

Neural Signaling of Cortisol, Childhood Emotional Abuse, and Depression-related Memory Bias

Supplemental Information

Inclusion Criteria

- Female
- 18 to 45 years of age
- English fluency
- Able to lie still on their back for up to 90 minutes
- Willing and able to return for all visits
- Able to provide written informed consent prior to participation
- In good physical health as determined by medical history
- If a nicotine user, able to refrain from nicotine use for 2 hours prior to fMRI scanning and throughout the scan visits
- Additional criteria for never-depressed subjects: Free of current or past DSM-5 diagnoses of MDD or other depressive disorders
- Additional criteria for subjects with current or past depression: Meets DSM-5 criteria for a current or past depressive disorder diagnosis

Exclusion Criteria

- Lifetime history of psychosis or mania
- Substance use disorder within the last 6 months
- Significant risk for suicide
- Claustrophobia
- Acute or chronic physical (non-psychiatric) illness
- Daily nicotine use

- Use of antidepressants, other psychotropic medication, or medications that alter glucocorticoids
- Hormonal contraceptives
- Peri- or postmenopausal signs
- Highly irregular periods
- Pregnancy or breastfeeding within the last 6 months
- Illicit drug use within the last 4 weeks (verified by negative urinary drug test)

Table S1. DSM-5 Diagnoses for Each Participant by CTQ Emotional Abuse Group

Table S1a. CTQ Emotional Abuse Group: **Minimal**

Participant	Depressive Disorder Diagnoses	Other Diagnoses
1	None	None
2	None	None
3	None	None
4	None	None
5	None	None
6	None	None
7	None	None
8	None	None
9	None	None
10	None	None
11	None	None
12	None	None
13	None	None
14	None	None
15	None	None
16	None	None
17	None	None
18	None	None
19	None	None
20	None	None
21	None	None

Participant	Depressive Disorder Diagnoses	Other Diagnoses
22	None	None
23	None	Social Anxiety Disorder, Performance Only
24	Major Depressive Disorder, Single Episode, In Full Remission	Specific Phobia, Animal
25	Major Depressive Disorder, Single Episode, In Full Remission	None
26	Major Depressive Disorder, Recurrent Episode, In Full Remission	None
27	Persistent Depressive Disorder, Early Onset, With Intermittent Major Depressive Episodes, Without Current Episode, Moderate	Social Anxiety Disorder
28	Major Depressive Disorder, Recurrent Episode, In Full Remission	None
29	Persistent Depressive Disorder, In Full Remission, Early Onset, With Intermittent Major Depressive Episodes, Without Current Episode	None
30	Major Depressive Disorder, Single Episode, In Full Remission	None
31	Persistent Depressive Disorder, In Full Remission, With Intermittent Major Depressive Episodes, Without Current Episode	Social Anxiety Disorder
32	Persistent Depressive Disorder, With Anxious Distress, In Full Remission, Late Onset, With Intermittent Major Depressive Episodes, Without Current Episode	None
33	Other Specified Depressive Disorder (Depressive episode with insufficient symptoms), In Full Remission	Specific Phobia, Animal & Natural Environment
34	Major Depressive Disorder, Recurrent Episode, In Full Remission, With Anxious Distress	None
35	Major Depressive Disorder, Recurrent Episode, In Full Remission	None
36	Major Depressive Disorder, Recurrent Episode, Moderate	Social Anxiety Disorder Generalized Anxiety Disorder
37	Major Depressive Disorder, Recurrent Episode, In Partial Remission	None

Participant	Depressive Disorder Diagnoses	Other Diagnoses
38	Persistent Depressive Disorder, With Intermittent Major Depressive Episodes, Without Current Episode, Moderate	None
39	Other Specified Depressive Disorder (Short-duration depressive episode)	None
40	Major Depressive Disorder, Recurrent Episode, Moderate	Social Anxiety Disorder, Performance Only
41	Major Depressive Disorder, Single Episode, Mild, With Anxious Distress	Specific Phobia, Animal Social Anxiety Disorder
42	Major Depressive Disorder, Recurrent Episode, Moderate	Social Anxiety Disorder Agoraphobia with Panic Attacks
43	Major Depressive Disorder, Recurrent Episode, Severe, With Anxious Distress, With Seasonal Pattern	Social Anxiety Disorder
44	Persistent Depressive Disorder, Early Onset, With Intermittent Major Depressive Episodes, With Current Episode, Moderate	None
45	Major Depressive Disorder, Recurrent Episode, Moderate	Specific Phobia, Natural Environment
46	Major Depressive Disorder, Recurrent Episode, In Partial Remission	Social Anxiety Disorder

