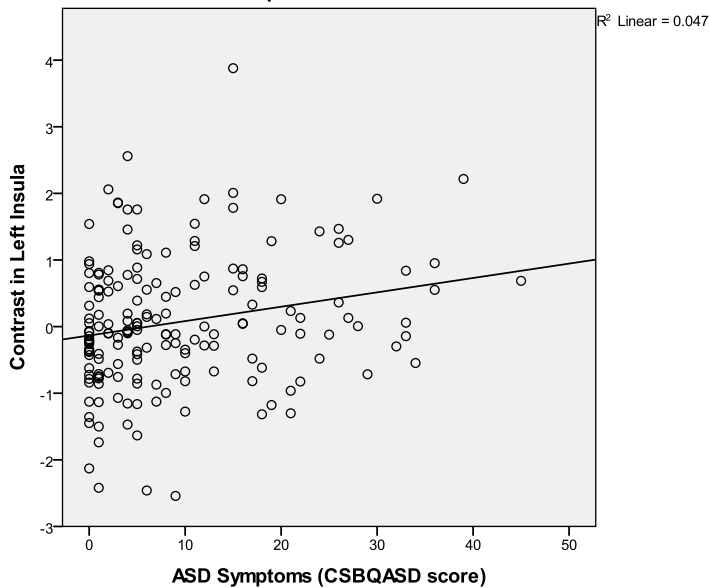


Additional File 6. Comparison of effects in Adults and Participants under 18

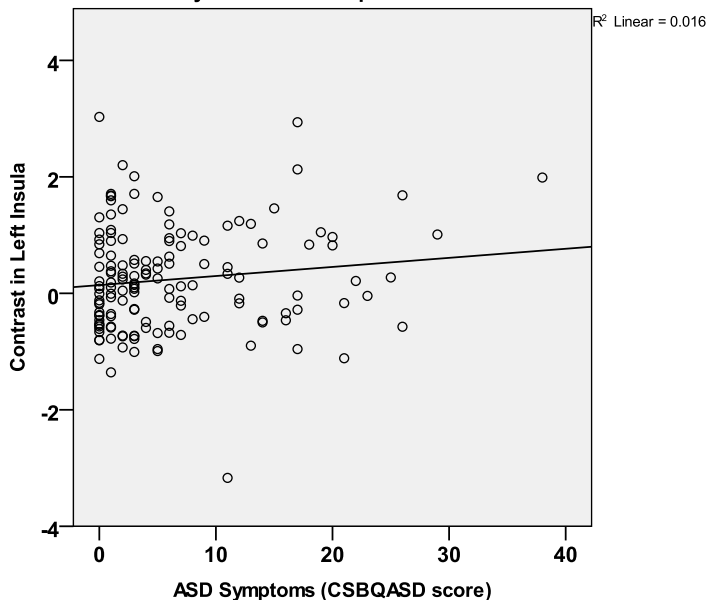
ASD Symptoms

Y-axes represent the left insular parameter estimates for each participant. X-axes represent their raw CSQBASD score. Effect of ASD symptoms in participants under 18 (n=179): $p=0.008$; Effect of ASD symptoms in adult participants (n=145): $p=0.168$. Effects are corrected for Age, Gender, IQ, Scansite, ADHD Symptoms, ODD/CD comorbidity, and Family ID. Explicitly including the factor Adults vs Children and its interaction with CSQBASD scores in the model above showed that there was no significant difference between the two age groups in the effect of ASD symptoms on insula activity during reward anticipation ($p>0.05$).

Association between ASD Symptoms and Left Insula Activity in Participants under 18



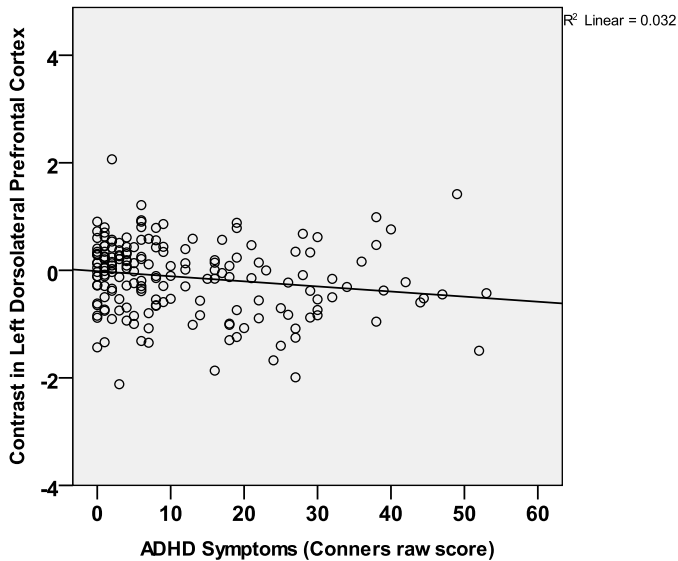
Association between ASD Symptoms and Left Insula Activity in Adult Participants



ADHD Symptoms

Y-axes represent the left dorsolateral prefrontal cortex parameter estimates for each participant. X-axes represent the sum of the raw CPRS-L scores on the inattentive and hyperactive/impulsivity subscales. Effect of ADHD symptoms in participants under 18 (n=179): $p=0.039$; Effect of ADHD symptoms in adult participants (n=145): $p=0.025$. Effects are corrected for Age, Gender, IQ, Scansite, ASD Symptoms, ODD/CD comorbidity and Family ID. Explicitly including the factor Adults vs Children and its interaction with ADHD Symptoms in the model above showed that there was no significant difference between the two age groups in the effect of ADHD symptoms on mid frontal activity during reward anticipation ($p>0.05$).

Association between ADHD Symptoms and Left Dorsolateral Prefrontal Activity in Participants under 18



Association between ADHD Symptoms and Left Dorsolateral Prefrontal Cortex in Adult Participants

