INSIGHT
INTO HEALTH INFORMATION SYSTEMS

NEWS LETTER

NDR Fingerprint Re-Validation

The National Data Repository (NDR) is a critical tool for management of HIV clients in Nigeria. However, the accuracy of client identification on the NDR platform has been a concern. To address this issue, the NDR is undertaking a fingerprint re-validation activity.

This activity involves re-capturing fingerprints from clients who are already enrolled in HIV care. The re-captured fingerprints will be compared to the fingerprints that are currently stored on the NDR. This will help to ensure that the fingerprints on the NDR are accurate and up-to-date.

The fingerprint re-validation activity will also help to identify any potential cases of wrong client reporting. By cross-referencing the re-captured fingerprints with existing records, the NDR can detect instances of manipulations in unique client reporting and misrepresentations of client identities.

The NDR fingerprint re-validation activity is a critical step in improving the accuracy and integrity of client identification on the NDR platform. This will in turn contribute to better evidence-based policy making and improved public health planning for the implementation of HIV programs in Nigeria.
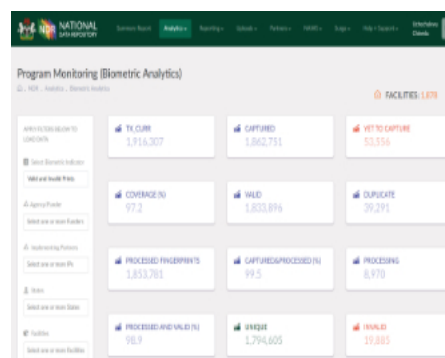
National Data Repository

Summary of NDR Fingerprint Re-Validation

- The fingerprint re-validation activity is being conducted in collaboration with the National Agency for the Control of AIDS (NACA) and other stakeholders.

- The activity is expected to be completed between July 1 and June 30, 2024.

- The NDR fingerprint re-validation activity is a valuable opportunity to improve the quality of data on the NDR platform.

- The improved data quality will help to ensure that HIV programs in Nigeria are more effective.

EDITORIAL

The second edition of the NDR Quarterly Newsletter highlights the organization's commitment to healthcare data management and optimizing patient care. It includes articles on cutting-edge advancements in biometrics, enhanced surveillance data, and continuous quality improvement.

The main article focuses on patient biometrics recapture and revalidation to maintain accurate records in the rapidly evolving healthcare landscape. The Client Treatment Distribution Dashboard provides real-time insights to healthcare administrators for better resource allocation and improved patient outcomes. Enhanced surveillance data capabilities aid in identifying public health trends and responding to outbreaks effectively.

The newsletter reflects the NDR's dedication to innovation and improvement in healthcare data management. The NDR aims to deliver exceptional solutions, allowing healthcare professionals to focus on patients' well-being. The newsletter encourages collaboration and positive impacts on patients worldwide.

– Nnamdi Umeh

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Upgrade of Patient Biometrics Service

Before now, the Patient Biometric Service (PBS) on EMRs allows for the fingerprint of a patient to be captured just once. If for any reason, the fingerprints need to be recaptured, the old one is deleted to allow for the recapture. But as part of the process of ensuring the quality and integrity of fingerprints being captured on the EMR, the PBS has been successfully upgraded to allow for recapture of fingerprint without necessarily deleting the previous one. This upgrade will provide the foundation for enhancing the accuracy and reliability of patient identification, leading to improved patient record management, and streamlined healthcare delivery.

client treatment distribution dashboard

LIMS Updates

Improvements continue to take place on the LIMS platform to ensure that the user experience with the LIMS-EMR integration gets better. One important update is the sample rerouting and rejection.

There are times when a PCR lab needs to transfer samples to another PCR when it either has its hands full, or is in short supply of commodities or for some other reason. In cases like this and to correctly track such samples, enhancements have been made at the LIMS end to allow for the transfer of these samples from one PCR lab to another. On the EMR, the LIMS-EMR module has also been updated to be able to collect information about the movement of such samples. This intervention helps to improve sample management and reduces processing delays.

Also, a sample can be rejected for various reasons. When this happens, feedback needs to be provided to clinicians for them to take necessary action. The LIMS-EMR module has been enhanced to receive and document rejected samples with reason(s) for rejection. This intervention ensures accurate sample tracking and facilitates timely resolution of sample-related issues.

