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Supplementary Material

Article Title: Treatment Outcomes of Electroconvulsive Therapy for Depressed Patients With and Without Borderline Personality Disorder: A Retrospective Cohort Study

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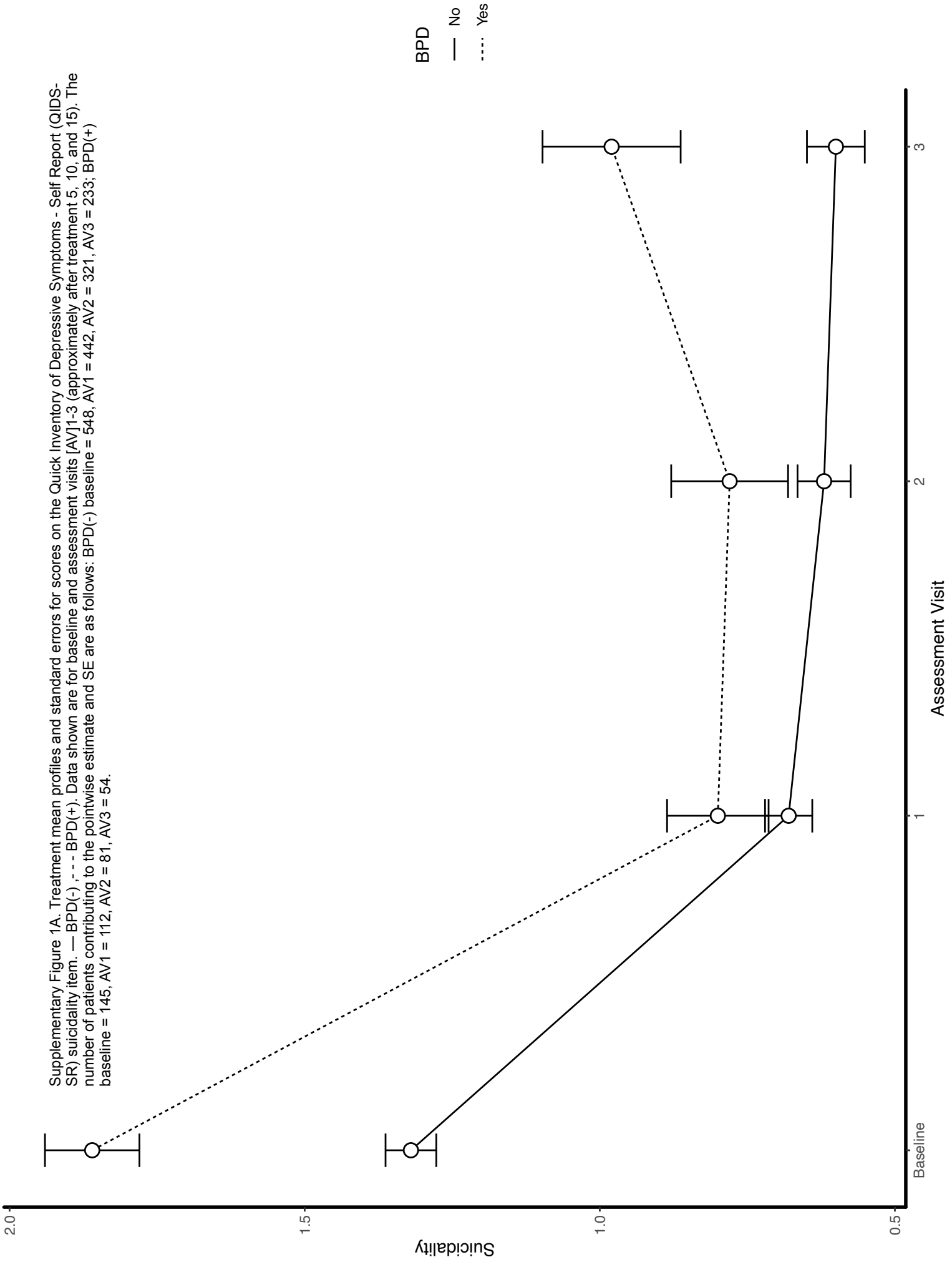
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model fitted to serial symptom cluster QIDS-SR scores

