

Momentary Appraisals of Emotions Moderate the Relationship between Affect Intensity and Urges to Avoid in the Daily Lives of High-Risk Psychiatric Patients

Supplement

Table 1.

Correlations Among Individual Negative Affect Variables

	Within-person			Between-person		
	1	2	3	1	2	3
1. Agitated						
2. Angry	.55			.78		
3. Sad	.44	.45		.83	.86	
4. Anxious	.47	.35	.40	.84	.79	.89

Note: Within-person correlations are among the person-centered versions of variables, and between-person correlations are among the person-mean versions of variables. All correlations are significant at $p < .001$.

Table 2.

Model Comparisons Between Main Effects Only and Interaction Effects Models

	AIC	BIC	loglikelihood	χ^2	p
Outcome = "My emotions are getting in the way"					
Main Effects Only	5868.7	5932.9	-2922.3		
Interaction Effects	5854.1	5923.7	-2914.0	16.622	< .001
Outcome = "I am distressed by how I am feeling"					
Main Effects Only	5892.5	5956.7	-2934.2		
Interaction Effects	5887.3	5956.9	-2930.7	7.160	.007
Outcome = "I can handle negative feelings" (reversed)					
Main Effects Only	5867.2	5931.5	-2921.6		
Interaction Effects	5866.1	5935.7	-2920.0	3.160	.075

Note: The main analyses were fit using restricted maximum likelihood estimation (REML), which produces unbiased estimates of the random effects in small samples but cannot be used for model comparisons with different fixed effects. Thus, for the model comparisons, we switched to maximum likelihood (ML) estimation.

Table 3.*Multilevel Models Predicting Avoidance Urges with Random Interaction Effects*

	Estimate	SE	RE SD	df	t	p
Appraisal = “My emotions are getting in the way”						
Intercept	3.671	0.309	1.638	25.759	11.878	< .001
Momentary Negative Affect	0.509	0.052	0.188	26.591	9.827	< .001
Momentary Cognitive Appraisal	0.222	0.049	0.204	18.440	4.537	< .001
Average Negative Affect	1.110	0.276	-	26.631	4.029	< .001
Average Cognitive Appraisal	-0.218	0.234	-	26.547	-0.933	.359
Interaction Effect	-0.063	0.018	0.054	18.162	-3.446	.002
Appraisal = “I am distressed by how I am feeling”						
Intercept	3.661	0.302	1.623	25.558	12.106	< .001
Momentary Negative Affect	0.528	0.065	0.239	21.505	8.164	< .001
Momentary Cognitive Appraisal	0.181	0.053	0.217	19.333	3.397	.003
Average Negative Affect	1.208	0.272	-	26.692	4.433	< .001
Average Cognitive Appraisal	-0.319	0.227	-	26.876	-1.402	.172
Interaction Effect	-0.043	0.019	0.063	12.706	-2.241	.044
Appraisal = “I can handle negative feelings” (reversed)						
Intercept	3.544	0.297	1.599	26.241	11.926	< .001
Momentary Negative Affect	0.541	0.052	0.187	20.949	10.317	< .001
Momentary Cognitive Appraisal	0.141	0.058	0.273	25.135	2.414	.023
Average Negative Affect	0.907	0.145	-	26.570	6.232	< .001
Average Cognitive Appraisal	0.221	0.152	-	28.124	1.456	.156
Interaction Effect	0.023	0.023	0.072	19.080	0.998	.330

Note: Models did not converge on a reliable solution; results should be interpreted with caution.

SE = standard error; RE SD = random effects standard deviation, which is only estimated for survey-level predictors; df = degrees of freedom.

Table 4.
Sensitivity Analyses Controlling for Study Site

	Estimate	SE	RE SD	df	t	p
Appraisal = “My emotions are getting in the way”						
Intercept	3.448	0.441	1.653	24.693	7.823	< .001
Momentary Negative Affect	0.512	0.054	0.189	19.558	9.454	< .001
Momentary Cognitive Appraisal	0.208	0.048	0.205	19.622	4.360	< .001
Average Negative Affect	1.303	0.343	-	25.800	3.794	0.001
Average Cognitive Appraisal	-0.366	0.287	-	26.299	-1.273	0.214
Study Site	0.515	0.763	-	25.449	0.675	0.506
Interaction Effect	-0.053	0.013	-	795.239	-4.167	< .001
Appraisal = “I am distressed by how I am feeling”						
Intercept	3.248	0.415	1.610	25.241	7.835	< .001
Momentary Negative Affect	0.522	0.065	0.239	20.970	8.075	< .001
Momentary Cognitive Appraisal	0.190	0.052	0.210	18.732	3.680	0.002
Average Negative Affect	1.437	0.314	-	26.106	4.573	< .001
Average Cognitive Appraisal	-0.541	0.257	-	26.403	-2.108	0.045
Study Site	0.958	0.690	-	25.977	1.388	0.177
Interaction Effect	-0.034	0.012	-	985.279	-2.746	0.006
Appraisal = “I can handle negative feelings” (reversed)						
Intercept	3.459	0.395	1.597	24.960	8.766	< .001
Momentary Negative Affect	0.540	0.054	0.198	22.550	9.978	< .001
Momentary Cognitive Appraisal	0.141	0.058	0.269	25.000	2.440	0.022
Average Negative Affect	0.887	0.151	-	25.380	5.886	< .001
Average Cognitive Appraisal	0.226	0.156	-	26.120	1.447	0.160
Study Site	0.206	0.609	-	24.950	0.338	0.738
Interaction Effect	0.025	0.014	-	1522.000	1.778	0.076

Note: SE = standard error; RE SD = random effects standard deviation, which is only estimated for survey-level predictors; df = degrees of freedom. All random effects were significantly different from zero.