This page is our online repository of the many studies conducted exploring OpenMRS. Collectively, these studies provide strong evidence for a variety of use cases: the impact of EMR use on care, secondary data use for site or regional or global program guidelines improvement, and the community open source model. The OpenMRS Community maintains the OpenMRS Evidence Base and adds new studies as they are discovered.

Over 3,860 publications are noted online involving OpenMRS - search query here.

**Note**

This page is new and a work in progress as of August 2023. We are updating this with the thousands of articles published on OpenMRS with a bias towards recent articles from within the last few years.

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation</th>
<th>Year</th>
<th>Country</th>
<th>Reference Key</th>
<th>URL</th>
<th>Misc. Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMR IPV, GBV HIV Index Case Testing (ICT)</td>
<td>Mbah, Rogers, Honore, Ngend. A Review of Index Case Testing Induced Intimate Partner Violence and Electronic Management of Information in HIV Care. xx (2023).</td>
<td>2023</td>
<td>Cameroon</td>
<td>Mbah 2023</td>
<td>10.4236/etpn.2023.124005</td>
<td>Recommendations: • Data tools for HIV/AIDS should integrate IPV indicators. • Include management of IPV survivors in existing EMR systems. • Develop more comprehensive EMRs that include complete care continua, especially for low-income settings. • Countries with limited resources should consider OPENMRS to implement EMR. • Screening for IPV among HIV patients should be scaled up to reduce IPV incidence. • IPV counseling services should be offered post-HIV test counseling to control IPV incidence rates.</td>
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Results: The 30 days initiation rate was 62.7% before and 90.8% after the T&T policy rollout.
CDS
2022 Rwanda Fraser 2022 https://doi.org/10.7755/jmir.2022.6:e32305
A survey of user experience of a well-established HIV implementation by the Rwanda MOH. Part of a larger OpenMRS research study of 112 health facilities in Rwanda. The EHR top uses were to access client data easily or quickly (82/90, 91%), update patient records (56/89, 63%), create new patient records (49/88, 56%), generate various reports (38/85, 45%), and review previous records (43/89, 48%). In addition, >90% (81/90) of respondents agreed that the EHR made it easier to make informed decisions, was worth using, and has improved patient information quality. In intervention sites, staff were significantly more likely to update existing records (P<.04), generate summaries before (P<.001) or during visits (P=.01).

Maternity Labor, Delivery
An example of the use of the VecnaCARES maternal child health package using OpenMRS and their custom hardware package for sites with no infrastructure.

HIV Adolescent
2022 Uganda Ahimbisibwe 2022 http://dspace.mak.ac.ug/handle/10570/10513

NTD

Open Source
2022 Global Paton 2022 https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3917963

Maternity PMTCT HEI Mentor Mothers
2022 Global Paton 2022 https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3917963

EMR Global Goods Open Source

Implementati on on EMR Emergency

ICD 11 API

Machine Learning HIV
2020 Kimaina 2020
Translation of AMRS-based research for improving patient care. This study was one of the precursors for a large research study on the use of machine learning to improve loss to follow up of HIV patients in Kenya

Oncology Chemothera py

Interoperability Patient Transfer
Diabetes

HIV
2019 Kenya Humphrey 2018 Helped understand the link between parental viral suppression and child suppression

Radiology, RIS
2018 General Gichoya 2018

HIV MCH LTFU
2018 Holmes 2018 Helped understand the impact of pregnancy and sex on retention in care

HIV Drug Resistance Pediatric

EMR Open Source
2017 General Sydykova 2017

ANC, MCH

EMR

EMR Ebola
The rapid assembly of a community of designers and developers to build a new tablet based UI and workflow for an Ebola treatment program in Sierra Leone. One of a handful of EHR like applications actually implemented and used for clinical care during the Ebola outbreak.

