

# The relationship between autism spectrum disorder and prodromal psychosis in the Adolescent Brain Cognitive Development cohort

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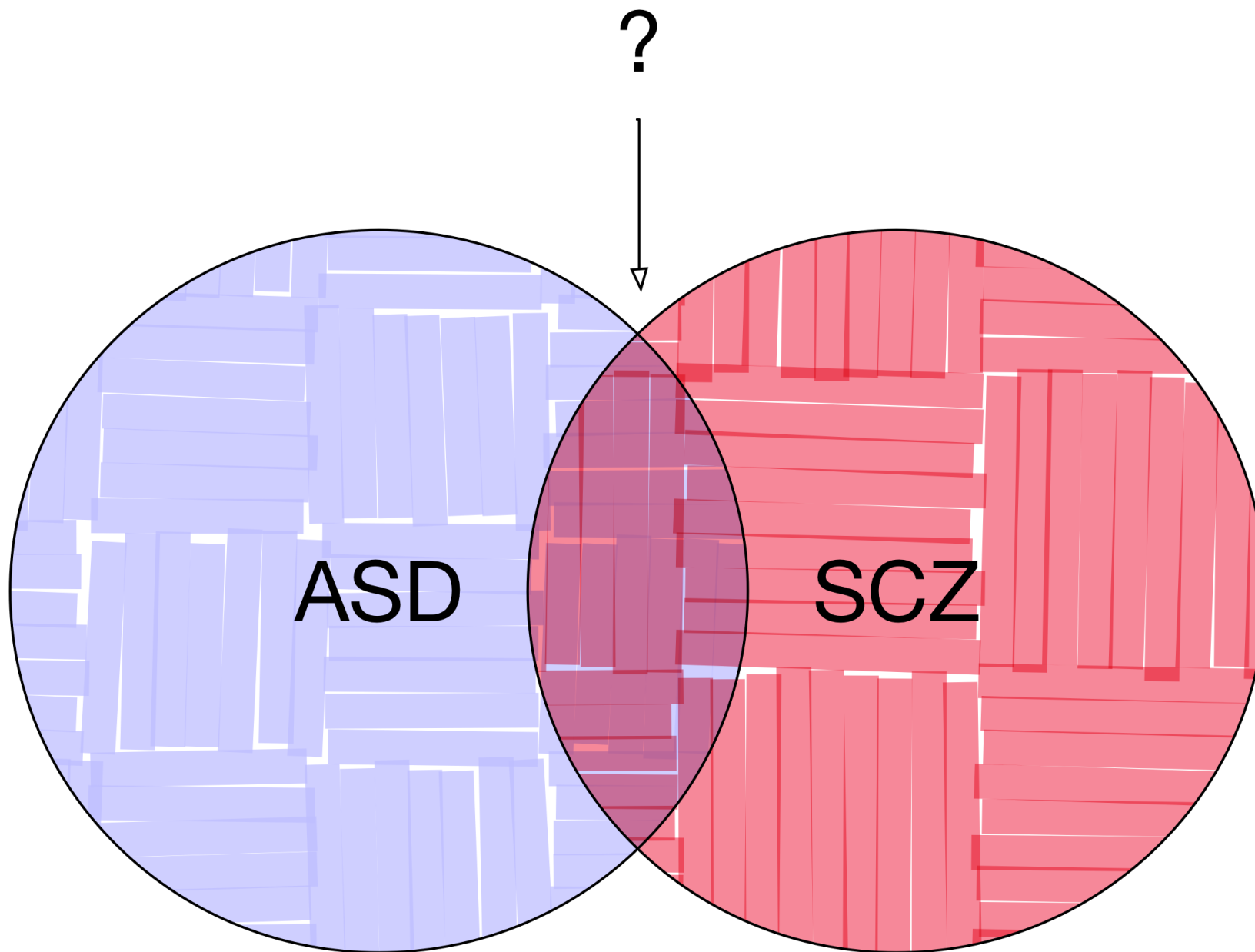
Whitaker Scholars in Developmental Neuropsychiatry Program

