

MOLECULAR DIAGNOSTIC LABORATORY

The Institute of Human Virology Nigeria (IHVN) has been instrumental in supporting molecular multi-disease testing in Nigeria through the Molecular Diagnostic Unit (MDU). MDU has provided technical support in establishing and upgrading the infrastructure of 17 functional Polymerase Chain Reaction (PCR) laboratories in the country. These laboratories are strategically located nationwide for Infant Virological Testing (IVT) for HIV exposed infants and for viral load (VL) tests to monitor patients on antiretroviral therapy.

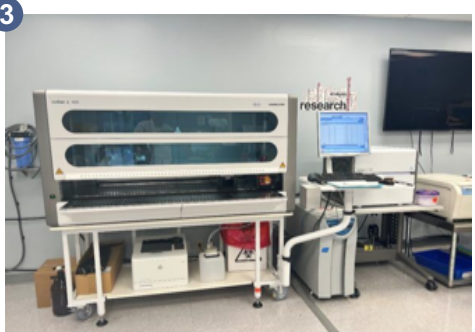


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Capacity Building

- Trained 700+ laboratory scientists on EID/VL testing
- Capacity building for 200+ new generation of skilled lab personnel

Molecular Multidisease testing

- Assayed over 67,953 tests for Early Infant Diagnosis (EID) and 1,637, 725 samples for viral load (VL) in support of the National HIV program
- Supported NCDC to test 121,300 SARS-CoV-2 tbreausamples using Roche c8800 during C VID-19 a
- Tested 1750+ HPV samples in support of CHAI cervical cancer screening project
- Maintenance of Cold Chain (VL sample storage at 4°C, -20°C, and -80°C) and logistics.



1. IHVN Lab Scientist processing VL/EID samples in BSL-2
2. IHVN Lab Scientists testing VL samples at NCDC-NRL, Abuja
3. Roche C4800 molecular platform

Infrastructural Upgrade

- Upgraded 17 functional Polymerase Chain Reaction (PCR) labs in the country.
- Incorporated VL testing module into LIMS and scaled up of PCR laboratories
- Supported Human Virology Research Center (PLASVIREC), RSUTH, ABUTH and FTHG to attain ISO 15189 accreditation in VL and EID testing
- Out of the 31 PCR labs established by PEPFAR/GF funds, 59% were set up by IHVN-MDU



Incorporation of VL LIMS module



-80oC Freezer for storage of VL sample

Current PCR labs being supported and funding source

- Supporting 4 Global Fund PCR labs (UMTH, UDUTH, NAUTH and LASUTH) in Nigeria
- Supporting PEPFAR-funded PCR labs (ABUTH, FTH Gombe, RSUTH) in Nigeria