Open Source EMR
2017 Global Kasthuriratnhe 2017 http://doi.org/10.4338/ACI-2016-08-RA-0139

Interoperability Indicators Reporting DHIS2

Patient Outcomes HIV
2016 Kenya Olney 2016

Interoperability API EMR
Informatics Capacity Building


2015 Were 2015 Building informatics capacity in Kenya: additional information on AmpathMRS. Per Ampath: "The publications using AMRS have helped us identify key gaps in the HIV care and treatment program including the high rate of LTFU from the first paper we published. We also used AMRS to inform MOH about VL testing in pregnancy a few years ago though this was not published as a paper. More recent use of AMRS data has been in IeDEA analysis that have looked at a number of things including new guideline adoption."

LTFU HIV


2015 Geng 2015 Identified LTFU patients to be tracked to help understand what was going on.

Informatics Capacity Building


Decision Support (CDS) Pediatrics HIV


2013 Were 2013 One of the most important clinical evaluation studies of the impact of OpenMRS in improving care.

EMR


2012 Kasthuriathne 2012 http://dl.acm.org/citation.cfm?id=2382866

Open Source Modular


2012 General de Abajo 2012 https://www.igi-global.com/chapter/content/64993

Implementati on EMR Open Source


Terminology SNOMED Tuberculosis


Decision Support (CDS) HIV


2011 Were 2011 Early clinical evaluation of the impact of OpenMRS (paper based) reminders on patient care

HIV


2010 Mozambique Manders 2010

MCH Reproductive Health


2010 Nigeria Thompson 2010 https://ebooks.iospress.nl/volumearticle/13451 Early implementation of OpenMRS for maternal-child health

Implementati on MCH


Implemen tation on Capacity Building


HIV


2010 Kenya Braatstein 2010 Helped look at sustainability of firstline regimes

PMTCT HIV MCH


2010 Kenya Nyandiko 2010 Helped assess the effectiveness of the PMTCT program.
EMR Open Source

Christopher J. Seebregts, Burke W. Mamlin, Paul G. Biondich, Hamish S.F. Fraser, Benjamin A. Wolfe, Darius Jazayeri, Christian Allen, Justin Miranda, Elaine Baker, Nicholas Musunguzi, Daniel Kiyiwa, Carl Fourie, Neal Lesh, Andrew Kanter, Constantin T. Yiannoutsos, Christopher Bailey.

2009 Global Seebregts, 2009


Important early paper on OpenMRS community with Chris Seebregts one of the 4 co-founders as first author.

Implementations

Early work with OpenMRS in Rwanda


2007 Rwanda Allen 2007

https://books.google.ca/books?id=er&dq=K+ArV+Ag A+BAJ&lr=nl&hl=nl&sa=X&oi=book_result&ct=result&resnum=1&f=false

Early work with OpenMRS in Rwanda

EMR Nutrition Rural


2007 Rwanda Allen 2007

Early work with OpenMRS in Rwanda

Tuberculosis Labs


2007 Peru Blaya 2007


EMR HIV


2007 Kenya Tierney 2007

General background on the early days of OpenMRS, it's precursor system and AmpathMRS.

EMR HIV


2006 Rwanda Allen 2006


The first paper describing the OpenMRS work in Rwanda.

EMR Open Source


2006 Global Wolfe 2006


Post version of the previous paper in the first year.

EMR Open Source


2006 Global Mamlin 2006


The first OpenMRS paper the year we first launched in Kenya, Rwanda and South Africa.

EMR HIV LT Fu


2006 Kenya Wools-Kaloustian 2006

Identified LT Fu as an issue


2005 Kenya Mamlin 2005


General background on the early days of OpenMRS describing one of the two precursor systems.


2005 Global Biondich 2005


OpenMRS design and development underway


2005 Global Fraser 2005


Early designs and EHR projects in low income settings. Kind of a manifesto for OpenMRS design and use. Strangely has masses of citations even to this day.


2003 Kenya Rotich 2003


This described the main precursor system of OpenMRS at AMPATH


2002 Kenya Tierney 2002


This described the main precursor system of OpenMRS at AMPATH


2001 Kenya Hannan 2001


This described the main precursor system of OpenMRS at AMPATH