

ABO/Rh

Profile ABO group, Rh type
CPT ABO 86900, Rh 86901
Dept Blood Bank
Spec 7 ml lavender top; HAND LABEL with Name, MR #, Date, Time and Initials
Ref N/A
Panic (high): N/A
Panic (low): N/A
Storage Refrigerate
Setup Daily
Stat Yes

ACETAMINOPHEN

CPT 82003
Dept Chemistry
Spec gold SST
Ref Therapeutic range 10-30 ug/ml
Panic (high): 150 ug/ml (4 hours after ingestion)
Panic (low): N/A
Meth p-aminophenol ferricyanide + THQ
Storage Refrigerate
Setup Daily
Stat Yes

ACETONE SERUM

CPT 82010
Dept Chemistry
Spec gold SST
Ref Negative
Panic (high): N/A
Panic (low): N/A
Meth K-Check tablet
Storage Refrigerate
Com Avoid hemolysis
Setup Daily
Stat Yes
XRef Ketones-Serum

ACTIVATED PARTIAL THROMBOPLASTIN TIME/ APTT

CPT 85730
Dept Hematology
Spec 2.7ml blue top containing 3.2% sodium citrate
Ref See reference ranges at end of test list
Panic (high): > 45 seconds no therapy
> 86 seconds with therapy
Panic (low): N/A
Meth Photo-optical clot detection
Storage Room temperature up to four hours
Com Tube must be filled adequately (3/4 full) to prevent test result errors due to dilution of blood with excessive anticoagulant or under-anticoagulation.
Setup Daily

Stat Yes
XRef PTT

ALBUMIN

CPT 82040
Dept Chemistry
Spec gold SST
Ref 3.5-5.0 g/dl
Panic (high): N/A
Panic (low): N/A
Meth Colorimetric bromcresol green
Storage Refrigerate
Com Avoid hemolyzed specimens.
Setup Daily
Stat Yes

ALCOHOL

CPT 82055
Dept Chemistry
Spec gold SST or 10 ml plain red top tube
Ref 0 mg/dL
Panic (high): N/A
Panic (low): N/A
Meth acetaldehyde + TRIS
Storage Refrigerate
Com Do not pop top on tube or pour off tube into any other tube.
 Do not expose to air. Do not use alcohol prep to draw.
Setup Daily
Stat Yes
XRef Ethanol

ALKALINE PHOSPHATASE (ALK PHOS)

CPT 84075
Dept Chemistry
Spec gold SST
Ref 38-126 U/L Pediatric range: 100 – 300 U/L
Panic (high): N/A
Panic (low): N/A
Meth p-Nitrophenyl-phosphate
Storage Refrigerate
Com Avoid hemolyzed specimens
Setup Daily
Stat Yes

ALT/SGPT (Alanine Aminotransferase)

CPT 84460
Dept Chemistry
Spec gold SST
Ref Male: 21-72 u/L; Female: 9-52 u/L
Panic (high): N/A
Panic (low): N/A
Meth L-alanine +alpha ketoglutarate dec. in NADH

Storage Refrigerate

Setup Daily

Stat Yes

AMA BASIC METABOLIC PANEL (BMP)

CPT 80048

Profile Calcium, Carbon dioxide, Chloride, Creatinine, Glucose, Potassium, Sodium, BUN (Blood Urea Nitrogen)

Dept Chemistry

Spec gold SST

Ref See individual test

Panic (high): See individual tests

Panic (low): See individual tests

Meth See individual test

Storage Refrigerate

Setup Daily

Stat Yes

AMA COMPREHENSIVE METABOLIC PANEL (CMP)

CPT 80053

Profile Albumin, Total Bilirubin, Calcium, Carbon Dioxide, Chloride, Creatinine, Glucose, Alkaline Phosphatase, Potassium, Total Protein, Sodium, AST, BUN, ALT

Dept Chemistry

Spec gold SST

Ref See individual tests

Panic (high): See individual tests

Panic (low): See individual tests

Meth See individual tests

Storage Refrigerate

Setup Daily

Stat Yes

AMA ELECTROLYTE PANEL

CPT 80051

Profile Sodium, potassium, chloride, CO₂

Dept Chemistry

Spec gold SST

Ref See individual test

Panic (high): See individual tests

Panic (low): See individual tests

Meth See individual test

Storage Refrigerate

Com Specimen must not be hemolyzed.

Setup Daily

Stat Yes

XRef Electrolyte Profile

AMA HEPATIC FUNCTION PANEL (HFP)

CPT 80076
Profile Albumin, Total Bilirubin, Conjugated Bilirubin, Alkaline Phosphatase, Total Protein, ALT, AST
Dept Chemistry
Spec gold SST
Ref See individual test
Panic (high): See individual tests
Panic (low): See individual tests
Meth See individual tests
Storage Refrigerate
Setup Daily
Stat Yes

AMA RENAL PANEL

CPT 80069
Profile Glucose, BUN, creat, Na, K, Cl, CO₂, Ca, Phos, Albumin
Dept Chemistry
Spec gold SST
Ref See individual test
Panic (high): See individual tests
Panic (low): See individual tests
Meth See individual tests
Storage Refrigerate
Setup Daily
Stat Yes

AMMONIA

CPT 82140
Dept Chemistry
Spec mint/dark green on ice
Ref 9-30 umol/L
Panic (high): N/A
Panic (low): N/A
Meth Bromphenol blue
Storage Must be on ice and brought immediately to the laboratory.
 If unable to deliver immediately, aliquot and refrigerate plasma.
 After 3 hours, plasma must be frozen
Setup Daily
Stat Yes
XRef NH3

AMYLASE, SERUM

CPT 82150
Dept Chemistry
Spec gold SST
Ref 30-110 u/L
Panic (high): N/A
Panic (low): N/A
Meth Dyed starch amylopectin
Storage Refrigerate

Setup Daily
Stat Yes

AMYLASE, URINE

CPT 82150
Dept Chemistry
Spec 24 hour or 2 hour timed specimen
Ref 1-17 units/hour
Panic (high): N/A
Panic (low): N/A
Meth Dyed starch amylopectin
Storage Refrigerate
Com Specimens should be tested as soon as possible.
 Amylase may be unstable in some urines.
Setup Daily
Stat No

ANA / ANTI-NUCLEAR ANTIBODY

CPT 86255
Dept Microbiology
Spec gold SST
Ref Negative
Panic (high): N/A
Panic (low): N/A
Meth fluorescence
Storage Refrigerate
Com Titer and pattern performed on positive test
Setup Twice a week
Stat No

ANTIBODY SCREEN (Part of Type & Screen)

CPT 86850
Dept Blood Bank
Spec 7 mL lavender top; HAND LABEL with
 Name, MR #, Date, Time and Initials
Ref N/A
Panic (high): N/A
Panic (low): N/A
Storage Refrigerate
Setup Daily
Stat Yes
XRef Indirect Coombs

ANTI-PLATELET THERAPY ASSESSMENT

(Includes Platelet Function Aspirin & Platelet Function P2Y12)

See below:

PLATELET FUNCTION ASPIRIN

CPT 85576
Dept Hematology
Spec Greiner tube 2.0 mL
Ref ≥ 550 ARU (non-aspirin sample)

Panic (high): N/A
Panic (low): N/A
Meth Turbidimetric
Storage Room temp up to 4 hours
Com Do not place in pneumatic tube; hand deliver
Setup Daily
Stat Yes

PLATELET FUNCTION P2Y12

CPT 85576
Dept Hematology
Spec Greiner tube 2.0 mL
Ref ≥ 194 PRU (absence of platelet inhibition)
Panic (high): N/A
Panic (low): N/A
Meth Turbidimetric
Storage Room temp up to 4 hours
Com Do not place in pneumatic tube; hand deliver
Setup Daily
Stat Yes

ASPIRIN LEVEL

CPT 80196
Dept Chemistry
Spec gold SST
Ref Therapeutic range 0-200 mg/L
Panic (high): ≥ 300 mg/L
Panic (low): N/A
Meth Catechol + MBTH + O₂
Storage Refrigerate
Setup Daily
Stat Yes
XRef Salicylate

AST/SGOT (Aspartate aminotransferase)

CPT 84450
Dept Chemistry
Spec gold SST
Ref Male: 17-59u/L; Female: 14-36u/L
Panic (high): N/A
Panic (low): N/A
Meth Aspartate +alpha ketoglutarate dec. in NADH
Storage Refrigerate
Com Avoid hemolyzed specimens.
Setup Daily
Stat Yes

B12 / VITAMIN B12

CPT 82607
Dept Chemistry
Spec gold SST
Ref 239 – 931 pg/ml
Panic (high): N/A
Panic (low): N/A
Meth Chemiluminescent
Storage Refrigerate
Setup Daily
Stat No

BACTERIAL ANTIGEN TEST, CSF or URINE

CPT 86403
Profile Haemophilus influenza type B, streptococcus pneumoniae, group B streptococcus, N. meningitidis groups C & W135, N. meningitidis groups A & Y, N. meningitidis group B, E. coli K1
Dept Microbiology
Spec CSF—Sterile Container
 Urine—Sterile cup
Ref Negative
Panic (high): Positive antigen
Panic (low):
Meth Latex agglutination
Storage Refrigerate
Setup Daily
Stat Yes

B HCG-QUALITATIVE-SERUM

CPT 84703
Dept Chemistry
Spec gold SST
Ref Negative
Panic (high): N/A
Panic (low): N/A
Meth Self-performing immunoassay
Storage Refrigerate
Setup Daily
Stat Yes
XRef Pregnancy Serum-Qualitative

B HCG-QUANTITATIVE-SERUM

CPT 84702
Dept Chemistry
Spec gold SST
Ref See report
Panic (high): N/A
Panic (low): N/A
Meth Microparticle Enzyme Immunoassay, Chemiluminescent
Storage Refrigerate

Setup Daily
Stat Yes
XRef Pregnancy Serum-Quantitative

BILIRUBIN CONJUGATED

CPT 82248
Dept Chemistry
Spec gold SST
Ref 0.0-0.3 mg/dl
Panic (high): N/A
Panic (low): N/A
Meth Direct spectrophotometry
Storage Refrigerate
Com Light sensitive
Setup Daily
Stat Yes
XRef Bilirubin Direct

BILIRUBIN DIRECT

CPT 82248
Dept Chemistry
Spec gold SST
Ref 0.0-0.3 mg/dl
Panic (high): N/A
Panic (low): N/A
Meth Direct spectrophotometry
Storage Refrigerate
Com Light sensitive
Setup Daily
Stat Yes
XRef Bilirubin Conjugated

BILIRUBIN INDIRECT

CPT 82250
Dept Chemistry
Spec gold SST
Ref 0.0-1.1 mg/dL
Panic (high): N/A
Panic (low): N/A
Meth Direct spectrophotometry
Storage Refrigerate
Com Light sensitive
Setup Daily
Stat Yes
XRef Bilirubin Unconjugated

BILIRUBIN TOTAL

CPT 82247
Dept Chemistry
Spec gold SST
Ref 0.2-1.3 mg/dl
Panic (high): N/A

Panic (low): N/A
Meth Diazo
Storage Refrigerate
Com Light sensitive
Setup Daily
Stat Yes

BILIRUBIN UNCONJUGATED

CPT 82250
Dept Chemistry
Spec gold SST
Ref 0.0-1.1 mg/dl
Panic (high): N/A
Panic (low): N/A
Meth Direct spectrophotometry
Storage Refrigerate
Com Light sensitive
Setup Daily
Stat Yes
XRef Bilirubin Indirect

BLOOD-BORNE PARASITE SCREEN

CPT N/A
Dept Hematology
Spec Two EDTA tubes
Ref Negative
Panic (high): Positive
Panic (low): N/A
Meth Manual
Storage Room Temperature; stable for 48 hours; reject if > 48 hrs old
Com Positive screens submitted to reference lab for confirmation
Setup Daily
Stat Yes

BLOOD TYPE

Profile ABO group, Rh type
CPT ABO 86900, Rh 86901
Dept Blood Bank
Spec 7 ml lavender top; HAND LABEL with Name, MR #, Date, Time and Initials
Ref N/A
Panic (high): N/A
Panic (low): N/A
Meth Manual
Storage Refrigerate

Setup Daily
Stat Yes
XRef Type and Rh

BNP / B Type Natriuretic Peptide

CPT 83880
Dept Chemistry
Spec 4 ml lavender top
Ref 0-100 pg/ml
Panic (high): N/A
Panic (low): N/A
Meth Fluorescence Immunoassay
Storage Submit immediately to laboratory
Com Whole blood must be analyzed within 7 hours of collection.
 Separated plasma is stable refrigerated for 24 hours
Setup Daily
Stat Yes

BUN (BLOOD UREA NITROGEN) SERUM

Profile 84250
Dept Chemistry
Spec gold SST
Ref Male: 9-20 mg/dl; Female: 7-17 mg/dl
Panic (high): ≥ 75 mg/dl
Panic (low): N/A
Meth Urease
Storage Refrigerate
Setup Daily
Stat Yes

BUN (BLOOD UREA NITROGEN) URINE

Profile 84540
Dept Chemistry
Spec 24 hour urine collected on ice or kept in refrigerator
Ref 12-20 grams/24 hours
Panic (high): N/A
Panic (low): N/A
Meth Urease
Storage Refrigerate
Setup Daily
Stat No

C. DIFFICILE TOXIN

CPT 87324
Dept Microbiology
Spec Stool in plain plastic container
Ref Negative
Panic (high): Positive
Panic (low): N/A
Meth Enzyme Immunoassay
Storage Refrigerate; Freeze immediately, if
 Transport is delayed >72 hours

Setup Daily
Stat No

C-REACTIVE PROTEIN (CRP)

CPT 86140
Dept Chemistry
Spec gold SST
Ref Less than or equal to 1.0 mg/dl
 Panic (high): N/A
 Panic (low): N/A
Meth CRP monoclonal ab HRP + phosphorylcholine beads
Storage Refrigerate
Setup Daily
Stat No
XRef CRP

CALCIUM - SERUM

CPT 82310
Dept Chemistry
Spec gold SST
Ref 8.4-10.2 mg/dl
 Panic (high): ≥ 13.0 mg/dl
 Panic (low): ≤ 7.0 mg/dl
Meth Arsenazo III dye
Storage Refrigerate
Setup Daily
Stat Yes

CALCIUM - URINE

CPT 82340
Dept Chemistry
Spec 24 hour urine collected on ice or kept in refrigerator.
Ref 0.1-0.3 grams/24 hours
 Panic (high): N/A
 Panic (low): N/A
Meth Arsenazo III dye
Storage Refrigerate
Setup Daily
Stat No

CARBAMAZEPINE

CPT 80156
Dept Chemistry
Spec gold SST
Ref 4.0 – 12.0 ug/ml
 Panic (high): ≥ 15 ug/ml
 Panic (low):
Meth CRBM-Ab peroxidase conjugate
Storage Refrigerate

Setup Daily
Stat Yes
XRef Tegretol

CARBON DIOXIDE (C02)

CPT 82374
Dept Chemistry
Spec gold SST
Ref 22-30 mmol/L
Panic (high): ≥ 40 mmol/L
Panic (low): ≤ 10 mmol/L
Meth Acetazolamide with phosphoenolpyruvate
Storage Refrigerate
Setup Daily
Stat Yes

CK REFLEX TO MB CARDIAC PROFILE

CPT CK 82550, CK-MB 82553
Profile CK, If > 100, reflex to CK-MB
Dept Chemistry
Spec gold SST
Ref See individual test
Panic (high): N/A
Panic (low): N/A
Meth See individual test
Storage Refrigerate
Com Avoid hemolysis, If CK > 100, reflex to CK-MB
Setup Daily
Stat Yes

CBC / COMPLETE BLOOD COUNT

CPT 85027
Profile WBC,nRBC%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW, PLT, MPV
Dept Hematology
Spec 4 ml lavender top
Ref See reference ranges at end of test list
Panic (high): See Critical Values at end of test list
Panic (low): See Critical Values at end of test list
Meth Sysmex - Impedance, light absorbance, flow cytometry and laser light scatter
Storage Room temp up to 24 hrs; refrigerate between 2° and 8° C up to 48 hours
Setup Daily
Stat Yes
XRef Hemogram

CBC WITH AUTO DIFF

CPT 85025

Profile WBC, nRBC%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW, PLT, MPV, Neutrophil % and #, Lymphocyte % and #, Monocyte % and #, Eosinophil % and #, Basophil % and #; Immature Granulocytes %, Reflex to Manual Differential, if Auto Diff fails “screen”

Dept Hematology

Spec 4 ml lavender top

Ref See reference ranges at end of test list

Panic (high): See Critical Values at end of test list

Panic (low): See Critical Values at end of test list

Meth Sysmex – Impedance, light absorbance, flow cytometry and laser light scatter

Storage Room temp up to 24 hrs; refrigerate between 2° and 8° C up to 48 hours

Setup Daily

Stat Yes

CBC WITH MANUAL DIFF

CPT 85025

Profile WBC, nRBC%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW, PLT, MPV, Manual Differential

