

Electronic Supplement 5. Exploratory and confirmatory analysis of the 67 items on Understand Health Information.

Dimensions			Deviance	Par	AIC	BIC	<i>r</i>
Exploratory factor analysis (Software MPLUS, RML estimation)							
1-Dim			15,619.41	192	15,987.41	16,724.25	
2-Dim			15,489.81	258	16,005.82	16,995.95	
3-Dim			15,373.05	323	16,019.05	17,258.64	
Confirmatory IRT-Analysis (Software MPLUS, RML estimation)							
1-Dim	Understanding	2-pl	15,606.62	192	15,990.62	16,727.46	
		1-pl	15,807.52	126	16,059.41	16,542.97	
2-Dim	GHP / ECAP vs. CIP ^{a)}	2-pl	15,597.03	193	15,983.03	16,723.71	.930
		1-pl	16,214.43	127	16,470.41	16,968.54	.940
	Calculate vs. Calc. not required	2-pl	15,606.64	193	15,992.65	16,733.33	.997
		1-pl	15,806.26	128	16,062.26	16,553.49	.993
3-Dim	GHP vs. ECAP vs. CIP	2-pl	15,597.02	195	15,987.02	16,735.38	.999 / .930 / .928 ^{b)}
		1-pl	15,800.54	131	16,062.54	16,565.29	.991 / .970 / .939 ^{b)}
	Text vs. Graphic vs. Table	2-pl	15,602.40	197	15,996.40	16,752.43	.980, .985, 1.000 ^{b)}
		1-pl	15,809.78	131	16,071.78	16,574.52	.981; .991; .998 ^{b)}
Confirmatory IRT-Analysis (Software CONQUEST, MRCML estimation)							
1-Dim	Understanding	1-pl	15,817.37	126	16,069.37	16,552.93	
2-Dim	GHP / ECAP vs. CIP	1-pl	15,810.50	128	16,066.50	16,557.73	.948
Final item pool (57 items)							
1-Dim	Understanding	1-pl	12,097.60	100	12,297.60	12,681.37	
2-Dim	GHP / ECAP vs. CIP	1-pl	12,083.90	102	12,287.90	12,679.35	.934

Notes. ^{a)} GHP = General Health Prevention, ECAP = Early Childhood Allergy Prevention, CIP = COVID-19 infection prevention; ^{b)} Correlation 1-2, 1-3, 2-3.