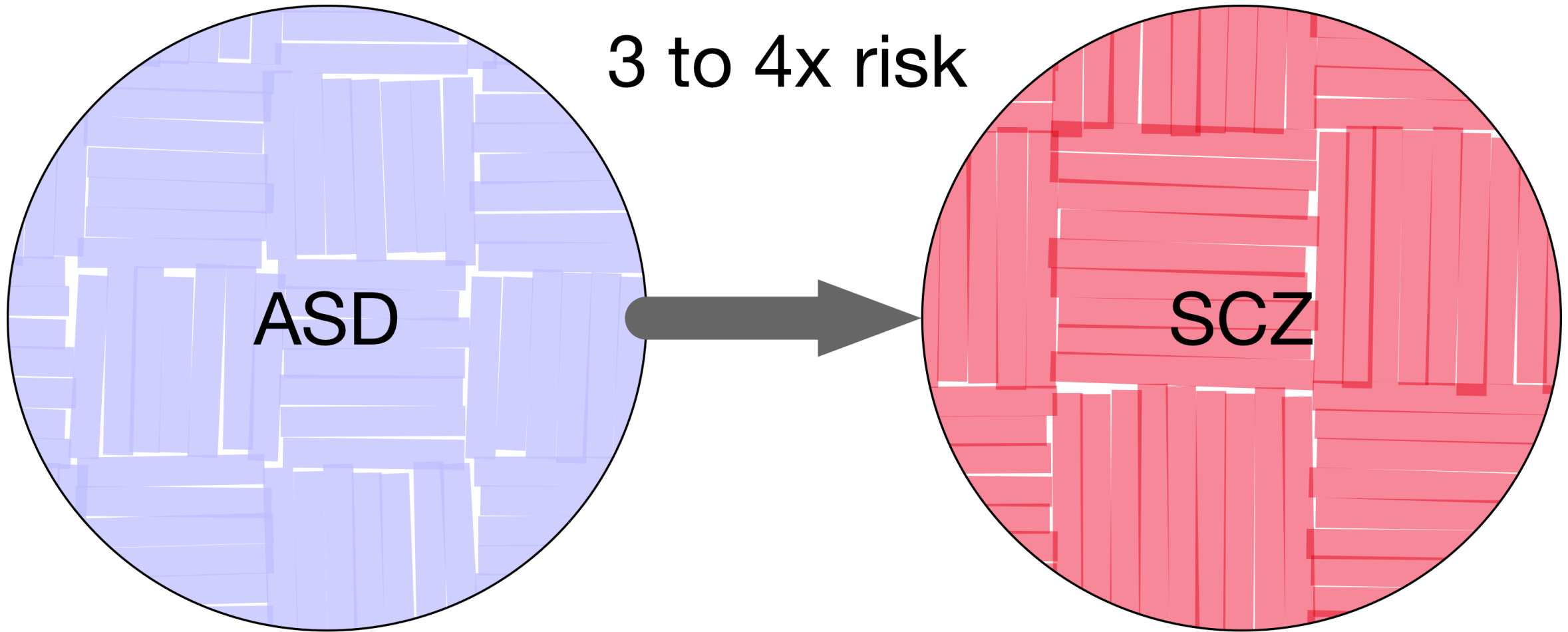
Division of Child & Adolescent Psychiatry