Dept Hematology

Spec 4 ml lavender top

Ref See reference ranges at end of test list

Panic (high): See Critical Values at end of test list

Panic (low): See Critical Values at end of test list

Meth Sysmex – Impedance, light absorbance, flow cytometry and laser light scatter

Storage Room temp up to 24 hrs; refrigerate between 2° and 8° C up to 48 hours

Setup Daily

Stat Yes

CELL COUNT, BODY FLUID (NOT CSF)

CPT 89050

Dept Hematology

Spec 5 ml EDTA - lavender top

Ref N/A

Panic (high): N/A

Panic (low): N/A

Meth Hemacytometer, cytocentrifuge, and modified Wright stained smears

Storage Room temp or refrigerate between 2 to 8 degrees C up to 24 hours

Com Deliver immediately to Hematology Department

Setup Daily

Stat Yes

CELL COUNT, CSF

CPT 89050

Dept Hematology

Spec Sterile, CSF tubes

Ref WBC: 0-5 cu mm; RBC: 0-10cu mm

Panic (high): N/A

Panic (low): N/A

Meth Hemacytometer, cytocentrifuge, and modified Wright stained smears

Storage Room temp or refrigerate between 2 to 8 degrees C up to 24 hours

Com Deliver immediately to Hematology Department
Setup Daily
Stat Yes

CEREBROSPINAL FLUID FOR CYTOLOGY

CPT 88104
Dept Cytology
Spec #1 CSF tube
Ref See report
 Panic (high): N/A
 Panic (low): N/A
Storage Send immediately to lab. If delay, add equal amounts of cytolyte & refrigerate.
Com Testing performed at Valhalla lab
Setup Monday through Friday
Stat No

CHLORIDE (CL)

CPT 82435
Dept Chemistry
Spec gold SST
Ref 98-107 mmol/l
 Panic (high): N/A
 Panic (low): N/A
Meth Ion Selective Electrode
Storage Refrigerate
Setup Daily
Stat Yes

CHOLESTEROL

CPT 82465
Dept Chemistry
Spec gold SST
Ref <200 mg/dl
 Panic (high): N/A
 Panic (low): N/A
Meth Cholesterol oxidase peroxidase
Storage Refrigerate
Setup Daily
Stat Yes

CK (CPK)

CPT 82550
Dept Chemistry
Spec gold SST
Ref Male: 55-170 u/L; Female: 30-135 u/L
 Panic (high): N/A
 Panic (low): N/A
Meth CP +ADP
Storage Refrigerate
Com Avoid hemolyzed specimens

Setup Daily
Stat Yes

CK-MB

CPT 82553
Dept Chemistry
Spec gold SST
Ref 0.0 – 3.4 ng/ml
Panic (high): ≥ 5.0 ng/ml
Panic (low): N/A
Meth Chemiluminescent
Storage Refrigerate
Com Must order Cardiac Profile; CK-MB is performed
 If Total CK is greater than 100
Setup Daily
Stat Yes

CORTISOL

CPT 82533
Dept Chemistry
Spec gold SST
Ref 10 am: 4.5-22.7 ug/dl; 5 pm: 1.7-14.1 ug/dl
Panic (high): N/A
Panic (low): N/A
Meth Chemiluminescent
Storage Refrigerate
Com Normal range includes only specimens drawn
 at 8 am or 4 pm
Setup Daily
Stat Yes

CREATININE, SERUM

CPT 82565
Dept Chemistry
Spec gold SST
Ref Male: 0.66-1.25 mg/dl; Female: 0.52-1.04 mg/dl
Panic (high): ≥ 5.0 mg/dl
Panic (low): N/A
Meth Creatinine amidinohydrolase
Storage Refrigerate
Setup Daily
Stat Yes

CREATININE, URINE, RANDOM

CPT 82575
Dept Chemistry
Spec 25 ml random urine
Ref N/A
Panic (high): N/A
Panic (low): N/A
Meth Creatinine amidinohydrolase
Storage Refrigerate

Setup Daily
Stat No

CREATININE CLEARANCE URINE

CPT 82575
Dept Chemistry
Spec 24 hour urine collected on ice or refrigerated
Ref Male: 70-135 mls/min; Female: 70-115 mls/min
Panic (high): N/A
Panic (low): N/A
Meth Creatinine amidinohydrolase
Storage Refrigerate
Com Performed on a 24 hour specimen and must have a serum creatinine during time of collection.
Setup Daily
Stat No

