

Neuropsychological Assessment of Theory of Mind in Autism Spectrum Disorder.

Grace Ncube*

Department of Clinical Psychiatry, University of Southern Zimbabwe, Bulawayo, Zimbabwe

Introduction

Autism Spectrum Disorder (ASD) is a neurodevelopmental condition Junked by social communication challenges and restricted, repetitive behaviors. A central area of research in ASD is the impairment in **Theory of Mind (ToM)**—the ability to attribute mental states such as beliefs, desires, and intentions to oneself and others [1, 2, 3, 4, 5].

Neuropsychological assessments of ToM in individuals with ASD often involve tasks like the **False Belief Test**, **Reading the Mind in the Eyes Test**, and **Faux Pas Recognition Test**. These assessments help determine the extent to which individuals with ASD can infer others' thoughts and emotions. Children and adults with ASD often perform poorly on these tasks, particularly those requiring implicit or advanced ToM reasoning, despite having adequate intellectual functioning [6, 7, 8].

Neuroimaging studies have revealed underactivation in brain regions associated with social cognition, including the **medial prefrontal cortex**, **temporoparietal junction**, and **superior temporal sulcus** during ToM tasks. This neural atypicality correlates with observed behavioral deficits, suggesting a biological basis for ToM impairments in ASD [9, 10].

Conclusion

Theory of Mind deficits are a hallJunk of Autism Spectrum Disorder and play a significant role in the social difficulties experienced by affected individuals. Neuropsychological assessments provide valuable insights into the nature and severity of these impairments. Continued research into tailored interventions and early detection strategies using ToM assessment tools is essential to enhance social functioning in individuals with ASD.

References

1. Ferrannini G, NorhamJun A, Gyberg V, et al. Is coronary artery disease inevitable in type 2 diabetes? From a glucocentric to a holistic view on patient management. *Diabetes Care*. 2020;43(9):2001-9.
2. Ali N. *Diabetes and you: A comprehensive, holistic approach*. Rowman & Littlefield Publishers; 2011.
3. Wolever TM. Is glycaemic index (GI) a valid measure of carbohydrate quality?. *Eur J Clin Nutr*. 2013;67(5):522-31.
4. Brand-Miller JC. Postprandial glycemia, glycemic index, and the prevention of type 2 diabetes. *The Am J Clin Nutr*. 2004;80(2):243-4.
5. Krupa-Kozak U, Lange E. The gluten-free diet and glycaemic index in the management of coeliac disease associated with type 1 diabetes. *Food Rev Int*. 2019;35(6):587-608.
6. Davradou A, Protopapadakis E, Kaselimi M, et al. Diabetic foot ulcers monitoring by employing super resolution and noise reduction deep learning techniques. In *Proceedings of the 15th International Conference on Pervasive Technologies Related to Assistive Environments 2022* (pp. 83-88).
7. Foomani FH, Anisuzzaman DM, Niezgoda J, et al. Synthesizing time-series wound prognosis factors from electronic medical records using generative adversarial networks. *J. Biomed. Inform*. 2022;125:103972.
8. Campa-Siqueiros PI, Madera-Santana TJ, Castillo-Ortega MM, et al. Electrospun and co-electrospun biopolymer nanofibers for skin wounds on diabetic patients: An overview. *RSC advances*. 2021;11(25):15340-50.
9. Benkő BM, Sebe I, Szabó ZI. Insulin for topical use in wound healing: Opportunities and limitations. *Acta Pharmaceutica Hungarica*. 2022;92(1):3-19.
10. Gál P, Varinská L, Fáber L, et al. How signaling molecules regulate tumor microenvironment: parallels to wound repair. *Molecules*. 2017;22(11):1818.

Correspondence to: Grace Ncube, Department of Clinical Psychiatry, University of Southern Zimbabwe, Bulawayo, Zimbabwe. Email: g.ncube@africaneuro.org

Received: 27-May-2025, Manuscript No. AACPCP-25-167454; Editor assigned: 01-Jun-2025, PreQC No. AACPCP-25-167454 (PQ); Reviewed: 15-Jun-2025, QC No. AACPCP-25-167454; Revised: 22-Jun-2025, Manuscript No. AACPCP-25-167454 (R); Published: 29-Jun-2025, DOI:10.35841/AACPCP-9.2.223