Columbia University & New York State Psychiatric Institute

American College of Neuropsychopharmacology, 58<sup>th</sup> Annual Meeting

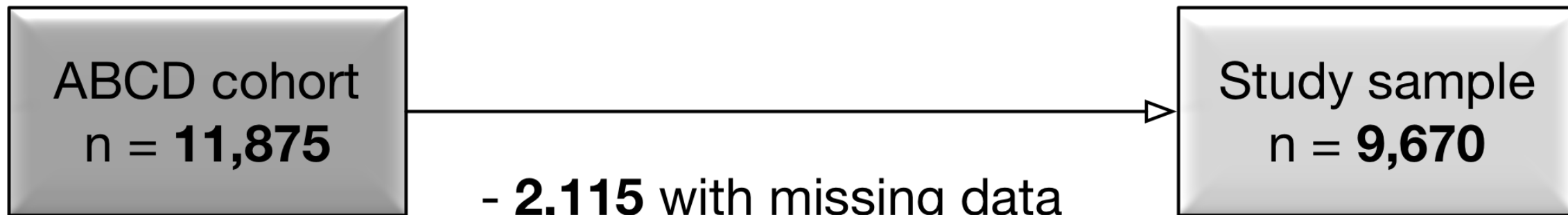
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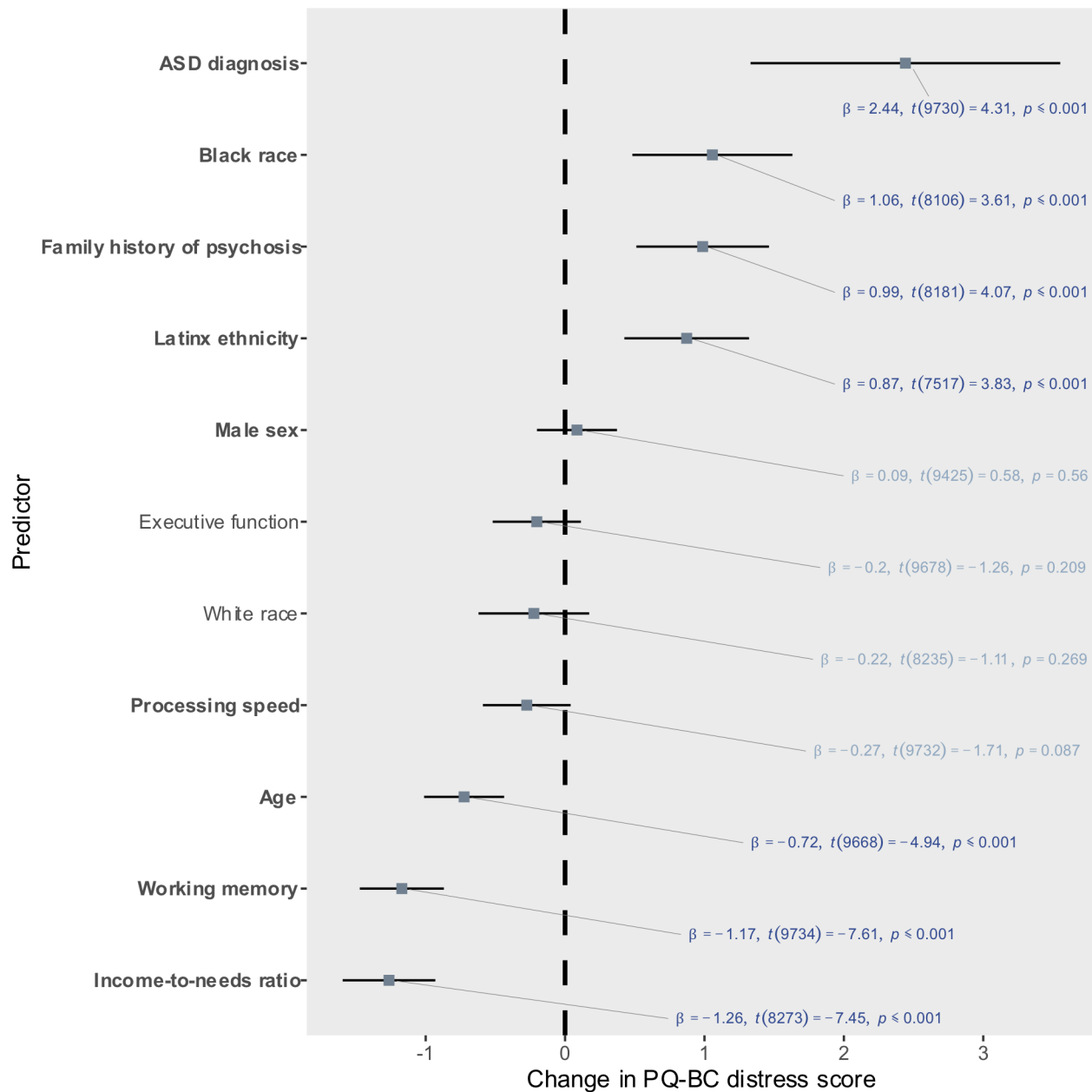
- ASD predicts SCZ, but does ASD predict **prodromal psychosis**?
- How early can we detect ASD youth at risk?

- ABCD cohort
- 11,875 youth aged 9 to 11
- **ASD screening question**
- **Prodromal Questionnaire – Brief Child (PQ-BC)**



Income-to-needs (1211)  
Parents' ages at birth (704)  
Cognitive measures (198)  
Family history (138)  
ASD screen (39)  
PQ-BC score (16)  
Ethnicity (13)  
Developmental history (6)  
Sex (3)

