

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) Resistance | Abnormal ratio or Anticoagulant interference | Factor V Leiden | 81241 |
| 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 | <i>Bordetella pertussis</i> Antibodies (IgA, IgG, IgM) | IgA ≥ 1.2 U/mL IgG ≥ 1.0 U/mL IgM ≥ 1.2 U/mL | Each <i>Bordetella pertussis</i> Antibody by Immunoblot | 86615 |
| 85025 | CBC <i>Anemia Screening</i> <i>Select pre-op</i> | Hemoglobin <13.0 g/dL Male or <12.0 g/dL Female | Reticulocyte Count B12 Ferritin | 85045 82607 82728 |
| | 28-week OB Visit | <10.5 g/dL | Iron Battery Differential if WBC <3.6 or >10.5 | 83540+83550 Replace 85027 with 85025 |
| 82784 (IgA) | Celiac Disease Reflexive Cascade | IgA <50 mg/dL | TTG IgG (Tissue Transglutaminase) | 86364 |
| 86364 (TTG IgA) | | | DGP IgG (Deamidated Gliadin Peptide) | 86258 |

| CPT | INITIAL TEST | REFLEX CRITERIA | REFLEX TEST | CPT |
|--|---|---|--|---|
| 87493 | <i>Clostridium difficile</i> PCR | Positive (Infection Prevention specimens do not automatically reflex. Call Infection Prevention Alert.) | <i>Clostridium difficile</i> Toxin A/B | 87324 |
| 86900 86901 86880 | Cord Blood Profile: • ABO Group • Rh Type • Direct Antiglobulin Test (DAT) | Rh Negative DAT Positive | Du Antigen (Weak D) Type and Screen on maternal specimen and/or Antibody Elution on cord blood | 86885 86900 86901 86850 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 depends on specimen and source | Antimicrobial Susceptibility and/or Gram Stain and/or Anaerobic Culture and/or PCR Panel | 87186 or 87184 87205 87075 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 S band present | Referral lab tests as determined by pathologist Sickle Cell Screen | Varies 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 |

| CPT | INITIAL TEST | REFLEX CRITERIA | REFLEX TEST | CPT |
|-------------------------|---|---|--|---|
| 87389 | Human Immunodeficiency Virus (HIV) 1 & 2 Antibodies | Reactive | HIV 1 & 2 Antibody Differentiation, Supplemental | 86701 + 86702 |
| 86790 | Human T-Lymphotropic Virus (HTLV) Types I/II Antibodies | Positive | HTLV I/II Confirmation by Western Blot | 86689 |
| 80061 | Lipid Panel (Outpatient Only) | Triglyceride >400 mg/dL | Direct LDL | 83721 |
| 83605 | Lactate-Initial | >2.0 mmol/L | 1 st Lactate repeat, if still >2.0 mmol/l a 2 nd Lactate repeat is performed | 83605 |
| 85730 85612 | Lupus Anticoagulant (LA) • PTT-LA • dRVV Screen | Abnormal | Workup may include one or more: Phase LA Hexagonal delta dRVV Confirm DVVT 50:50 Mix | 85598 85613 85613 |
| 86618 | Lyme Antibodies, Total with Reflex to IgG and IgM Immunoblot, Early Disease | Positive | <i>Borrelia burgdorferi</i> Ab, IgG by Immunoblot <i>Borrelia burgdorferi</i> Ab, IgM by Immunoblot | 86617 86617 |
| 86618 | Lyme Antibodies, Total with Reflex to IgG Immunoblot, Late Disease | Positive | <i>Borrelia burgdorferi</i> Ab, IgG by Immunoblot | 86617 |
| 82664 | Protein Electrophoresis, Serum | Gamma Peak <0.5 g/dL Paraprotein present | IgG, IgA, IgM IgG, IgA, IgM, and Immunofix if new patient not previously identified | 82784 x3 82784 x5 86334 |
| 84166 | Protein Electrophoresis, Urine | Paraprotein present | Immunofix if new patient not previously identified | 86335 |
| 87430 | Rapid Strep Group A Antigen | Negative | Strep Group A DNA or Upper Respiratory Culture | 87651 87070 |
| 85461 | Rh Immunoglobulin Workup: • Fetal Cell Screen | Positive | Kleihauer-Betke Stain | 85460 |
| 84703 | Serum HCG, Qualitative | Positive** **The positive result will be changed to PSHCG (see beta HCG quantitative result) | Beta HCG, Quantitative | 84702 |
| 86800 | Thyroglobulin | Above the normal reference limit Negative | Thyroglobulin by LC-MS/MS Thyroglobulin by CIA | 84432 84432 |
| 83516 | Tissue Transglutaminase Antibody, IgA | ≥4 U/mL | Endomysial Antibody, IgA titer by IFA | 86256 |
| 86780 | Treponema Antibody | Positive or Equivocal | RPR If RPR non-reactive, then TP-PA (T. pallidum Particle Agglutination) | 86593 86780 |
| 84443 | TSH with Reflex to Free T4 | TSH > or < normal range for patient's age | Free T4 | 84439 |
| 86900 86901 86850 | Type and Screen: • ABO Group • Rh Type • Antibody Screen | Antibody Screen Positive | Workup may include any/all: Antibody Identification Panel Direct Antiglobulin Test for AHG, IgG, C3d Antigen Type patient RBCs Antibody Elution | 86870 86880 x3 86905 86860 |

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|-------------------------|---------------------------------------|--|--|--------------------------|
| | | | 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 ID'd per unit) | 86902 |
| | | | • 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.