TriHealth Laboratories REFLEX TESTING

Reflex testing is an important tool in providing timely, cost-effective and quality care to patients. A reflex test is a laboratory test performed (and charged for) subsequent to an initially ordered and resulted test. Reflex testing occurs when an initial test result meets pre-determined criteria (e.g., positive or outside normal parameters), and the primary test result is inconclusive without the reflex or follow-up test. It is performed automatically without the intervention of the ordering physician. Reflex testing may prevent the need for additional specimen procurement from the patient.

The reflex test adds valuable diagnostic information and is consistent with best medical practices. Certain confirmatory reflex tests are required by law; but generally each laboratory establishes its own criteria for medically appropriate reflex tests. A laboratory must disclose to the ordering physician its protocol for performing reflex testing and provide the physician with the opportunity to decline the follow-up tests.

The following chart contains the criteria used for reflex testing at TriHealth Laboratories. Shaded blocks indicate those tests that are performed by a referral laboratory. This information is provided in the Lab User Manual, available on the Bridge for in-house practitioners, and also on the TriHealth Laboratories Test Menu website for outreach clients. Upon major revision, this reflex testing protocol is presented to the Laboratory Utilization and Practice Committee (LUPC) for medical staff approval.

If a physician does not want a reflex test performed according to the protocol established by TriHealth Laboratories, he/she must indicate such at the time the initial test is ordered.

CPT	INITIAL TEST	REFLEX CRITERIA	REFLEX TEST	CPT
85307	Activated Protein C (APC)	Abnormal ratio or	Factor V Leiden	81241
	Resistance	Anticoagulant		
		interference		
86038	ANA Screen Reflex to Titer	Positive	Titer	86039
86063	Anti-Streptolysin O (ASO)	Positive	Titer	86060
82175	Arsenic, Urine	35-2000 mcg/L	Fractionated Arsenic, Urine	82175
86615 x3	Bordetella pertussis Antibodies	IgA ≥1.2 U/mL	Each Bordetella pertussis	86615
	(IgA, IgG, IgM)	IgG≥1.0 U/mL	Antibody by Immunoblot	
		IgM ≥1.2 U/mL		
85025	CBC	Hemoglobin	Reticulocyte Count	85045
	Anemia Screening	<13.0 g/dL Male or	B12	82607
	Select pre-op	<12.0 g/dL Female	Ferritin	82728
	28-week OB Visit	<10.5 g/dL	Iron Battery	83540+83550
		13.0 8 4.2	Differential if WBC <3.6 or >10.5	Replace 85027 with 85025
<mark>82784</mark>	Celiac Disease Reflexive	IgA <50 mg/dL	TTG IgG (Tissue	<mark>86364</mark>
(IgA)	Cascade		Transglutaminase)	
86364			DGP IgG (Deamidated Gliadin	<mark>86258</mark>
(TTG			Peptide)	
IgA)				

CPT	INITIAL TEST	REFLEX CRITERIA	REFLEX TEST	CPT
87493	Clostridium difficile PCR	Positive (Infection Prevention specimens do not automatically reflex.	Clostridium difficile Toxin A/B	87324
		Call Infection Prevention Alert.)		
	Cord Blood Profile:	Rh Negative	Du Antigen (Weak D)	86885
86900	ABO Group	DAT Positive	Type and Screen on maternal	86900 86901
86901 86880	Rh Type Direct Antiglobulin Test		specimen	86850
86880	Direct Antiglobulin Test (DAT)		and/or Antibody Elution on cord blood	86860
86403	Cryptococcal Antigen	Positive	Titer	86406
89051	CSF Cell Count	RBC >10/mcL on CSF Tube #4	Repeat Cell Count on CSF tube #1 (no differential)	89050
Varies	Culture	Reflex testing	Antimicrobial Susceptibility	87186 or 8718
		depends on specimen	and/or Gram Stain	87205
		and source	and/or Anaerobic Culture	87075
			and/or PCR Panel	87150
80307	Drug Screen with Reflex to Confirmation	Positive	Confirmation by GC/MS of each component as needed	80321 80359 80324 80361 80345 80362 80346 80365 80347 80367 80348 80368 80349 80369 80353 80372 80354 80373 80356 83992 80358
80307	Drug Screen, Serum or Plasma	Positive	Confirmation by GC/MS of each component as needed	80324 80358 80345 80359 80346 80361 80348 80365 80349 83992 80353
80305	Drug Screen, Universal (Labor & Delivery ONLY)	Positive	Confirmation by GC/MS of each component as needed	80154 83805 80184 83840 82145 83887 82520 83925 82542 83992
82947	Glucose (McCullough Hyde ONLY for Healthy Miami Employees)	>99 mg/dL	Hemoglobin A1c	83036
82175 82300 83655 (82525+ 83825 84630)	Heavy Metals Panel 4 (or 6), Urine	Positive Arsenic	Fractionated Arsenic, Urine	82175
85060	Hematology Consult (HEMC)	HEMC ordered with no CBC or CBCD within past 48 hours	CBCD	85025
83020 85025	Hemoglobin Electrophoresis	Unidentifiable abnormal band present	Referral lab tests as determined by pathologist	Varies
		S band present	Sickle Cell Screen	85660
87340	Hepatitis B Surface Antigen	Reactive	HBsAg Confirmation	87341
86022	Heparin-Induced Platelet Antibody w/reflex to Serotonin Release Assay	Positive	Serotonin Release Assay	86022
87624	HPV High Risk by TMA with Reflex to Genotypes	Positive	HPV Genotypes 16 and 18/45	87625

