

Electronic Management of Immunization Data (EMID) System



FOCUS States 36+ 1 states



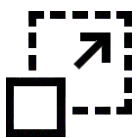
Overview

The Electronic Management of Immunization Data (EMID) is Nigeria's homegrown innovative digital platform. It was developed for the management of COVID19 data but has now been expanded for the management of routine immunization (RI), with plans for further expansion to supplementary immunization activities (SIA) and data on adverse effects following immunization (AEFI). The EMID system facilitates vaccination scheduling, real-time entry of clients' data, collation, analysis and validation of clients' data.

Funded by Global Alliance for Vaccines and Immunization (GAVI), eHealth Africa (eHA) is supporting the National Primary Healthcare Development Agency (NPHCDA) in optimizing and scaling up use of the system for the management of all other vaccination in Nigeria. The optimisation project was necessitated by the myriad of challenges impeding the effective utilization of the EMID platform.

Towards better performance and seamless operation of the EMID system

To position the EMID application for better performance and seamless operation, these improvements have been implemented on the EMID system:



Scalability



Data Security



Flexible mobile application

EMID application is positioned to handle various campaigns such as COVID, Routine Immunization, Typhoid vaccination, and Polio and Non-Polio Supplementary Immunization Activities among others and is built to be interoperable with the DHIS2 national instance which serves as the backend data warehouse.

EMID application is taking a cautionary approach by improving the security layers of the system. A user password is required for clients to access their information and a one-time OTP will also be required to effect change on the user's profile.

The application is built on React native and will be available on both iOS and android devices. Allowing flexibility of use across a variety of phones.

eHealth Africa's Approach

Validation Functionalities

eHealth Africa has introduced a more robust system of validation for the data collection process. This offers a more robust and functional system than the kobo toolbox previously used.



The geofencing feature ensures that data is only collected by fixed teams when they are within the geographical location assigned for their data entry to be registered on the app, eliminating the possibility of procuring services.



The new liveness detection feature ensures that beyond the still photos of clients, facial feature movements such as blinking are required for verification of client vaccination. This eliminates the possibility of utilizing pictures/static images for data entry. The national team can now have a higher level of confidence in the vaccination data generated using the tool.

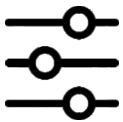
Ease of use Functionalities



The Draft Page: The new application allows recorders to capture data in environments where network connectivity is at its lowest using the new draft page. The feature prevents the loss of incomplete data.



The Synchronization feature ensures that recorders no longer need to resort to manual syncing when there is internet connectivity because the system will synchronize automatically once internet connectivity is restored.



The sort and filter feature allows for ease in identifying previous records. With the use of QR codes, clients can search easily without inputting the vaccination number or name. The flexibility of the optimized app allows vaccinators to record and validate client details themselves without having a different validator assigned to them while on duty.

Troubleshooting and Issue Resolution Functionalities



The FAQs and Help center provides easy access to support questions or challenges that arise while using the application. The help center also has links to the various channels that allow for direct communication with the EMID helpdesk support office.

IT Infrastructure services



- Procurement of routers, screens
- Physical upgrades of offices
- 24 hour power supply with solar systems

Set up Help Desk system for issue resolution

eHealth Africa (eHA) software development and help desk teams worked to develop a real-time response structure that caters to users' needs within the optimized EMID application. The improved EMID help desk at the National Primary Health Care Development Agency (NPHCDA) ensures availability of personnel at every level of troubleshooting, to resolve issues down to zero for both the NPHCDA staff and end users of the EMID app

Achievements

- Improved effectiveness and efficiency of primary health care delivery
- More inclusive access to quality healthcare
- Improved the ability to plan and carry out and effective field activities the required resources
- Potential total loss of data eliminated
- Increased turnaround time on progress of vaccination campaigns and activities

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