

**UNIVERSITY OF MARYLAND UPPER CHESAPEAKE HEALTH
LABORATORY ADULT REFLEX CRITERIA**

Initial Test	Reflex Criteria	Reflex Test(s)
Chemistry		
Bilirubin	Total Bilirubin >2.0	Direct Bilirubin (except neonates)
Hematology		
CBC	WBC's >50,000	Manual Differential
	WBC's <2,000	Manual Differential
	Instrument Flag-> 2+ left shift	Manual Differential
	Instrument Flag-Blasts	Manual Differential
	Instrument Flag-Immature Gran	Manual Differential
	Instrument Flag-Variant Lymphs	Manual Differential
	Instrument Flag-NRBC's	Scan Differential
	Instrument Flag-Platelet clumps	Scan Differential
	Inst. Suspect Flag-Any WBC Flag	Manual Differential
	Any Child Under 1 Year Old	Manual Differential
	Basophilia >4%	Manual Differential
	No Automated Differential Results	Manual Differential
	PLTS > 900,000	Scan Differential
	PLTS < 10,000	Scan Differential
Monos % >20%	Scan Differential	
EOS % >15%	Scan Differential	
Fetal Screen	Positive Fetal Screen	Kleihauer Betke
Immunology		
ASO	Positive ASO Screen	ASO Titer
HbsAG	Positive HbsAG Screen	HbsAG Neutralization
Hepatitis C Antibody	Positive Hepatitis C Ab	Hepatitis C PCR
HIV Antibody	Positive HIV Screen	Western Blot
Lyme Disease	Positive Lyme Screen	Western Blot
RPR	Positive RPR Screen	RPR Titer & FTA
Strep A Screen	Negative Screen	Strep Screen Culture
Urinalysis		
Urine Dipstick	Abnormal Color	Urine Microscope
	(+) Protein	Urine Microscope
	(+) Bilirubin confirmed by (+) Ictotest	Urine Microscope
	(+) Leukocytes	Urine Microscope
	(+) Nitrites	Urine Microscope
	(+) Blood	Urine Microscope
Blood Bank		
Each Main Blood Bank Procedure	Any unexpected initial result yields to a complete work-up	Examples include + DAT, Panels, Phenotyping, etc.
Transfusion Reaction Work-up	Positive results from the initial reaction work-up	Subject to the direction of the Chief Pathologist
Surgical Pathology		
Diagnosis of Breast Carcinoma	Malignant	ER/PR/Ki67 and HER2/neu (invasive carcinoma only) ER/PR (in situ carcinoma only)
HER2/neu	Equivocal (2+)	Fluorescence In Situ Hybridization (FISH) for detection of HER2/neu amplification associated with breast cancer will be performed

Quest Test Code	Test Name	Reflex Tests included with additional charge, when necessary
249	ANA IFA Screen with Reflex to Titer and Pattern	If positive, 18167, ANA Titer and Pattern
19728	HIV Types 1 & 2 Combined	If positive, 12047A, HIV 1/2 Confirmatory Evaluation is performed.
36504	Hepatitis A Total Ab with Reflex to IgM	If positive, 36172 Hepatitis A IGM is performed
37708	HIV 1/2 AB Confirmation Eval	If positive 5223, HIV-1 Western Blot will be performed and if need 37363 HIV2 AB and/or 34313 HIV 2Ab Immunoblot will be performed.
7079	Lupus Evaluation with Reflex	If any initial testing results are prolonged, additional testing will include 33693 dRVVT Screen with reflex dRVVT confirm and dRVVT 1:1 mix and 17408 PTT-LA with reflex to Hexagonal Phase Confirmation will be performed.
6646	Lyme Disease Serology	If positive, then Lyme Disease Ab Confirmation IgG and IgM Western Blot will be performed.
7438X	HSV IgM Ab Reflex to Titer	If HSV IGM by EIA is reactive, then HSV Ab IGM Titer (14553) will be performed.
498	Hepatitis B Surface Ag	If positive, then HBs ag confirmation will be performed.
19728	HIV Types 1 & 2 Antibody Evaluation	If reactive then 12047AHIV 1/2 Ab Confirmatory Evaluation is performed.
70171X	ANCA Screen with Reflex Titer	If atypical P-ANCA, P-ANCA or C-ANCA is positive, titers will be performed.
19955	Celiac Disease Comprehensive Panel	If IgA is positive, an EMA IgA antibody is performed; if positive, the MEA titer will be determined and reported. If the IgA is low, an IgG antibody test will be performed.
15064	Endomysial Antibody Screen	If IgA is positive, an EMA IgA antibody is performed; if positive, the MEA titer will be determined and reported. If the IgA is low, an IgG antibody test will be performed.
14593 14596	Chromosome Analysis	Methods that utilize molecular probes (e.g. FISH) may be required to detect smaller, subtler changes
840	Comprehensive Viral Culture	If positive, Adenovirus culture is performed
14617,14861, 14620	FISH	If positive, additional markers may be performed
11250	Gamma-Hydroxybutyric Acid	If positive, confirmation test 12399 will be performed
2725	Herpes Simplex Viral Culture	If positive, 2066, Herpes Simplex Typing will be performed
16539	JAK2 V617F Mutation with Reflex to exons	If positive, 18800, will be performed
35080	Leukemia/Lymphoma Evaluation Panel	Additional markers may be performed if deemed medically necessary for proper evaluation by reviewing pathologist
16694	HBV DNA, Quant PCR with Reflex	If viral load is \geq 600 IU/ml, then HBV Genotype will be performed
37676	Hepatitis B Core Ab with Reflex	If reactive, Hep B Core IgM will be performed
259	Mitochondrial Ab with Reflex titer	If screen is positive, a titer will be performed
14867	Viral Respiratory, Rapid Culture with Reflex	If test is positive, 39606 will be performed
15020	Respiratory DFA Viral Screen with Reflex	If test is positive, 39607 will be reflexed
6587	Rickettsia Av Panel with Reflex titers	Any positive antibody screen will reflex a titer
799	RPR with Reflex to titer	If RPR is reactive, titer will be performed
144598	Thrombin Clotting Time with Reflex to Mixing Study	If results are increased, mixing study will be performed
145328	VWF Protease Activity with Reflex to Protease Inhibitor	If the VWF Protease Activity is \leq 40, VWF Protease Inhibitor will be performed
16313	Fragile X with Reflex	If Fragile X PCR result is not normal, Southern Blot will be performed
15780	dRVVT Screen with Reflex to dRVVT Confirm	If screen is prolonged (>45 seconds), dRVVT Confirm will be performed at an additional charge. If dRVVT Confirm is positive, dRVVT 1:1 dilution will be performed at an additional charge.

