

The EarliPoint™ Evaluation for Autism

EYE-TRACKING TECHNOLOGY

identifies and assesses young children with autism

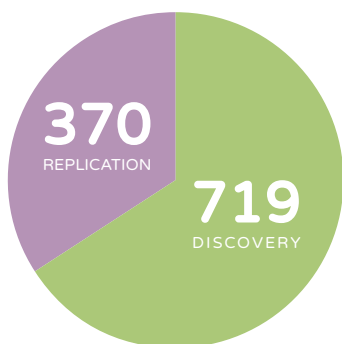
Measures the 3 core domains of autism:
SOCIAL DISABILITY
VERBAL ABILITY
NON-VERBAL LEARNING

Studied in
1,500+
children

Correctly identifies
4/5
children with autism

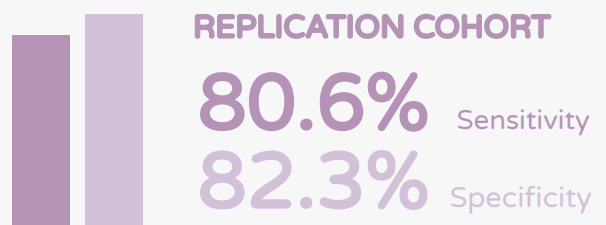


Diagnostic Reference Standard: Expert Clinician Diagnosis including ADOS-2 and Mullen Scales of Early Learning



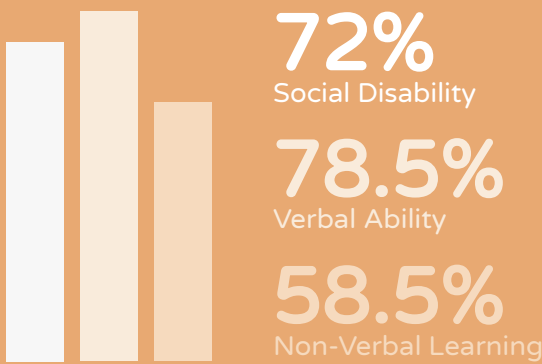
FEASIBILITY STUDIES

1,089 children
Prospective, consecutively-enrolled, broad spectrum double-blinded



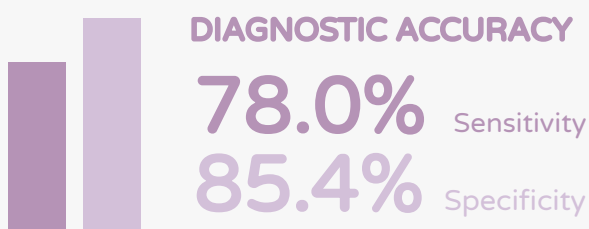
INDEX ACCURACY

Captured from the variance of the reference standard:



FEASIBILITY STUDIES CONCLUSION

In two large studies of 2-year-old children, objective eye-tracking-based assays accurately quantified diagnostic status and symptom severity in autism. This represents a crucial step towards community-wide, equitable early identification of autism, a key factor in promoting optimal long-term outcomes in all children.



Area Under the Curve (AUC) = 0.902

PIVOTAL STUDY

505 children
Multi-site, prospective, double-blind within subject comparison

INDEX ACCURACY

Captured from the variance of the reference standard:

74.1%
Social Disability

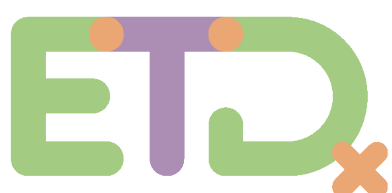
88.8%
Verbal Ability

77.9%
Non-Verbal Learning

PIVOTAL STUDY CONCLUSION

In 16-30-month-old pediatric patients, neuro-developmental assessment via eye-tracking can safely and effectively identify autism and can proxy expert clinician assessments of symptom severity in areas important for individualized treatment planning and progress monitoring. Professional medical organizations¹ and federal agencies² have repeatedly emphasized the need to improve early identification and access to high quality diagnostic services; the present results offer an objective tool to help solve this national priority in autism care.

¹Hyman S, Levy S, Myers S, American Academy of Pediatrics Council On Children With Disabilities Section on Developmental and Behavioral Pediatrics. Identification, Evaluation, and Management of Children With Autism Spectrum Disorder. Pediatrics 2020;145(1):e20193447.
²Office of Autism Research Coordination NI of H. Interagency Autism Coordinating Committee, Strategic Plan for Autism Spectrum Disorder 2018-2019. 2019.



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