Agenda

• Overview
• Implementations
• Community
• Localization
• Metadata
• Interoperability
• Setup
Open Medical Record System (OpenMRS) – [www.openmrs.org](http://www.openmrs.org)

- Open source patient-centric Electronic Medical Record Application
- Community-driven
- Started in 2004 in Eldoret, Kenya
- Currently implemented in more than 80 countries
- Data model based on the successful system developed at the Regenstrief Institute
- Focused on low resource setting
- Based on structured medical record forms
Atlas of known OpenMRS Implementations
OpenMRS Community
LOCALIZATION (MOZAMBIQUE)
## OpenMRS Concepts

### Concept Form

- **Id**: 1293  
- **Locale**: English, French  
- **Name**: FUNCTIONAL REVIEW OF SYMPTOMS  
- **Short Name**:  
- **Description**: Review of symptoms on presentation by different systems  
- **Synonyms**:  
- **Class**: Question  
- **Datatype**: Coded  
- **Answers**:  
  - WEIGHT LOSS GREATER THAN TEN PERCENT (1352)  
  - COUGH LASTING MORE THAN THREE WEEKS (1430)  
  - DIARRHEA CHRONIC (GREATER THAN OR EQUAL TO 1 MONTH) (1431)  
  - SEIZURE (205)  
  - JAUNDICE (215)  
  - RASH (512)  
  - FEVER (5945)  
  - FATIGUE (5949)  
  - VISION DIFFICULTIES (5953)  
  - SHORTNESS OF BREATH (5960)  
  - NAUSEA (5979)  
  - VOMITING (5980)  
  - Paresthesia (6004)  
  - Confusion (6006)  
  - Night sweats (6029)  
  - Headache (620)  
  - Pruritis (879)  
  - Dysphagia (881)  
  - Hemoptysis (970)
## Terminology Mappings

**Firefox** OpenMRS - Viewing Concept Gravida

![Concept Gravida](localhost:8081/openmrs-standalone/dictionary/concept.htm?conceptId=5624)

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OpenMRS Data Model
Data Entry & Export

Data In
- HTML Forms
- Xforms
- Microsoft Infopath
- HL7 Messages
- REST API

Data Out
- Built-in Configurable Reports
- Data Exports
- REST API
- Integration Modules
Interoperability
eHealth architecture in Rwanda

Supply chain systems
Camerwa

National reporting system
TRACNet

National registries e.g.
patients, providers

EMR System
OpenMRS

Pharmacy system

Laboratory System

Registration and insurance

Mobile health systems
SANA, ODK, OpenXdata

SDMX-HD

Dicom

HL7

HL7/REST

HL7

HL7

HL7

HL7

HL7
RegaDB Viral Genotype Storage
## Viral Isolate Resistance Evolution

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**Predicting Phenotype from Genotype (RegaDB)**
OpenMRS Components
Thank you

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