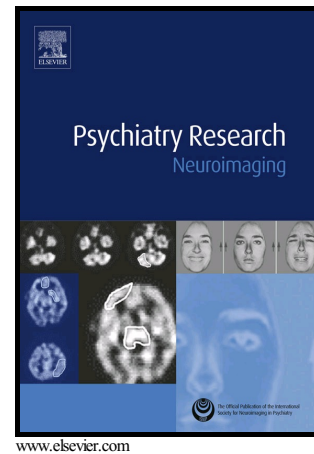


Author's Accepted Manuscript

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PII: S0925-4927(17)30005-7
DOI: <http://dx.doi.org/10.1016/j.psychresns.2017.06.008>
Reference: PSYN10705

To appear in: *Psychiatry Research: Neuroimaging*

Received date: 8 January 2017
Revised date: 16 June 2017
Accepted date: 17 June 2017

Cite this article as: Andrea L. Glenn, Hyemin Han, Yaling Yang, Adrian Raine and Robert A. Schug, Associations between psychopathic traits and brain activity during instructed false responding, *Psychiatry Research: Neuroimaging* <http://dx.doi.org/10.1016/j.psychresns.2017.06.008>

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Associations between psychopathic traits and brain activity during instructed false responding

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Abstract

Lying is one of the characteristic features of psychopathy, and has been recognized in clinical and diagnostic descriptions of the disorder, yet individuals with psychopathic traits have been found to have reduced neural activity in many of the brain regions that are important for lying. In this study, we examine brain activity in sixteen individuals with varying degrees of psychopathic traits during a task in which they are instructed to falsify information or tell the truth about autobiographical and non-autobiographical facts, some of which was related to criminal behavior. We found that psychopathic traits were primarily associated with increased activity in the anterior cingulate, various regions of the prefrontal cortex, insula, angular gyrus, and the inferior parietal lobe when participants falsified information of any type. Associations tended to be stronger when participants falsified information about criminal behaviors.

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