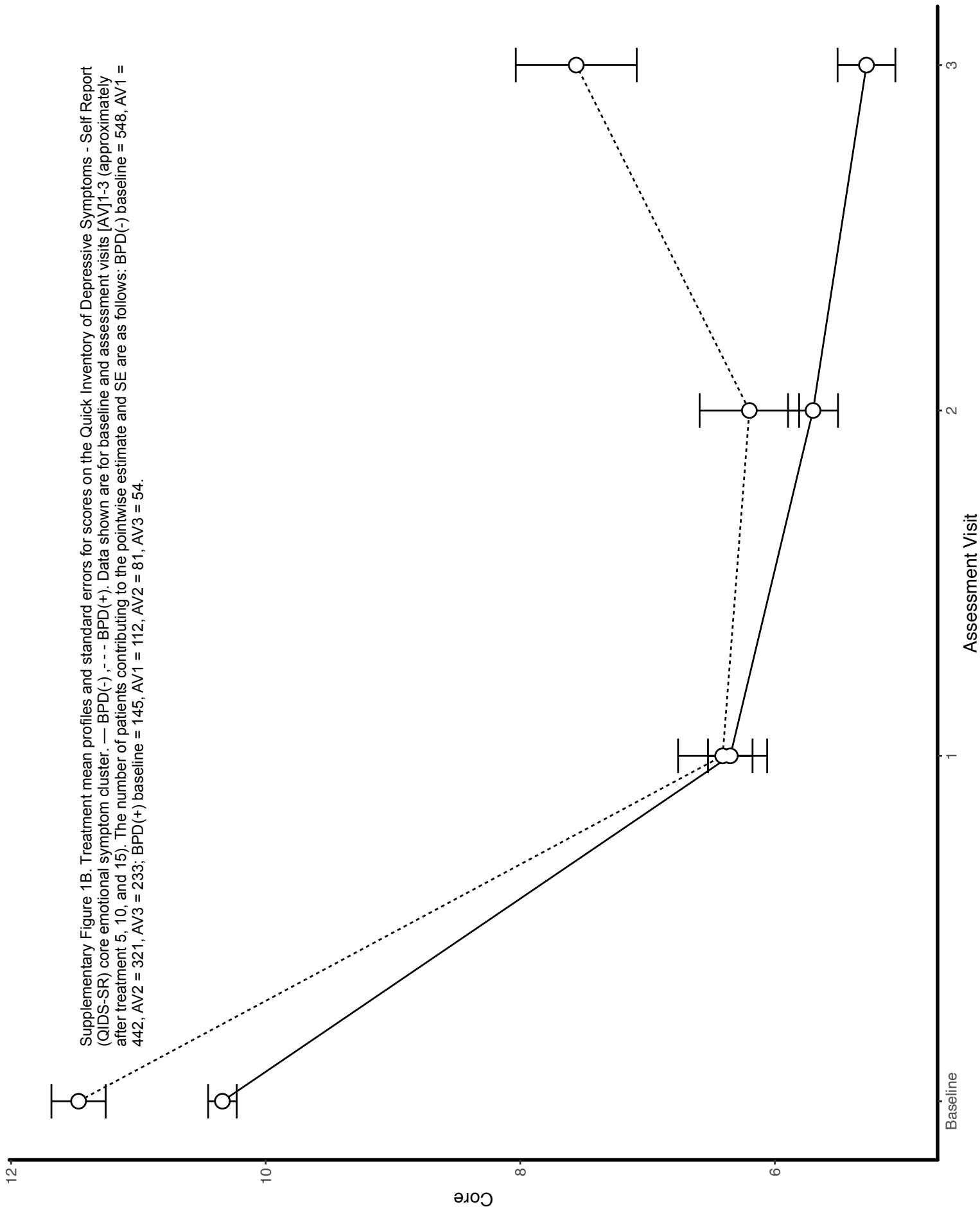
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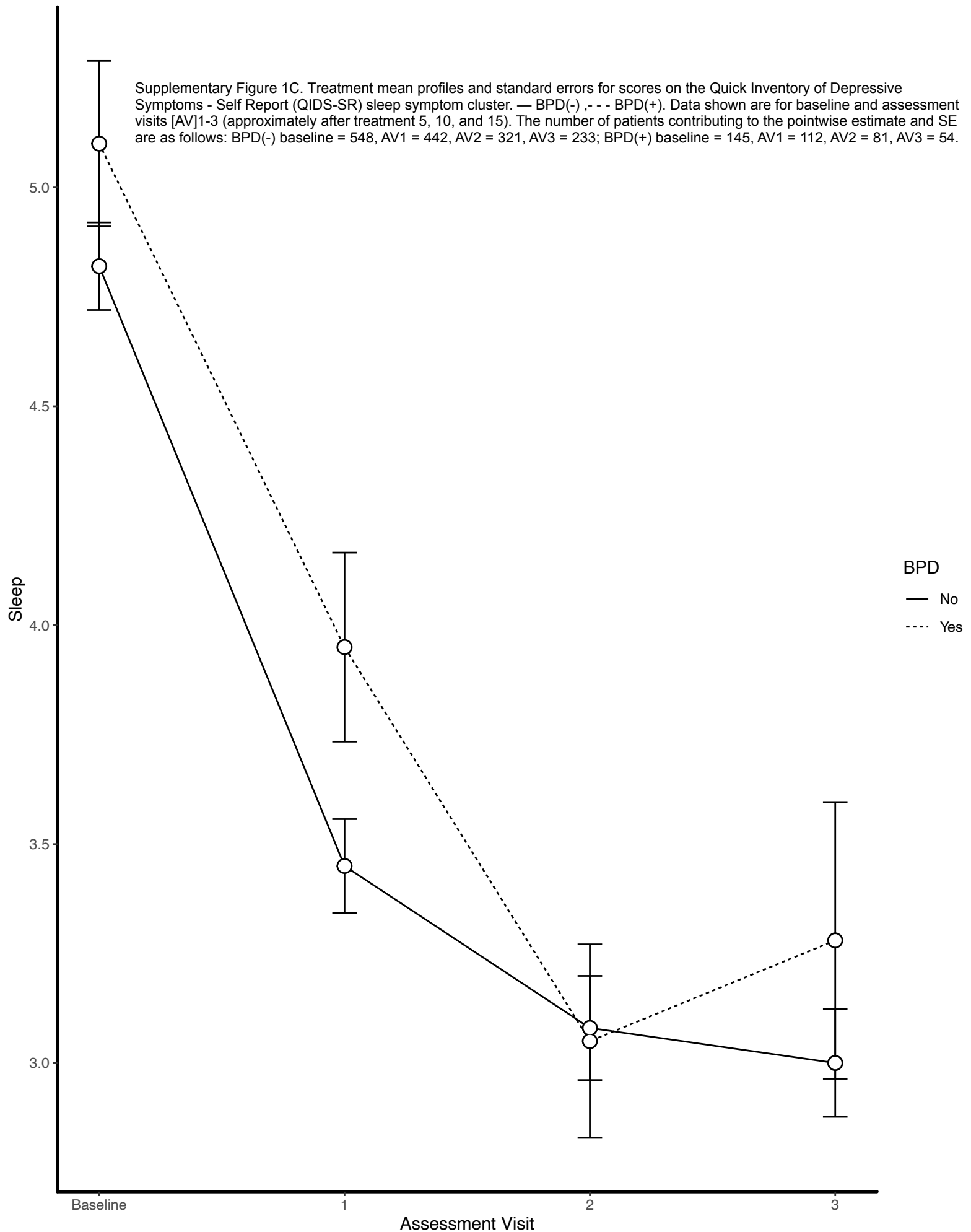
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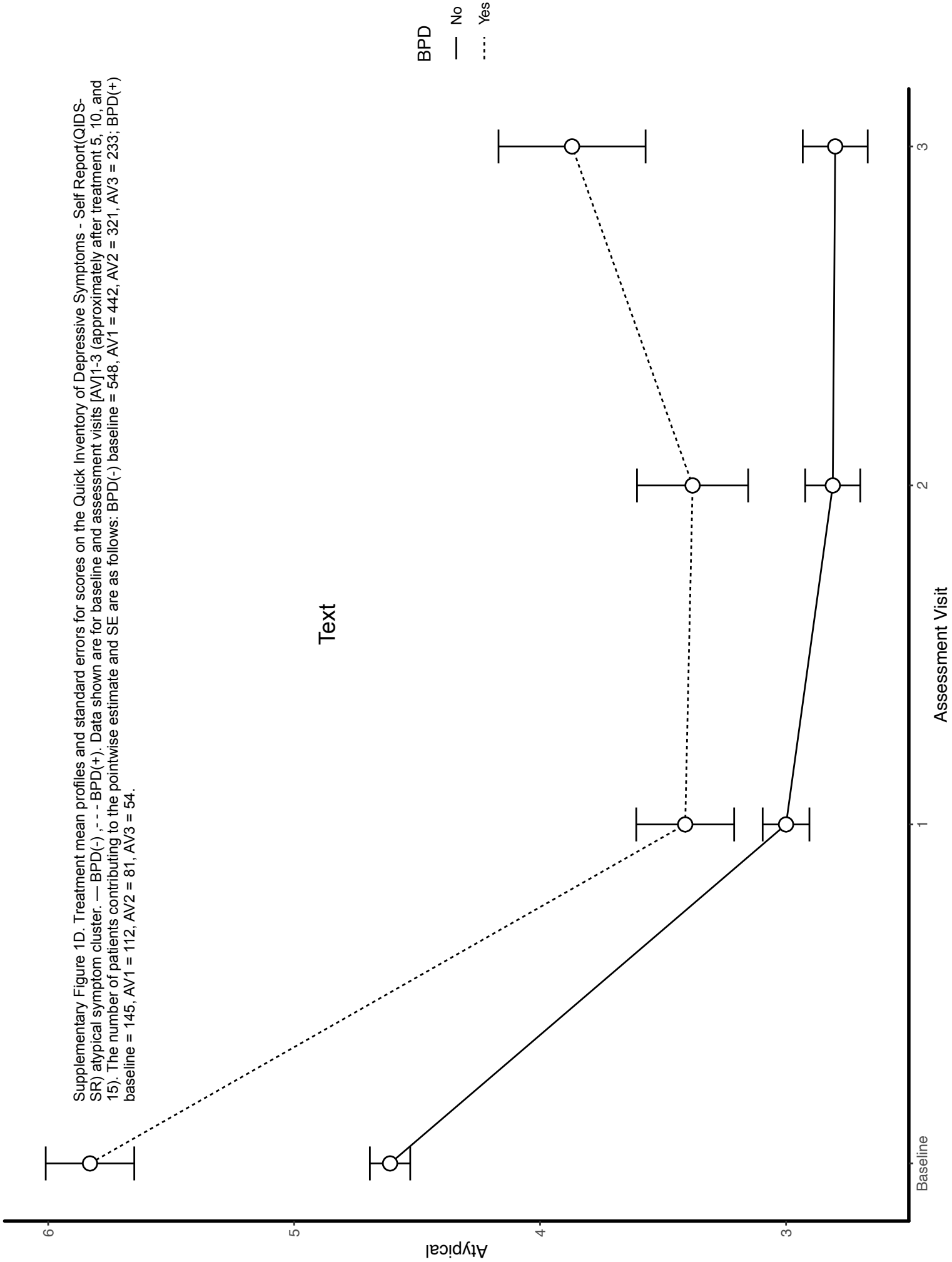
Supplementary Figure 1A. Treatment mean profiles and standard errors for scores on the Quick Inventory of Depressive Symptoms - Self Report (QIDS-SR) suicidality item. — BPD(-), - - BPD(+). Data shown are for baseline and assessment visits [AV]1-3 (approximately after treatment 5, 10, and 15). The number of patients contributing to the pointwise estimate and SE are as follows: BPD(-) baseline = 548, AV1 = 442, AV2 = 321, AV3 = 233; BPD(+) baseline = 145, AV1 = 112, AV2 = 81, AV3 = 54.



