

Do Cash or Digital Payment Modalities Affect Community Health Worker (CHW) Performance? – A Case Study of a Remote Refugee Settlement in Western Uganda



Michael T Wagaba¹, David Musoke², *, Charles Opio³, Arthur Bagonza¹, Juliet Aweko³, Hajarah Nakitende¹, Alex Mulyowa², Michael Ediau³, Peter Waiswa³, Elizabeth Ekirapa-Kiracho³

- ¹Department of Community Health and Behavioral Sciences, School of Public Health, Makerere University
- ²Department of Disease Control and Environmental Health, School of Public Health, Makerere University
- ³Department of Health Policy, Planning and Management, School of Public Health, Makerere University

BACKGROUND

- CHWs are essential in healthcare delivery, especially in low-resource settings such as refugee settlements.
- Kyaka II refugee settlement hosts refugees from various countries neighbouring Uganda, including the Democratic Republic of Congo, Rwanda, Burundi and South Sudan.
- Health services are mainly delivered through CHWs
- However, several challenges hinder CHW's optimal performance, daunting health service delivery
- The most common is poor incentives, including insufficient and delayed payments.
- Less than 40% of the CHWs in Uganda perform optimally.
- In Kyaka II, CHWs are paid using cash and digital methods – alternating every six months
- The effect of monetary incentives and their delivery mode on CHW performance in refugee communities was unknown.

STUDY AIM AND OBJECTIVES

Aim: To understand the influence of digital and cash payment modalities on the performance of CHWs in a multi-national refugee settlement

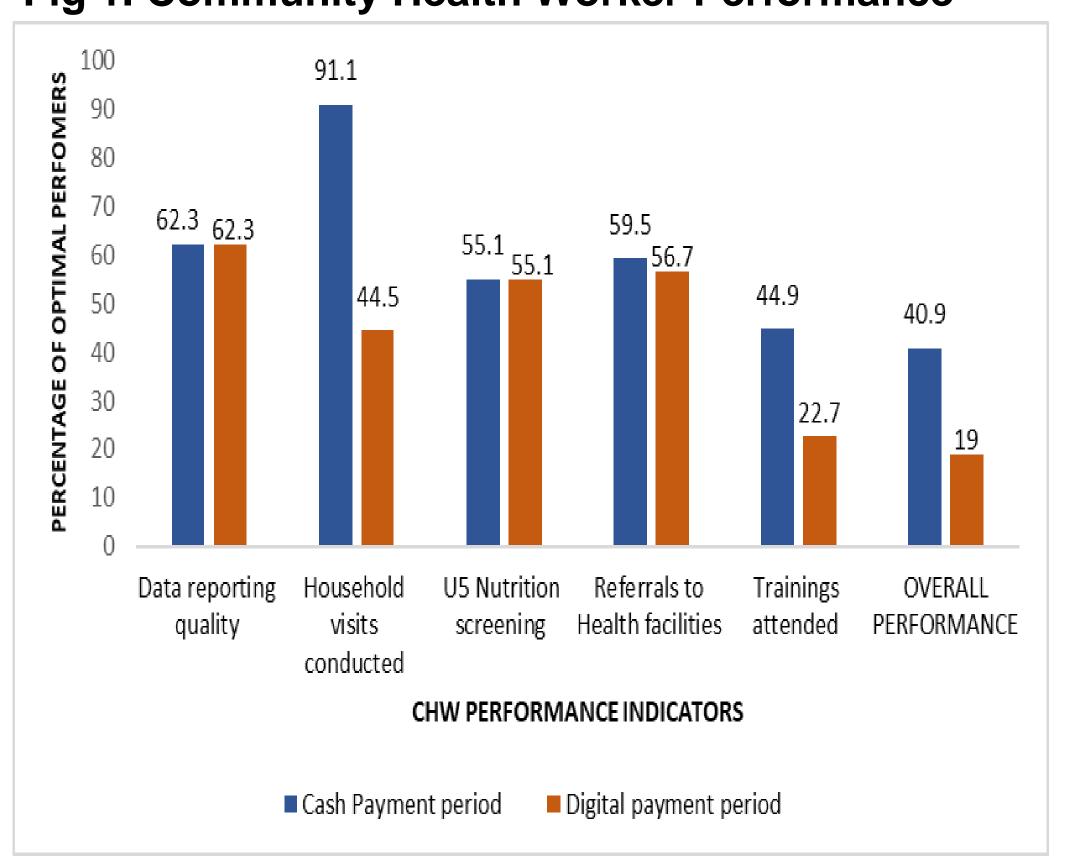
Objective 1: To assess the CHW performance with varying payment modalities

Objective 2: To determine the factors associated with the performance of the CHWs across the payment modalities



Fig 2.The principal investigator, Michael T Wagaba, conducting an FGD with CHWs in Kyaka II refugee settlement

RESULTSFig 1. Community Health Worker Performance



CHWs performance was significantly higher during the cash payment period (t = 5.28; df = 246; p < 0.001)

Performance Determinants

Cash payment period:

- Higher education level; (APR = 1.71; 95%CI:1.14–2.58)
- Having a side job; (APR = 1.58; 95%CI: 1.13–2.21)

Digital payment period:

- Male gender; (APR = 0.58; 95%CI: 0.34–0.98)
- Time served (>10 years); (APR = 0.88; 95%CI: 0.82–0.93)
- Number of households allocated (>60); (APR = 0.34; 95%CI: 0.19–0.61)

Qualitative findings

- Overall, qualitative participants expressed a preference for cash over digital payments
- CHWs found cash payments more reliable and prompter than digital.
- Implementing partners reported that cash payments facilitated more effective CHW appraisal, especially at the time and site of payment.
- Conversely, cash payments encouraged reckless spending and gender-based violence, especially against female CHWs.

METHODS

- Study area; Kyaka II refugee settlement
- Design and method: Comparative cross-sectional study using sequential explanatory mixed methods
- Study population: Refugee CHWs
- Sample size: Records of all 247 CHWs, 10Klls, 7FGDs and 2 IDIs
- Data analysis: Quantitative data used modified Poisson regression analysis; qualitative data used thematic analysis.
- Study approved by Makerere School of Public Health Research and Ethics Committee

CONCLUSION AND RECOMMENDATIONS

- CHW performance was better during the cash payment period.
- Performance was determined by CHW education level, side occupation, sex, years of experience, and number of households assigned.
- Cash payments were preferred because they were prompt and more reliable.
- Maintain cash payments in settings with poor digital support systems and infrastructure, gradually transitioning to the inevitable digital payment methods with context-specific designs.
- Incorporate gender-sensitive strategies in the planning and management of community health programs, based on contextual social determinants of health.

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