

Supplement 1. Exploration of contributions of Detached Self-Soother and Detached Protector.

A preliminary check of the correlations between predictors showed one problematic strong correlation, that is between Detached Protector and Vulnerable Child modes, $r = .78$, $p < .001$. This indicates that including both might lead to estimation problems.

Next, the following models were run to compare their fits: (1) a model with both Detached Self-Soother (DSS) and Detached Protector (DP); (2) a model without DSS; (3) a model without DP. All these models had the other fixed predictors included and the random parts as used in the analysis of the RCT (Arntz et al., 2022).

Table S1 shows the fit indices, with Chi-square tests of the difference in -2LL between the models with both DSS and DP included, versus each included. From these results it is clear that the model with only DSS has superior fit, significantly better than the model with both DSS and DP, $p = 0.015$. In line with this, the fixed effect of DP turned out to be nonsignificant, and the Vulnerable Child mode effect was also nonsignificant, in contrast with models without DP as predictor (Table S2). Thus, inclusion of DP is not justified by improved fit, is non-significant, and obscures the otherwise significant effect of the Vulnerable Child mode.

We concluded that a model without DP had a better fit and decided to proceed with that model.

Table S1

Fit indices compared between models with both DSS and DP included, only DP included, and only DSS included.

Fit compared	AIC	BIC	min2LL	p vs DSS&DP
DSS & DP included	2228.315	2244.190	2222.299	
DP included	2227.339	2243.216	2221.322	0.33
DSS included	2222.411	2238.288	2216.395	0.015

Table S2

Results of the replication model testing prediction of severity of BPD by schema modes including both Detached Self-Soother and Detached Protector scores.

Model Term	Coefficient	SE	t	df	p	r
Healthy Adult	-.104	.032	-3.262	1129	.001	0.10
Vulnerable Child	.037	.030	1.241	1105	.22	0.04
Impulsive Child	-.009	.027	-.352	1113	.73	0.01
Detached Self-Soother	.059	.020	2.893	1111	.004	0.09
Detached Protector	.035	.029	1.198	1107	.23	0.04
Control variables						
BPDSI-IV	-.002	.002	-.695	1123	.49	0.02
Time in S-TAU	-.096	.015	-6.387	55	<.001	0.65
Time in PGST	-.121	.018	-6.651	91	<.001	0.57
Time in IGST	-.169	.018	-9.371	84	<.001	0.71

Note. Effect size r represents the effect size in the fixed part and is calculated as $r = \sqrt{(t^2 / (t^2 + df))}$. Degrees of freedom are based on Satterthwaite's approximations and rounded to integers.

S-TAU = Specialized Treatment as Usual, PGST = Predominantly Group Schema Therapy, IGST = Individual-Group Schema Therapy combined.