

VAGELOS COLLEGE OF Physicians & Surgeons

**PROGRAM FOR EDUCATION IN GLOBAL AND POPULATION HEALTH** 

# Developing Acute Care and Referral Systems (ACERS) in Ghana

**Global Scholars 2021** 

Research Question: What are the barriers to emergency obstetric and neonatal care (EmONC) at facilities in the Ghanaian municipalities of Nkwanta South and Gushegu as determined by emergency referral systems and performance of EmONC services?

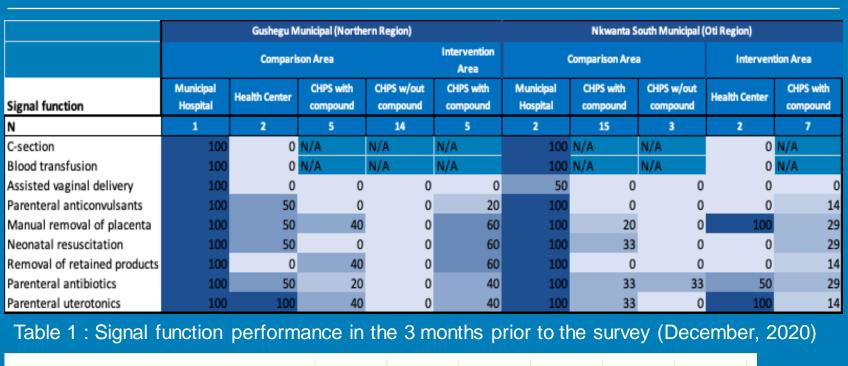
# BACKGROUND

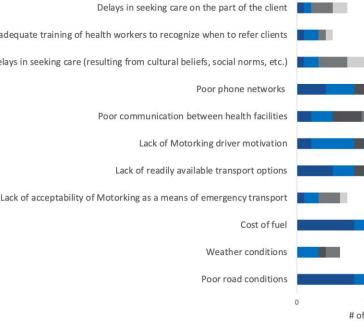
Currently in Ghana, Infant mortality is 23.1 deaths per 1000 live births,<sup>1</sup> and maternal mortality is 308 deaths per 100,000 live births.<sup>2</sup> While Ghana has a well-organized healthcare system, there are opportunities to strengthen the continuum of care process throughout the emergency obstetric and newborn care (EmONC) system to reduce maternal and neonatal morbidity and mortality.

### **DESCRIPTION OF** ORGANIZATION

The goal of sidHARTE – Strengthening Emergency Systems Program is to promote locally-driven solutions of strengthening the effectiveness and integration of acute and chronic care health systems in resource-limited settings. This goal is pursued by partnering with local government, civil service, and university stakeholders; by strengthening complex adaptive health systems through implementation support and science; by facilitating technical exchange, cascading capacity-building of frontline health workers, and data-driven policy support; and by urban and rural acute care systems strengthening approaches.

## TABLES





Comparison Municipal Hospital Comparison Health Center Comparison CHPS with compound Comparison CHPS w/out compound Intervention CHPS with compound

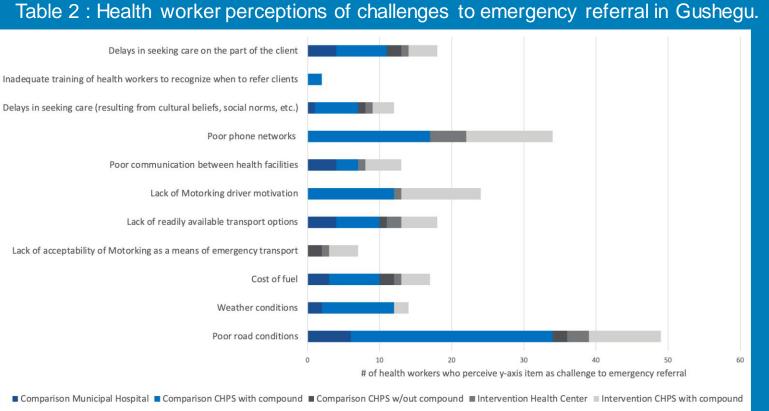
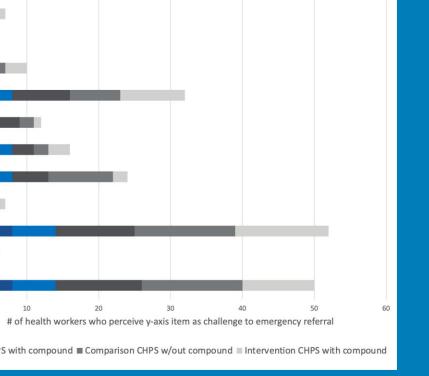


Table 3 : Health worker perceptions of challenges to emergency referral in Nkwanta South

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**METHODS** 

A series of mixed-methods baseline surveys were conducted to inform implementation of ACERS interventions, and to serve as a comparison to endline data post-ACERS interventions. These surveys were designed to collect information to inform interventions at different levels of care-seeking delays. The surveys were: women's, health worker, facility, and referral surveys. Data analysis was conducted using STATA and SAAS. Data analysis of the referral and facilities survey were used to answer the research question.

The study identifies gaps in signal function performance across lowerevel facilities, referral protocols, and working transport systems for referrals. Poor road conditions, fuel costs, and phone network interruptions inhibit emergency referrals. Only municipal hospitals relative to sub-hospital facilities consistently fulfilled all signal functions relevant to their EmONC status.

### DISCUSSION

Findings suggest opportunities for improving women's health seeking behavior and referrals. Furthermore, avenues exist to enhance EmONC by supporting facilities' capacity to perform signal functions corresponding to their rung on the ladder of care.

### REFERENCES

- 1. The World Bank, World Development Indicators (2019). Mortality rate, neonatal (per 1,000 live births) – Ghana [Data file]. Retrieved from https://data.worldbank.org/indicator/SH.DYN.NMRT?locations=GH
- 2. MacroTrends LLC. (n.d.). Ghana Maternal Mortality Rate 2000-2021. MacroTrends. https://www.macrotrends.net/countries/GHA/ghana/maternal-mortality-rate.

