

The Consequences of Using Different 10-Item Autism Spectrum Quotient (AQ10) Cut-Offs in Psychological Research



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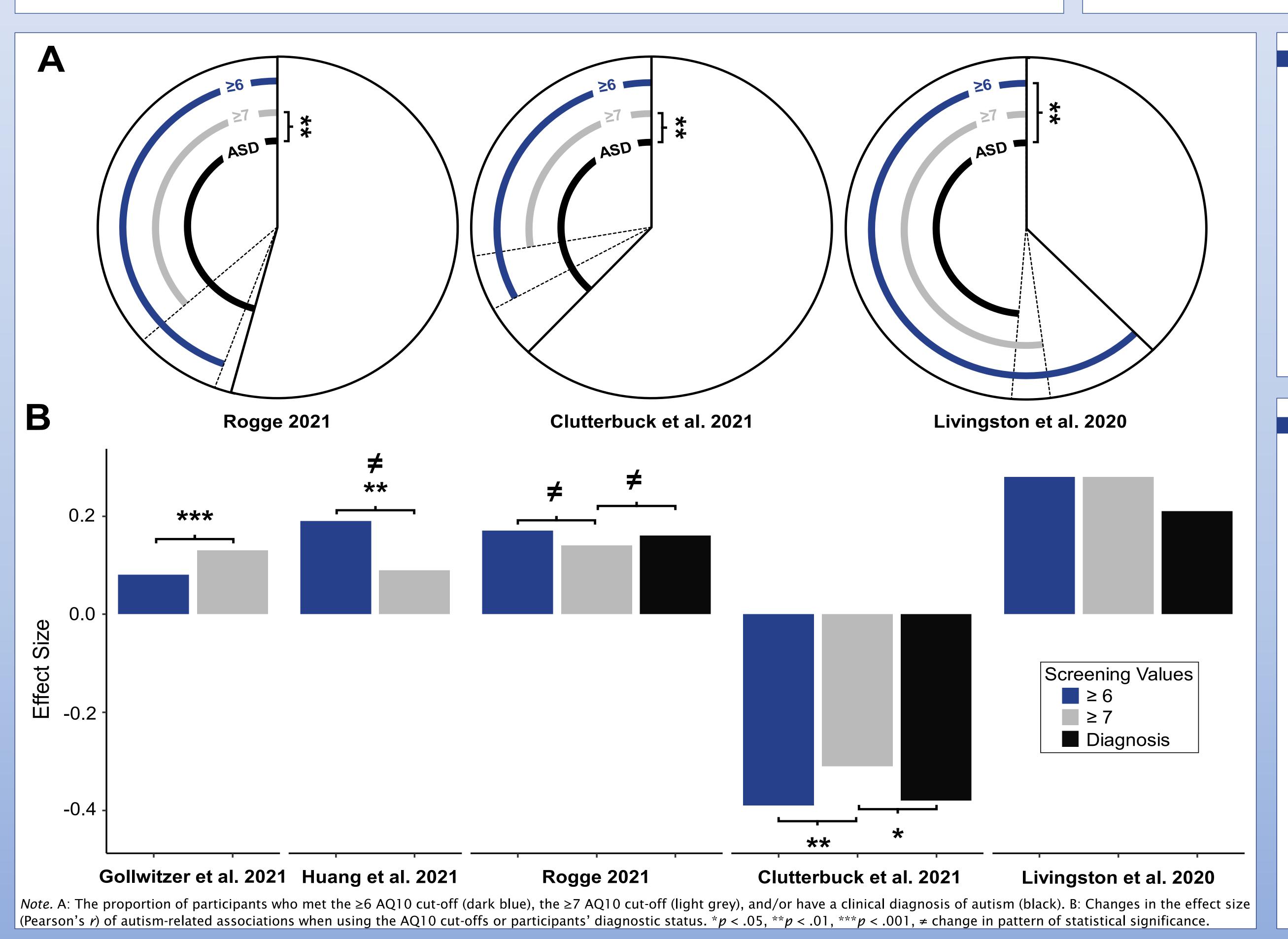
Introduction

- For 9 years, international clinical NICE guidelines erroneously recommended an AQ-10 cut-off value of ≥ 7 , instead of ≥ 6
- This error has proliferated across research, with >50% of inspected research using an incorrect or ambiguous cut-off value
- We aimed to quantify the consequences of using an incorrect AQ-10 cut-off value for psychological research

Methods

5 datasets (N = 7612) were re-analysed to assess:

- Which cut-off value was most predictive of clinical diagnosis
- If a 1-point change in cut-off value can significantly change the effect size of autism-related associations



Results

- Up to 56% fewer participants met the ≥7 cut-off
- The ≥6 cut-off was more predictive of diagnosis in 2 datasets
- Exercise Effect sizes significantly changed by up to 59.75%
- Associations became non-significant in 2 datasets

Discussion

- Incorrect use of the AQ-10 cut-off can significantly change the interpretation of autism-related associations
- This could have large implications for our understanding of autism and the clinical interventions such research informs
- We urge future research to use the correct ≥6 cut-off, and studies that have used the incorrect ≥7 cut-off to be reanalysed

