Status **Active** PolicyStat ID **21763948**

Effective	03/2014
Approved	10/2026
Last Revised	10/2026
Expiration	10/2028

Owner	Pat Halvorson: Lis-QA Coordinator
Policy Area	Laboratory Specimen Collection-Test Catalog

Trinity Hospital Laboratory Test Catalog

Trinity Hospital laboratories provides clinical laboratory and pathology services with a test menu designed to meet the needs of the population we serve. These services are provided under the medical direction of the Medical Director, Dr. Ellen Siqauke and associate pathologists, Dr. Wayne Jansen, and Dr. Badie Alakech. Trinity Hospital Laboratory (701-418-8400) is staffed 24 hours per day-7 days a week. Pathology (701-418-8440) and Cytology (701-418-8420) are staffed Monday-Friday 7:00 am to 5:00 pm. Trinity Laboratory Outreach (701-857-5780 or 800-839-6203) is located on the first floor of Trinity Health Medical Arts and is staffed Monday-Friday 7:30 am to 6:30 pm.

Reflex Testing

Trinity Hospitals Laboratory identifies tests that reflex when medically appropriate. These have been approved by Trinity medical staff and do not require another signed provider order. Reflex testing is indicated in test list.

Transfusion Medicine reflex testing:

- Antibody titer for any clinically significant antibody in a pregnant female.
- AHG crossmatch x 2 when an antibody is present for in-house or PAT patients
- Antibody ID for any positive antibody screen
- Patient & Donor antigen typing when an antibody is identified
- Direct antiglobulin test when auto control is positive
- Antibody Elution when direct antiglobin test is positive
- 4C ABSC and PeG ABSC if cold antibody is suspected
- Pre-warn ABSC if cold antibody is suspected and PeG ABSC is positive.

- Reference lab antibody ID with warm auto antibody
- Reference lab antibody ID when daratumumab is identified
- ABO/Rh, antibody screen, and crossmatch if not current with a blood product order for RBC.
- ABO/Rh if not current with a blood product order for FFP
- ABO/Rh if ≤1 in history or standby if ≥2 and no current standby with a blood product order for Platelets or Cryo
- Blood product order for uncrossmatched RBC transfused in Air ambulance
- Post transfusion platelet count to be drawn 10 minutes to 1 hour post platelet transfusion
- Fetal cell stain for positive fetal screen
- RhIG workup which includes T/S (if not current) and fetal screen for an Rh negative mother when baby is Rh positive OR for an Rh negative pregnant women with a bleed, miscarriage, ectopic pregnancy, fall, amniocentesis, or D&C.
- For therapeutic phlebotomy, hemoglobin with Dx of Polycythemia Vera OR ferritin and hemoglobin with Dx of hemochromatosis, high ferritin, or testosterone therapy.

Microbiology reflex testing:

- Identification and susceptibility testing indicated for any organism recovered from culture that is the probable cause of an infectious process
- D test on erythromycin-resistant, clindamycin susceptible *Streptococcus pneumonia* and β-hemolytic Streptococcus to detect inducible clindamycin resistance
- All negative rapid GBS by PCR will be incubated 18-24 hours in LIM broth and retested.
- All positive cryptococcal antigen results will be confirmed by culture at Mayo
- Suceptibility testing will be performed at Mayo on all cryptococcus ID
- All positive mycobacteria smears from sputum, BAL and bronch wash, will reflex *Mycobacterium tuberculosis* /Rifamin Nested Real Time PCR test (MTB/Rif-NDDoH)

Special Handling

Trinity Hospitals Laboratory serves as a reference laboratory for clients in the Northwest and Central Region of North Dakota. Our test information, including the days and time assays are performed as well as analytic turnaround time, is included under each test listing. Unique circumstances may arise with a patient, resulting in a physician request that the specimen or results receive special handling. The special handling options are described below. These options can be initiated by contacting Trinity Hospitals Laboratory Outreach at 800-839-6203 / 701-857-5780 or Trinity Hospitals Laboratory at 701-418-8400 to provide instructions and the necessary patient demographic information.

- ***Hold***: If you would like to send us a specimen and hold that specimen for testing pending initial test results performed at your facility, please call Trinity Laboratory Outreach. We will initiate a hold and stabilize the specimen until we hear from you.
- ***STAT***: In rare circumstances, STAT testing from the reference laboratory may be required for patients who need immediate treatment. These cases typically necessitate a special analytic run to turn results around as quickly as possible. To arrange STAT testing, please contact Trinity Lab Outreach to request STAT testing. Once the STAT testing has been verified at the

Main Laboratory, arrangements will be made to assign resources to run the testing on a STAT basis when the specimen is received.

Specimen Rejection

All tests are unique in their testing requirements. To avoid specimen rejection or delayed turnaround times, please check the "Specimen Requirements" field within each test. You will be notified of rejected or problem specimens upon receipt.
Please review the following conditions prior to submitting a specimen to Trinity Hospitals Laboratory:

- Full 24 hours for timed urine collection
- Lack of hemolysis / lipemia
- Specimen type (plasma, serum, whole blood, etc.)
- Required Specimen volumes
- Patient information or Clinical information requested
- Proper identification of patient / specimen
- Specimen container (separation gel, appropriate preservative, etc.)
- Transport medium
- Temperature (ambient, frozen, refrigerated)

Specimen Volume

The "Specimen Requirements" section of each test includes the preferred volume. The preferred volume has been established to optimize testing and allows the laboratory to quickly process specimen containers, present containers to instruments, perform the test, and repeat the test if necessary. Many of our testing processes are fully automated; and as a result, this volume allows hands-free testing and our quickest turnaround time (TAT). Since patient values are frequently abnormal, repeat testing, dilutions, or other specimen manipulations are often required to obtain a reliable, reportable result. Our preferred specimen requirements allow expeditious testing and reporting.

When a venipuncture is technically difficult or the patient is at risk of complications from blood loss (e.g., pediatric or intensive care patients); smaller volumes may be necessary.

When patient conditions do not mandate reduced collection volumes, we ask that our clients submit the preferred volume to facilitate rapid, cost-effective, reliable test results. Submitting less than the preferred volume may negatively impact quality of care by slowing TAT, increasing the hands-on personnel time (and therefore cost) required for test completion.

Trinity Hospitals Laboratory makes every possible effort to successfully test your patient's specimen. If you have concerns about submitting a specimen for testing, please call Trinity Hospitals Laboratory Outreach at 800-839-6203 or 701-857-5780 and our staff will discuss the test and specimen you have available.

Unsatisfactory Analytic Results

If Trinity Hospitals Laboratory is unable to obtain a satisfactory analytic result, there is no charge.

Cancellation of Tests

Cancellations received prior to test setup will be honored at no charge. Requests received following test setup cannot be honored, a report will be issued automatically and charged accordingly.

Disclaimers:

Accuracy and Information Warranty Disclaimer

While Trinity Hospital laboratories strives for accuracy, the catalog content is provided "as is" without express or implied warranties regarding completeness, timeliness, or reliability.

Billing-CPT Coding Disclaimer

It is your responsibility to determine correct CPT codes to use for billing. While this catalog lists CPT codes in an effort to provide some guidance, CPT codes listed only reflect our interpretation of CPT coding requirements and are not necessarily correct. Particularly, in the case of a test involving several component tests, this catalog attempts to provide a comprehensive list of CPT codes for all of the possible components of the test. Only a subset of component tests may be performed on your specimen. You should verify accuracy of codes listed. Where multiple codes are listed, you should select codes for tests actually performed on your specimen. Trinity Hospitals Laboratory assumes no responsibility for billing errors due to reliance on CPT codes listed in the test catalog. For further reference, please consult the CPT Coding Manual published by the American Medical Association. If you have any questions regarding use of a code, please contact Trinity Hospitals Laboratory Outreach.

Subject-to-Change Notice

Trinity Hospital Laboratories test availability, methodology, reference ranges, specimen requirements, collection procedures, and turnaround times can change without prior notice.

Clinical Decision-Making / Not Medical Advice Disclaimer

The Trinity Hospital Laboratory Test Catalog is a reference tool for healthcare professionals and does not replace independent clinical judgment or serve as formal medical diagnosis. Users must interpret results in the context of individual patient care.

Send-Out / Reference Laboratory Disclaimer

At times Trinity Hospital Laboratory may require tests sent to external or partner reference laboratories and may be subject to the third-party lab's specific policies, collection requirements, and turnaround times, which may differ from in-house tests.

Verification Recommended Warning

Users need to verify critical or time-sensitive information (such as urgent values, special handling, or stability limits) directly with the laboratory prior to collection or clinical action.

Limitation of Liability

By utilizing the services offered in the Test Catalog, the user, requester or ordering facility agrees Trinity

Hospital, its staff, agents and affiliates are forever released, discharged and indemnified from legal or financial liability for errors, omissions, or adverse clinical outcomes resulting from reliance on the catalog.

Specimen Collection and Regulatory Compliance Disclaimer

Proper collection, labeling, transport, and ordering compliance (such as CLIA regulations and signed order requirements) remain the responsibility of the ordering clinician/facility and will release and indemnify Trinity Hospital, its staff, agents and affiliates for any liability relating to same.

TEST ALPHABETICAL LISTING:

Printed Turnaround Times are the expected time after receipt of the specimen in the laboratory. These can vary depending on workload, instrument downtime, and time of day. Pathology which includes histology and cytology is staffed on weekdays only. Should a delay in stat testing of greater than 90 minutes occurs, the requester will be notified when appropriate.

Turnaround time codes:

- 1. 30-120 minutes/7 days a week/24 hours a day
- 2. 2-4 hours//7 days a week/24 hours a day
- 3. Batched and run specific days
- 4. Batched and run each day at specified times
- 5. 24 hours
- 6. 48 hours
- 7. 72 hours
- 8. 5 days
- 9. By appointment

Acetaminophen TAT Code =1

Method: Homogeneous Enzyme Immunoassay

Specimen Requirements:	**Red – 1 ml serum**
Acetaminophen, Overdose:	**Draw 4 – 12 Hours Post Ingestion. Please note the number of hours Post-Ingestion.**
Specimen Stability:	**7 Days Refrigerated**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**80143**

Acetone, Blood (βeta-Hydroxybutyrate - Ketones) TAT Code =1

Method: Enzymatic

Specimen Requirements:	**Red, SST, PST – 1 ml serum / plasma.**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send Refrigerated with Coolant**
CPT Code Information:	**82010**

Albumin TAT Code =1

Method: BCG

Specimen Requirements:	**Red, SST, PST – 1 ml serum / heparin plasma**
Specimen Stability:	**30 Days at 2 – 8 °C**
Transport Temperature:	**Send Refrigerated with Coolant**
CPT Code Information:	**82040**

Alcohol, Ethyl (Medical) TAT Code =1

Method: Enzymatic

Specimen Requirements:	**Red – 1 ml serum**
Specimen Stability:	**3 Days at 2 - 8 °C. Handle and store specimen in a stoppered container to avoid evaporation.**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**82077**

Alkaline Phosphatase TAT Code =1

Method: p-Nitro-phenylphosphate

Specimen Requirements:	**Red, SST, PST – 1 ml serum / heparin plasma**
Specimen Stability:	**4 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**84075**

ALT / SGPT (Alanine Aminotransferase) TAT Code =1

Method: UV/NADH

Specimen Requirements:	**Red, SST, PST – 1 ml serum / heparin plasma**
Specimen Stability:	**3 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**84460**

Ammonia TAT Code =1

Method: Enzymaatic

Specimen Requirements:	**PST – 1 ml plasma** **Tube must be full. Draw sample and place on ice immediately. Centrifuge for at least 10 minutes.** **Transfer PST plasma samples into a secondary tube. *** Outreach Clients freeze specimen immediately after it is transfered into the secondary tube.***** *****Outreach clients please send secondary tube frozen to Trinity Outreach Department.*****
Transport Temperature: **Specimen Stability:**	Sample must be tested immediately Frozen samples must stay frozen. 24 hours Frozen
CPT Code Information:	**82140**

Amylase TAT Code =1

Method: CNPG3 **Specimen Requirements:**

Specimen Requirements:	**Blood - Red, SST, PST – 1 ml serum / heparin plasma**
	Body Fluid - 1ml aliquot
	Timed/Random Urine – 5 ml aliquot, Refrigerate during collection period. **Record Timed volume.** **Preservative: Keep refrigerated**
Specimen Stability:	**30 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**82150**

ANA Screen with Reflex TAT Code =2

Method: BioRad BioPlex MultiPlex ImmunoAssay

Postive ANA screen will reflex to report 11 Autoantibodies: Double-stranded DNA (dsDNA), Chromatin, Ribosomal P, SSA, SSB, Sm, SmRNP, RNP, Scl-70, Jo-1 and Centromere B. See individual antibody for cpt code. Each antibody may also be ordered individually.

Specimen Requirements	**Red, SST, PST - 1.0 mL serum/heparin plasma**
Specimen Stability:	**7 Days at 2°-8° C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**86038**

Antibiotic Sensitivity TAT Code =6

Method: Various

Specimen Requirements:	**Send Organism, send using the appropriate required Biological Substance or Infectious Substance packaging protocol. Transport Media & Class 6 DOT Mailer if required.**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**87186**

Antibody Screen TAT Code =1

Antibody Identification TAT Code =2

Antibody Titer TAT Code =5

Labeling: Label tubes with Full Name, Birth Date, Date & Time of collection and Collector's Initials.
Method: Ortho Gel System, Tube

Specimen Requirements:

Antibody Screen:	**2-5 mL or 3 to 4-3mL EDTA tubes**
Antibody Identification:	**2-5 mL or 3 to 4-3mL EDTA tubes**
Antibody Titer:	**2-5 mL or 3 to 4-3mL EDTA tubes**
Transport	**Send with Coolant**

Temperature:	
CPT Code Information:	**86850-Screen, 86870-ID, 86886-Titer**

Antineutrophil Cytoplasmic Antibody (ANCA) TAT Code =2

Method: BioRad BioPlex MultiPlex ImmunoAssay

Test includes Glomerular Basement Membrane (GBM), Myeloperoxidase (MPO) and Proteinase 3 (PR3)

Specimen Requirements:	**Red, SST - 1.0 mL serum**
Specimen Stability:	**7 Days at 2°-8° C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**86317,83876,83520**

Antistreptolysin O TAT Code =2

Method: Nephelometry-Flocculation

Specimen Requirements:	**Red top tube – 1 ml serum**
Specimen Stability:	**72 Hours at 2 – 8 °C (Freeze if > 72 Hours)**
Transport Temperature:	**Send with Coolant or Frozen**
CPT Code Information:	**86060**

AST / SGOT (Aspartate Aminotransferase) TAT Code =1

Method: UV/NADH

Specimen Requirements:	**Red, SST, PST – 1 ml serum / heparin plasma**
Specimen Stability:	**30 Days at 2 – 8 °C**
Transport Temperature:	**Send Refrigerated with Coolant**
CPT Code Information:	**84450**

AutoAntibody to JO-1 Antigen TAT Code =2

Method: BioRad BioPlex MultiPlex ImmunoAssay

Specimen	**Red, SST, PST - 1.0 mL serum/plasma**

Requirements:	
Specimen Requirements:	**7 Days at 2°-8° C**
Specimen Requirements:	**Send with Coolant**
CPT Code Information:	**86235**

AutoAntibody to RNP Antigen TAT Code =2

Method: BioRad BioPlex MultiPlex ImmunoAssay

Specimen Requirements:	**Red, SST, PST - 1.0 mL serum/plasma**
Specimen Requirements:	**7 Days at 2°-8° C**
Specimen Requirements:	**Send with Coolant**
CPT Code Information:	**86235**

AutoAntibody to SCL-70 Antigen TAT Code =2

Method: BioRad BioPlex MultiPlex ImmunoAssay

Specimen Requirements:	**Red, SST, PST - 1.0 mL serum/plasma**
Specimen Requirements:	**7 Days at 2°-8° C**
Specimen Requirements:	**Send with Coolant**
CPT Code Information:	**86235**

AutoAntibody to Sm Antigen TAT Code =2

Method: BioRad BioPlex MultiPlex ImmunoAssay

Specimen Requirements:	**Red, SST, PST - 1.0 mL serum/plasma**
Specimen Requirements:	**7 Days at 2°-8° C**
Specimen Requirements:	**Send with Coolant**

CPT Code Information:	**86235**

AutoAntibody to SSA Antigen TAT Code =2

Method: BioRad BioPlex MultiPlex ImmunoAssay

Specimen Requirements:	**Red, SST, PST - 1.0 mL serum/plasma**
Specimen Requirements:	**7 Days at 2°-8° C**
Specimen Requirements:	**Send with Coolant**
CPT Code Information:	**86235**

AutoAntibody to SSB Antigen TAT Code =2

Method: BioRad BioPlex MultiPlex ImmunoAssay

Specimen Requirements:	**Red, SST, PST - 1.0 mL serum/plasma**
Specimen Requirements:	**7 Days at 2°-8° C**
Specimen Requirements:	**Send with Coolant**
CPT Code Information:	**86235**

Basic Metabolic Panel TAT Code =1

Method: Beckman Coulter Various

Specimen Requirements:	**Red, SST, PST – 1 ml serum / heparin plasma**
Specimen Stability:	**72 Hours at 2 – 8 °C**
Transport Temperature:	**Send Refrigerated with Coolant**
CPT Code Information:	**80048**

Beta-2 Glycoprotein 1, IgG TAT Code =2

Method: BioRad BioPlex MultiPlex ImmunoAssay

Specimen Requirements:	**Red, SST, PST – 1 ml serum / heparin plasma**

Specimen Stability:	**72 Hours at 2 – 8 °C**
Transport Temperature:	**Send Refrigerated with Coolant**
CPT Code Information:	86146

Beta-2 Glycoprotein 1, IgM TAT Code =2

Method: BioRad BioPlex MultiPlex ImmunoAssay

Specimen Requirements:	**Red, SST, PST – 1 ml serum / heparin plasma**
Specimen Stability:	**72 Hours at 2 – 8 °C**
Transport Temperature:	**Send Refrigerated with Coolant**
CPT Code Information:	**86146**

Bilirubin, Direct TAT Code =1

Bilirubin, Total TAT Code =1

Method: Diazonium Salt, OPD

Specimen Requirements:	**Red, SST, PST – 1 ml serum / heparin plasma*Protect from Light Neonatal minimum volume – 300 ul (0.3 ml)**
Specimen Stability:	**Days at 2 – 8 °C**
Transport Temperature:	**Send Refrigerated with Coolant**
CPT Code Information:	**DBil 82248 – TBil 82247**

Blood Type, ABO/Rh TAT Code =1

Method: Ortho Gel System, Tube

Labeling:	**Label tubes with Full Name, Birth Date, Date & Time of collection and Collector initials.**
Specimen Requirements:	**See below.**
Blood Type ABO/Rh:	**2-5 mL or 3 to 4-3mL EDTA tubes**
Specimen Stability:	**48 Hours at 2 – 8 °C**

Transport Temperature:	**Send with Coolant**
CPT Code Information:	**ABO – 86900, Rh - 86901**

BNP (B-Type Natriuretic Peptide) TAT Code =1

Method:	**Chemiluminescent immunoenzymatic**
Specimen Requirements:	**EDTA plasma – 1 ml plasma**
Specimen Stability:	**24 Hours at 2 – 8 °C. >24 Hours at ≤-20 °C**
Transport Temperature:	**Send Frozen**
CPT Code Information:	**83880**

Bone Marrow TAT Code =7

Specimen Requirements:	**Bone Marrow, Plug and Smears Send plug, marrow (with formalin preservative) and blood smears in separate biohazard bags.**
****Note: Formalin affects blood smear staining – send slides in a separate bag.**	
Specimen Stability:	**48 Hours at 2 – 8 °C**
Transport Temperature:	**Send at Room Temperature**

A CBC with manual differential and reticulocyte count will be ordered if testing has not been performed within 24 hours of the biopsy collection.

BUN (Blood Urea Nitrogen) TAT Code =1

Method: Urease, GLDH

Specimen Requirements:	**Red, SST, PST – 1 ml serum / heparin plasma**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**84520**

CCP Antibody TAT Code =2

Method: BioRad BioPlex MultiPlex ImmunoAssay

Specimen Requirements:	**Red, SST– 1 ml serum**
Specimen Stability:	**72 Hours at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**86200**

C-Reactive Protein (CRP) TAT Code =1

Method: Immunoturbidimetric

Specimen Requirements:	**Red, SST, PST – 1 ml serum/ heparin plasma**
Specimen Stability:	**60 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**86140**

C-Reactive Protein - High Sensitivity (hs-CRP) TAT Code =2

Method: Immunoassay rate

Specimen Requirements:	**Red or SST – 1 ml serum**
Specimen Stability:	**72 Hours at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**86141**

C3 Complement TAT Code =2

C4 Complement TAT Code =2

Method: Rate Nephelometry

Specimen Requirements:	**Red or SST – 1 ml serum**
Specimen Stability:	**24 Hours at 2 – 8 °C. >24 Hours at ≤-20 °C**
Transport Temperature:	**Send Frozen**
CPT Code	**86160**

Information:	

CA 15-3 Tumor Marker TAT Code =2

Method: Chemiluminescent Immunoassay

Specimen Requirements:	**Red, SST, PST – 1 ml serum/plasma**
Specimen Stability:	**48 Hours at 2 – 8 °C. >48 Hours at ≤-20 °C**
Transport Temperature:	**Send Frozen**
CPT Code Information:	**86300**

CA 125 Tumor Marker TAT Code =2

Method: Chemiluminescent Immunoassay

Specimen Requirements:	**Red, SST, PST – 1 ml serum/plasma**
Specimen Stability:	**48 Hours at 2 – 8 °C. >48 Hours at ≤-20 °C**
Transport Temperature:	**Send Frozen**
CPT Code Information:	**86304**

Calcium, Ionized (for Hospital use only, Outreach Clients Please Refer to Mayo Test Catalog) TAT Code =1

Method: Potentiometric

Specimen Requirements:	**Lithium Heparin Whole Blood (green top tube) Draw on wet ice, keep anaerobic and refrigerated. Do not centrifuge.**
Specimen Stability:	**<30 Minutes from collection at 2 – 8 °C**
Transport Temperature:	**Send Refrigerated with Coolant**
CPT Code Information:	**82330**

Calcium, Total TAT Code =1

Method: Arsenazo

Specimen Requirements:	**Red, SST, PST – 1 ml serum / heparin plasma. Random Urine – 5 ml**

Specimen Stability:	**21 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**82310**

Calcium, 24 Hour Urine TAT Code =2

Method: Arsenazo

Specimen Requirements:	**24 Hr Urine - 5 ml, Record 24 Hr Volume. Keep specimen refrigerated during collection & transport.**
Specimen Stability:	**5 Days at Room Temperature 5 Weeks at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**82340**

Cannabinoid (See THC)

Carbamazepine (Tegretol) TAT Code =1

Method: Homogenous Enzyme ImmunoAssay

Specimen Requirements:	**Red or Green top tube (Non-gel) – 1 ml serum/plasmaTrough specimen – draw prior to next dose**
Specimen Stability:	**30 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**80156**

Carbon Dioxide (CO2) TAT Code =1

Method: Phosphoendpyruvate carboxylase

Specimen Requirements:	**Red, SST, PST – 1 ml serum / heparin plasma**
Specimen Stability:	**72 Hours at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**82374**

Carbon Monoxide, Venous (CO - CarboxyHemoglobin) TAT Code =1

(for Hospital use only, Outreach Clients Please Refer to Mayo Test Catalog)

Method: CO-Oximetry

Specimen Requirements:	**Lithium Heparin Whole Blood (green top tube). Draw on wet ice, keep anaerobic and refrigerated.**
Specimen Stability:	**<30 Minutes from collection at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**82375**

Cardiolipin, IgG TAT Code =2

Method: BioRad BioPlex MultiPlex ImmunoAssay

Specimen Requirements:	**Red, SST, PST – 1 ml serum / heparin plasma**
Specimen Stability:	**7 days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**86147**

Cardiolipin, IgM TAT Code =2

Method: BioRad BioPlex MultiPlex ImmunoAssay

Specimen Requirements:	**Red, SST, PST – 1 ml serum / heparin plasma**
Specimen Stability:	**7 days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**86147**

CBC or CBC with Differential TAT Code =1

Method: Beckman Coulter DxH 900

Specimen Requirements:	**EDTA Whole Blood – One EDTA tube & a well-made Peripheral Smear (with distinct feather-edge). Note: If the specimen is > 12 hrs old and a well-made peripheral smear is not sent, a CBC will only be performed.**	
Specimen Stability:	**Parameters exceeding the specimen stability times below will not be reported.**	
Parameter	Room Temperature Stability (Hrs)	Refrigerated Temperature Stability (Hrs)
WBC	**24**	**48**
RBC	**24**	**48**
HGB	**24**	**48**
MCV	**24**	**48**
CH	**24**	**48**
CHCM	**24**	**48**
RDW	**24**	**48**
HDW	**24**	**48**
PLT	**24**	**48**
MPV	**24**	**48**
	Package specimen carefully to prevent breakage and freezing of the specimen from the coolant pack or extreme weather conditions during the Winter/ Summer months. Note: High humidity in the Summer may introduce artifact to the red cells, it is best if smears are sent at Ambient temperature.	
Transport Temperature:	**Send with Coolant**	
CPT Code Information:	**85025**	

CEA (Carcinoembryonic Antigen) TAT Code =2

Method: Chemiluminescent Immunoassay

Specimen Requirements:	**Red or SST – 1 ml serum**
Specimen Stability:	**48 Hours at 2 – 8 °C. >48 Hours at ≤-20 °C**
Transport Temperature:	**Send Frozen**
CPT Code Information:	**82378**

Cell Count, Body Fluid, Joint Fluid or Misc Fluid with Differential TAT Code =1

Method: Manual Count or Beckman Coulter DxU 840

Specimen Requirements:	**Fluid in EDTA if other than CSF**
	CSF: Leave fluid in the CSF collection container. Send ASAP: WBC's may deteriorate and RBC's may lyse.
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**89051**

Cerebrospinal fluid submitted for routine cell count will reflex to include a cell differential if the WBC count is >5 cells/uL.

Centromere B Antibody TAT Code =2

Method: BioRad BioPlex MultiPlex ImmunoAssay

Specimen Requirements:	**Red, SST, PST - 1.0 mL serum/Plasma**
Specimen Stability:	**7 Days at 2°-8° C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**86235**

Chlamydia Amplified Probe TAT Code =2

Gonorrhea, Amplified Probe TAT Code =2

Method: Gene Xpert PCR

Specimen Requirements:	**Xpert CT/NG Female Collection Swab Kit or First Void Urine specimen (Male or Female). Unpreserved urine or Xpert Urine Collection kit. Call for collection kits.**
Specimen Stability:	**Swab kit: 60 days at 2 – 15 °C, Urine 8 days at 2-8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**87494**

Chloride TAT Code =1

Method: ISE- Oriented PVC Membrane

Specimen Requirements:	**Blood: Red, SST, PST – 1 ml serum / heparin plasma Urine: Random or Timed Urine – 5 ml Refrigerate during collection period & transport. Record timed collection volume.**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant – All Specimens**
CPT Code Information:	**Blood - 82435, Urine - 82436**

Cholesterol TAT Code =1

Method: Enzymatic

Specimen Requirements:	**Red, SST, PST – 1 ml serum / heparin plasma**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**82465**

Chromatin Antibody TAT Code =2

Method: BioRad BioPlex MultiPlex ImmunoAssay

Specimen Requirements:	**Red, SST, PST – 1 ml serum / heparin plasma**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**86235**

CK, Total (Creatine Kinase) TAT Code =1

Method: IFCC- CK(NAC)

Specimen Requirements:	**Red, SST, PST – 1 ml serum / heparin plasma**
Specimen Stability:	**12 Hours at 2 – 8 °C**

Transport Temperature:	**Send with Coolant**
CPT Code Information:	**82550**

CK–MB TAT Code =1

Method: Chemiluminescent Immunoassay

Specimen Requirements:	**Red, SST, PST – 1 ml serum / heparin plasma**
Specimen Stability:	**48 Hours at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**82553**

C. difficile Toxin TAT Code =2

Method: PCR

Specimen Requirements:	**Unformed or Liquid Stool in a clean container (do not fill the container with specimen).** **Hard/Formed stools will be rejected.** **Specimens received in transport media will be rejected**
Specimen Stability:	**5 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**87493**

Comprehensive Metabolic Panel (CMP) TAT Code =1

Method: Beckman Coulter Varies

Specimen Requirements:	**Red, SST, PST – 1 ml serum/plasma**
Specimen Stability:	**72 Hours at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**80053**

Coombs, Direct (C3, IgG, Poly) TAT Code =1

Coombs, Indirect TAT Code =1

Method: Ortho Gel System, Tube Labeling: Label tubes with Full Name, Birth Date, Date & Time of Collection and Collector initials.

Specimen Requirements:

Coombs, Direct:	**1-5 mL EDTA tube**
Coombs, Indirect:	**2-5 mL EDTA tubes**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**Direct – 86880, Indirect - 86850**

Cortisol TAT Code =2

Method: Chemiluminescent Immunoassay

Specimen Requirements:	**Red, SST, PST – 1 ml serum/plasma**
Specimen Stability:	**48 Hours at 2 – 8 °C. >48 Hours at ≤ -20 °C**
Transport Temperature:	**Send with Coolant, send Frozen if >48 Hrs.**
CPT Code Information:	**82533**

Creatinine TAT Code =1

Method: Modified Jaffe, Kinetic

Specimen Requirements:	**Blood: Red, SST, PST – 1 ml serum / heparin plasma**
Creatinine, Urine:	**Urine – 5ml from Random or Timed Urine collection. Keep refrigerated during collection, record Volume.**
Creatinine Clearance:	**24 Hr Urine & serum – 5ml Urine & 1 ml serum. Keep refrigerated during collection & transport, record 24 Hr Volume, height & weight of patient on TLO Form.**
Specimen Stability:	**Serum / Plasma specimens: 7 Days at 2 – 8 °C Urine: 6 Days at 2 – 8 °C**
Transport Temperature:	**Send Refrigerated with Coolant**
CPT Code Information:	**Blood-82565, Urine-82570, Creat Cl-82575**

Crossmatch (Compatibility Testing) TAT Code =1

Labeling: Label tubes with the Full Name, Birth Date, Date & Time of collection and Collector's initials.
Method: Ortho Gel System, Tube

Specimen Requirements:	**2-5 mL EDTA tubes**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**86850, 86900, 86901, 86920, 86922**

Cryptosporidium Antigen (See O&P Antigens) TAT Code =3

Method: Solid Phase Immunoassay

Specimen Requirements:	**Feces – Unpreserved or Cary Blair transport preserved specimen.**
Transport Temperature:	**Send with Coolant or specimen in Formalin**
CPT Code Information:	**87328**

Crystals, Joint Fluid TAT Code =5

Method: Polarized Light Microscopy

Specimen Requirements:	**Joint fluid in Sodium Heparin or red top tube – 0.5 - 1 ml fluid (do not use powdered EDTA tubes as these may produce artifactual crystals in the fluid).**
Expected Results:	**No Crystals Seen**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**89060**

Cultures

Culture, Anaerobic TAT Code =7,8

Specimen Requirements:	**Body Fluid, Syringe Aspirate, ESwab. Call TLO for Collection device.**
Specimen Stability:	**72 Hours at Room Temperature**
Transport Temperature:	**Send at Room Temperature**