Table S1b. CTQ Emotional Abuse Group: **Moderate**

Participant	Depressive Disorder Diagnoses	Other Diagnoses
1	None	None
2	None	None
3	None	None
4	None	None
5	None	None
6	Other Specified Depressive Disorder (Depressive episode with insufficient symptoms)	Generalized Anxiety Disorder Posttraumatic Stress Disorder, With Dissociative Symptoms (Depersonalization)
7	Persistent Depressive Disorder, Early Onset, With Intermittent Major Depressive Episodes, Without Current Episode, Mild	Social Anxiety Disorder
8	Major Depressive Disorder, Recurrent Episode, In Partial Remission, With Seasonal Pattern	None
9	Major Depressive Disorder, Recurrent Episode, In Full Remission, With Anxious Distress	None
10	Major Depressive Disorder, Recurrent Episode, In Full Remission, With Anxious Distress	None
11	Persistent Depressive Disorder, Late Onset, With Intermittent Major Depressive Episodes, With Current Episode, Moderate	Generalized Anxiety Disorder with Panic Attacks Social Anxiety Disorder
12	Major Depressive Disorder, Recurrent Episode, Moderate, With Seasonal Pattern	Social Anxiety Disorder with Panic Attacks Generalized Anxiety Disorder Posttraumatic Stress Disorder
13	Major Depressive Disorder, Recurrent Episode, Moderate	Generalized Anxiety Disorder with Panic Attacks Social Anxiety Disorder
14	Persistent Depressive Disorder, With Anxious Distress, Early Onset, With Intermittent Major Depressive Episodes, With Current Episode, Moderate	Generalized Anxiety Disorder Posttraumatic Stress Disorder

Table S1c. CTQ Emotional Abuse Group: **Severe**

Participant	Depressive Disorder Diagnoses	Other Diagnoses
1	None	None
2	Major Depressive Disorder, Single Episode, In Partial Remission	Specific Phobia, Animal
3	Persistent Depressive Disorder, In Full Remission, With Intermittent Major Depressive Episodes, Without Current Episode	None
4	Major Depressive Disorder, Recurrent Episode, In Partial Remission	Social Anxiety Disorder
5	Persistent Depressive Disorder, With Anxious Distress, In Partial Remission, Early Onset, With Intermittent Depressive Episodes, Without Current Episode	Social Anxiety Disorder
6	Persistent Depressive Disorder, Early Onset, With Intermittent Major Depressive Episodes, With Current Episode, Mild	Posttraumatic Stress Disorder, With Dissociative Symptoms
7	Major Depressive Disorder, Recurrent Episode, In Partial Remission	Generalized Anxiety Disorder Posttraumatic Stress Disorder
8	Persistent Depressive Disorder, Early Onset, With Intermittent Major Depressive Episodes, With Current Episode, Moderate	Social Anxiety Disorder
9	Persistent Depressive Disorder, Early Onset, With Intermittent Major Depressive Episodes, With Current Episode, Moderate	None
10	Major Depressive Disorder, Recurrent Episode, Severe, With Anxious Distress	Posttraumatic Stress Disorder with Panic Attacks Other Specified Anxiety Disorder (Subthreshold generalized anxiety disorder symptoms that pre-dated depression)
11	Persistent Depressive Disorder, Early Onset, With Persistent Major Depressive Episode, Moderate	Social Anxiety Disorder Specific Phobia, Blood-Injection-Injury Posttraumatic Stress Disorder with Panic Attacks, With Dissociative Symptoms
12	Persistent Depressive Disorder, With Intermittent Major Depressive Episodes, With Current Episode, Moderate	None

Participant	Depressive Disorder Diagnoses	Other Diagnoses
13	Persistent Depressive Disorder, With Anxious Distress, Early Onset, With Persistent Major Depressive Episode, Moderate	Social Anxiety Disorder Posttraumatic Stress Disorder with Panic Attacks
14	Persistent Depressive Disorder, With Anxious Distress, With Persistent Major Depressive Episode, Moderate	Generalized Anxiety Disorder Obsessive Compulsive Disorder, With Good Insight Specific Phobia, Natural Environment Posttraumatic Stress Disorder
15	Major Depressive Disorder, Recurrent Episode, Moderate, With Anxious Distress	None