Associations between Social Anxiety Severity and Visual Attention Towards Eye Regions of Emotional Faces: Insights from Eye-Tracking



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INTRODUCTION

- Social anxiety disorder (SAD) may be related to avoidance of emotionally threatening stimuli.
- Eye-tracking research has yet to explicitly focus on differences in attention allocation to the eye region of emotional faces among adolescents with SAD relative to a control group.
- We sought to determine whether youth with SAD relative to controls demonstrated avoidance to the eye region of angry faces.

METHOD

- Pre-treatment data from two groups: a clinical sample of adolescents with SAD (n = 28, M age = 14.07 years) from a randomized controlled trial of a computerized treatment to reduce social anxiety symptoms and a control sample (n = 25, M age = 13.56 years).
- Social anxiety symptoms were assessed using the Screen for Child Anxiety Related Emotional Disorders (self-report).
- Eye-tracking data was collected using Tobii X60.
- The eye-tracking stimuli were from the NIMH Child Emotional Faces Picture Set consisting of teen faces.

Visual Attention to the Eye Region of Angry Faces is Associated with Social Anxiety

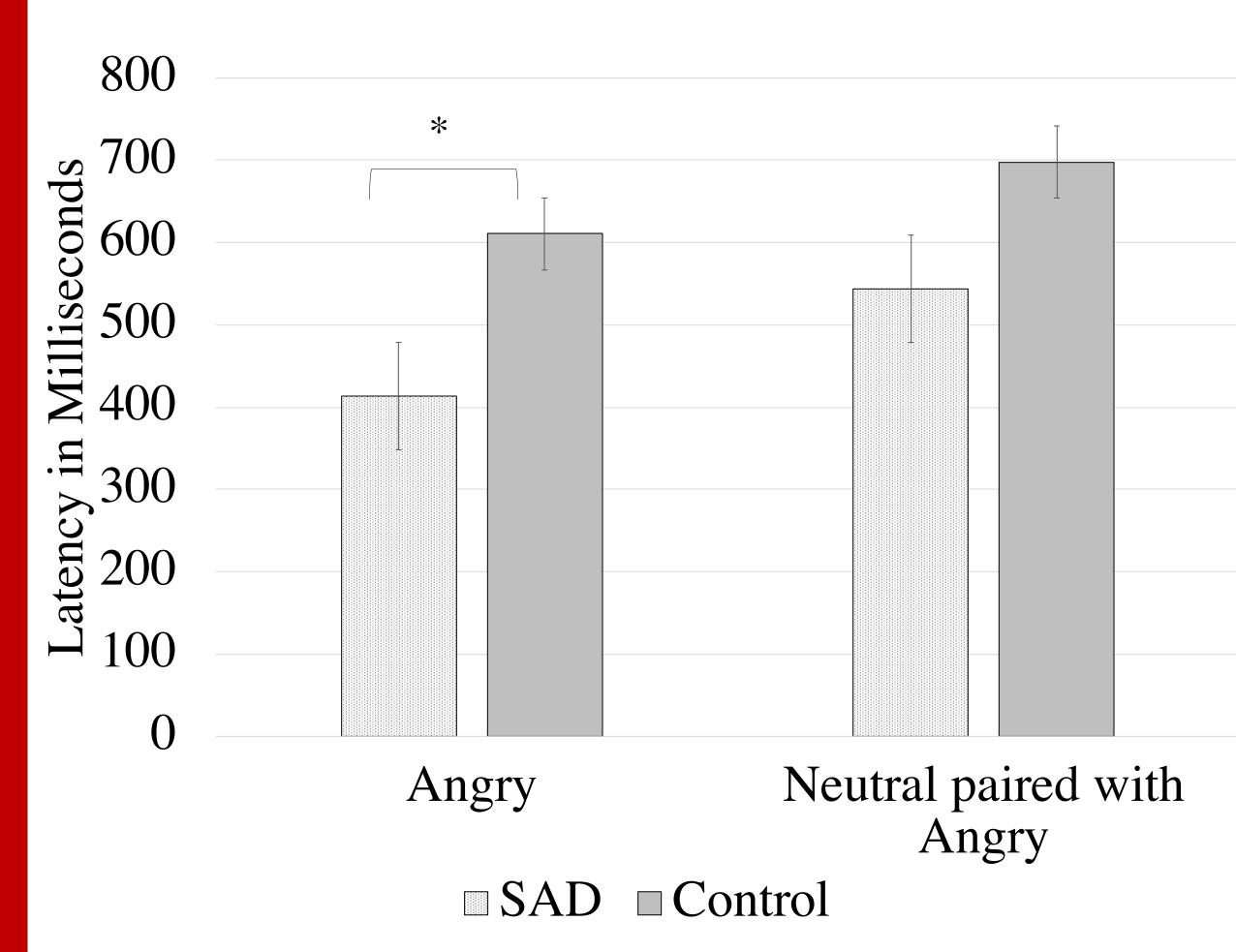


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RESULTS

- Adolescents first fixated on the eye region of angry faces more quickly than the paired neutral eye region, t = 2.769, p = .008, d = 0.429.
- Adolescents with SAD demonstrated shorter latencies to fixate on the eye region of angry faces compared with adolescents without SAD
- No significant group level differences emerged for latency to fixate on neutral faces when paired with angry faces.



DISCUSSION

- There is evidence for SAD specific differences in attention allocation to the eye region of angry faces compared to youth without SAD.
- Overall, these findings suggest that the eye region represents a salient facial feature for adolescents with SAD since eye contact provides a signal of potential social evaluation.