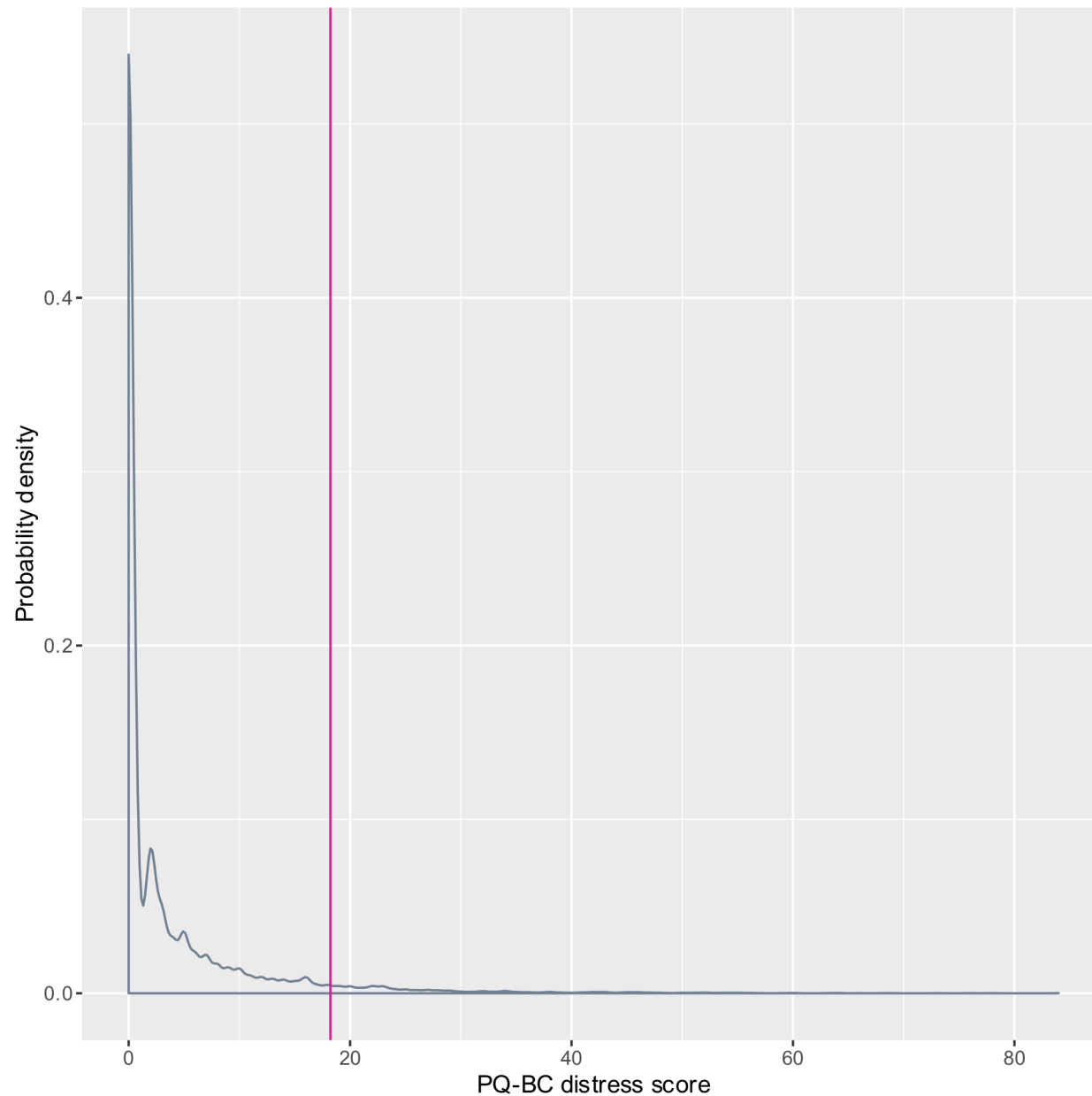
Study sample characteristics	
Age in years	9.91 ± 0.62
Male sex	5,111 (52.37%)
White race	6,633 (67.96%)
Black race	1,274 (13.05%)
“Other” race	1,853 (18.99%)
Latinx ethnicity	1,819 (18.64%)
Income-to-needs	4.48 ± 2.88
FH psychosis	1,014 (10.49%)
NIH TB card sort	97.35 ± 15.25
NIH TB processing speed	94.17 ± 22.04
NIH TB working memory	101.47 ± 14.73
<b>ASD screen +</b>	<b>161 (1.65%)</b>
<b>PQ-BC distress</b>	<b>3.53 ± 7.35</b>



