

Appendix

Supplemental Material

Construct Validity of the German Wechsler Intelligence Scale for Children–Fifth Edition: Exploratory and Confirmatory Factor Analyses of the 15 Primary and Secondary Subtests

Table A1

*Sources of Variance in the 15 German Wechsler Intelligence Scale for Children-Fifth Edition
(WISC–V) Primary and Secondary Subtests for the Standardization Sample (N = 1,087)
According to a Bifactor Model with Four Group Factors*

Table A1

Sources of Variance in the 15 German Wechsler Intelligence Scale for Children-Fifth Edition (WISC-V) Primary and Secondary Subtests for the Standardization Sample (N = 1,087) According to a Bifactor Model with Four Group Factors

German WISC-V Subtest	General		Verbal Comprehension		Visual Spatial		Working Memory		Processing Speed		h^2	u^2	ECV
	b	S^2	b	S^2	b	S^2	b	S^2	b	S^2			
Similarities	.697	.486	.288	.083							.569	.431	.854
Vocabulary	.658	.433	.592	.350							.783	.217	.553
Information	.684	.468	.333	.111							.579	.421	.808
Comprehension	.548	.300	.462	.213							.514	.486	.585
Block Design	.634	.402			.379	.144					.546	.454	.737
Visual Puzzles	.659	.434			.401	.161					.595	.405	.730
Matrix Reasoning	.660	.436			.136	.018					.454	.546	.959
Figure Weights	.704	.496			-.005	.000					.496	.504	.999
Arithmetic	.726	.527					.169	.029			.556	.444	.949
Digit Span	.666	.444					.409	.167			.611	.389	.726
Picture Span	.572	.327					.200	.040			.367	.633	.891
Letter-Number Sequencing	.668	.446					.405	.164			.610	.390	.731
Coding	.331	.110							.643	.413	.523	.477	.209
Symbol Search	.363	.132							.715	.511	.643	.357	.205
Cancellation	.232	.054							.456	.208	.262	.738	.206
Total Variance		.366		.051		.022		.027		.076	.540	.460	
Explained Common Variance		.678		.093		.040		.049		.140			
ω		.926		.859		.805		.818		.725			
ω_H/ω_{HS}		.836		.254		.085		.137		.575			
Relative ω		.903		.295		.105		.168		.793			
Factor Correlation		.914		.504		.291		.371		.758			
H		.907		.506		.274		.319		.668			
PUC		.800											

Note. b = loading of subtest on factor, S^2 = variance explained, h^2 = communality, u^2 = uniqueness, ECV = explained common variance, ω_H = Omega-hierarchical (general factor), ω_{HS} = Omega-hierarchical subscale (group factors), H = construct reliability or replicability index, PUC = percentage of uncontaminated correlations. Illustrated in Figure 3.