Data.FI
Data for Implementation

Because Data Save Lives

Countries have made incredible strides toward HIV epidemic control, but achieving the 95-95-95 goals will require better use of improved data. Data.FI provides frontline healthcare workers and decision makers with the data and tools needed to end the HIV epidemic. Data.FI supports all PEPFAR population programming and is platform-agnostic, meaning that our solutions avoid traditional silos. We pinpoint emerging HIV outbreaks, develop client-centered information systems that track individuals through prevention, treatment, lab, dispensing, and wrap-around services, and optimize the use of client-line and aggregate data to predict and meet client needs. We work with local partners to build skills and capacity, in order to transition responsibilities to local agencies over time.

Data.FI provides services across four areas:

- **Digital health system** enhancement and scale-up to transform client care
- **Data analytics** that pinpoint cascade inefficiencies and solutions
- **Decision support** interventions to maximize the use of real-time data
- **Data standards and governance structures** that optimize investments and ensure data quality

Data.FI is a five-year global cooperative agreement (2019-2024), funded by the U.S. President's Emergency Plan for AIDS Relief (PEPFAR) through USAID.

INTERVENTIONS	OUTCOMES	GOAL
HIV Epidemic Control Rooms	▪ HIV outbreaks are predicted and prevented ▪ Population size estimates are more robust ▪ PrEP tracking and commodity forecasting is strengthened	Prevent new HIV infections
Optimized and Scaled Electronic Medical Records Integrated Data Warehouses	▪ Index testing and contact tracing are more efficient ▪ Demand for HIV services by the untested and well is heightened ▪ Geographic pockets of new diagnoses are systematically identified and receive enhanced testing interventions	95% know their status
Digitized Viral Load Tracking Systems	▪ Clients tested are immediately linked to care ▪ Clients receive high quality care tailored to their risk profile and preferences ▪ Clients are tracked over time, space, and services ▪ Retention is tracked seamlessly between clinical and community partners	95% on ART
Predictive Analytics	▪ Viral load test results are incorporated into the client record efficiently ▪ Dispensing data is tracked monthly for clients on MMSD ▪ Non-adherent clients are identified early	95% virally suppressed

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HIV Epidemic Control Rooms

In technology-enabled HIV Epidemic Control Rooms decision makers visualize integrated data sets and follow a standardized approach to analyzing and actioning data in real time for continuous program improvement. In Nigeria, using this approach stakeholders identified a clustered epidemic. Subsequent targeted testing led to increased testing yields and 100% increase in total HIV positive diagnoses over 5 weeks in Akwa Ibom State.

Optimize and Scale EMRs

Data.FI helps countries align EMRs with treatment guidelines and reporting requirements. Optimized EMRs track clients across the 95-95-95 continuum, improve continuity of care and client-centered care and generate data for epidemic and program performance monitoring. Clinical decision support tools are built into point-of-care EMRs. Linkages between community and facility systems facilitate outreach to improve client retention.

Integrated Data Warehouses

A central data warehouse matches client records and unifies data across sites and disparate systems (EMR, lab, dispensing), providing comprehensive, de-duplicated data for program management, predictive analytics and cohort analyses. Analyses pinpoint challenges and progress across the clinical cascade and can improve resource allocation. In South Africa, the use of centralized data led to a 35% increase in the average daily case finding over three months.

Digitized Viral Load Tracking

Digital lab systems track viral load from specimen collection to results return, and can deliver results to health facilities in real-time for rapid action, as well as identify bottlenecks in the lab value chain. eLABS, currently used by PEPFAR programs in over 1,000 facilities in Zambia and South Africa, has improved total turnaround time on viral load specimens by over 60%.

Predictive Analytics: Client Phenotyping

We need to meet clients where they are, with what they need, when they need it. Data.FI's client phenotyping approach uses all available client-line, population-level and satellite imagery data to develop localized profiles of vulnerable clients. Combined with descriptive analytics and machine learning techniques, this approach can predict and test differentiated care models to prevent lost to follow up and improve rates of viral suppression.

FOR MORE INFORMATION

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