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The development of the error-related negativity in large sample of adolescent females:
associations with anxiety symptoms

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Highlights

- A neural biomarker (the ERN) relates to anxiety symptoms in a large sample of children and adolescents
- The ERN relates to social anxiety symptoms, above other symptom dimensions
- The ERN increases across development
- Developmental increases in the ERN are partially mediated by increases in social anxiety symptoms

Abstract

Anxiety is the most common form of psychopathology and tends to begin early in the course of development. Given this, there is great interest in identifying developmental changes in neural systems that may delineate healthy versus anxious trajectories. A substantial amount of work has focused on the error-related negativity as a neural marker of anxiety. The ERN is a negative deflection in the event-related potential that occurs when individuals make mistakes and is increased in anxious individuals. A separate body of work has focused on normative developmental changes in the ERN - demonstrating an age-related increase in the ERN that occurs across childhood and adolescence. In the current study, we examine the ERN in relation to specific phenotypic

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