

# Virtual Rejection and Overinclusion in Eating Disorders: An Experimental Investigation of the Impact on Emotions, Stress Perception, and Food Attitudes

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## Supplementary Materials

**Table S1.** Comparisons between participants in the excluded and overincluded conditions at baseline.

	Excluded Condition	Included Condition	<i>t</i> <i>p</i>
Age, years	25.65 (7.58)	25.48 (7.77)	0.149 0.882
BMI, kg/m <sup>2</sup>	21.57 (4.76)	23.85 (9.62)	-1.968 0.061
Menarche, years	12.10 (1.37)	12.35 (1.39)	-1.202 0.231
Education, years	15.52 (2.76)	14.65 (3.10)	1.955 0.062
Illness duration, months	5.61 (7.62)	5.77 (7.67)	-0.128 0.899
PHQ-9	9.94 (5.34)	9.38 (4.90)	0.700 0.558
EDE-Q Global	15.56 (8.53)	14.08 (9.45)	1.073 0.285
PANAS pos pre	26.94 (5.98)	28.08 (5.95)	-1.228 0.221
PANAS neg pre	14.52 (5.64)	14.40 (6.85)	0.134 0.894
SRS pre	2.73 (1.45)	3.02 (1.88)	-1.133 0.259
TBS pre	1.49 (0.72)	1.95 (1.52)	-2.155 0.130
TRS pre	3.23 (2.08)	3.00 (2.30)	0.696 0.487

Means and standard deviations are reported.

**Table S2.** Correlation analyses exclusion condition.

	<b>DPANAS-pos</b>	<b>DPANAS-neg</b>	<b>DTBS</b>	<b>DTRS</b>	<b>DSRS</b>
<b>AN</b>					
Belonging	0.256	-0.124	-	-0.148	-0.321
Self-esteem	0.428	-0.395	-	-0.021	-0.078
ME	0.562	-0.349	-	-0.282	-0.361
Control	0.177	0.274	-	-0.149	-0.366
<b>BN</b>					
Belonging	0.074	0.227	-0.101	0.061	-0.699*
Self-esteem	0.346	0.346	0.196	-0.044	-0.375
ME	-0.755*	-0.623*	0.040	-0.160	-0.696*
Control	-0.687*	0.177	-0.006	-0.012	-0.420
<b>BED</b>					
Belonging	-0.385	-0.431	-0.385	-0.728*	-0.597*
Self-esteem	-0.543	-0.763*	-0.543	0.139	-0.395
ME	-0.606*	-0.277	-0.314	-0.214	-0.214
Control	0.347	-0.865*	-0.273	0.337	0.393
<b>HW</b>					
Belonging	0.066	-0.143	-0.149	0.330	0.015
Self-esteem	-0.042	-0.468	-0.313	0.229	0.165
ME	0.154	-0.353	-0.575	0.379	0.046
Control	-0.065	0.164	-0.237	0.184	0.141

AN: anorexia nervosa; BN: bulimia nervosa; BED: binge eating disorder; HW: healthy women; ME: meaningful existence; PANAS: positive and negative affect schedule; D: difference; pos: positive; neg: negative; SRS: stress related scale; TBS: thoughts about binge scale; TRS: thoughts about restraint scale. \*:  $p < 0.01$ , only correlation with  $p < 0.01$  should be considered due to the Bonferroni correction. Differences were evaluated as post-pre task for all the variables. NTS subscales (belonging, self-esteem, ME and Control) were collected after the task, while other variables were collected both pre and post.

**Table S3.** Correlation analyses overinclusion condition.

	<b>DPANAS-pos</b>	<b>DPANAS-neg</b>	<b>DTBS</b>	<b>DTRS</b>	<b>DSRS</b>
<b>AN</b>					
Belonging	0.239	-0.101	-0.227	0.003	-0.228
Self-esteem	0.391	-0.250	-0.078	0.163	-0.364
ME	0.127	0.167	0.231	0.518	-0.053
Control	0.307	0.265	0.067	0.057	0.391
<b>BN</b>					
Belonging	0.107	-0.384	-0.690*	-0.298	-0.526
Self-esteem	0.486	0.563*	-0.299	-0.610*	-0.170
ME	0.412	-0.430	-0.462	-0.239	-0.606*
Control	0.572*	-0.489	-0.564*	-0.121	-0.239
<b>BED</b>					
Belonging	-0.841*	-0.137	0.236	0.583	0.612*
Self-esteem	-0.385	-0.655*	0.305	0.738*	0.757*
ME	0.121	-0.439	0.571	0.511	0.734*
Control	0.213	0.681*	0.604*	0.113	0.717*
<b>HW</b>					
Belonging	0.010	0.110	0.053	0.029	0.029

Self-esteem	-0.008	-0.132	0.002	0.024	-0.008
ME	-0.076	0.075	0.124	-0.020	-0.076
Control	-0.244	0.114	0.080	-0.059	-0.244

AN: anorexia nervosa; BN: bulimia nervosa; BED: binge eating disorder; HC: healthy women; ME: meaningful existence; PANAS: positive and negative affect schedule; D: difference; pos: positive; neg: negative; SRS: stress related scale; TBS: thoughts about binge scale; TRS: thoughts about restraint scale. \*:  $p < 0.01$ , only correlation with  $p < 0.01$  should be considered due to the Bonferroni correction. Differences were evaluated as pre minus post task for all the variables. NTS subscales (belonging, self-esteem, ME and Control) were collected after the task, while other variables were collected both pre and post.

**Table S4.** Evaluation of change due to the Cyberball task.

	Exclusion Condition		Overinclusion Condition	
	<i>t</i>	<i>p</i>	<i>t</i>	<i>p</i>
AN				
PANAS positive	1.047	0.307	2.629	0.015
PANAS negative	0.381	0.707	-1.453	0.163
SRS	0.548	0.589	-0.809	0.428
TBS	1.000	0.333	0.825	0.419
TRS	1.000	0.329	1.926	0.069
BN				
PANAS positive	1.332	0.203	1.370	0.187
PANAS negative	-1.624	0.125	4.656	< 0.001
SRS	-1.094	0.255	3.782	0.001
TBS	-2.041	0.033	1.746	0.096
TRS	-1.000	0.331	-0.698	0.493
BED				
PANAS positive	2.304	0.033	0.986	0.336
PANAS negative	2.977	0.008	2.342	0.030
SRS	-0.370	0.716	1.073	0.297
TBS	-1.453	0.163	4.819	<0.001
TRS	2.651	0.012	-0.339	0.739
HW				
PANAS positive	7.582	<0.001	-3.565	0.002
PANAS negative	-5.630	<0.001	1.209	0.239
SRS	0.775	0.446	1.445	0.161
TBS	-1.000	0.327	1.000	0.327
TRS	2.619	0.012	1.674	0.107

*t*-test for paired sample. Means and standard deviations are reported in the main text.