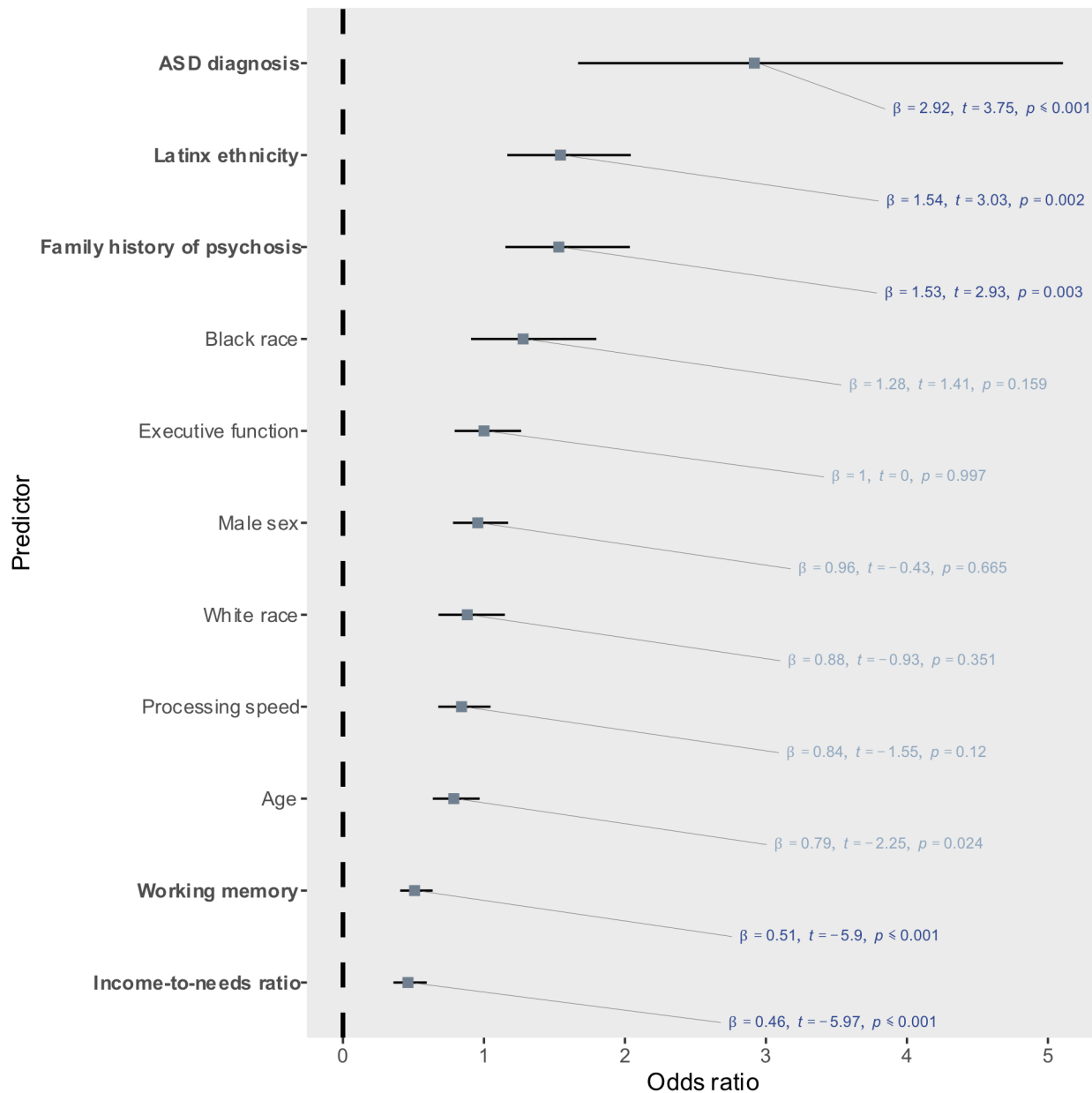
ASD: predictor with the largest effect

$\beta = 2.44$ , 95% CI 1.33 – 3.55,  $p < 0.001$





453 (4.68%) participants:  
PQ-BC distress > 18



ASD: odds ratio **2.92**

**95% CI 1.67 – 5.11,**  
 **$p < 0.001$**

- ASD seems to be a strong predictor of prodromal psychotic-like symptoms in middle childhood, even relative to other factors thought to be strong predictors
- Key future question: what does this mean longitudinally?

# Mentors and collaborators

- Rose Donohue
- Jennifer Foss-Feig
- Jeremy Veenstra-VanderWeele
- Agnes Whitaker

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Slides:



Poster: Session 1 (12/9, 5:30 – 7:30pm), #192