**Preserved Error-Monitoring in Borderline Personality Disorder Patients with and without Non-Suicidal Self-Injury Behaviors**

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***- Supporting Information -***

**Table A.** Medication prescription of BPD patients

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | NI-BPD(n = 17) |  | SI-BPD(n = 17) |  | Group differences |
|  | N | % |  | N | % |  | *Chi2* | *p* |
| Medication |  |  |  |  |  |  |  |  |
| SSRI | 8 | 47.1 |  | 8 | 47.1 |  | 0 | 1 |
| ATP | 5 | 29.4 |  | 5 | 29.4 |  | 0 | 1 |
| BZD | 8 | 47.1 |  | 11 | 64.7 |  | 1.07 | .300 |
| MS | 8 | 47.1 |  | 9 | 52.9 |  | .12 | .731 |

Notes. *SSRI*, Selective serotonin reuptake inhibitors; *ATP*, antipsychotic medications; *BZD*, benzodiazepines; *MS*, mood-stabilizing drugs.

**Table B.** Comorbidity in the BPD group

|  |  |  |  |
| --- | --- | --- | --- |
|  | NI-BPD(n = 17) |  | SI-BPD(n = 17) |
|  | N | % |  | N | % |
| **DSM-IV Axis I** |  |  |  |  |  |
| Past  |  |  |  |  |  |
| MDD | 7 | 41.2 |  | 9 | 52.9 |
| Any anxiety disordera | 2 | 11.8 |  | 3 | 17.6 |
| Eating disorderb | 4 | 23.5 |  | 3 | 17.6 |
| Substance abusec | 4 | 23.5 |  | 6 | 35.3 |
| Current  |  |  |  |  |  |
| Any anxiety disordera | 2 | 11.8 |  | 7 | 41.2 |
| Eating disorderb | 4 | 23.5 |  | 4 | 23.5 |
| Substance abusec | 4 | 23.5 |  | 8 | 47.1 |
| Otherd | 2 | 11.8 |  | 2 | 11.8 |
| **DSM-IV Axis II** |  |  |  |  |  |
| Cluster Ae | 0 | 0 |  |  5 | 29.4 |
| Paranoid | 0 | 0 |  |  4 | 23.5 |
| Schizotypal | 0 | 0 |  |  2 | 11.8 |
| Cluster Bf | 1 | 5.9 |  | 6 | 35.3 |
| Histrionic | 0 | 0 |  | 1 | 5.9 |
| Antisocial | 1 | 5.9 |  | 5 | 29.4 |
| Cluster Cg  | 5 | 29.4 |  | 4 | 23.6 |
| Avoidant | 1 | 5.9 |  | 2 | 11.8 |
| Dependent | 5 | 29.4 |  | 2 | 11.8 |

Notes. *MDD*, Major depressive disorder.

a Any anxiety disorder

b Any eating disorder

c Any substance use disorder

d Any other disorder such as adaptive disorder

e Any cluster A personality disorder (paranoid, schizoid or schizotypal)

f Any cluster B personality disorder (antisocial, histrionic or narcissistic)

g Any cluster C personality disorder (obsessive-compulsive, dependent or avoidant)

**Behavioral Results**

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**Figure A. Behavioral data for controls (light grey), SI-BPD (grey) and NI-BPD (dark grey) individuals**. A. Mean reaction times (±SEM) from completed correct compatible and incompatible trials; and mean percentage (±SEM) of correct trials from go condition. B. Mean reaction times (±SEM) from completed correct and error trials; and mean percentage (±SEM) of corrected errors from go trials. C. Mean reaction times (±SEM) from Stop Signal; and mean percentage (±SEM) of inhibited from stop trials. D. Mean of Post Error Slowing reaction times (±SEM).

**Filtered Response-locked ERP data**

 To discard differences in the response-locked activity between the Control and two BPD groups, we filtered the ERP response-locked data to differentiate between the activity associated to the delta (1-3 Hz) and theta frequencies (3-9 Hz).

 In addition, we firstly entered the theta-ERN mean amplitude (measured between 30-80 ms) and theta-Pe mean amplitude (measured between 185-265ms) in the same rmANOVA as the not filtered analysis. The increase in the theta-ERN activity after errors was confirmed by the significant main effect of Response [*F*(1,48) *=* 71.844, *p* < .001, *Ƞ*2 = .599]. Importantly, no main effect of Group [*F*(2,48) *=* .852, *p* = .433, *Ƞ*2 = .034] nor interaction Response x Group [*F*(2,48) *=* .769, *p* = .469, *Ƞ*2 = .031] were found, showing no theta-ERN amplitude differences between groups. On the other hand, no differences between correct and error trials were found in the theta-Pe time-window [main effect of Response: *F*(1,48) *=* 2.53, *p* = .12, *Ƞ*2 = .05], as well as no significant main effect of Group [*F*(2,48) *=* 1.8, *p* = .18, *Ƞ*2 = .07] nor interaction Response x Group effect [*F*(2,48) *=* .861, *p* = .429, *Ƞ*2 = .035] were encountered.

 Secondly, we entered the delta-ERN mean (measured between 30-80 ms) and delta-Pe (mean amplitude measured between 185-265 ms) amplitudes in the subsequent rmANOVA. No significant main effect of Response was found between the correct and error trials for delta-ERN [*F*(1,48) *=* 2.7, *p* = .11, *Ƞ*2 = .053], and no group differences were found as there were no main effect of Group [*F*(2,48) *=* .03, *p* = .971, *Ƞ*2 = .001] nor Response x Group interaction [*F*(2,48) *=* .024, *p* = .976, *Ƞ*2 = .001]. Error trials showed significant main effect of condition in the delta-Pe [*F*(1,48) *=* 75.889, *p* < .001; *Ƞ*2 = 0.613]. Importantly, no delta-Pe differences were found between groups [main effect of Group: *F*(2,48) *=* 1.025, *p* = .367, *Ƞ*2 = .041; interaction Response x Group: *F*(2,48) *=* .596, *p* = .555; , *Ƞ*2 = .024].