Supplemental Online Material for

"Quality or quantity? A multi-study analysis of emotion regulation skills deficits associated with Borderline Personality Disorder"

Table S1.

Means, standard deviations, and group comparison statistics of psychopathology, emotion regulation skill frequency, and emotion regulation quality measures.

	HC	MDD	BPD	BPD+MDD			
Variable	M(SD)	M(SD)	M(SD)	M(SD)	F	df	p
Study 1	(n = 149)	(n = 54)	(n = 30)	(n = 39)			
PAI-BOR	16.84 (10.03) _a	29.50 (6.89) _b	44.83 (5.48) _c	47.62 (6.81) _c	186.54	3, 268	< .01
PHQ-9	$3.32(3.60)_a$	16.11 (2.96) _b	$10.50(3.89)_{c}$	18.15 (4.02) _d	282.38	3, 268	< .01
DSS	$1.66(0.58)_a$	$1.55 (0.52)_{a,b}$	$1.43 (0.55)_b$	1.41 (0.60) _b	2.93	3, 268	.03
DCS	$1.07(0.57)_a$	1.69 (0.40) _b	1.75 (0.55) _{b,c}	1.99 (0.41) _c	48.40	3, 268	< .01
WOR	$3.72(0.81)_a$	$3.26(0.67)_b$	$3.09(0.89)_{b,c}$	$2.87 (0.82)_{c}$	15.66	3, 268	< .01
Study 2	(n = 30)	(n = 30)	(n = 18)	(n = 12)			
PAI-BOR	14.10 (8.15) _a	31.67 (7.94) _b	43.39 (9.49) _c	48.25 (5.33) _c	76.22	3, 86	< .01
PHQ-9	2.43 (3.68) _a	15.87 (5.40) _b	11.11 (5.08) _c	15.58 (2.71) _b	51.09	3, 86	< .01
DSS	$2.09(0.43)_a$	$1.67 (0.46)_b$	$1.80 (.61)_{b}$	1.76 (.39) _b	4.09	3, 86	< .01
DCS	$1.06(0.55)_a$	$1.84 (0.32)_b$	1.89 (.61) _b	1.97 (.33) _b	20.42	3, 86	< .01
WOR	3.97 (0.82) _a	3.16 (0.95) _b	2.80 (1.07) _b	3.13 (.81) _b	7.34	3, 86	< .01

Note. HC = Healthy controls. MDD = Major Depressive Disorder. BPD = Borderline Personality Disorder. PAI-BOR = Personality Assessment Inventory – Borderline subscale. PHQ-9 = Patient Health Questionnaire – 9. DSS = DBT-WCCL DBT Skills Subscale. DCS = DBT-WCCL Dysfunctional Coping Subscale. WOR = Ways of Responding scale. Different subscripts (i.e., a, b, c, d) indicate statistically significant between-group differences in mean values of that measure, *ps* < .05.

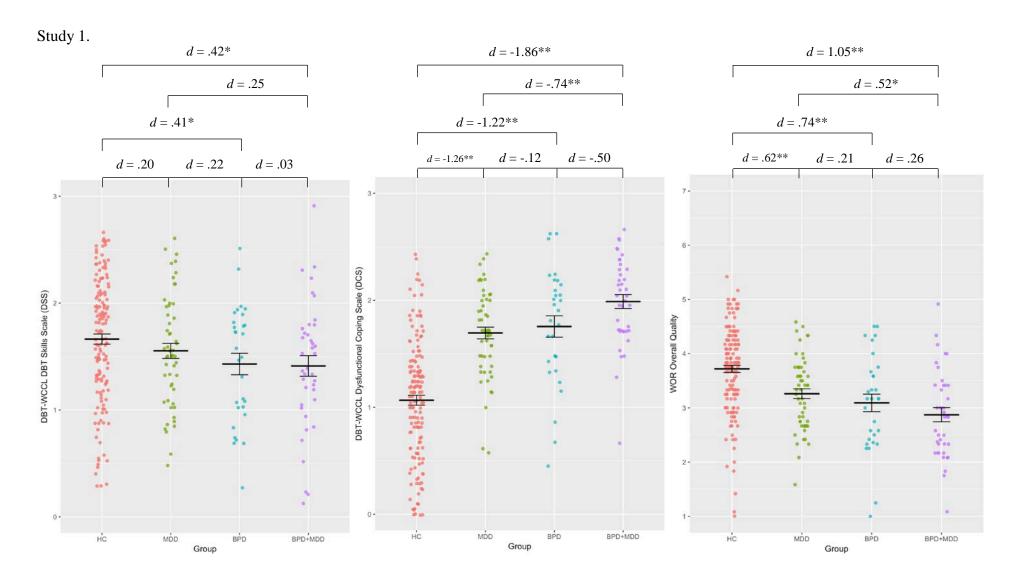


Figure S1. Study 1 emotion regulation skill frequency and quality measures by group. DBT-WCCL = DBT Ways of Coping Checklist. WOR = Ways of Responding scale. HC = healthy controls. MDD = Major Depressive Disorder. BPD = Borderline Personality Disorder. BPD+MDD = Borderline Personality Disorder and Major Depressive Disorder. d = Cohen's d = Cohen

