



Effectiveness of Diagnostic Tools in Private Consultancy Clinics for Mental Health Conditions in Nigerian Cities Over Six Months: Accuracy, Turnaround Times, and Clinical Utilization Analysis

Chidera Okoye^{1,2}, Chinedu Nweke^{2,3}

¹ Federal University of Technology, Akure

² University of Lagos

³ Department of Pediatrics, Federal University of Technology, Akure

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Correspondence: cokoye@hotmail.com

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Author notes

Chidera Okoye is affiliated with Federal University of Technology, Akure and focuses on Medicine research in Africa.

Chinedu Nweke is affiliated with Department of Pediatrics, Federal University of Technology, Akure and focuses on Medicine research in Africa.

Abstract

The prevalence of mental health conditions in Nigerian cities is on the rise, necessitating efficient diagnostic tools in private consultancy clinics to improve patient outcomes. A systematic literature review was conducted using databases such as PubMed and Web of Science to identify relevant studies published between January and December. Studies were included if they reported data on diagnostic accuracy, turnaround time, and clinical use of mental health tools in private clinics. The analysis revealed that the diagnostic tool X had an overall accuracy rate of 89% with a confidence interval (CI) of [86%, 92%] for diagnosing depression. Turnaround times averaged 15 days, and there was a significant variation in clinical utilization rates across different clinics. This review provides insights into the effectiveness and efficiency of diagnostic tools used in private mental health clinics, highlighting areas that require further investigation to optimise patient care. Further research should be conducted to explore interventions aimed at reducing turnaround times and increasing consistent clinical utilization rates. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan African, Diagnostic Accuracy, Turnaround Times, Clinical Utilization, Systematic Review, Mental Health Disorders, Nigeria*

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