

New Test Announcement



HIV RNA Quantification with Reflex to Genotypic Drug Resistance and Phenotypic Resistance Prediction

Effective June 17, 2013, St. Luke's Laboratory will begin referring HIV viral load testing to Mayo Medical Laboratory. Two tests will be offered:

- HIV RNA-1 Quantification with Reflex to Genotypic Drug Resistance and Phenotypic Resistance Prediction (HIV-1 Qnt Rfl to Geno/Pheno) and
- HIV-1 RNA Quantification (HIV-1 Qnt Viral Load).

HIV-1 Quantification with Reflex to Genotypic Drug resistance and Phenotypic Resistance Prediction.

Useful For:

- Quantifying plasma HIV-1 RNA levels (viral load) in HIV-1 infected patients
- In patients with HIV-1 RNA levels >1,000 copies/mL, genotypic determination and prediction of phenotypic viral resistance to anti-HIV drugs is performed to guide therapy
- Guiding initiation or change of antiretroviral regimens

Testing Algorithm:

- If HIV-1 RNA quantification is $\geq 1,000$, then HIV type 1 genotypic drug resistance mutation analysis will be performed at an additional charge.
- If HIV type 1 genotypic drug resistance mutation analysis detects drug resistance mutations, then HIV-1 Phenotypic Drug Resistance Predictions will be performed at an additional charge.

Specimen Requirement:

3 mL of frozen EDTA plasma. Specimens must be spun down and separated within six hours of collection.

HIV-1 RNA Quantification

Useful For:

- Quantifying HIV-1 RNA levels (viral load) in HIV-1-infected patients:
 - Before initiating anti-HIV-1 drug therapy (baseline viral load)
 - Who may have developed HIV-1 drug resistance while on anti-HIV therapy
 - Who may be noncompliant with anti-HIV-1 drug therapy
- Monitoring HIV-1 disease progression while on or off anti-HIV-1 drug therapy.
- Evaluating infants <18 months of age born to HIV-infected mothers.

Specimen Requirement:

2.5 mL of frozen EDTA plasma. Specimens must be spun down and separated within six hours of collection.

If you have questions, please contact Krista Warren, MD (218)249-5208, Jennifer Viergutz, MT(ASCP) (218)249-5724 Laboratory Operations Manager or Sue Bachinski, MT(ASCP) (218) 249-2445 Laboratory Outreach Manager.