Supplementary Figure 1C. Treatment mean profiles and standard errors for scores on the Quick Inventory of Depressive Symptoms - Self Report (QIDS-SR) sleep symptom cluster. — BPD(-), - - - BPD(+). Data shown are for baseline and assessment visits [AV]1-3 (approximately after treatment 5, 10, and 15). The number of patients contributing to the pointwise estimate and SE are as follows: BPD(-) baseline = 548, AV1 = 442, AV2 = 321, AV3 = 233; BPD(+) baseline = 145, AV1 = 112, AV2 = 81, AV3 = 54.



Supplementary Figure 1D. Treatment mean profiles and standard errors for scores on the Quick Inventory of Depressive Symptoms - Self Report (QIDS-SR) atypical symptom cluster. — BPD(-), - - - BPD(+). Data shown are for baseline and assessment visits [AV]1-3 (approximately after treatment 5, 10, and 15). The number of patients contributing to the pointwise estimate and SE are as follows: BPD(-) baseline = 548, AV1 = 442, AV2 = 321, AV3 = 233; BPD(+) baseline = 145, AV1 = 112, AV2 = 81, AV3 = 54.



Supplementary Table 1A (compare with Table 2 in main text). Parameter estimates*, standard errors, and confidence intervals for main effects model fitted to serial QIDS-SR scores. Last observation carried forward (LOCF) subset. Assessment visits to treatment 15.

	Estimated regression coefficient	SE	95% CI lower limit	95% CI upper limit
Intercept	16.42	0.33	15.77	17.07
Baseline QIDS-SR (mean-centered 18.03)	0.61	0.04	0.53	0.69
Age (mean-centered 45.7)	-0.04	0.01	-0.06	-0.02
Gender (0 = female)	-0.05	0.34	-0.72	0.62
Hospitalized within the past 6 mos (0 = no)	-0.34	0.34	-1.01	0.33
Self-rated physical health (0 = good/excellent)	0.72	0.44	-0.14	1.58
Substance use disorder (0 = no)	-0.37	0.71	-1.76	1.02
Treatment/assessment visit (0 = baseline)	-1.90	0.08	-2.06	-1.74
Borderline personality disorder (0 = no)	0.44	0.42	-0.38	1.26

*The parameters are regression coefficients and are interpreted in the usual way, i.e. they give the change in the outcome measure (total QIDS-SR score) from baseline (the Intercept) corresponding to a unit change in the particular covariate, conditional on the other covariates remaining constant. CI = confidence interval. QIDS-SR = Quick Inventory of Depressive Symptomatology-Self Report. SE = standard error.

Supplementary Table 1B (compare with Table 2 in main text). Parameter estimates*, standard errors, and confidence intervals for main effects model fitted to serial QIDS-SR scores. Completers subset. Assessment visits to treatment 15.

	Estimated regression coefficient	SE	95% CI lower limit	95% CI upper limit
Intercept	16.90	0.42	16.08	17.72
Baseline QIDS-SR (mean-centered 18.03)	0.57	0.06	0.45	0.69
Age (mean-centered 45.7)	-0.03	0.01	-0.05	-0.01
Gender (0 = female)	-0.37	0.43	-1.21	0.47
Hospitalized within the past 6 mos (0 = no)	-1.39	0.4	-2.17	-0.61
Self-rated physical health (0 = good/excellent)	1.48	0.57	0.36	2.60
Substance use disorder (0 = no)	-1.70	0.89	-3.44	0.04
Treatment/assessment visit (0 = baseline)	-2.37	0.14	-2.64	-2.10
Borderline personality disorder (0 = no)	0.34	0.49	-0.62	1.30

*The parameters are regression coefficients and are interpreted in the usual way, i.e. they give the change in the outcome measure (total QIDS-SR score) from baseline (the Intercept) corresponding to a unit change in the particular covariate, conditional on the other covariates remaining constant. CI = confidence interval. QIDS-SR = Quick Inventory of Depressive Symptomatology-Self Report. SE = standard error.

Supplementary Table 1C (compare with Table 2 in main text). Parameter estimates*, standard errors, and confidence intervals for main effects model fitted to serial QIDS-SR scores. The whole cohort. Assessment visits to treatment 10.

	Estimated regression coefficient	SE	95% CI lower limit	95% CI upper limit
Intercept	17.71	0.27	17.18	18.24
Baseline QIDS-SR (mean-centered 18.03)	0.68	0.03	0.62	0.74
Age (mean-centered 45.7)	-0.03	0.008	-0.05	-0.01
Gender (0 = female)	-0.12	0.27	-0.65	0.41
Hospitalized within the past 6 mos (0 = no)	-0.8	0.26	-1.31	-0.29
Self-rated physical health (0 = good/excellent)	0.86	0.34	0.19	1.53
Substance use disorder (0 = no)	-0.77	0.57	-1.89	0.35
Treatment/assessment visit (0 = baseline)	-4.06	0.15	-4.35	-3.77
Borderline personality disorder (0 = no)	-0.21	0.33	-0.86	0.44

*The parameters are regression coefficients and are interpreted in the usual way, i.e. they give the change in the outcome measure (total QIDS-SR score) from baseline (the Intercept) corresponding to a unit change in the particular covariate, conditional on the other covariates remaining constant. CI = confidence interval. QIDS-SR = Quick Inventory of Depressive Symptomatology-Self Report. SE = standard error.

Supplementary Table 2A (compare with Table 3 in main text). Parameter estimates (β)*, standard errors, and p-values for main effects model fitted to serial symptom cluster QIDS-SR scores. Last observation carried forward (LOCF). Assessment visits to treatment 15.