NDR Client Treatment Distribution Dashboard

Limited access to quality healthcare services in rural areas hinders HIV testing, treatment, and care. To address this challenge, the client treatment distribution dashboard was developed. This dashboard retrieves client demographics data from the National Data Repository (NDR), analyzes it using data analytics algorithms, and presents the analyzed data on a user-friendly dashboard.

The client treatment distribution dashboard offers several benefits to public health stakeholders, researchers, and policymakers. Firstly, it saves time and improves accuracy by automating data retrieval and analysis, reducing manual data entry errors. This facilitates quick and accurate decision-making based on real-time information.

Secondly, the dashboard provides a comprehensive view of patient data, enabling stakeholders to make informed decisions and improve patient care. It enhances patient outcomes and satisfaction by ensuring that healthcare decisions are based on a holistic understanding of the patients' circumstances.

Thirdly, the automated dashboard helps organizations comply with healthcare regulations and standards, such as HIPAA

It ensures that patient data handling follows the required protocols, promoting data security and privacy.

Additionally, the dashboard promotes transparency and accountability by providing stakeholders with access to patient data. This fosters better communication, collaboration, and coordination among healthcare providers, leading to improved patient care.

Lastly, real-time access to data and insights enhances staff productivity, enabling them to make data-driven decisions and contribute to the organization's overall efficiency and progress.

The client treatment distribution dashboard is publicly accessible via the following URL: https://ctd.nascp.gov.ng/dashboard.
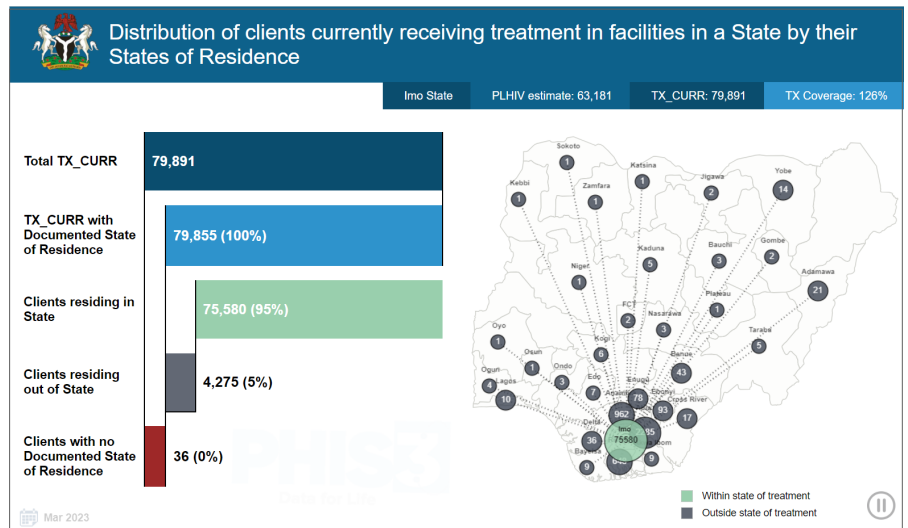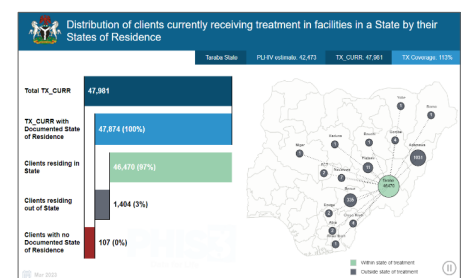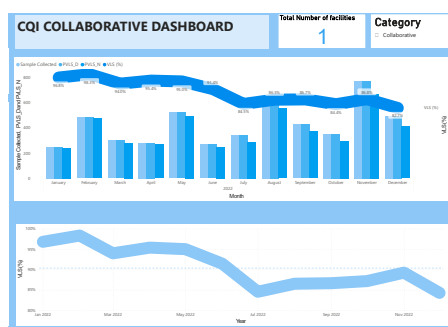

