coefficient, *h*² = Communality. General structure coefficients are based on the first unrotated factor coefficients (*g* loadings). Salient pattern coefficients presented in bold (pattern coefficient ≥ .40) and aligned (.30-.39) in italic.

Table A9

BASC-3 Teacher Rating Scale-Adolescent Exploratory Factor Analysis of Clinical Scales: Two Oblique Factor Solution for the Standardization General Norm Sample (N = 600)

BASC-3 Scale	General	F1: Externalizing		F2: Internalizing		h^2
	<i>S</i>	<i>P</i>	<i>S</i>	<i>P</i>	<i>S</i>	
Conduct Problems	.806	.978	.910	-.107	.512	.835
Aggression	.780	.904	.867	-.059	.513	.753
Hyperactivity	.786	.902	.870	-.050	.521	.759
Attention Problems	.778	.705	.797	.146	.592	.649
Learning Problems	.699	.426	.645	.347	.617	.489
Anxiety	.613	-.118	.398	.816	.741	.557
Depression	.847	.141	.654	.810	.899	.821
Withdrawal	.587	-.101	.386	.769	.705	.503
Somatization	.563	-.020	.396	.657	.644	.415
Atypicality	.785	.242	.644	.635	.788	.656
Eigenvalue			5.67		1.44	
% Variance			53.41		10.96	
<u>Promax Based Factor Correlation</u>			F1		F2	
F1: Externalizing			–			
F2: Internalizing			.633		–	

Note. *S* = Structure Coefficient, *P* = Pattern Coefficient, h^2 = Communality. General structure coefficients are based on the first unrotated factor coefficients (*g* loadings). Salient pattern coefficients presented in bold (pattern coefficient $\geq .40$) and aligned (.30-.39) in italic.

Figure A1

BASC-3 Teacher Rating Scale-Preschool Sources of Clinical Scales Variance for the Standardization Sample (N = 500)