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18698	Thyroid Cascading Reflex	The Thyroid Cascading Reflex begins with a TSH. If the TSH result is abnormal, T4 Free will be performed. If the TSH is elevated and the T4 Free is normal or low, TPO Antibodies will be performed. If the TSH is low and the T4 Free is either normal or low, T3 Free will be performed. This reflex will only be performed on patients aged 20 years or older.
90138	Hu, Yo, and Ri Antibodies with Reflex to Titers and WB	If Hu antibody screen, IFA is positive, Hu antibody Western Blot will be performed. If Hu Antibody Western Blot is positive, Hu Antibody titer will be performed. If Yo antibody screen, IFA is positive, Yo antibody Western Blot will be performed. If Yo Antibody Western Blot is positive, Yo Antibody titer will be performed. If Ri antibody screen, IFA is positive, Ri antibody Western Blot will be performed. If Ri Antibody Western Blot is positive, Ri Antibody titer will be performed.
37708	HIV Antibody, HIV-1, Western Blot with Reflex to HIV-2, EIA with Reflex to Immunoblot	If the HIV Antibody, HIV-1, Western Blot is Indeterminate or Negative, HIV-2 Antibody EIA will be performed. If the HIV-2 Antibody, EIA is "Repeatedly Reactive, HIV-2 Antibody Immunoblot will be performed.
13369	ThinPrep PAP with Reflex to HR HPV DNA	For interpretations of Atypical Squamous Cells (ASC) a test for High Risk HPV will be performed.
37092	DNA (ds) Antibody, Crithidia IFA with Reflex to Titer	If the DNS (ds) Antibody Screen is positive DNA (ds) Titer will be performed.
144002	Bartonella Species Antibody (IgG, IgM) with Reflex to Titer	If B. henselae (IgG) screen is positive, the B. henselae (IgG) titer will be performed. If B. quintana (IgG) screen is positive, the B. quintana (IgG) titer will be performed. If B. henselae (IgM) screen is positive, the B. henselae (IgM) titer will be performed. If B. quintana (IgM) screen is positive, the B. quintana (IgM) titer will be performed.
16529	Leptospira Antibody Screen with Reflex to Titer	If Leptospira Antibody Screen is positive, Leptospira Antibody Titer, IHA will be performed.
37053	Neuronal Nuclear (Hu) Antibody with Reflex to titer and WB	If Hu antibody screen, IFA is positive, Hu antibody Western Blot will be performed. If Hu Antibody Western Blot is positive, Hu Antibody titer will be performed.
91068	Brucella Antibodies (IgG, IgM) EIA with Reflex to Agglutination	If Brucella IgM is ≥ 1.10 , Brucella Antibody Agglutination will be performed
91307	Echinococcus Antibody (IgG) EAI with Reflex to WB	If Echinococcus Antibody (IgG) is positive, Echinococcus Antibody (IgG) Western Blot will be performed