client treatment distribution dashboard

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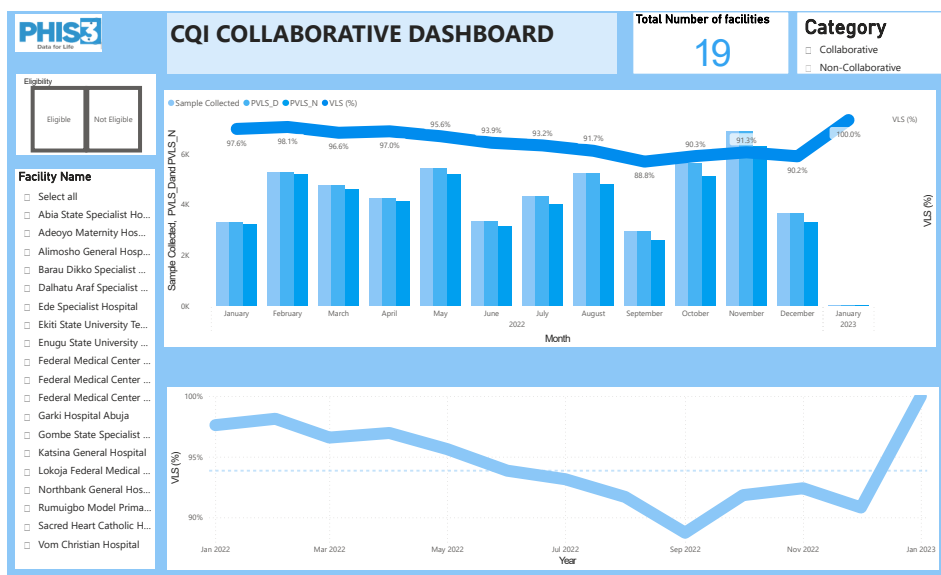
Collaborative dashboard showing viral load suppression across all 19 sites
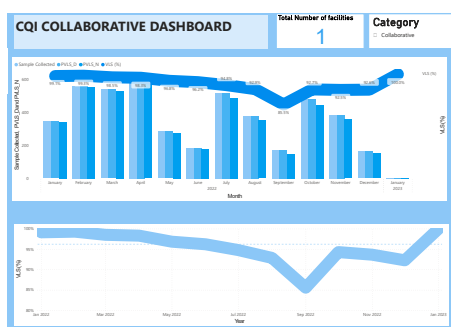
Collaborative dashboard showing viral load suppression in NorthBank General Hospital

Collaborative dashboard showing viral load suppression in Alimosho General Hospital

Case-Based Surveillance Dashboard

when concluded will allow for access to explore data, use analytical methods and tools to extract meaningful insights, conduct predictive modelling and further encourage collaborations with critical stakeholders.

Strengthening Decision-Making with Enhanced Surveillance Data on NDR: Valuable Stakeholder Feedback on Case-Based Surveillance Dashboard

Surveillance data has become increasingly crucial in informing effective decision-making processes. The government of Nigeria supported by PHIS3 organized a national surveillance stakeholders meeting, which offers an opportunity for implementing partners, funders, and the government to share updates on HIV surveillance activities.

Leveraging the NDR platform to improve programs II: The journey so far on the National Clinical Mentors (NCMs) collaborative.

The NDR in Nigeria serves as the warehouse of all data generated by every agency or partner implementing HIV/AIDS or HIV/AIDS – related programs. Leveraging the NDR for quality improvement projects can be a valuable strategy.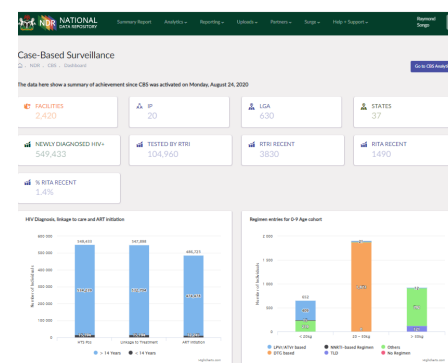 Following the commencement of the QI coaching program for the NCMs, data from the NDR served as the source for data used to identify and prioritize the problem. The project life of the collaborative was nine (9) months across all the CDC states. (August 2022 to April 2023).

