The Community Health Toolkit and the COVID-19 Response
March 30th, 2020
The Challenge

Health systems, as they are set up today, exclude people from care.

At least **half the world’s population** still cannot obtain **basic health services**

In the poorest & most remote communities, only **1% of families receive care** at home when they are sick

Less than **4% of patients receive a home visit** from a health worker during pregnancy

These challenges are further exacerbated by epidemics such as Covid-19.
Medic Mobile: Mission and Vision

Medic Mobile is a non-profit organization on a mission to advance good health and human flourishing for and with the hardest-to-reach communities.

We build and apply open-source technology that helps health workers deliver equitable care.

We envision a more just world in which health workers are supported as they provide care for their neighbors, universal health coverage is a reality, and health is a secured human right.
Community Health Toolkit

The Community Health Toolkit (CHT) is a global public good and community of people advancing global health equity. Medic Mobile serves as the technical steward for the CHT. It includes:

**Tools**
Open source software frameworks and applications

**Resources**
Guides to help you design and use the framework

**Community**
An active community for collaboration and support
The Core Framework

CHT's Core Framework makes it easier to build scalable digital health apps that equip health workers to provide better care in their communities.

A highly configurable framework, it runs on a range of devices, supports multiple hierarchies and users in a health system with integrated care workflows, and is interoperable with other systems.
Medic Mobile has been focused on supporting global preparedness and response efforts in solidarity with the partners, health workers and communities that we serve. Our response is grounded in a few truths: COVID-19 will disproportionately affect the poor and vulnerable, and may deepen inequalities. A systems strengthening approach is needed to not only support COVID-19 response but also to create more robust and resilient health systems going forward. Building on existing platforms, infrastructure and relationships where possible will ensure greater success and sustainability in the long run.
Medic Mobile’s COVID Response Strategy

Our response has centered on:

- **Accompanying Ministries of Health** through staff secondment to Health Emergency Operation Center (HEOC), Epidemiology and Disease Control Division (EDCD) units, to understand requirements and challenges, and assess where our expertise, skills, and tools can help.

- **Evolving existing digital health systems** to support COVID-19 prevention, detection and containment efforts based on needs articulated by our partners.

- **Coordinating** with the wider community health and digital communities of practice to harmonize our responses and the data produced by digital systems supporting response efforts.
COVID-19 CHT Areas of Work

Based on priorities emerging from our partners and the broader global community, we’re exploring several critical use cases and workflows for COVID-19 response:

- **Surveillance**
  - Port of entry screening
  - Contact tracing
  - Event-based surveillance in the community and facility
  - Community-based symptom screening

- **Patient Assessment, Testing & Referrals to Care**
  - Community-based assessments
  - Rapid diagnostic testing
  - Referrals to care
  - Proactive messaging

- **Support for Community Healthcare Workers**
  - App-based CHW education & training
  - Modifications to existing PHC workflows

We have also built **3 demo apps** to illustrate the power of the CHT
COVID-19 Port of Entry Screening App

- As part of our response efforts, we designed and launched this app in partnership with Ministry of Health and Population in Nepal (HEOC & EDCD).

- The app supports **enrollment of all incoming travelers at ports of entry, Covid-19 screening, and follow up for the self-quarantined.** Added functionality can include contact tracing workflows.

- It is based on MoHP Nepal and [WHO guidelines](https://www.who.int).  

- We are currently exploring adoptions with several other MoH partners.

[Watch the demo](https://example.com/watch)
COVID-19 Rapid Diagnostic Test App

- Medic Mobile built this app to support rapid diagnostic testing for COVID-19 screening, detection, response and containment.

- It is based on the **Antibody (IgM/IgG) test**, but can be rapidly adapted for different tests.

- It is designed to:
  - **Help health workers stay safe**
  - **Improve quality of testing and care**
  - **Support evolving testing and triage protocols**
  - **Improve patient follow-up**
  - **Support patient education**
  - **Be adapted as needed, integrated into existing apps and platforms.**
COVID-19 Symptom Self-Screening

- CHT integration with RapidPro for **automated, interactive messaging support**

- Supports **identified at risk persons** (e.g. CHWs, people in quarantine following port of entry screening or contact tracing)

- App-based **automated daily messages** asking for self-symptom screening, automated thanks and educational messages

- For people self-reporting symptoms, this flow helps triage symptoms and connects those experiencing symptoms with a health worker
Thank you in advance for your contributions and support of our mission!