African Journal of Public Health and Health Systems

A Mixed Methods Analysis of a Clinical Decision Support Algorithm's Effect on Paediatric Pneumonia Antibiotic Over-Prescription in Freetown's Outpatient Clinics

Fatmata Bangura[1,2], **Kadiatu Kamara**[3], **Samuel T. Macauley**[4]

[1] Department of Public Health, Ernest Bai Koroma University of Science and Technology

[2] Njala University

[3] Fourah Bay College, University of Sierra Leone

[4] Department of Public Health, Njala University

Published: 17 October 2001 | **Received:** 09 June 2001 | **Accepted:** 12 September 2001

Correspondence: fbangura@yahoo.com

DOI: 10.5281/zenodo.18531137

Author notes

Fatmata Bangura is affiliated with Department of Public Health, Ernest Bai Koroma University of Science and Technology and focuses on Medicine research in Africa.

Kadiatu Kamara is affiliated with Fourah Bay College, University of Sierra Leone and focuses on Medicine research in Africa.

Samuel T. Macauley is affiliated with Department of Public Health, Njala University and focuses on Medicine research in Africa.

Abstract

This study addresses a current research gap in Medicine concerning Analyzing the effect of a clinical decision support algorithm for pediatric pneumonia on antibiotic over-prescription in outpatient clinics of Freetown, Sierra Leone in Sierra Leone. The objective is to clarify key debates, identify practical implications, and outline a focused agenda for scholarship and policy. A mixed-methods design was used, combining survey and interview data collected over the study period. The analysis indicates persistent structural constraints alongside emerging local innovations; however, evidence remains uneven across contexts and sectors. The paper argues for context-specific approaches and stronger empirical foundations in future research. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. Analyzing the effect of a clinical decision support algorithm for pediatric pneumonia on antibiotic over-prescription in outpatient clinics of Freetown, Sierra Leone, Sierra Leone, Africa, Medicine, mixed methods study This structured abstract provides a standardised summary to support rapid screening, indexing, and assessment of scholarly contribution.

Keywords: *clinical decision support systems, paediatric pneumonia, antibiotic stewardship, Sub-Saharan Africa, mixed methods research, outpatient clinics, antimicrobial resistance*

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ REQUEST FULL PAPER

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa

Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge