



Methodological Evaluation of District Hospitals Systems in Ethiopia: A Randomized Field Trial for Measuring System Reliability

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Abstract

District hospitals in Ethiopia face challenges to ensure reliable service delivery due to varying system efficiencies. A mixed-methods approach combining quantitative data from surveys ($n=500$) \wedge qualitative interviews ($n=20$), with statistical modelling of system performance using logistic regression. System reliability was found to be moderately high (SOR = 1.4, CI: [1.2-1.6]) in treating common ailments compared to complex surgical cases. The evaluation highlights the need for targeted interventions focusing on improving diagnostics and patient flow management. District hospitals should prioritise diagnostic accuracy and streamline referral processes to enhance overall system reliability.

Keywords: Ethiopia, District Hospitals, Reliability Studies, Mixed-Methods, Quantitative Analysis, Qualitative Research, Health System Evaluation

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