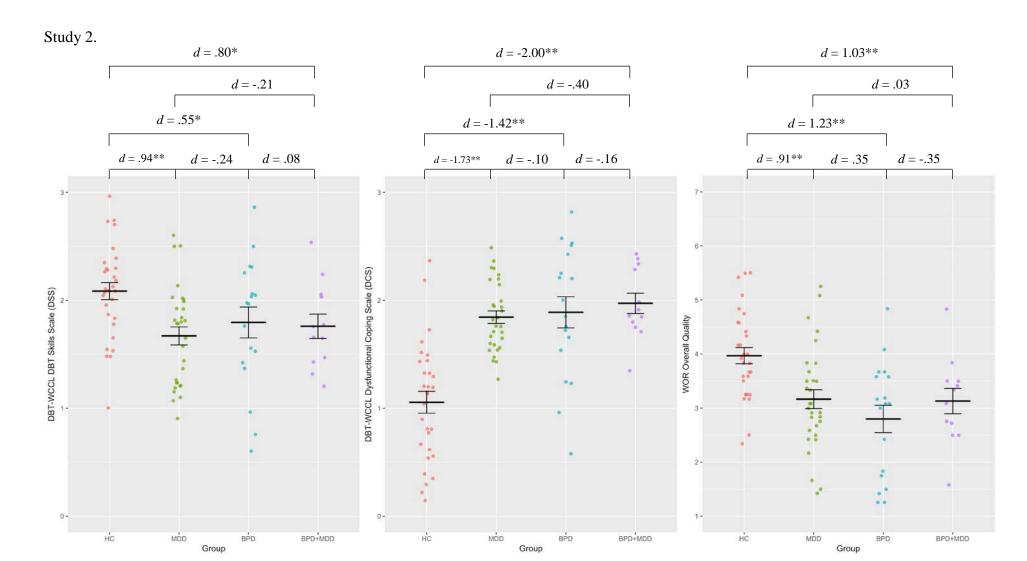


Figure S2. Study 2 emotion regulation skill frequency and quality measures by group. DBT-WCCL = DBT Ways of Coping Checklist. WOR = Ways of Responding scale. HC = healthy controls. MDD = Major Depressive Disorder. BPD = Borderline Personality Disorder. BPD+MDD = Borderline Personality Disorder and Major Depressive Disorder. d = Cohen's d = Cohen

Table S2.

Meta-analytic effect sizes for emotion regulation measures.

DBT-WCCL DBT Skills Subscale

1	2	Cohen's d	SE	p	95% CI
HC	MDD	.39	.14	< .01	[.12, .66]
HC	BPD	.45	.17	< .01	[.12, .78]
HC	BPD+MDD	.50	.16	< .01	[.18, .82]
MDD	BPD	.05	.18	.78	[31, .41]
MDD	BPD+MDD	.12	.18	.49	[23, .48]
BPD	BPD+MDD	.05	.20	.83	[35, .44]

DBT-WCCL Dysfunctional Coping Subscale

_1	2	Cohen's d	SE	p	95% CI
HC	MDD	-1.37	.15	< .01	[-1.08, -1.67]
HC	BPD	-1.28	.18	< .01	[93, -1.63]
HC	BPD+MDD	-1.89	.18	< .01	[-1.53, -2.25]
MDD	BPD	11	.18	.53	[47, .24]
MDD	BPD+MDD	64	.18	< .01	[-1.00,28]
BPD	BPD+MDD	40	.21	.05	[80, .01]

WOR Quality

1	2	Cohen's d	SE	p	95% CI
HC	MDD	.70	.14	< .01	[.42, .97]
HC	BPD	.88	.17	< .01	[.54, 1.22]
HC	BPD+MDD	1.05	.17	< .01	[.72, 1.37]
MDD	BPD	.26	.18	.15	[10, .62]
MDD	BPD+MDD	.38	.18	.03	[.03, .74]
BPD	BPD+MDD	.08	.20	.70	[32, .48]

Note. Cohen's d calculated by subtracting the mean of group 2 from group 1. HC = healthy controls. MDD = Major Depressive Disorder. BPD = Borderline Personality Disorder. BPD+MDD = Borderline Personality Disorder and Major Depressive Disorder.

Table S3.
Associations of adaptive skills, maladaptive strategies, and strategy quality with Borderline Personality Disorder features.

Variable	β	SE	p	95% CI
Intercept	.02	.04	.55	[06, .10]
Study	.10	.08	.25	[07, .26]
Adaptive skills	19	.04	< .01	[27,12]
Maladaptive strategies	.63	.04	< .01	[.56, .71]
Strategy quality	20	.04	< .01	[28,12]

Note. Borderline Personality Disorder features measured with the Personality Assessment Inventory – Borderline subscale. Adaptive skills measured with the DBT-WCCL DBT Skills subscale. Maladaptive strategies measured with the DBT-WCCL Dysfunctional Coping subscale. Strategy quality measured with the Ways of Responding scale. Study coded: -.50 = Study 1, .50 = Study 2. All variables except Study are standardized (M = 0, SD = 1) based on the full sample to ease interpretation.

Table S4.
Associations of adaptive skills, maladaptive strategies, and strategy quality with Major Depressive Disorder symptoms.

Variable	β	SE	p	95% CI
Intercept	.02	.04	.60	[06, .11]
Study	.09	.09	.31	[09, .26]
Adaptive skills	19	.04	< .01	[27,11]
Maladaptive strategies	.63	.04	< .01	[.55, .71]
Strategy quality	14	.04	< .01	[22,06]

Note. Major Depressive Disorder symptoms measured with the Patient Health Questionnaire-9. Adaptive skills measured with the DBT-WCCL DBT Skills subscale. Maladaptive strategies measured with the DBT-WCCL Dysfunctional Coping subscale. Strategy quality measured with the Ways of Responding scale. Study coded: -.50 = Study 1, .50 = Study 2. All variables except Study are standardized (M = 0, SD = 1) based on the full sample to ease interpretation.