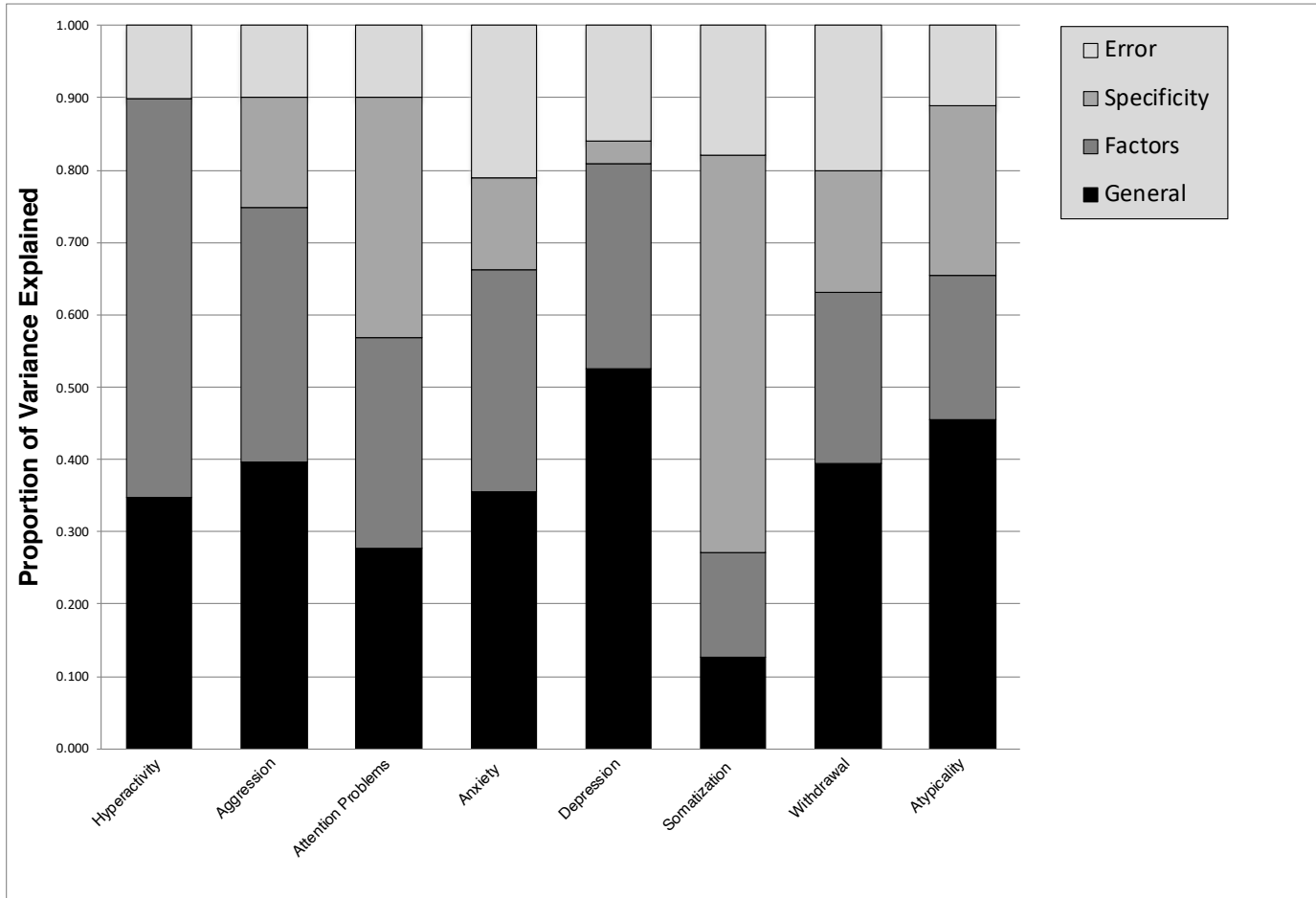


Figure A2

BASC-3 Teacher Rating Scale-Child Sources of Clinical Scales Variance for the Standardization Sample (N = 600)

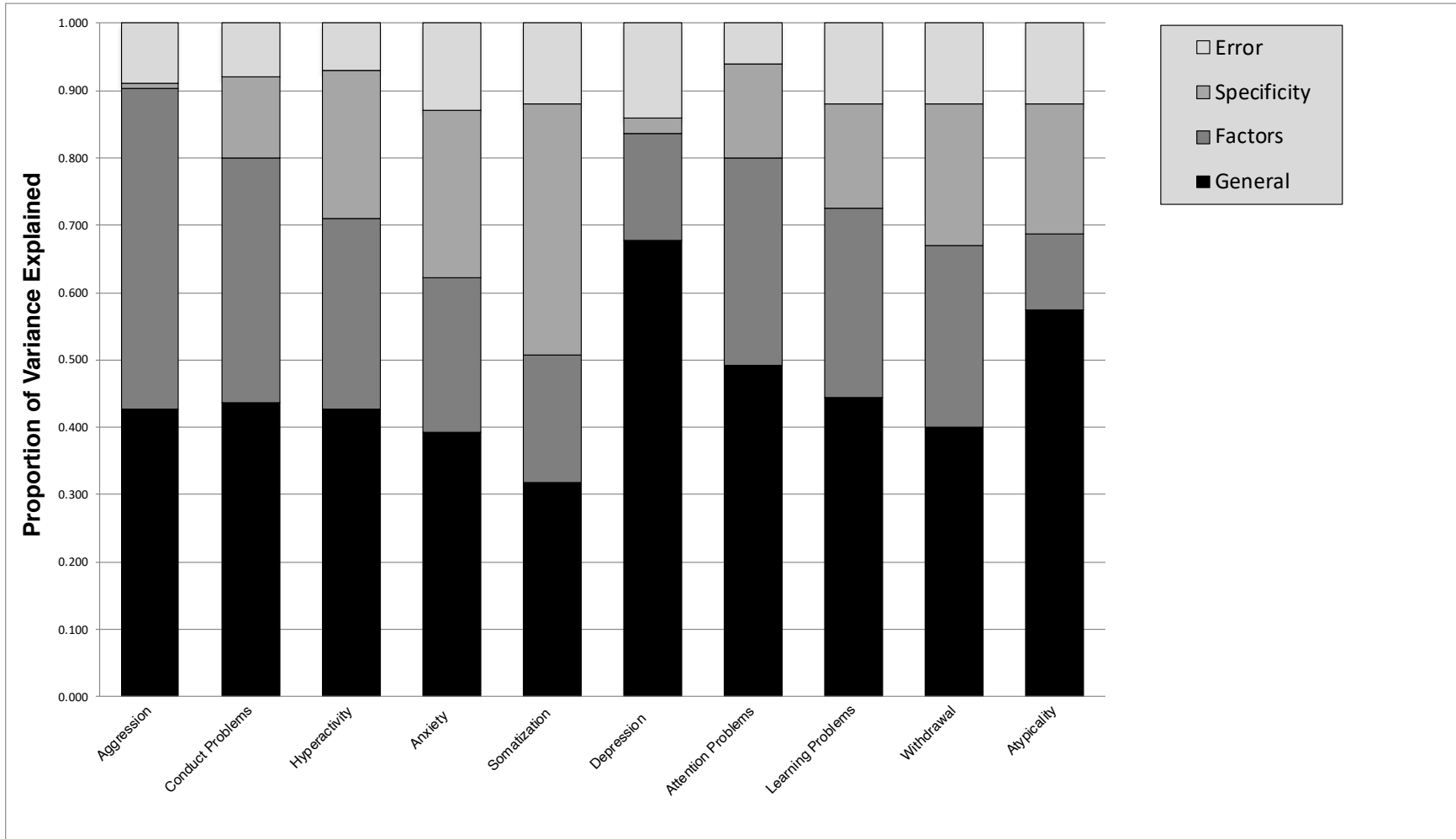


Figure A3

BASC-3 Teacher Rating Scale-Adolescent Sources of Clinical Scales Variance for the Standardization Sample (N = 600)