Analytical Time:	**72 hrs**
CPT Code Information:	**87075**

Culture, Blood TAT Code =5,6,8

Method: BacTec

Specimen Requirements:	<table><tr><th>Volume of Blood</th><th>Medium</th></tr><tr><td>16-20ml</td><td>8-10ml into Plus Aerobic F 8-10ml into Lytic Anaerobic F</td></tr><tr><td>13-16ml</td><td>8ml into Plus Aerobic F 5-8ml into Lytic Anaerobic F</td></tr><tr><td>**8-10ml</td><td>Entire volume into Plus Aerobic F</td></tr></table>**NOTE:** 8ml is considered the MINIMUM blood volume draw for an adult blood culture. This allows for inoculation of only 1 bottle and may affect recovery of microorganisms. Single blood cultures should never be drawn from adult patients. **Call TLO for blood culture bottles. Avoid putting patient labels on the bottle barcodes.Note: Document on the TLO Request Form:** 1. **Total volume of blood dispensed into each bottle** 2. **The arm/location of the phlebotomy** 3. **Note if the bottles were incubated prior to shipping.** 4. **Date and time of collection**
Transport Temperature:	• **Inoculated bottles should be transported to the laboratory for testing as quickly as possible.** • Any delay beyond 24hours after collection can slow or impede microbial growth. • **Send at Room Temperature**
Analytical time:	5 days
CPT Code Information:	**87040**

Culture, Body Fluid aerobic/anaerobic with gram stain 5,6,7,8

Specimen Requirements:	**Body Fluid in Sterile Container**
Transport Temperature:	**Send with Coolant**
Analytical Time:	Aerobic 5days

	Anaerobic 7days
CPT Code Information:	**87070 & 87205**

Culture, Bronchial Wash with gram stain TAT Code =5,6,7

Specimen Requirements:	**Bronchial Washing in Sterile Container**
Transport Temperature:	**Send with Coolant**
Analytical Time:	48-72 hours
CPT Code Information:	**87070 & 87205**

Culture, Catheter Tip (Intravascular) TAT Code =5,6

Specimen Requirements:	**Catheter/Intravascular tip in Sterile Container**
Transport Temperature:	**Send with Coolant**
Analytical Time:	48-72 hours
CPT Code Information:	**87070**

Culture, CSF aerobic/anaerobic with gram stain 5,6,7,8

Specimen Requirements:	**CSF – Spinal Fluid in Sterile Container**
Specimen Stability:	**Deliver within 1 Hour, do not cool.**
Transport Temperature:	**Send at Room Temperature**
Analytical Time:	5 days
CPT Code Information:	**87070 & 87205**

Culture, Ear with gram stain TAT Code =5,6,7

Specimen Requirements:	**ESwab – Cleanse outer ear with antiseptic**
Transport Temperature:	**Send at Room Temperature**
Analytical Time:	48-72 hours

CPT Code Information:	**87070 & 87205**

Culture, Eye with gram stain TAT Code =5,6,7

Specimen Requirements:	**ESwab – Cleanse skin around eye**
Transport Temperature:	**Send at Room Temperature**
Analytical Time:	48-72 hours
CPT Code Information:	**87070 & 87205**

Culture, Gall Bladder TAT Code =5,6,7,8

Specimen Requirements:	**Bile Fluid in Sterile Container**
Transport Temperature:	**Send with Coolant**
Analytical Time:	Aerobic 72 hours Anaerobic 7 days
CPT Code Information:	**87070 & 87075**

Culture, GC TAT Code =7

Specimen Requirements:	**ESwab – Send ASAP**
Transport Temperature:	**Send at Room Temperature**
CPT Code Information:	**87081**

Culture, GYN TAT Code =5,6,7

Specimen Requirements:	**ESwab**
Transport Temperature:	**Send at Room Temperature**
Analytical Time:	72 hours
CPT Code Information:	**87070**

Culture, Nasal with gram stain TAT Code =5,6

Specimen Requirements:	**ESwab**
Transport Temperature:	**Send at Room Temperature**
Analytical Time:	48-72 hours
CPT Code Information:	**87070 & 87205**

Culture, Nasopharynx with gram stain 5,6

Specimen Requirements:	**ESwab, Obtain from TLO**
Transport Temperature:	**Send at Room Temperature**
CPT Code Information:	**87070**

Culture, Sputum with gram stain TAT Code =5,6

Specimen Requirements:	**1-3 ml Expectorated sputum in a sterile container**
Transport Temperature:	**Send with Coolant**
Analytical Time:	48-72 hours
CPT Code Information:	**87070 & 87205**

Culture, Strep B OB Screen TAT Code =6,7

(Includes Broth enrichment & DNA Amplification)

Specimen Requirements:	**Copan Culture Swab only Vaginal/Anorectal Collection**
Transport Temperature:	**6 days at 2 – 8 °C**
Analytical Time:	48-72 hours
CPT Code Information:	**87081, 87150**

Culture, Throat TAT Code =5,6

Specimen Requirements:	**Preferred: ESwab; outreach clients: Culture Swab, Single or Dual swab acceptable**
Transport Temperature:	**Send at Room Temperature**
Analytical Time:	36-48 hours
CPT Code Information:	**87070**

Culture, Tissue aerobic/anaerobic with gram stain TAT Code =5,6,7,8

Specimen Requirements:	**Tissue in Sterile Container, add small amount of sterile saline to prevent drying.**
Transport Temperature:	**Send at Room Temperature**
Analytical Time:	4 days
CPT Code Information	**87070 & 87205**

Culture, Urine TAT Code =5,6

Specimen Requirements:	**Sterile Clean Catch or Cath Urine: Keep Cool. If the Urine Transport Kit is used – Send at Room Temperature.**
Transport Temperature:	**Send Sterile Urine Containers with Coolant.** **Send Urine Transport Kit specimens at Room Temp**
Analytical Time:	48 hours
CPT Code Information:	**87086**

Culture, Wound with gram stain TAT Code =5,6,7

Specimen Requirements:	**ESwab**
Transport Temperature:	**Send at Room Temperature**
Analytical Time:	3-4 days
CPT Code Information:	**87070 & 87205**

D-Dimer TAT Code =1

Method: ACL TOP® 550 (turbidimetric immunoassay)

Specimen Requirements:	**Blue Top tube – 1 ml Na Citrate platelet poor plasma. (Double spun). Testing Performed: Daily**
Specimen Stability:	**4 Hours after draw at room temperature**
Transport Temperature:	**Send frozen if specimen cannot be tested within 4 hours of collection. Freeze at ≤-20°C. Stable up to 2 weeks if frozen within four hours of the blood collection. Must arrive frozen.**
CPT Code Information:	**85379**

Digoxin TAT Code =1

Method: Homogeneous Enzyme ImmunoAssay

Specimen Requirements:	**Red top tube (Non-gel) – 1 ml serum Draw at least 6 - 8 Hour post-dose Record Date & Time of last dose**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**87081**

Dilantin (Phenytoin) TAT Code =1

Method: Homogeneous Enzyme ImmunoAssay

Specimen Requirements:	**Red top tube – 1 ml serum Trough draw, prior to next dose**
Specimen Stability:	**30 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant.**
CPT Code Information:	**80185**

DNA Double-Stranded Antibody TAT Code =2

Method: BioRad BioPlex MultiPlex ImmunoAssay

Specimen Requirements:	**Red, SST, PST - 1.0 mL serum/Plasma**
Specimen Stability:	**7 Days at 2°-8° C**

Transport Temperature:	**Send with Coolant**
CPT Code Information:	**86235**

Drugs of Abuse Panel TAT Code =1

Test includes - Amphetamine/Methamphetamine, Barbituates, Benzodiazepine, Opiates, Oxycodone, Fentanyl, PCP, PPX, Tricyclics, Cocaine, THC and Methadone.

Method: EIA

Specimen Requirements:	**Random Urine – 5 ml**
Specimen Stability:	**48 Hours at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**80307**

Electrolytes TAT Code =1

Method: Potentiometric

Specimen Requirements:	**Red, SST, PST – 1 ml serum / heparin plasma**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**80051**

Epstein-Barr Virus Antibody Profile TAT Code =2

IgG: Viral Capsid Antigen, Nuclear Antigen-1

IgM: Viral Capsid Antigen, Heterophile Antigen

Method: BioRad BioPlex MultiPlex ImmunoAssay

Specimen Requirements:	**Red, SST, PST – 1 ml serum / heparin plasma**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code	**86308, 86664, 86665x2**

Information:	

Epstein-Barr Virus Early Antigen(diffuse)

IgG: Early Antigen

Method: BioRad BioPlex MultiPlex ImmunoAssay

Specimen Requirements:	**Red, SST, PST – 1 ml serum / heparin plasma**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**86663**

Eosinophil, Urine TAT Code =1

Method: Hansel Stain

Specimen Requirements:	**Random Urine – 10 ml**
Specimen Stability:	**24 hours at 2-8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**81099**

Estradiol, Sensitive TAT Code =2

Method: Chemiluminescent Immunoassay

Specimen Requirements:	**Red, SST, PST – 1 ml serum/plasma**
Specimen Stability:	**48 Hours at 2 – 8 °C. >48 Hours at ≤-20 °C**
Transport Temperature:	**Send Frozen**
CPT Code Information:	**82670**

Estrogen/Progesterone - Tissue (Pathology Dept) TAT Code =5

Specimen Requirements:	**Breast Tissue – Slides from Paraffin Block**
Transport	**Send at Room Temperature**

Temperature:	

Factor Anti-Xa Assay (LMWH or UFH) TAT Code =1

Method: ACL TOP® 550 Chromogenic
For monitoring Low Molecular Weight Heparin and Unfractionated Heparin

Specimen Requirements:	**Minimum 1 ml double-spun Na Citrate plasma Indicate if Fractionated or Unfractionated heparin along with dose interval and time.**
Specimen Stability:	**4 Hours at Room Temperature, 1 month frozen at ≤-20°C. Recommended to spin, remove plasma, and freeze within 2 hours.**
Transport Temperature:	**Send Frozen (must arrive frozen)**
CPT Code Information:	**85520**

Fecal Lactoferrin TAT Code =2

Method: Immunochromatographic

Specimen Requirements:	**Feces, collected in a clean, airtight container. Specimens collected in transport media will be rejected.**
Specimen Stability:	**2 Weeks at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**83630**

Ferritin TAT Code =1

Method: Chemiluminescent Immunoassay

Specimen Requirements:	**Red, SST, PST – 1 ml serum/plasma**
Specimen Stability:	**48 Hours at 2 – 8 °C. >48 Hours at ≤-20 °C**
Transport Temperature:	**Send Frozen**
CPT Code Information:	**82728**

Fetal Cell Stain TAT Code =1

Labeling: Label tube with Full Name, Birth Date, Date & Time of collection and Collector initials.
Method: Simmler Acid Elution

Specimen Requirements:	**EDTA tube – Maternal draw, send full EDTA tube.Indicate patient ABO / Rh type if known.**
Specimen Stability:	**24 Hours at 2 – 8 °C**
Transport Temperature:	**Send with Coolant.**
CPT Code Information:	**85460**

Fetal Screen TAT Code =1

Label tubes with Full Name, Birth Date, Date & Time of collection and Collector initials.
Method: Ortho Diagnostics

Specimen Requirements:	**EDTA tube – Maternal draw, send full EDTA tube.Indicate patient ABO / Rh type if known.**
Specimen Stability:	**48 Hours at 2 – 8 °C**
Transport Temperature:	**Send with Coolant.**
CPT Code Information:	**85461**

Fibrinogen TAT Code =1

Method: ACL TOP® 550 Photo-Optical

Specimen Requirements:	**Blue top tube – 1 ml double-spun Na citrate platelet-poor plasma, freeze immediately.**
Specimen Stability:	**2 Weeks at ≤-20°C if frozen within 4 hours**
Transport Temperature:	**Send Frozen.**
CPT Code Information:	**85384**

Fine Needle Aspirate TAT Code =5

Specimen Requirements:	**Needle Aspirate – Contact Trinity Hospitals Cytology Dept (701) 418-8420.**
Testing performed:	**Monday - Friday**
Transport:	**Contact Trinity Cytology Dept.**

Afirma Genomic Sequencing Classifier (GSA)/XA testing will be reflexed on all indeterminate Thyroid FNA sample results as appropriate:

- **Atypia of Undetermined significance**
- **Follicular lesion of uncertain significance**
- **(Suspicious for) follicular neoplasm**
- **(Suspicious for) Hurthle Cell Neoplasm**
- **(Suspicious for) malignancy**

Folate, RBC TAT Code =2

Method: Chemiluminescent Immunoassay

Specimen Requirements:	**Prepared Hemolysate - EDTA Whole Blood.Provide Hematocrit result or send EDTA tube for Hct testing. Contact TLO for RBC Folate Solution to prepare hemolysate, prepare hemolysate per instructions.**
Specimen Stability:	**EDTA Untreated – 4 Hours, Treated - 30 Days at ≤-20°C**
Transport Temperature:	**Send Frozen.**
CPT Code Information:	**82747**

Folate, Serum / Plasma TAT Code =1

Method: Chemiluminescent Immunoassay

Specimen Requirements:	**Fasting Sample: Red, SST, PST – 1 ml Non-hemolyzed serum / heparin plasma.**
Specimen Stability:	**48 Hours at 2 – 8 °C. >48 Hours at ≤-20 °C**
Transport Temperature:	**Send Frozen.**
CPT Code Information:	**82746**

FSH (Follicle Stimulating Hormone) TAT Code =2

Method: Chemiluminescent Immunoassay

Specimen Requirements:	**Red, SST, PST – 1 ml serum/plasma**
Specimen Stability:	**48 Hours at 2 – 8 °C. >48 Hours at ≤-20 °C**
Transport Temperature:	**Send Frozen.**
CPT Code Information:	**83001**

Gastrointestinal (GI) Panel, PCR, Biofire

Specimen Requirements:	Liquid/watery* Stool specimens collected in (Para-Pak C&S or Protocol) Cary Blair transport media.
Specimen Stability:	4 days at room temperature(15-30°C) or under refrigeration(2-8°C)
Transport Temperature:	Room temperature(15-30°C) or under refrigeration(2-8°C)
CPT	87507

Gentamicin, Peak TAT Code =1

Method: Homogeneous Enzyme ImmunoAssay

Specimen Requirements:	**Red top tube – 1 ml serumDraw 1 Hr Post Dose infusion. * Record Date & Time of last dose.**
Specimen Stability:	**6 Weeks at 2 – 8 °C**
Transport Temperature:	**Send with Coolant.**
CPT Code Information:	**80170**

Gentamicin, Trough TAT Code =1

Method: Homogeneous Enzyme ImmunoAssay

Specimen Requirements:	**Red top tube - 1 ml serum.Draw ½ Hr prior to infusion.* Record Date & Time of last dose.**
Specimen Stability:	**6 Weeks at 2 – 8 °C**
Transport Temperature:	**Send with Coolant.**
CPT Code Information:	**80170**

Giardia Antigen (See O&P Antigens) TAT Code =3

Method: EIA

Specimen Requirements:	**Feces – Unpreserved or Cary Blair transport preserved specimen.**
Specimen Stability:	**Fresh - 48 hrs at 2 – 8 °C. >48 hours at ≤20 °C.** **Cary Blair - refrigerated or frozen and tested within 1 week**
Transport	**Send with Coolant (frozen acceptable).**

Temperature:	
CPT Code Information:	**87329**

GGT (Gamma-Glutamyltransferase) TAT Code =1

Method: Glutamyl-carboxy-p-nitroanilide

Specimen Requirements:	**Red, SST, PST – 1 ml serum / heparin plasma**
Specimen Stability:	**30 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**82977**

Glucose TAT Code =1

Method: Hexokinase-UV/NAD
Specimen Requirements:

Glucose, Blood:	**Red, SST, PST – 1 ml serum / heparin plasma** **Random - 5 ml** **Refrigerate during collection period & transport.**
Glucose, Body Fluid:	**Body Fluid – 1 ml fluid**
Specimen Stability:	**3 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**82947-Blood, 82945-Body Fluid**

Glucose, 1 Hour TAT Code =1

Method: Hexokinase-UV/NAD

Specimen Requirements:	**Red, SST, PST – 1 ml serum/plasma**
Specimen Stability:	**3 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**82950**

Glucose, CSF TAT Code =1

Method: Hexokinase-UV/NAD

Specimen Requirements:	**CSF – 0.5 ml**
Specimen Stability:	**5 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**82945**

Glucose Tolerance (Multiple Hour) TAT Code =1

Specimen Requirements:	**Red, SST, PST – 1 ml serum/plasma from timed collections, label tubes with the appropriate collection times.**
Specimen Stability:	**3 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**82951 x 3 & 82952 for each additional**

Glucose, 24 Hour Urine TAT Code =1

Method: Hexokinase-UV/NAD

Specimen Requirements:	**24 Hr Timed Urine – 5 ml Urine. Record 24 Hr Volume. Refrigerate during collection & transport.**
Specimen Stability:	**2 Hours at 2 – 8 °C or 48 Hours Frozen**
Transport Temperature:	**Send with Coolant.**
CPT Code Information:	**82945**

Glycated Hemoglobin (Hgb A1c) TAT Code =2

Method: Ion-exchange HPLC

Specimen Requirements:	**EDTA tube – 1 ml EDTA whole blood.**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**

CPT Code Information:	**83036**

Gram Stain TAT Code =1

Specimen Requirements:	**Slide/Smear/Specimen – 1-2 Slides or Swabs may be sent at Room Temperature.**
Transport Temperature:	**Send at Room Temperature or with Coolant if sent with other specimens.**
CPT Code Information:	**87205**

Haptoglobin TAT Code =2

Method: Rate Nephelometry

Specimen Requirements:	**Red or SST – 1 ml serum**
Specimen Stability:	**72 Hours at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**83010**

HCG, Quantitative TAT Code =1

Method: Chemiluminescent Immunoassay

Specimen Requirements:	**Red or SST – 1 ml serum**
Specimen Stability:	**48 Hours at 2 – 8 °C. >48 Hours at ≤-20 °C**
Transport Temperature:	**Send Frozen**
CPT Code Information:	**84702**

HCG, Qualitative (Serum or Urine) TAT Code =1

Method: Immunoassay

Specimen Requirements:	**Red or SST – 1 ml serum or 1 ml Urine**
Specimen Stability:	**48 Hours at 2 – 8 °C. >48 Hours at ≤-20 °C**
Transport Temperature:	**Send Frozen**

CPT Code Information:	**84703**

HDL TAT Code =1

Method: Acclerator Selective Detergent

Specimen Requirements:	**Red, SST, PST – 1 ml serum / heparin plasma**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**83718**

Hematocrit TAT Code =1

Method: Beckman Coulter DxH 900

Specimen Requirements:	**EDTA Whole Blood**
Specimen Stability:	**48 Hours at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**85014**

Hemoglobin TAT Code =1

Method: Beckman Coulter DxH 900

Specimen Requirements:	**EDTA Whole Blood**
Specimen Stability:	**48 Hours at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**85018**

Hepatitis Markers TAT Code =2

Method: OCD Immunometric

Specimen Requirements:	**For individual Markers – Red or SST – 0.5 ml serum / For Profiles and HCV – Red or SST – 2 ml serum**

Specimen Stability:	**48 Hours at 2 – 8 °C. 4 Weeks ≤-20 °C**
Transport Temperature	**Send with Coolant if < 48 Hrs, send Frozen if ≥ 48 Hrs.**

Individual Hepatitis Markers: TAT Code =2

Hepatitis A Antibody, IgM (CPT 86709)
Hepatitis A Total Antibodies (CPT 86708)
Hepatitis B Core Antibody, IgM (CPT 86705)
Hepatitis B Core Total Antibodies (CPT 86704)
Hepatitis B Surface Antigen (CPT 87340)
Hepatitis B Surface Antigen Prenatal (CPT 87340)
Hepatitis B Surface Antibody Qualitative / Quantitative (CPT 86706)
Hepatitis C Antibody (CPT 86803)

Reactive HCV Ab screening samples are sent to the Mayo Medical Laboratories for further testing.

Acute Hepatitis Profile TAT Code =2

Profile Includes:
Hepatitis Bs Antigen, Hepatitis A Antibody, IgM, Hepatitis B Core Antibody, IgM, Hepatitis C Antibody.

Reactive HCV Ab screening samples are sent to the Mayo Medical Laboratories for further testing.

CPT Code Information:	**80074**

Herpes Simplex Virus, IgG Type 1 and 2 TAT Code =2

Method: BioRad BioPlex MultiPlex ImmunoAssay

Specimen Requirements:	**Red, SST, PST – 1 ml serum / plasma**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**86695, 86696**

HIV-1 Antigen and HIV-1/HIV-2 Antibody Screen Reflex to Confirmation TAT Code =2

Method: BioRad BioPlex MultiPlex ImmunoAssay

Specimen Requirements:	**Red, SST, PST – 1 ml serum / heparin plasma**

Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	G0475

Reactive HIV screening samples are sent to the North Dakota Department of Health for further testing.

Immunoglobulins: TAT Code =2

Immunoglobulin A (IgA)
Immunglobulin G (IgG)
Immunoglobulin M (IgM)
Method: Rate Nephelometry

Red or SST – 1 ml serum	**Specimen Requirements:**
Specimen Stability:	**72 Hours at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**82784 for each**

Intrauterine Insemination (IUI) TAT Code =9

Specimen Requirements:	**Seminal Fluid** **Note: Provider or designated staff must schedule with the Trinity Hospitals Laboratory Hematology Dept, Call (701)-418-8460.**
Testing performed:	**Testing is performed 2 hours prior to the day and time the procedure scheduled.**

Iron TAT Code =1

Method: TPTZ

Note: Fasting Morning specimen

Specimen Requirements:	**Red, SST, PST – 1 ml serum / heparin plasma**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**83540**

Iron Binding Capacity, Serum (TIBC – Calculation) TAT Code =1

Includes % Saturation

Method: TPTZ

Note: Fasting Morning Specimen

Specimen Requirements:	**Red, SST, PST – 1.0 ml serum/plasma for each analyte Note: Morning specimen**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**83540-Iron & 83550-TIBC**

Ketones, Blood (See Acetone, Beta Hydroxybutyrate)

KOH Preparation TAT Code =5

Method: Microscopy

Specimen Requirements:	**Scrapings – Nail, Skin or Tissue**
Specimen Stability:	**72 Hours at Room Temp**
Transport Temperature:	**Send at Room Temperature**
CPT Code Information:	**87220**

Lactic Acid TAT Code =1

Method: Enzymatic

Specimen Requirements:	**Gray top tube (Oxalate/Fluoride) – 0.5 ml plasma Chill tube. Ice immediately after draw, centrifuge within 15 minutes. Heparin plasma is acceptable however precautions must be taken to retard glycolysis by keeping the sample on ice.**
Specimen Stability:	**Refrig Temp – 14 Days, Room Temp – 8 Hours**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**83605**

LD (Lactate Dehydrogenase) TAT Code =1

Method: Lactate-Pyruvate (NAD)

Specimen Requirements:	**Red, SST, PST – 1 ml serum/plasma (non-hemolyzed). Body Fluid – 1 ml Body Fluid**

Specimen Stability:	**3 Days at 2-8° C**
Transport Temperature:	**Send at Room Temperature (Coolant not recommended).**
CPT Code Information:	**83615**

LDL, Direct Measurement TAT Code =1

Method: Liquid Selective Detergent

Specimen Requirements:	**Red, SST, PST – Fasting sample, 1 ml serum / plasma**
Specimen Stability:	**5 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant, send Frozen if > 5 Days**
CPT Code Information:	**83721**

Legionella Urinary Antigen TAT Code =1

Method: Immunochromatographic

Specimen Requirements:	**Random Urine – 1 ml**
Specimen Stability:	**14 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**87449**

Lipase TAT Code =1

Method: Enzymatic

Specimen Requirements:	**Red, SST, PST – 1 ml serum / heparin plasma**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**83690**

Lipid Panel TAT Code =1

Method: Beckman Coulter Various

Specimen Requirements:	**Red, SST, PST – Fasting sample, 1 ml serum/plasma**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**80061**

If Triglyceride is greater than 400 mg/dl, a direct LDL will be run. CPT code 83721

Liver Panel (Hepatic Function Panel) TAT Code =1

Method: Beckman Coulter Various

Specimen Requirements:	**Red, SST, PST – 1 ml serum / heparin plasma**
Specimen Stability:	**72 Hours at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**80076**

Lithium TAT Code =1

Method: Colorimetric/ Endpoint

Specimen Requirements:	**Red or SST – 1 ml serumDraw 8 – 10 Hrs after Last Dose. Note the Date & Time of Last Dose**
Specimen Stability:	**7 Days at 2 – 8 °C 12 Months Frozen**
Transport Temperature:	**Send Frozen**
CPT Code Information:	**80178**

LH (Lutenizing Hormone) TAT Code =2

Method: Chemiluminescent Immunoassay

Specimen Requirements:	**Red, SST, PST – 1 ml serum/plasma**
Specimen Stability:	**48 Hours at 2 – 8 °C. >48 Hours at ≤-20 °C**
Transport Temperature:	**Send Frozen**
CPT Code Information:	**83002**

Magnesium TAT Code =1

Magnesium, 24 Hour Urine

Method: Xylidyl Blue
Specimen Requirements:

Specimen Requirements:	**Blood: Red, SST, PST – 1 ml serum/plasma**
	24 Hour Urine or Random – 5 ml, Record 24 Hr Volume. Collect in Metal-Free Container. Refrigerate during collection & transport.
Specimen Stability:	**7 Days at 2 – 8 °C (Blood & Urine)**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**83736 – Blood, 83735 - Urine**

Microalbumin, Random Urine TAT Code =2

Microalbumin, 24 Hour Urine TAT Code =2

Method: Turbidimetric

Specimen Requirements:	**Random Urine – 5 ml 24 Hour Urine – 5 ml aliquot & Record 24 Hr volume Refrigerate during collection & transport**
Specimen Stability:	**72 Hours at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**Random Urine - 82043 (MA) & 82570 (Creat) 24 Hour Urine - 82043**

MonoTest TAT Code =1

Method: Hemagglutination

Specimen Requirements:	**Red or EDTA – 1 ml serum/plasma separated**
Specimen Stability:	**48 Hours at 2 – 8 °C. 3 Months Frozen**
Transport Temperature:	**Send with Coolant if < 48 hrs, send Frozen if > 48 hrs.**
CPT Code Information:	**86308**

MMRV, IgG TAT Code =2

Test includes: Measles, Mumps, Rubella and Varicella-zoster virus

Method: BioRad BioPlex MultiPlex ImmunoAssay

Specimen Requirements:	**Red, SST, PST – 1 ml serum / heparin plasma**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	86735, 86765, 86762, 86787

MRSA, Rapid PCR TAT Code =2

Method: Cepheid PCR

Specimen Requirements:	**Copan Culture Swab – Nasal collection** **Call TLO for Copan Swabs**
Specimen Stability:	**5 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**87641**

Non-Gyn Cytology TAT Code =6

Specimen Requirements:	**Body Fluids (other than Urine)** **Urine – Fresh, Unfixed (Refrigerated) specimens are preferred.** **Prepared Slides** **All Fluids:** **If Shipping to TLO or if a delay of greater than 1 Hour is expected, add preservative fixative as follows:** **Add equal amounts of specimen and CytoSpin Fluid. Once the CytoSpin is added to the fluid, no other testing may be performed except Cytology procedures.** **Call the Trinity Hospitals Cytology Dept (701-418-8420) or TLO for CytoSpin preservative.** **Please note the description of the fluid prior to adding preservative on the Request Form.** **Slides:**

	If sending slides, the prepared slides should have the specimen spread evenly and sprayed with Cytology fixative and sent in a plastic protective slide case.
Testing Performed:	**Monday – Friday**
Transport Temperature:	**Send at Room Temperature**

Reflex for Cytology preparations and report when suspect malignant cells are seen on the body fluid differential

Occult Blood, Feces (Immuno-Stool Screen/Diagnostic) IFoB TAT Code =1

Method: Immunoassay

Specimen Requirements:	**Feces – Collect stool from 6 different sites of the sample using the spiral applicator from the sample collection tube.**
Specimen Stability:	**Feces - 4 hours at Room Temperature and 24 hours if Refrigerated. Hemosure iFOB Home Collection Kit - 6 Days RoomTemperature 30 Days 2-8 °C**
Transport Temperature.	**Return collection kit at Room Temperature within 6 days.**
CPT Code Information:	**82274 / G0328**

Occult Blood, Gastric TAT Code =1

Method: Immunoassay

Specimen Requirements:	**Gastric aspirate – Gastric aspirate in a sealed container.**
Specimen Stability:	**24 hours at 15 to 30 °C or 5 days at 2 to 8 °C**
Transport Temperature:	**Send with Coolant.**
CPT Code Information:	**82271**

Osmolality, Serum TAT Code =1

Osmolality, Urine TAT Code =1

Method: Freezing Point Depression

Specimen Requirements:	**Red top tube, or SST – 1 ml serum Random Urine – 5 ml**

Specimen Stability:	**24 Hours at 2-8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**83930–Serum, 83935-Urine**

Ova & Parasite Antigens (O/P) TAT Code =3

Includes Cryptosporidium & Giardia Antigen testing
Method: EIA

Specimen Requirements:	**Feces – Unpreserved or Cary-Blair preserved specimen.**
Specimen Stability:	**48 Hours at 2 – 8 °C. 1 Week at ≥ -20 °C**
Transport Temperature:	**Send with Coolant (frozen acceptable)**
Analytical Time:	**Done once per day. Results by 1:00 PM**
CPT Code Information:	**87328 & 87329**

P2Y12 PLATELET FUNCTION ASSAY (VerifyNow) TAT Code =1

Method: VerifyNow PRU Test

Specimen Requirements:	**1 VACUUETTE GREINER 2 mL Na CITRATE TUBE. A 3 mL GREINER NON-ADDITIVE TUBE MUST BE DRAWN AS A DISCARD TUBE PRIOR TO DRAWING THE 2 mL Na CITRATE.**
Specimen Stability:	**4 HOURS**
Transport Temperature:	**Room Temperature. Do not refrigerate, freeze, centrifuge, or excessively mix the specimen. The specimen should only be drawn within the main Hospital Campus. Never send through the pneumatic tube system.**
CPT Code Information:	**85576**

Pap Smear (Liquid-based) TAT Code =6

Method: Surepath Liquid-based

Specimen Requirements:	**Surepath Liquid Vial Sample Collection. Acceptable brushes include the Cervex-Brush/Broom Head (included with the Surepath vials) or Perfect Plastic Spatula/Cytobrush combination device heads.**
Testing Performed:	**Monday – Friday**
Specimen	**30 Days at Room Temperature**

Stability:	
Transport Temperature:	**Send at Room Temperature**
CPT Code Information:	**88142, G0123**

GYN Pap samples (per current ASCCP Guidelines):

A. **HPV Co-testing will be done on all patients aged 30-65**
B. **Reflex HPV testing will be done on all ASC-US interpretations (not already covered by the co-test)**

Professional charge for PAP smears requiring pathologist's review

Peripheral Smear, Pathologist Consultation TAT Code =6

Specimen Requirements:	**Well made (distinct feather edge), unstained blood smears and a copy of the CBC report with reference ranges. Poorly made smears may cause rejection or delays in reporting. Complete the Pathology Consultation Peripheral Smear Form and submit with smears and CBC Report. NOTE: The blood smears and the CBC results must be from the same sample collection.**
Testing Performed:	**Monday – Friday**
Transport Temperature:	**Send at Room Temperature**
CPT Code Information:	**85060**

pH, Body Fluid OR pH, Venous Blood TAT Code =1

Method: pH paper (Body Fluid), Potentiometric (Venous Blood)

Specimen Requirements:	**Venous Blood - Lithium Heparin Whole Blood (green top tube). Draw on wet ice, keep anaerobic and refrigerated. Body Fluid – 2 ml Fluid**
Specimen Stability	**Venous pH: 70 Hours at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**CPT 82800: pH, Venous Blood and CPT 83986: pH, Body Fluid**

Phenobarbital TAT Code =1

Method: Homogeneous Enzyme ImmunoAssay

Specimen	**Red top tube – 1 ml serum, Trough draw. Note last dose date and time.**

Requirements:	
Specimen Stability:	**30 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**80184**

Phenytoin (Dilantin) TAT Code =1

Method: Homogeneous Enzyme ImmunoAssay

Specimen Requirements:	**Red top tube – 1 ml serum, Trough draw prior to next dose. Note last dose date and time**
Specimen Stability:	**30 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**80185**

Phosphorus TAT Code =1

Method: Phosphomolybdate Complex

Specimen Requirements:	**Red, SST, PST – 1 ml serum/plasma**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**84100**

Phosphorus, Random Urine TAT Code =1

Phosphorus, 24 Hour Urine TAT Code =1

Method: Phosphomolybdate Complex

Specimen Requirements:	**Random Urine – 5 ml** **24 Hour Urine – 5 ml, Record 24 Hour Volume.** **Refrigerate during collection & transport.**
Specimen Stability:	**4 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**84105**

Platelet Count TAT Code =1

Method: Beckman Coulter DxH 900

Specimen Requirements:	**EDTA Whole Blood tube**
Specimen Stability:	**48 Hours at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**85049**

Potassium TAT Code =1

Method: ISE - Crown - Ether Membrane

Specimen Requirements:	**Red, SST, PST – 1 ml serum / heparin plasma**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**84132**

Potassium, Random Urine TAT Code =1

Potassium, 24 Hour Urine TAT Code =1

Method: ISE- Crown Ether Membrane

Specimen Requirements:	**Random Urine – 5 ml** **24 Hour Urine – 5ml, Record 24 Hour Volume.** **Refrigerate during collection & transport.**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**84133**

Pre-Albumin TAT Code =2

Method: Rate Nephelometry

Specimen Requirements:	**Red or SST – 0.5 ml serum**

Specimen Stability:	**72 Hours at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**80184**

Procalcitonin TAT Code =1

Method: Chemiluminescent Immunoassay

Specimen Requirements:	**Red, SST, PST – 0.5 ml serum / heparin plasma**
Specimen Stability:	**3 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	84145

Progesterone TAT Code =2

Method: Chemiluminescent Immunoassay

Specimen Requirements:	**Red or SST, PST – 0.5 ml serum**
Specimen Stability:	**48 Hours at 2 – 8 °C. ≥48 hours at -20 °C**
Transport Temperature:	**Send Frozen**
CPT Code Information:	**84144**

Prolactin TAT Code =1

Method: Chemiluminescent Immunoassay

Specimen Requirements:	**Red, SST, PST – 1 ml serum/plasma**
Specimen Stability:	**48 Hours at 2 – 8 °C. ≥48 hours at -20 °C**
Transport Temperature:	**Send Frozen**
CPT Code Information:	**84146**

Protein, Total TAT Code =1

Method: Biuret; Blanked

Specimen Requirements:	**Red, SST, PST – 0.5 ml serum / heparin plasma**

Specimen Stability:	**30 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**84155**

Protein, Body Fluid TAT Code =1

Protein, CSF TAT Code =1

Protein, Random Urine TAT Code =1

Protein, 24 Hour Urine TAT Code =1

Method: Pyrogallol Red

Specimen Requirements:	**Body Fluid – 0.5 Fluid** **CSF – 0.5 Spinal Fluid** **Random Urine – 5 ml Urine** **24 Hour Urine – 5 ml, Record 24 Hour Volume.** **Refrigerate during collection & transport.**
Specimen Stability:	**Urine: 2 Days at 2 – 8 °C** **Body Fluid: 30 Days at 2-8° C** **CSF: 3 Days at 2-8° C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**84157 (Body Fluid & CSF), 84156 (Urine)**

PSA (Prostate Specific Antigen) TAT Code =2

Method: Chemiluminescent Immunoassay

Specimen Requirements:	**Red or SST – 0.5 ml serum**
Specimen Stability:	**24 Hours at 2 – 8 °C. >24 hours at ≤ -20 °C**
Transport Temperature:	**Send Frozen if > 24 Hrs**
CPT Code Information:	**84153 or G0103**

PTH (Parathyroid Hormone) TAT Code =2

Method: Chemiluminescent Immunoassay

Specimen Requirements:	**1 ml serum or plasma.**
Specimen Stability:	**Serem: 8 Hours at 2 – 8 °C and up to 6 months frozen** **Plasma: 48 Hours at 2 - 8 °C and up to 6 months frozen**
Transport Temperature:	**Send Plasma (Preferred) or Serum Frozen**
CPT Code Information:	**83970**

Prothrombin Time (PT) TAT Code =1

Method: ACL TOP® 550 ReadiPlasTin Reagent

Specimen Requirements:	**Blue Top Na Citrate Tube. Do not centrifuge if delivered within 24 Hours of collection. If > 24 Hours, freeze 1mL of platelet poor plasma. Must arrive frozen.** **Specimen Stability: Uncentrifuged tube - 24 Hours at Room Temperature**
Transport Temperature:	**Send Uncentrifuged tube if < 24 Hours at Room Temperature. Send Na Citrate platelet poor plasma Frozen if > 24 Hours.**
CPT Code Information:	**85610**

Partial Thromboplastin Time (PTT) TAT Code =1

Method: ACL TOP® 550 HemosIL SynthASil Reagent

Specimen Requirements:	**Blue Citrate Tube – Uncentrifuged tube delivered within 4 Hours of collection. If > 4 Hours, double centrifuge the tube and freeze platelet poor plasma, send 1 ml.**
Specimen Stability:	**Uncentrifuged tube - 4 Hours at Room Temperature**
Transport Temperature:	**Send plasma Frozen, cannot arrive thawed.**
CPT Code Information:	**85730**

Respiratory Panel(Biofire)

Specimen Requirements:	**Nasopharyngeal swab in B**D Eswab MIni-Tip or BD Universal Viral Transport Media collection kit
Specimen Stability:	**Room temperature-4 hours, refrigerated 3 days**
Transport Temperature:	**Room temperature or refrigerated**
CPT code:	**87632**

Reticulocyte Count TAT Code =1

Method: Beckman Coulter DxH 600

Specimen Requirements:	**EDTA tube – 3 ml EDTA Whole Blood**
Specimen Stability:	**72 Hours at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**85045**

Rheumatoid Factor, Quantitative TAT Code =2

Method: Rate Nephelometry

Specimen Requirements:	**Red or SST – 1.0 ml**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**86431**

Ribosome P Antibody TAT Code =2

Method: BioRad BioPlex MultiPlex ImmunoAssay

Specimen Requirements:	**Red, SST, PST – 1.0 ml**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**86235**

RnP Antibody TAT Code =2

Method: BioRad BioPlex MultiPlex ImmunoAssay

Specimen Requirements:	**Red or SST – 1.0 ml**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**

CPT Code Information:	**86235**

Rotavirus TAT Code =1

Method: Immunoassay

Specimen Requirements:	**Feces – 1-2 grams Stool If a diaper, scrape fecal material into a screw-capped container.**
Specimen Stability:	**72 Hours 2-8 °C. >72 Hours ≤ -20 °C**
Transport Temperature:	**Send with Coolant or froze**
CPT Code Information:	**87425**

ROTEM Thromboelastometry (Whole Blood Coagulation) TAT Code =1

Method: ROTEM Delta

ASSAYS ORDERED INDIVIDUALLY AS NEEDED:	**INTEM, EXTEM, FIBTEM, HEPTEM, APTEM**
Specimen Requirements:	**1 Blue Top Na Citrate tube**
Transport Temperature:	**Room Temperature. Do not refrigerate, freeze, centrifuge, or excessively mix the specimen.**
Specimen Stability:	**4 HRS at Room Temperature**
CPT Code Information:	**85396**

RSV (Respiratory Syncytial Virus) TAT Code =2

Method: Immunochromatographic

Specimen Requirements:	**Nasopharynx Wash, or Aspirate**
Speciman Stability:	**24 Hours 2 - 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**87420**

Rubella Antibody – Immune Status TAT Code =2

Method: Chemiluminescent Immunoassay

Specimen Requirements:	**Red or SST – 1 ml serum**
Specimen Stability:	**48 Hours at 2 – 8 °C. ≥48 hours at ≤ -20 °C**

Transport Temperature:	**Send Frozen > 48 Hrs**
CPT Code Information:	**86762**

Salicylates TAT Code =1

Method: Homogeneous Enzyme ImmunoAssay

Specimen Requirements:	**Red – 1 ml serum**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**80179**

SARS-CoV-2/Flu/RSV PLUS

Method: Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV PLUS

Specimen Requirements:	**Nasopharyngeal specimens collected and placed into Xpert Viral Transport Medium or Copan UTM**
Specimen Stability:	**24 hours at15-30°C. or 7 days at 2-8° C**
Transport Temperature:	Send on Coolant
CPT Code Information:	**87637**

Sedimentation Rate (Sed Rate – ESR) TAT Code =1

Method: Quantitative Capillary Photometry

Specimen Requirements:	**EDTA tube – 3 ml Whole Blood**
Specimen Stability:	**24 Hours at 2 – 8 °C**
Transport Temperature:	**Send with Coolant, must arrive within 24 Hrs**
CPT Code Information:	**85651**

Semen Analysis, Complete TAT Code =9

Specimen Requirements:	**Seminal Fluid** **Test Requirements:** 1. **Complete the Semen Analysis Collection Form** 2. **Explain Collection Instructions to Patient** 3. **Contact Lab to schedule testing 701-418-8460**

	4. **Deliver specimen & Form to Trinity Hospitals Laboratory (preferably 7:30 a.m. – 9:30 a.m. Monday – Friday** 5. **The specimen must arrive at Trinity Laboratory within 30 minutes of collection.**
NOTE: Patient must schedule the testing with the Hospital Laboratory.	
Testing Performed:	**Monday - Friday**
Transport Temperature:	**Deliver at Room Temperature to near body temperature within 30 minutes of collection.**
CPT Code Information:	**89320**

Sodium TAT Code =1

Sodium, Random Urine TAT Code =1

Sodium, 24 Hour Urine TAT Code =1

Method: ISE - Crown-Ether Membrane

Specimen Requirements:	**Blood: Red, SST, PST – 0.5 ml serum / heparin plasma** **Random Urine – 5 ml** **24 Hour Urine – 5 ml. Refrigerate during collection and transport. Record 24 Hr Volume.**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**84295 - Blood, 84300 – Urine**

Strep Group B, PCR TAT Code =1

Method: Rapid PCR

Specimen Requirements:	**Cepheid Vaginal/Rectal Collection Device – Call TLO for Collection Kit.**
Specimen Stability:	**6 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**87653**

Streptococcus Pneumoniae Urinary Antigen TAT Code =1

Method: Immunochromatographic

Specimen Requirements:	**Urine – 1 ml Random Urine**
Specimen Stability:	**14 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**87449**

Syphilis, Total TAT Code =2

Method: BioRad BioPlex MultiPlex ImmunoAssay

Specimen Requirements:	**Red, SST, PST – 1.0 ml serum/plasma**
Specimen Stability:	**7 days at 2 – 8 °C**
Transport Temperature:	**Send with a Coolant**
CPT Code Information:	**86780**

Reactive Syphilis Total screening samples are sent to the North Dakota Department of Health for further testing.

T3, Free TAT Code =1

Method: Chemiluminescent Immunoassay

Specimen Requirements:	**Red, SST – 0.5 ml serum**
Specimen Stability:	**48 Hours at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**84481**

T4, Free TAT Code =1

Method: Chemiluminescent Immunoassay

Specimen Requirements:	**Red, SST, PST – 0.5 ml serum/plasma**

Specimen Stability:	**48 Hours at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**84439**

T4, Total TAT Code =1

Method: Chemiluminescent Immunoassay

Specimen Requirements:	**Red, SST, PST – 0.5 ml serum/plasma**
Specimen Stability:	**24 Hours at 2 – 8 °C**
Transport Temperature:	**Send Frozen if > 24 Hrs**
CPT Code Information:	**84436**

THC (Cannabinoid), Quantitative TAT Code =2

Method: EIA

Specimen Requirements:	**Random Urine – 5 ml**
Specimen Stability:	**7 Days at Room Temperature**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**80101**

Testosterone, Total TAT Code =2

Method: Chemiluminescent Immunoassay

Specimen Requirements:	**Red, SST – 0.5 ml serum**
Specimen Stability:	**48 Hours at 2 – 8 °C. >48 Hours at ≤ -20°C**
Transport Temperature:	**Send Frozen**
CPT Code Information:	**84403**

Theophylline TAT Code =1

Method: Homogeneous Enzyme ImmunoAssay

Specimen Requirements:	**Red or Green top tube (Non-gel) – 0.5 ml serum / heparin plasma**
Specimen Stability:	**30 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**80198**

Thyroglobulin Antibody TAT Code =2

Method: ImmunoAssay

Specimen Requirements:	**Red, SST, PST – 1.0 ml serum/plasma**
Specimen Stability:	**48 Hours at 2 – 8 °C. >48 Hours at ≤ -20 °C**
Transport Temperature:	**Send Frozen**
CPT Code Information:	**86800**

Thyroperoxidase (TPO) Antibodies TAT Code =2

Method: ImmunoAssay

Specimen Requirements:	**Red, SST, PST – 1.0 ml serum/plasma**
Specimen Stability:	**48 Hours at 2 – 8 °C. >48 Hours at ≤ -20 °C**
Transport Temperature:	**Send Frozen**
CPT Code Information:	**86376**

Tissue Transglutaminase Antibody, IgA TAT Code =2

Method: BioRad BioPlex MultiPlex ImmunoAssay

Specimen Requirements:	**Red, SST, PST – 0.5 ml serum/plasma**
Specimen Stability:	**7 Days at 2 - 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**83516**

Tissue Specimens (Pathology Dept) TAT Code =5,6,7

Specimen Requirements:	**Tissue in Formalin. Contact TLO for formalin vials and Trinity Pathology Request forms.Complete the Pathology Tissue Specimen Request Form, completing all sections. The "Clinical Information" section must be completed.**
Testing Performed:	**Monday - Friday**
Transport Temperature:	**Send at Room Temperature**
CPT Code Information:	**84153**

Reflex ER-PR, NER2/NEU histochemical stains for all primary infiltrating breast malignancies. FISH testing for all HER2/NEU results 2+ or greater.

Tobramycin, Peak TAT Code =1

Method: Homogeneous Enzyme ImmunoAssay

Specimen Requirements:	**Red top tube – 0.5 ml serum, Draw 1 Hour Post Infusion.**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**80200**

Tobramycin, Trough TAT Code =1

Method: Homogeneous Enzyme ImmunoAssay

Specimen Requirements:	**Red top tube – 0.5 ml serum, Draw ½ Hour before Infusion.**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**80200**

Transferrin TAT Code =1

Method: Immunoturbidimetric

Specimen	**Red, SST, PST – 0.5 ml serum / heparin plasma**

Requirements:	
Specimen Stability:	**3 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**84466**

Triglycerides TAT Code =1

Method: Glycerol Phosphate Oxidase

Specimen Requirements:	**Red, SST, PST – Fasting sample, 1 ml serum / heparin plasma**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**84478**

Troponin I, High Sensitivity TAT Code =1

Method: Two-site Immunoenzymatic

Specimen Requirements:	**Red, SST, PST – 0.5 ml serum / heparin plasma not interchangable**
Specimen Stability:	**48 Hours at 2 – 8 °C**
Transport Temperature:	**Send Frozen**
CPT Code Information:	**84484**

TSH (Thyroid Stimulating Hormone) TAT Code =1

Method: Chemiluminescent Immunoassay

Specimen Requirements:	**Red, SST, PST – 0.5 ml serum / heparin plasma**
Specimen Stability:	**7 days at 2 – 8 °C**
Transport Temperature:	**Send Frozen**
CPT Code Information:	**84443**

Urea Nitrogen, 24 Hour Urine TAT Code =1

Urea Nitrotgen, Random Urine TAT Code =1

Method: Urease GLDH

Specimen Requirements:	**24 Hour Urine/ Random – 5 ml, Record 24 Hr Volume.Refrigerate during collection & transport.**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**84540**

Uric Acid TAT Code =1

Method: Uricase

Specimen Requirements:	**Red, SST, PST – 0.5 ml serum / heparin plasma** **Random Urine – 5 ml** Send at Room Temperature
Specimen Stability:	**5 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**84550**

Uric Acid, 24 Hour Urine TAT Code =1

Method: Uricase

Specimen Requirements:	**24 Hour Urine – 5 ml, Record 24 Hr Volume.**
Specimen Stability:	**3 Days at Room Temperature.**
Transport Temperature:	**Send at Room Temperature**
CPT Code Information:	**84560**

Urinalysis with Reflex to Microscopy TAT Code =1

Urinalysis with Reflex to Microscopy and Culture

Method: IRIS IRICELL 2000

Specimen Requirements:	**Urine – Unpreserved or Preserved Urine - Refrigerated**
Specimen Stability:	**24 Hours Refrigerated**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**81001**

Specimens submitted for routine urinalysis will have a microscopic exam performed if any one or combination of the following criteria is reported:

- **any appearance other than clear**
- **any color other than: yellow, dark yellow, light yellow, or colorless**
- **positive nitrite**
- **positive leukocyte (including trace)**
- **positive blood (including trace)**
- **positive protein (≥30 mg/dl)**

Specimens submitted for reflex culture, the culture will be performed if any one or combination of the following criteria is reported:

- **>10 WBC/hpf**
- **large leukocyte esterase**
- **positive nitrite**

Vaginal Multiplex Panel, PCR TAT

Method: Cepheid Xpert Xpress MVP

Specimen Requirements:	**Vaginal/Endocervical swab collected and transported using the Xpert Swab Collection Kit (catalog number SWAB/ G50-US).**
Specimen Stability:	**6 days at 2-8° C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**81515**

Valproic Acid TAT Code =1

Method: Homogeneous Enzyme ImmunoAssay

Specimen Requirements:	**Red – 0.5 ml serum. Trough draw prior to next dose.**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**80164**

Vancomycin, Peak TAT Code =1

Method: Homogeneous Enzyme ImmunoAssay

Specimen Requirements:	**Red – 0.5 ml serum Draw 2 Hours Post Infusion.**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**80202**

Vancomycin, Trough or Random TAT Code =1

Method: Homogeneous Enzyme ImmunoAssay

Specimen Requirements:	**Red – 0.5 ml serum.Trough Draw collect ½ Hour before Infusion. Random draw – indicate last dose.**
Specimen Stability:	**7 Days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**80202**

Vitamin B12 TAT Code =2

Method: Chemiluminescent Immunoassay

Specimen Requirements:	**Red, SST, PST – 0.5 ml serum / heparin plasma**
Specimen Stability:	**48 Hours at 2 – 8 °C. >48 Hours at ≤ -20 °C**
Transport	**Send Frozen**

Temperature:	
CPT Code Information:	**82607**

Vitamin D TAT Code = 2

Method: Chemiluminescent Immunoassay

Specimen Requirements:	**Red, SST, PST - 0.5 mL**
Specimen Stability:	**7 days 2 - 8° C**
Transport Temperature	**Send with coolant**
CPT Code Information:	**82306**

VRE, Rapid PCR TAT Code =1

Method: PCR

Specimen Requirements:	**Copan Culture Swab - Rectal Collection** **specimens received with excess stool will be rejected**
Specimen Stability:	**5 days at 2 – 8 °C**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**87500**

WBC, Blood TAT Code =1

Method: Beckman Coulter DxH 600

Specimen Requirements:	**EDTA Whole Blood Tube**
Specimen Stability:	**48 HRS Refrigerated**
Transport Temperature:	**Send with Coolant**
CPT Code Information:	**85048**

WBC, CSF TAT Code =1

Method: Beckman Coulter DxH 600

Specimen	**CSF – Spinal Fluid must reach Laboratory within 1 Hour of**

Requirements:	**Collection.**
Transport Temperature:	**Send at Room Temperature**
CPT Code Information:	**89051**

WBC, Feces (See Fecal Lactoferrin)

Wet Prep (See Bacterial Vaginal Panel)

MISCELLANEOUS TESTING:

Veterinary Test Requests TAT Code =2

Vet Comprehensive Metabolic Panel (18 Test Panel)
Amylase
CBC
Cortisol
Free T4
Lipase
Progesterone
Giardia Antigen (stool specimen)

This document is considered uncontrolled when printed.

Attachments

Microbiology Collection & Transport Kits-Outreach 8-28-2026.pdf

Approval Signatures

Step Description	Approver	Date
Medical Director	Ellen Sigauke: Physician	10/2026
QA coordinator	Pat Halvorson: Lis-QA Coordinator	10/2026