OpenMRS COVID-19
Public Health Response Tools
OpenMRS, a Global Good, is a robust, scalable, user-driven, open-source electronic medical record system platform.

Our modular and open platform is flexible enough to be implemented in a variety of environments.

OpenMRS is a global community of truly dedicated, talented, generous contributors.

Compassionate individuals with expertise in healthcare, global health, and IT are committed to providing reliable electronic medical record systems that respond to real needs.
OpenMRS experience with Ebola

Developed to support intensive clinical care in the “hot zone” at the Kanyata town ebola treatment center.

JOURNAL OF MEDICAL INTERNET RESEARCH

Original Paper

Development and Deployment of the OpenMRS-Ebola Electronic Health Record System for an Ebola Treatment Center in Sierra Leone

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As of December 2019, health care workers at least 5,485 health facilities use OpenMRS to manage health records for 12.6 million patients.*
Our goal is to provide...

...IMPLEMENTERS with science-based tools for COVID-19 that they can customize based on country guidance and context.

...HEALTH CARE WORKERS with the tools they need to screen, test, and manage patients infected with COVID-19

...the PUBLIC HEALTH COMMUNITY with data for public health surveillance, resource mobilization, and policy-making
OpenMRS Reference Application

OpenMRS Platform
+
Metadata and Terminology
+
Starter Modules
+
Add On or Custom Modules

OpenMRS COVID-19 Response Tools

CIEL concept dictionary with COVID-19 concepts
+
COVID-19 Public Health Response Module
+
COVID-19 Public Health Reporting System Interfaces
COVID-19 Response: Terminology

Data model
CIEL concept dictionary
COVID-19 Response: Data Collection

COVID-19 Public Health Response Module
Patient Intake, Registration, and Case Management
- Patient information
- Clinical status
- Travel and exposure risk history
- Outcome
  - Case Report submission
  - PUI tracking
  - Clinical course/health outcomes
COVID-19 Response: Data Collection

**COVID-19 Public Health Response Module**
- Referrals
- Screening
- Labs
- Clinical assessment
- Program Enrollment and Outcomes
FOCUS
Use of high quality, complete and timely data for care, surveillance and reporting

CURRENT STATUS
IN DISCUSSION

COVID-19 Response: Reporting

COVID-19 Public Health Reporting Module

- Clinical case reports
- Clinical summary with alerts
- Weekly/monthly reports
- Supply forecasting based on patient enrollment and care level
- System monitoring tool (EHR reliability and usage)
- Systems Interfaces
  - DHIS2, SORMAS, CommCare, Laboratory
An approach that reflects our community’s values

- Use **community spaces** where everyone can openly and transparently share ideas, needs, and solutions
- **Empower a COVID-19 Response Squad** to rapidly design, develop, test, and release the suite of COVID-19 Response Tools
- **Encourage informatics experts, business analysts, UI/UX designers, developers, and implementers** to [join the conversation](#), weekly meetings, design forums, and work with the COVID-19 Response Squad