

Rwanda - Community Performance-Based Financing Impact Evaluation 2013, Health Providers Follow Up Survey

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Sampling

Sampling Procedure

The sampling strategy required several stages.

Stage 1: Identify 200 eligible sectors and randomly assign 50 to each of the four study arms

In order to randomly assign 50 sectors to each of the four study arms, the evaluation team used available data from the MoH Community Health Desk to meet the following objectives:

1. Forcibly exclude 30 Vision Umurenge Program (VUP) sectors. These 30 sectors were not included in the random assignment, as they were implementing the demand-side intervention prior to the launch of the study. For this reason, these 30 sectors are considered phase 0 of the CPBF project and are not included in the impact evaluation.
2. Exclude all sectors with no health center. Due to operational complexity for the demand-side intervention, the sample of sectors was restricted to those sectors with at least one health center/CHW cooperative.
3. Minimize geographic disbursement in order to minimize costs. The 18 districts from the 2006-2008 health center level PBF impact evaluation were included in order to reduce costs and use the data collected during that first impact evaluation on those districts in the future. An additional district was required after randomization in order to meet sample size requirements. The Gicumbi district met the required number of sectors and was geographically close to the Northern districts included in the sample. This resulted in a final sample of 223 sectors. In order to randomly assign 50 sectors to each study arm, the team blocked the sectors by a) district and b) poverty ranking. Within each block, the sectors were randomly assigned a number 1, 2, 3 or 4. In study arms 1, 2 and 3, there were incomplete blocks, and replacement sectors were needed for those study arms. Once the sectors were randomly assigned to each study arm, the evaluation team conducted difference in means tests between each treatment group and the comparison group, as well as the combination of all treatment groups and the comparison group, on the following variables:

- VUP poverty ranking (to validate the blocking)
- The sector's health center is classified as "Public" or "Agre" (Government or non-for-profit faith-based facilities)
- Sector Population: Male/Female

There were no statistical differences between the treatment and control groups based on these variables.

Stage 2: Identify one CHW cooperative per sector

On average, each sector has one health center with a corresponding CHW cooperative. The CHW cooperative leader was interviewed.

Stage 3: Randomly select 12 villages per sector

Ex-ante power calculations demonstrated that for each sector, the team required 12 households. The team first needed to identify the 12 villages that households would be selected from for each sector. Using administrative data, three cells were randomly selected for each sector from the total sample of cells. For each of the total 600 cells, four villages were randomly selected from the total number of villages, resulting in 12 villages per sector and a total number of 2400 households.

Community Health Workers

The research team decided to only interview the community health worker in charge of maternal and neonatal health in each village in the endline survey to release resources for the doubling of the household survey. It is important to note that the number of CHWs included in the baseline survey was not based on a power analysis. In addition, most of the targeted indicators are related to the work of these community health workers.

Community Health Cooperatives

The endline survey was planned to conduct a cooperative survey in each of the cooperatives covered by the baseline survey.

Health Facilities

Unlike the baseline survey, the endline survey covered also the health facilities associated with each community health workers cooperative. The health facility survey included:

- A health facility assessment completed by interviewing the head or deputy head of the health center.
- A health worker survey: in each health center, the research team selected for interview two health workers providing the target services on the day of the survey (one for antenatal care and one for child curative care services). A set of vignettes were administered to the provider to measure their practical knowledge on the specific service provided.

Patient exit interviews

At the end of the visit with the above mentioned providers, six patients in total per health center were interviewed on the day of the survey (three patients who received antenatal and three patients who received child care services) to assess the competence of the providers and the quality of care received.

Deviations from Sample Design

According to the study design, the survey should have covered 200 sectors, 50 for each study arm. Of the 200 originally selected sectors, 12 did not meet the criteria of having a health center with an active CHW cooperative. While replacement sectors were assigned to the 3 treatment groups, there was no replacement sector assigned for the control group. Therefore, one sector of the control group has been dropped from the sample without being replaced. Another sector assigned to the control group has been wrongly coded in the data and subsequently also dropped from the sample. As a result, the final sample covered 198 sectors.

Response Rate

2220 CHWs were successfully interviewed in endline out of the target of 2376. This is a response rate of 93%.

Questionnaires

Overview

1. Community Health Worker
2. Community Health Workers Cooperative
3. Health Center Assessment
4. Health Provider
5. Exit Interview with patients of health centers

Apart from the health facility assessment that was conducted in French, all other interviews were conducted in Kinyarwanda.

