

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.

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

OpenMRS experience with Ebola

JOURNAL OF MEDICAL INTERNET RESEARCH

Oza et al

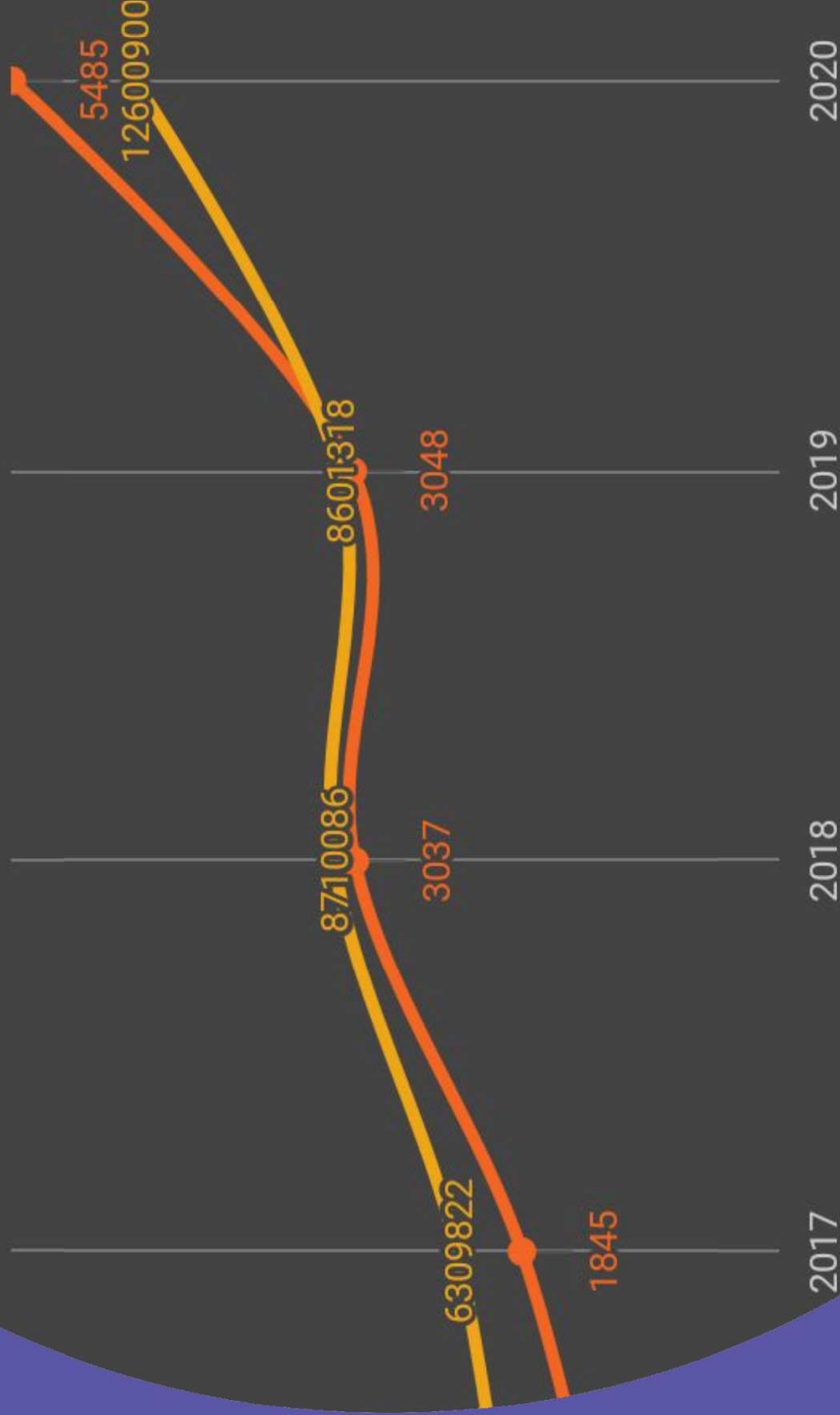
Original Paper

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*

● Total implementation sites ● Total active patients



*self-reported by OpenMRS implementers

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

FOCUS

Availability and
use of standard
content

CURRENT STATUS

COMPLETE

**TO BE INCLUDED IN
REFERENCE
APPLICATION RELEASE**

COVID-19 Response: Terminology

**Data model
CIEL concept dictionary**

FOCUS

Collection of high quality, complete and timely data for care, surveillance and reporting

CURRENT STATUS:

IN PROGRESS

ANTICIPATED RELEASE
IN EARLY APRIL

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
-

FOCUS

Collection of high quality, complete and timely data for care, surveillance and reporting

CURRENT STATUS:

IN DISCUSSION

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