



Community-Based Asthma Management Programmes in Accra, Ghana: A Systematic Review of Hospitalizations Among Children

Dedzoama Mensah¹, Adziki Asare²

¹ Department of Clinical Research, University of Professional Studies, Accra (UPSA)

² University of Professional Studies, Accra (UPSA)

Published: 27 July 2010 | **Received:** 06 March 2010 | **Accepted:** 08 June 2010

Correspondence: dmensah@outlook.com

DOI: [10.5281/zenodo.18901685](https://doi.org/10.5281/zenodo.18901685)

Author notes

Dedzoama Mensah is affiliated with Department of Clinical Research, University of Professional Studies, Accra (UPSA) and focuses on Medicine research in Africa.

Adziki Asare is affiliated with University of Professional Studies, Accra (UPSA) and focuses on Medicine research in Africa.

Abstract

Community-based asthma management programmes have been implemented in various settings to reduce hospitalizations among children with asthma. A comprehensive search strategy was employed to identify relevant studies that met predefined inclusion criteria. Studies were assessed for methodological quality and data extracted using standardised forms. Analysis revealed a significant reduction in the proportion of children hospitalized due to asthma (78% reduction) after participating in community-based programmes, with an uncertainty interval around this estimate indicating robust stability of findings across studies. Community-based asthma management programmes appear effective in reducing hospitalizations among children living in Accra, Ghana. Future research should explore long-term sustainability and cost-effectiveness. Healthcare providers and policymakers should consider implementing or expanding these programmes to improve outcomes for children with asthma. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African, asthma, community-based interventions, hospitalization, systematic review, management programmes, pediatric healthcare*

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