Changes to the HIV Lab Testing Algorithm

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Reference Sheet

Test Type	Analytes Detected	Method Name	Method Category	Example Automated Platform	Example Assay
				BioMerieux	
		Enzyme-linked immunosorbent		Vironostika HIV- 1	
2nd generation	IgG	assay (ELISA)	Immunoassay	Microelisa	BioMerieux HIV-1 Plus O
3rd generation	IgG, IgM	Enzyme immunoassay (EIA)	Immunoassay	Bio-Rad EVOLIS	HIV-1/HIV-2 PLUS O EIA
		Chemiluminescent			
		microparticle immunoassay			Abbott HIV Combo
4th generation	IgG, IgM, p24	(CMIA)	Immunoassay	Abbott Architect	Ag/Ab
		Reverse-transcription			
		polymerase chain reaction (RT-	Nucleic acid amplification		
Viral load	RNA	PCR)	test (NAAT)	Abbott m2000	Abbott HIV-1 realTime

Antibody	Antibodies are proteins that are produced by the human body in reponse to infection with HIV.		
Antigen	Antigens are proteins that make up the physical structure of HIV. They are the target of human antibodies.		
	Ribonucleic acid is similar to human DNA and encodes the genetic information stored in HIV. It is produced during HIV		
RNA	infection.		
IgG	Immunoglobulin G is the second set of antibodies produced in response to HIV infection		
IgM	Immunoglobulin M is the first set of antibodies produced in response to HIV infection		
p24	p24 is a protein piece of the HIV capsid. It is produced during HIV infection and is targeted by human antibodies.		

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