Data Collection

Data Collection Dates

Start	End	Cycle
2013-11	2014-06	Endline

Data Collection Mode

Face-to-face [f2f]

DATA COLLECTION NOTES

Interviews with the CHWs and presidents of the cooperatives were conducted at the health centers and conducted jointly with the health facility assessment. The in-charge of each health center and the center's head of community health were informed two weeks prior to the visit. The CHWs in charge of MNH in the sample villages were asked to be present at the health center at the day of the visit. The head of community health was in charge of contacting the CHWs. Each survey team was composed of 3 enumerators led by a team leader. During a one-day visit, a team fielded the health facility questionnaire with the in-charge of the health center or the deputy, the CHW cooperative questionnaire with the cooperative's president in addition to interviews with providers, patients and CHWs.

The long duration of the data collection was due to the tracking of baseline women who moved out of the baseline district and not due to the health provider survey.

Data Collectors

Name	Abbreviation	Affiliation
The University of Rwanda College of Medicine and Health Sciences School of Public Health	UR-CMHS-SPH	

Data Processing

No content available

Data Appraisal

Other forms of Data Appraisal

A response analysis was performed to test whether assignment to a specific treatment arm affected the propensity to comply with the endline survey. The results indicate that response is not significantly correlated with the introduced interventions.

Related Materials

Questionnaires

Community Health Worker Cooperative Questionnaire

Title	Community Health Worker Cooperative Questionnaire
Country	Rwanda
Language	English
Description	The community health workers cooperative questionnaire was administered to the president of the cooperative and includes 7 sections
Filename	chw_cooperative_eng_2013.09.09_quality_check.pdf

Community Health Worker Individual Questionnaire

Title	Community Health Worker Individual Questionnaire
Country	Rwanda
Language	English
Description	The individual community health worker survey was administered to the CHWs in charge of maternal and neonatal health and included 9 sections
Filename	cpbf_commhealthworker_eng_2013.09.04_quality_check.pdf

Questionnaire établissement de santé: F1 - Questionnaire d'évaluation du centre de santé

Title	Questionnaire établissement de santé: F1 - Questionnaire d'évaluation du centre de santé
Country	Rwanda
Language	French
Description	The health facility main questionnaire was administered to the head or deputy head of the health facility and any other person designated by the head or deputy head to provide information for the different sections. It includes 7 sections:
Filename	cpbf_health_facility_2013.09.06_final.pdf

Questionnaire établissement de santé: F2 - Questionnaire individuel agent de santé-Consultation prénatale

Title	Questionnaire établissement de santé: F2 - Questionnaire individuel agent de santé-Consultation prénatale
subtitle	F2 - Questionnaire individuel agent de santé-Consultation prénatale
Country	Rwanda
Language	French
Description	The health worker questionnaire was administered to the provider of antenatal care and the provider of child curative care. All sections were asked to both providers except Section 6 which was specific to the service provided on the day of the interview (antenatal or child curative care).
Filename	cpbf_health_worker_anc_2013.09.07_final.pdf

Questionnaire établissement de santé: F2 - Questionnaire individuel agent de santé-Consultation curative des enfants de moins de 5 ans

Title	Questionnaire établissement de santé: F2 - Questionnaire individuel agent de santé-Consultation curative des enfants de moins de 5 ans
Country	Rwanda
Language	French
Description	The health worker questionnaire was administered to the provider of antenatal care and the provider of child curative care. All sections were asked to both providers except Section 6 which was specific to the service provided on the day of the interview (antenatal or child curative care).
Filename	cpbf_health_worker_under5_2013.09.07_final.pdf

Questionnaire établissement de santé: F3 - Entretien en sortie de consultation prénatale

Title	Questionnaire établissement de santé: F3 - Entretien en sortie de consultation prénatale
Country	Rwanda
Language	French
Description	The exit interview was administered to the patients who have been received by a health provider interviewed for the health provider questionnaire. All sections were asked to both types of patients except section 2 which was specific to the type of service received on the day of the interview (antenatal or child curative care).
Filename	hrbf_hf_f3_exit_itw_anc_2013.09.18_quality_check.pdf

Questionnaire établissement de santé:

Title	Questionnaire établissement de santé:
Country	Rwanda
Language	French
Description	The exit interview was administered to the patients who have been received by a health provider interviewed for the health provider questionnaire. All sections were asked to both types of patients except section 2 which was specific to the type of service received on the day of the interview (antenatal or child curative care).
Filename	hrbf_hf_f4_exit_itw_under_5_2013.09.18_quality_check.pdf
