

Supplementary Material

Supplementary Table 1: Statistical comparison of the 25 facets and the 5 domains evaluated using the PID-5 between BPD patients and healthy controls.

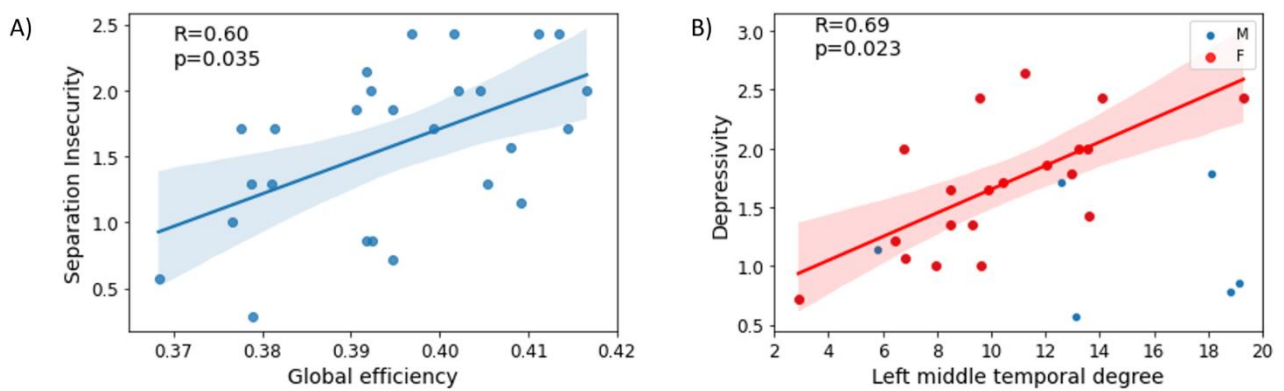
Scale	BPD Mean (SD)	HC Mean (SD)	Adjusted p-value	Significance
<i>Negative Affectivity-s</i>	5.53 (1.64)	1.96 (1.54)	0.000003	****
<i>Negative Affectivity-m</i>	1.91 (0.41)	0.67 (0.52)	0.000000	****
<i>Emotional lability</i>	2.61 (1.32)	0.66 (0.62)	0.000000	****
<i>Anxiousness</i>	2.14 (1.45)	0.84 (0.59)	0.000024	****
<i>Separation insecurity</i>	1.86 (1.52)	0.47 (0.53)	0.000006	****
<i>Hostility</i>	1.75 (1.09)	0.55 (0.46)	0.000048	****
<i>Perseveration</i>	1.41 (0.47)	0.70 (0.56)	0.001220	**
<i>Restricted affectivity</i>	1.30 (1.42)	0.62 (0.59)	0.104146	
<i>Submissiveness</i>	1.38 (1.13)	0.69 (0.66)	0.131648	
<i>Detachment-s</i>	3.46 (1.18)	1.40 (1.23)	0.000069	****
<i>Detachment-m</i>	1.06 (0.50)	0.47 (0.41)	0.003398	**
<i>Withdrawal</i>	1.36 (1.22)	0.46 (0.47)	0.001143	**
<i>Anhedonia</i>	2.12 (2.80)	0.52 (0.43)	0.000012	****
<i>Intimacy avoidance</i>	1.05 (1.83)	0.43 (0.48)	0.706273	
<i>Depressivity</i>	2.02 (2.41)	0.30 (0.37)	0.000000	****
<i>Suspiciousness</i>	1.77 (2.07)	0.59 (0.40)	0.000017	****
<i>Antagonism-s</i>	2.42 (1.97)	0.74 (0.96)	0.003363	**
<i>Antagonism-m</i>	0.9 (0.62)	0.25 (0.32)	0.000823	***
<i>Manipulativeness</i>	0.79 (0.76)	0.25 (0.31)	1.000000	
<i>Deceitfulness</i>	1.09 (0.79)	0.27 (0.42)	0.000121	***
<i>Grandiosity</i>	0.70 (0.70)	0.22 (0.32)	0.112461	
<i>Attention seeking</i>	1.29 (0.81)	0.74 (0.52)	0.400633	
<i>Callousness</i>	0.99 (1.31)	0.18 (0.21)	0.000464	***
<i>Disinhibition-s</i>	4.68 (1.24)	1.05 (0.91)	0.000000	****
<i>Disinhibition-m</i>	1.56 (0.41)	0.38 (0.31)	0.000000	****
<i>Irresponsibility</i>	1.44 (1.23)	0.27 (0.24)	0.000001	****
<i>Impulsivity</i>	1.72 (0.55)	0.40 (0.53)	0.000001	****
<i>Distractibility</i>	2.32 (2.54)	0.40 (0.36)	0.000000	****
<i>Perfectionism</i>	1.07 (0.63)	1.00 (0.78)	1.000000	
<i>Risk taking</i>	2.24 (2.16)	1.11 (0.34)	0.000016	****
<i>Psychoticism-s</i>	2.35 (1.16)	0.58 (0.72)	0.000005	****
<i>Psychoticism-m</i>	0.78 (0.39)	0.19 (0.24)	0.000005	****
<i>Unusual beliefs and experiences</i>	0.55 (0.65)	0.13 (0.23)	0.393830	
<i>Eccentricity</i>	1.85 (2.48)	0.41 (0.51)	0.000034	****

<i>Perceptual dysregulation</i>	1.32 (1.81)	0.16 (0.25)	0.000013	****
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-s: sum of the scores from each facet of the domain; -m: mean of the scores of each facet of the domain. *: p<0.05; **: p<0.01; ***: p<0.001; ****: p<0.0001.

Supplementary Table 2: Pearson's correlation between global graph measures and head motion during fMRI acquisition, measured as relative root mean squared displacement. No significant correlations were found.

Graoh metric	Pearson's R	p-value
<i>Average local efficiency</i>	-0.14	0.30
<i>Global efficiency</i>	0.14	0.32
<i>Average clustering coefficient</i>	-0.15	0.28
<i>Characteristic path length</i>	-0.13	0.34
<i>Small-Worldness</i>	-0.12	0.37
<i>Largest connected component</i>	-0.12	0.40



Supplementary Figure 1: Scatterplots of the statistically significant correlations between clinical variables and graph properties in BPDs. A) Correlation between the global efficiency and the separation insecurity score in the entire BPD sample. B) Correlation between the degree of the left middle temporal cortex and the depressivity score in the BPD female subsample. M: male; F: female.