



mHealth: Niger

World Vision®

Project Name: Rapid Expansion Program (RAcE); Niger Integrated Child Health Service Project (NICe)

Geographic Location: Maradi, Dakoro (CMAM); Dosso, Doucthi (iCCM)

Project Timing: May 2014-May 2016 (CMAM); April 2014-March 2017 (iCCM)

Health Programmatic Approaches: iCCM, CMAM

Target Population: 20,840

CHWs Utilizing mHealth Solution: 116

Community Members Reached via mHealth: 145,050



Project Overview

The 2015 Rapid Expansion Program / Niger Integrated Child Health Service (RAcE / NICe) projects were implemented in collaboration with the Ministry of Public Health of Niger and WHO. They are based on the management of diseases of children 2-59 months old at the community level through rural community health workers (CHWs). Faced with the challenges of global data management at different levels of the health system, especially the community level, the 2015 RAcE / NICe projects are implementing mobile phones to support CHWs as a data collection and processing solution. This mHealth innovation will not only improve the effectiveness and efficiency of the integrated management of childhood illness (IMCI), but also provide a tool for CHW advice and support for the newly initiated health roles.

The mHealth solution has been designed to lead CHWs through a diagnosis and decision making process using response-triggered decision tree algorithms to ensure adherence to the [iCCM](#) standardized protocol, improving diagnosis and treatment outcomes. Automated referral initiation and tracking facilitates transfer between community and health facilities. Automatic reminders are used to schedule child follow-up and to alert CHWs to take action at the critical follow-up times. Multimedia has been integrated for targeted counseling to improve caregiver behaviors and improve treatment adherence. This application takes into account national policies and strategies in the field of maternal and child health enforced in Niger.

The [CMAM](#) mHealth solution is deployed at the health facility level and provides health workers with an easy-to-use case management



information resource—simple and powerful decision making and patient tracking tools enable a full continuum of care from the home to the health center. The application provides a dynamic link between frontline patient treatment data with program performance reporting and stock management to improve monitoring, evaluation and real-time decision making to save the lives of children receiving treatment for acute malnutrition. Specialized functions to support the detailed protocol components of CMAM have been developed, including supplementary feeding, outpatient therapeutic care, and stabilization centers. The functional areas include response-triggered decision tree algorithms for protocol adherence and automatic reminders to allow for scheduling follow-up visits for a child and to alert when there is lost-to-follow-up. Referral notifications are attached to individual patient records, allowing data on treatment adherence and symptoms to be viewed by multiple health workers along the continuum.

mHealth Solution

Specifics of the mobile health solution utilized are delineated below:

- ▶ **Technology:** MoTECH Suite
- ▶ **Mobile Phone:** SAMSUNG Galaxy Duos S7562i
- ▶ **Mobile Network Operator:** Airtel & Orange

Stakeholder Engagement

Key stakeholders at the international and national levels collaborating on this mHealth initiative include:

- ▶ World Health Organization
- ▶ Dimagi, Inc.
- ▶ Grameen Foundation
- ▶ Ministère De la Santé Publique (MSP)
- ▶ System National Information Sanitaire (SNIS)
- ▶ Program National de Lutte contre le Paludisme (PNLP)
- ▶ Direction Des Etudes Et de la Programmation (DEP)
- ▶ Direction de la Santé de la Mère et de l'Enfant (DSME)

Funding

- ▶ World Vision Canada
- ▶ ACDI/VOCA
- ▶ USAID/OFDA

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