As the collaborative reporting is being concluded, a PowerBI dashboard was developed with data source from the NDR which hopes to demonstrate performance of key viral load indicators over the project life. This dashboard

This quarter, stakeholders provided essential feedback on the walkthrough of the case-based surveillance dashboard presented to them. This important feedback has provided an avenue to further enhance the dashboard for an optimum user-friendly and data-use experience for all stakeholders.

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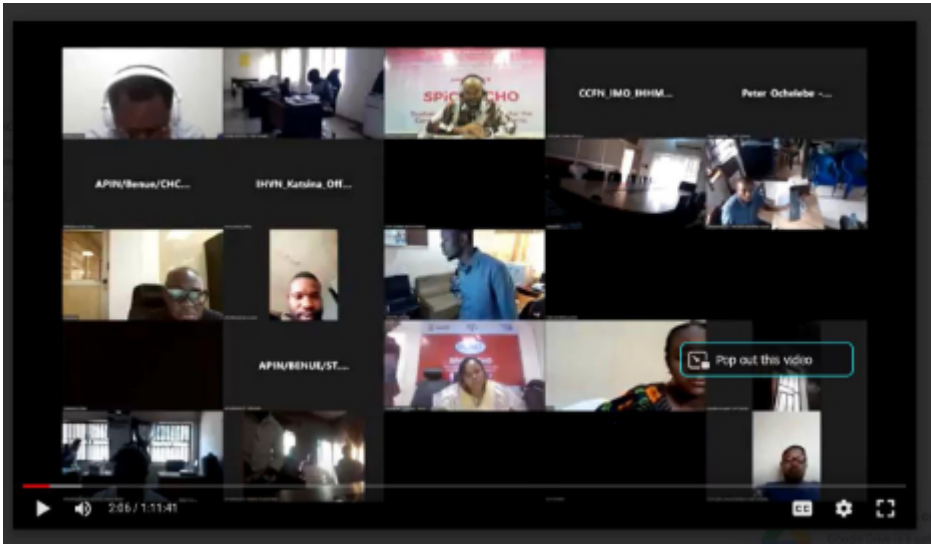
A typical SPICE_ECHO virtual session

Extension for Community Healthcare Outcome (ECHO)

The Extension for Community Health Outcome ECHO was launched by the University of New Mexico and Nigeria (SPICE ECHO) in 2003 and 2017 respectively. It aims to democratize medical knowledge and get best practice to under-served people by moving knowledge instead of people.

Health professionals all around the country have continued to benefit from weekly learning opportunities provided by SPiCE_ECHO, which has increased the demand for fresh information on HIV care, management, and treatment. The participation rate has increased tremendously following the expansion to new program areas including HIV recent infection surveillance, mortality, case-based surveillance and key popula-

tion. The monthly facility case presentation has been put on autopilot for a long time now. It is a concept designed to engage facilities to take turns to share practical cases of their ability to manage different cases in their facility.

During Special ECHO sessions, the Federal Ministry of Health and the US Center for Disease Control have utilized the platform on many occasions to educate healthcare professionals about emerging public health issues. Areas covered include topics on non-communicable diseases and the monkey pox menace among other topical health issues.

Following the need for an accurate Patient Information Management System (PIMS) in Nigeria, the ECHO platform was used for the engagement of stakeholders to ensure the success of the initiative so that the end users can buy into the idea to foster its optimization when fully deployed. These, among other health system solutions, are routinely publicized using the ECHO project.

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Public Health Information, Surveillance Solutions, and Systems (PHIS3)

(PHIS3) is an independent non-governmental organization devoted to designing and harnessing innovations in advanced analytics and technologies to provide reliable, accurate data to aid decision making, plan sustainable programs and develop public policies that reach and benefit underserved populations. By consistently adapting to evolving and emerging

trends in public health, information management, and research, we are able to provide quality services that are responsive to the ever-changing needs of our clientele

Our Vision

To be a leader in the provision and management of public health information systems and solutions that are resilient and adaptable to enable efficient delivery of quality services to the populace.

Our Mission

To expand the frontiers of reliable public health information and solutions for decision making at all strata and to be the hub for highquality, timely, and usable health information for stakeholders especially the Government of Nigeria

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NATIONAL DATA REPOSITORY

PHIS3