**Supplementary Materials**

**Figures**

* Figure S1. LSF exploratory results with FFA seed for AN vs BDD
* Figure S2. HSF exploratory results with FFA seed for all groups
* Figure S3. Behavioral results: Response time
* Figure S4. Behavioral results: Accuracy
* Figure S5. Comparison with sex as a covariate to compare to Figure 3a.

BDD>AN for Anterior Occipital Face Area to FFA for LSF stimuli

* Figure S6. GLM results for LSF and HSF faces by group
* Figure S7. GLM results LSF stimuli, for HC>BDD

# Tables

* Table S1. LSF Exploratory connectivity for AN vs BDD
* Table S2. Salience network connectivity
* Table S3. Post Hoc Ratings of Degree of Self-Referential thinking
* Table S4. Comorbidities for AN and BDD

**Supplementary\_Methods.docx**

* Method for leave-one-subject-out analysis (LOSO).
* Method for linear regressions of connectivity and psychometrics
* Method for image quality control, motion measurement, and exclusion
* Method for examining direction of connectivity differences
* Supplemental information regarding comorbidities in AN and BDD
* Questionnaire regarding ratings of neutral-faces photos
* References for Supplementary Materials