

Title: Cost-effectiveness analysis of integrated community case management delivery models utilizing drug sellers and community health workers for treatment of under-five febrile cases of malaria, pneumonia, diarrhoea in rural Uganda.

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Abstract

Background: Malaria, pneumonia and diarrhoea continue to be the leading causes of death in children under the age of five years (U5) in Uganda. To combat these febrile illnesses, integrated community case management (iCCM) delivery models utilizing community health workers (CHWs) or drug sellers have been implemented. The purpose of this study is to compare the cost effectiveness of delivering iCCM interventions via drug sellers versus CHWs in rural Uganda

Methods: This study was a cost-effectiveness analysis to compare the iCCM delivery model utilizing drug sellers against the model using CHWs. The effect measure was the number of appropriately treated U5 children, and data on effectiveness came from a quasi-experimental study in Southwestern Uganda and the inSCALE cross-sectional household survey in eight districts of mid-Western Uganda. The iCCM interventions were costed using the micro-costing (ingredients) approach, with costs expressed in US dollars. Cost and effect data were linked together using a decision tree model and analysed using the Amua modelling software.

Results: The costs per 100 treated U5 children were US$591.20 and US$298.42 for the iCCM trained-drug seller and iCCM trained-CHW models, respectively, with 30 and 21 appropriately treated children in the iCCM trained-drug seller and iCCM trained-CHW models. When the drug seller arm (intervention) was compared to the CHW arm (control), an incremental effect of 9 per 100 appropriately treated U5 children was observed, as well as an incremental cost of US$292.78 per 100 appropriately treated children, resulting in an incremental cost-effectiveness ratio (ICER) of US$33.86 per appropriately treated U5 patient.

Biography

Lubogo Patrick completed his Bachelor of Pharmacy in 2017 from Makerere University, Uganda and Master of Pharmacy in Clinical Pharmacy at Mbarara University of Science and technology, Uganda. He is a lecturer of Clinical Pharmacy at Kampala International University and his research interest lies in the area of Pharmacoeconomics and Outcome Research.

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