	Treatment visit [β (SE, p-value)]	BPD [β (SE, p-value)]
QIDS-SR Suicidality item score (range 0-3, baseline mean [SD] = 1.44 [1.02])	-0.20 (0.01, p < 0.0001)	-0.05 (0.06, p = 0.39)
QIDS-SR Core Emotional cluster (score range 0-15, baseline mean [SD] = 10.57 [2.65])	-1.27 (0.05, p < 0.0001)	0.31 (0.28, p = 0.30)
QIDS-SR Insomnia cluster (score range 0-9, baseline mean [SD] = 4.88 [2.34])	-0.42 (0.03, p < 0.0001)	0.11 (0.15, p = 0.48)
QIDS-SR Atypical Symptom cluster (score range 0-12 baseline mean [SD] = 4.87 [2.03])	-0.50 (0.03, p < 0.0001)	0.25 (0.16, p = 0.11)

*The parameters are regression coefficients and are interpreted in the usual way, i.e. they give the change in the outcome measure (QIDS-SR symptom cluster) from baseline corresponding to a unit change in the particular covariate (i.e., each treatment visit, BPD(+) vs BPD(-)), conditional on the other covariates remaining constant. BPD = borderline personality disorder. CI = confidence interval. QIDS-SR = Quick Inventory of Depressive Symptomatology-Self Report. SE = standard error. SD = standard deviation.

Supplementary Table 2B (compare with Table 3 in main text). Parameter estimates (β)*, standard errors, and p-values for main effects model fitted to serial symptom cluster QIDS-SR scores. Completers subset. Assessment visits to treatment 15.

	Treatment visit [β (SE, p-value)]	BPD [β (SE, p-value)]
QIDS-SR Suicidality item score (range 0-3, baseline mean [SD] = 1.44 [1.02])	-0.25 (0.02, p < 0.0001)	-0.07 (0.08, p = 0.36)
QIDS-SR Core Emotional cluster (score range 0-15, baseline mean [SD] = 10.57 [2.65])	-1.59 (0.09, p < 0.0001)	0.50 (0.33, p = 0.13)
QIDS-SR Insomnia cluster (score range 0-9, baseline mean [SD] = 4.88 [2.34])	-0.57 (0.05, p < 0.0001)	0.05 (0.19, p = 0.79)
QIDS-SR Atypical Symptom cluster (score range 0-12 baseline mean [SD] = 4.87 [2.03])	-0.61 (0.06, p < 0.0001)	0.09 (0.20, p = 0.67)

*The parameters are regression coefficients and are interpreted in the usual way, i.e. they give the change in the outcome measure (QIDS-SR symptom cluster) from baseline corresponding to a unit change in the particular covariate (i.e., each treatment visit, BPD(+) vs BPD(-)), conditional on the other covariates remaining constant. BPD = borderline personality disorder. CI = confidence interval. QIDS-SR = Quick Inventory of Depressive Symptomatology-Self Report. SE = standard error. SD = standard deviation.

Supplementary Table 2C (compare with Table 3 in main text). Parameter estimates (β)*, standard errors, and p-values for main effects model fitted to serial symptom cluster QIDS-SR scores. The whole cohort. Assessment visits to treatment 10.

	Treatment visit [β (SE, p-value)]	BPD [β (SE, p-value)]
QIDS-SR Suicidality item score (range 0-3, baseline mean [SD] = 1.44 [1.02])	-0.44 (0.03, p < 0.0001)	-0.10 (0.05, p = 0.07)
QIDS-SR Core Emotional cluster (score range 0-15, baseline mean [SD] = 10.57 [2.65])	-2.66 (0.10, p < 0.0001)	-1.10 (0.22, p = 0.64)
QIDS-SR Insomnia cluster (score range 0-9, baseline mean [SD] = 4.88 [2.34])	-0.95 (0.06, p < 0.0001)	-0.001 (0.13, p = 0.99)
QIDS-SR Atypical Symptom cluster (score range 0-12 baseline mean [SD] = 4.87 [2.03])	-1.10 (0.06, p < 0.0001)	0.06 (0.13, p = 0.66)

*The parameters are regression coefficients and are interpreted in the usual way, i.e. they give the change in the outcome measure (QIDS-SR symptom cluster) from baseline corresponding to a unit change in the particular covariate (i.e., each treatment visit, BPD(+) vs BPD(-)), conditional on the other covariates remaining constant. BPD = borderline personality disorder. CI = confidence interval. QIDS-SR = Quick Inventory of Depressive Symptomatology-Self Report. SE = standard error. SD = standard deviation.