Supplementary Materials 1

Model Validation

Our selection of the six-profile model was validated by re-running the analysis on a random sample of our original data set (n = 800). The fit and diagnostic statistics show in Table A demonstrate that, as in the full-sample analysis, that a 6-profile solution fit the data best. The AIC, BIC and SABIC values continued to decrease with the addition of more profiles, but the magnitude of the decrease between the six-profile and the seven-profile solutions. The *p*BLRT remained significant with the addition of more profiles. However, the BLRT may overestimate the number of profiles (Morin & Marsh, 2015). The *p*LMR was significant for the six-profile solution but did not reach significance for the seven-profile solution, suggesting that the six-profile solution performs better than both the five- and seven-profile solutions. Finally, the six-profile solution had a satisfactory entropy value and smallest average latent posterior probability.

Table A

Fit and diagnostic statistics	for validation analysis
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Profile s	LL	#fp	AIC	BIC	SABIC	Entro pv	Small est	N in smalle	% in small	<i>p</i> BLRT	<i>p</i> LMR	
						.,	avera	st	est			
							ge	profil	profil			
							LPP	е	е			
1	-5284.13	8	10584.26	10621.73	10596.33	-	-	-	-	-	-	
2	-4729.32	13	9484.64	9545.54	9504.25	0.85	0.95	372	46.5	<.001	<.001	
3	-4632.31	18	9300.62	9384.94	9327.78	0.78	0.86	181	22.6	<.001	.002	
4	-4568.62	23	9183.24	9290.98	9217.95	0.81	0.81	141	17.6	<.001	.17	
5	-4538.12	28	9142.21	9264.38	9174.47	0.78	0.75	117	14.6	<.001	.23	
6	-4503.08	33	9072.16	9226.75	9121.96	0.83	0.81	47	5.9	<.001	.05	
7	-4481.57	38	9039.14	9217.15	9096.48	0.82	0.78	52	6.5	<.001	.78	
8	Log likelihood value not replicated.											

Note. n = 800. LL = log likelihood. #fp = number of free parameters. LPP = latent posterior probability. BLRT = Bootstrapped likelihood ratio test. LMR = Lo-Mendell-Rubin likelihood test.