

Какие виды тестов следует использовать и когда?

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STEP-UP: Skills Training to Empower Patients

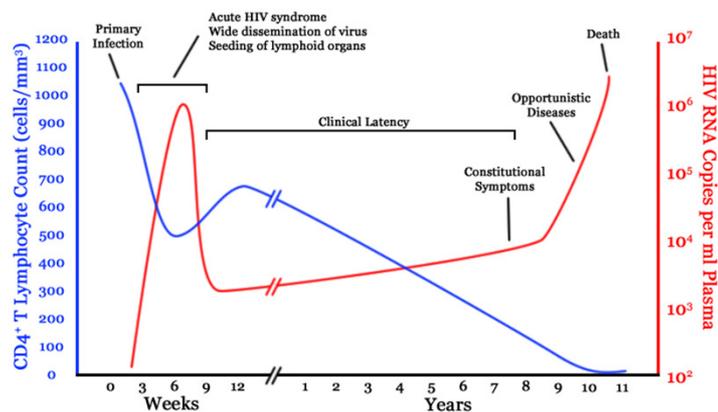
Задачи:

- Понимание того, какой результат дает тот или иной тест и *когда* его использовать



STEP-UP: Skills Training to Empower Patients

- СПИД был впервые описан в 1981 году
- Первые тесты на ВИЧ появились в 1984 году: скрининговые и подтверждающие тесты



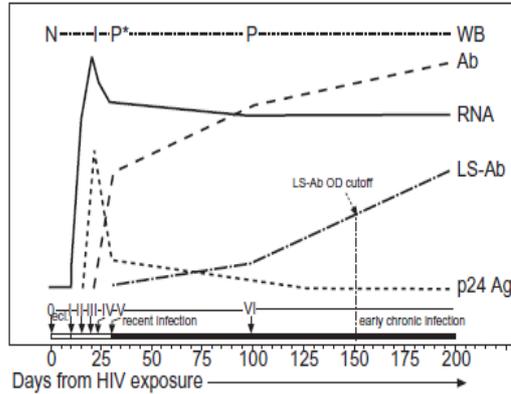
Fauci Ann Intern Med. 1996;124(7):654-663

<http://annals.org/aim/fullarticle/709558/immunopathogenic-mechanisms-hiv-infection>

AIDS, 2003 Sep 5;17(13):1871-9.

Dynamics of HIV viremia and antibody seroconversion in plasma donors: implications for diagnosis and staging of primary HIV infection.

Fiebig EW¹, Wright DJ, Rawal BD, Garrett PE, Schumacher RT, Peddada L, Heldebrandt C, Smith R, Conrad A, Kleinman SH, Busch MP



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Table 1. Laboratory stages of primary HIV infection based on the emergence of viral markers in 51 seroconverting plasma donors.

Stage	Marker						Duration in days (95% CI) ^a	
	RNA	P24 Antigen	Antibody (EIA)		Western blot	Individual	Cumulative	
			NS	S				
I	+	-	-	-	-	5.0 (3.1, 8.1)	5.0 (3.1, 8.1)	
II	+	+	-	-	-	5.3 (3.7, 7.7)	10.3 (7.1, 13.5)	
III	+	+	-	+	-	3.2 (2.1, 4.8)	13.5 (10.0, 17.0)	
IV	+	+/-	-	+	I	5.6 (3.8, 8.1)	19.1 (15.3, 22.9)	
V	+	+/-	+/-	+	+ ^b	69.5 (39.7, 121.7)	88.6 (47.4, 129.8)	
VI	+	+/-	+	+	+	Open-ended	Open-ended	

^aCalculations are based on a parametric Markov model.

^bWithout p31 band.

CI, Confidence interval; I, indeterminate; NS, not sensitive, refers to second-generation not IgM-sensitive enzyme immunoassay (EIA); S, sensitive, refers to IgM-sensitive third-generation EIA.

•Stage I-IV 3-5 days; stage V 69.5 days, stage VI no time limitation



Type of test	What the test look for?		
	RNA/ DNA *	Anti- gen	Anti- body
PCR/viral load	•		
p24 only test (Ag)		•	
4th generation antigen/antibody (Ag/Ab) tests (p24+ ELISA, ELI, MEIA/ELFA/ECLIA): includes Architect, Duo, Combo/Combi etc		•	•
1st/2nd/3rd generation antibody only tests (ELISA, ELI, MEIA/ELFA/ECLIA): includes TriDot etc			•
Rapid tests: finger prick and oral swab test are antibody only: includes OraQuick.			•
Western blot tests look for antibodies to specific HIV proteins. They confirm a positive HIV antibody test result.			•

* Viral genetic material

<http://i-base.info/guides/testing/appendix-1-different-types-of-hiv-test>