CDT	INITIAL TEST	DEEL EV CDITEDIA	DEEL BY TEST	CDT
CPT 87389	INITIAL TEST	REFLEX CRITERIA	REFLEX TEST	CPT 86701 +
8/389	Human Immunodeficiency Virus (HIV) 1 & 2 Antibodies	Reactive	HIV 1 & 2 Antibody	86701 +
96700		Positive	Differentiation, Supplemental	
86790	Human T-Lymphotropic Virus	Positive	HTLV I/II Confirmation by Western Blot	86689
90061	(HTLV) Types I/II Antibodies	Triglyceride >400 mg/dL	Direct LDL	83721
80061 83605	Lipid Panel (Outpatient Only) Lactate-Initial	>2.0 mmol/L		83605
83005	Lactate-Initial	>2.0 mmol/L	1st Lactate repeat, if still >2.0 mmol/l a 2nd Lactate repeat is	83605
			performed	
	Lunus Antigografiant (LA)	Abnormal	Workup may include one or more:	
85730	Lupus Anticoagulant (LA) • PTT-LA	Abnormai		
85612	• dRVV Screen		Phase LA Hexagonal delta	85598
03012	• dix v Screen		dRVV Confirm	85613
			DVVT 50:50 Mix	85613
86618	Lyme Antibodies, Total with	Positive	Borrelia burgdorferi Ab, IgG by	86617
80018	Reflex to IgG and IgM	Positive	Immunoblot	80017
	Immunoblot, Early Disease		Borrelia burgdorferi Ab, IgM by	86617
	Illiminolot, Larry Discase		Immunoblot	80017
86618	Lyme Antibodies, Total with	Positive	Borrelia burgdorferi Ab, IgG by	86617
00010	Reflex to IgG Immunoblot,	TOSITIVE	Immunoblot	00017
	Late Disease		minunoolot	
82664	Protein Electrophoresis, Serum	Gamma Peak	IgG, IgA, IgM	82784 x3
02001	Trotein Electrophoresis, Serum	≤0.5 g/dL	150, 151, 1511	02701 X3
		Paraprotein present	IgG, IgA, IgM, and Immunofix if	82784 x5
		r uruprotein present	new patient not previously identified	
84166	Protein Electrophoresis, Urine	Paraprotein present	Immunofix if new patient not	86335
01100	Trotein Electrophoresis, orme	r uruprotein present	previously identified	00333
87430	Rapid Strep Group A Antigen	Negative	Strep Group A DNA	87651
			or	
			Upper Respiratory Culture	87070
	Rh Immunoglobulin Workup:			
85461	Fetal Cell Screen	Positive	Kleihauer-Betke Stain	85460
84703	Serum HCG, Qualitative	Positive**	Beta HCG, Quantitative	84702
		**The positive result		
		will be changed to		
		PSHCG (see beta		
		HCG quantitative		
0.000	Tr. 1.1.1:	result)	T1 1 1 1 1 1 C MC/MC	0.4.422
86800	Thyroglobulin	Above the normal	Thyroglobulin by LC-MS/MS	84432
		reference limit	Thermood abouting her CLA	94422
02516	Tiggue Transclutemines	Negative	Thyroglobulin by CIA	84432
83516	Tissue Transglutaminase	≥4 U/mL	Endomysial Antibody, IgA titer by	86256
86780	Antibody, IgA	Positive on Ferring s-1	IFA RPR	86593
80/80	Treponema Antibody	Positive or Equivocal		80393
			If RPR non-reactive, then TP-PA	06700
01112	TCH with Doffey to Error T4	TSH > or < normal	(T. pallidum Particle Agglutination) Free T4	86780
84443	TSH with Reflex to Free T4		F166 14	84439
	Type and Screen:	range for patient's age Antibody Screen	Workup may include any/all:	
86900	ABO Group	Positive	Antibody Identification Panel	96970
86900	Rh Type	1 0311116		86870
86850	Antibody Screen		Direct Antiglobulin Test for	86880 x3
00000	Annous Scient		AHG, IgG, C3d	86905
			Antigen Type patient RBCs (one antigen type per antibody ID'd)	00903
			Antibody Elution	86860
		1	Androug Enduon	00000

			Antibody Titer (pregnant patient, antibody is associated to HDFN)	86886
			Hoxworth Reference Case	86999
			If inpatient:Antigen Type donor RBCs(one antigen type per antibody	86902
			ID'd per unit)Crossmatch pRBCs (per unit)	86922
CPT	INITIAL TEST	REFLEX CRITERIA	REFLEX TEST	CPT
81003	Urinalysis with Reflex to Microscopic	Appearance not clear and/or positive Protein, Blood, Leukocyte Esterase or Nitrite	Urinalysis with Microscopic	Replace 81003 with 81001
81001	Urinalysis with Reflex to Culture	Positive Leukocyte Esterase or Nitrite, <u>or</u> WBC ≥6-10/hpf	Urine Culture	87086
85240 85246 85245	vWD Complete Profile	One or more: VW Activity/VW Antigen ratio <0.7 Factor 8 Activity <50% von Willebrand Antigen, vWF: AG <50% von Willebrand Activity, vWF:GP1bM <50%	von Willebrand Multimer Analysis	85247

(Blue: PLP / Gray: ARUP/ Green: Cincinnati Children's)

REFERENCE

HHS Office of Inspector General. Publication of OIG Compliance Program for Clinical Laboratories. *Federal Register* Notice, Vol. 63, No. 163, August 24, 1998, 45076-45087.