

Published Project

Impilo EHR

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1. General Overview

Project Name

Impilo EHR

Organisation

N/A

Project country

[Zimbabwe](#)

Geographic scope

Planned national deployment, with current implementation at 146 health facilities across Harare City and UMP District (as of May 2020)

Overview of the digital health implementation

The MoHCC introduced a comprehensive, patient-centric Electronic Health Record system (EHR) in 2016, called "Impilo" (meaning "Health" in the local language of Ndebele) and designed and developed by a 100% Zimbabwean technical team, to support health workers to follow clinical protocols for priority health services such as malaria and HIV testing, maternal health services, and other outpatient care services and ensure a high standard of care, while capturing data along the way that was destined for numerous different health programmes.

Contact name

N/A

Contact email

N/A

Team members

N/A

Viewers

N/A

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2. Implementation Overview

Software and related Digital Health Interventions (DHI)

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Impilo EHR

Digital Health Intervention

- 2.1.1 Verify client unique identity
- 2.1.2 Enroll client for health services/clinical care plan
- 2.2.1 Longitudinal tracking of client's health status and services received
- 2.2.2 Manage client's structured clinical records
- 2.2.3 Manage client's unstructured clinical records (e.g. notes, images, documents)
- 2.2.4 Routine health indicator data collection and management
- 2.3.1 Provide prompts and alerts based according to protocol
- 2.3.2 Provide checklist according to protocol
- 2.3.3 Screen clients by risk or other health status
- 2.7.1 Schedule client appointments based on clinical care plan
- 2.7.1 Schedule client appointments based on clinical care plan
- 2.7.2 Schedule healthcare provider's activities
- 2.9.1 Transmit or track prescription orders
- 2.9.2 Track client's medication consumption
- 2.9.3 Report adverse drug effects
- 2.10.1 Transmit client diagnostic result to healthcare provider
- 2.10.2 Transmit and track diagnostic orders
- 2.10.3 Capture diagnostic results from digital devices
- 2.10.4 Track biological specimens
- 3.2.1 Manage inventory and distribution of health commodities
- 3.2.2 Notify stock levels of health commodities
- 3.4.1 Notify birth event
- 3.4.2 Register birth event
- 3.4.3 Certify birth event
- 3.4.4 Notify death event
- 3.4.5 Register death event
- 3.4.6 Certify death event
- 4.1.1 Non routine data collection and management
- 4.1.2 Data storage and aggregation
- 4.1.3 Data synthesis and visualizations
- 4.1.4 Automated analysis of data to generate new information or predictions on future events
- 4.4.1 Data exchange across systems

Health focus area(s)

- Birth events
- Death events
- Registration of clients and demographic information
- Health Promotion
- Immunizations
- Surveillance
- COVID-19
- Other infectious diseases (non-vector borne)
- Tuberculosis
- Elimination of Mother to Child Transmission (eMTCT) of HIV/AIDs and Syphilis (EMTCT/PMTCT)
- Maternal Vaccination / Immunization
- Other maternal health
- Pregnancy/antenatal care
- Childhood vaccinations / immunization
- Other newborn and child health
- Other chronic conditions and disabilities
- HIV/AIDS
- Other sexual and reproductive health

Health System Challenges (HSC)

- 1.1 Lack of population denominator
- 1.2 Delayed reporting of events
- 1.3 Lack of quality/reliable data
- 1.5 Lack of access to information or data
- 1.7 Lack of unique identifiers
- 3.1 Poor patient experience
- 3.2 Insufficient health worker competence
- 3.5 Insufficient continuity of care
- 3.7 Poor adherence to guidelines
- 5.3 Low adherence to treatments
- 5.4 Loss to follow-up

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- 7.1 High cost of manual processes
- 8.1 Insufficient patient engagement
- 8.2 Unaware of service entitlement
- 8.4 Lack of transparency in commodity transactions
- 8.5 Poor accountability between the levels of the health sector
- 8.6 Inadequate understanding of beneficiary populations

Health Information System (HIS)

- B. Civil Registration and Vital Statistics
- G. Data interchange interoperability and accessibility
- H. Electronic Medical Record
- N. Health Management Information System
- P. Identification registries and directories
- V. Public health and disease surveillance
- X. SHR and health information repositories

Coverage type

National

🚩 National Level Deployment

# Health Workers	# Facilities	# Clients
1400	146	500000

Has the government financially invested in the project?

Yes, there is a financial contribution through MOH budget

Implementing partner(s)

- ICAP
- CDC

Investor(s)

- Centers for Disease Control (CDC)
- COVID-19
- Gavi, The Vaccine Alliance
- PEPFAR
- The Global Fund
- UNFPA

Completion of Project stages

Legend: ▶ Project start date ▼ Project end date — Stage completion date -- Current period ○ Next stage (incomplete) — Completion period

The date under a stage represents when that stage was completed.

3. Technology overview

Technology deployment date

N/A

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- Protective free and open source software

Code documentation or download link

N/A

Link to the application

N/A

Link to wiki or project website<https://apps.mohcc.gov.zw/mrs-docs/index.html>

4. Interoperability & standards

What other system do you interoperate with ?

- Yes, links to Health Management Information System (HMIS)

<https://www.dhis2.org/>**What data standards does your digital health project use?**

- ICD-10
- LOINC

COVID-19 custom fields

What type of solution is it (Select all that apply)?

- Software

Provide link for documentation for more information

N/A

Which is the best usage area for your solution?

- Surveillance and Modelling
- Diagnosis and Diagnostics