CREATININE URINE (24 HOUR)

CPT 82570
Dept Chemistry
Spec 24 hour urine collected on ice or refrigerated
Ref Male: 1.0-2.0 g/24 hrs; Female :0.8-1.8 g/24 hrs
Panic (high): N/A
Panic (low): N/A
Meth Creatinine amidinohydrolase
Storage Refrigerate
Setup Daily
Stat No

CRP

CPT 86140
Dept Chemistry
Spec gold SST
Ref Less than or equal to 1.0 mg/dl
Panic (high): N/A
Panic (low): N/A
Meth CRP monoclonal Ab HRP + phosphorylcholine beads
Storage Refrigerate
Setup Daily
Stat No
XRef C - reactive protein

CRYOPRECIPITATE

CPT P9012
Dept Blood Bank
Spec N/A
Ref N/A
Panic (high): N/A
Panic (low): N/A
Meth N/A
Storage N/A

Com Indicate number of units needed. Blood Consent required
Setup Daily
Stat Yes

CRYSTAL ANALYSIS/SYNOVIAL FLUID

CPT 89060
Dept Hematology
Spec 2 ml joint fluid in a sterile container
Ref Negative
Panic (high): N/A
Panic (low): N/A
Meth Polarized light microscopy
Storage Room temp or refrigerate between 2 and 4 degrees C up to 4 hours
Setup Daily
Stat Yes

CULTURE – ANAEROBIC

CPT 87075
Dept Microbiology
Spec Blue top culture swab plus (with gel)
Ref No growth
Panic (high): N/A
Panic (low): N/A
Meth Identification and sensitivity
Storage Room Temp
Setup Daily
Stat No

CULTURE BLOOD

CPT 87070
Dept Microbiology
Spec Blood culture bottle set: 1 pink,1 blue
 Pediatric: one yellow
Ref No growth
Panic (high): N/A
Panic (low): N/A
Meth Manual and Automated
Storage Room Temp; Do **NOT** Refrigerate
Setup Daily
Stat Yes

CULTURE BODY FLUID

CPT 87070
Dept Microbiology
Spec Sterile screw-capped container or collection bottles,
Ref No growth
Panic (high): N/A
Panic (low): N/A
Meth Manual and Automated
Storage Room Temp
Setup Daily
Stat No

CULTURE CATHETER TIP

CPT 87070
Dept Microbiology
Spec Tip in sterile screw-capped container
Ref No growth
Panic (high): N/A
Panic (low): N/A
Meth Manual and Automated
Storage Room Temp
Setup Daily
Stat No

CULTURE CSF

CPT 87070
Dept Microbiology
Spec Sterile leak-proof container
Ref No growth
Panic (high): N/A
Panic (low): N/A
Meth Manual and Automated
Storage Room temp; Do **NOT** refrigerate
Setup Daily
Stat Yes

CULTURE EAR

CPT 87070
Dept Microbiology
Spec Culturette Swab (white or red top)
Ref No growth or normal skin flora
Panic (high): N/A
Panic (low): N/A
Meth Manual and Automated
Storage Room Temp
Setup Daily
Stat No

CULTURE EYE

CPT 87070
Dept Microbiology
Spec Culturette Swab
Ref No growth or normal skin flora
Panic (high): N/A
Panic (low): N/A
Meth Manual and Automated
Storage Room Temp
Setup Daily
Stat No

CULTURE G.C.

CPT 87081
Dept Microbiology
Spec Culturette swab
Ref No G.C. isolated
Panic (high): N/A
Panic (low): N/A
Meth Manual and Automated
Storage Room Temp
Setup Daily
Stat No

CULTURE GENITAL

CPT 87070
Dept Microbiology
Spec Culturette swab
Ref Normal genital flora
Panic (high): N/A
Panic (low): N/A
Meth Manual and Automated
Storage Room Temp
Setup Daily
Stat No

CULTURE MRSA SCREEN ONLY

CPT 87081
Dept Microbiology
Spec Culture Swab (white or red top) of nare
Ref No MRSA colonization after 24 hours
Panic (high): N/A
Panic (low): N/A
Meth Manual
Storage Room Temp
Setup Daily
Stat Yes

CULTURE PD FLUID

CPT 87070
Dept Microbiology
Spec Minimum 50 ml fluid in sterile screw-capped container or 20ml fluid collected in 1 set (2 bottles) blood culture bottles.
Ref No growth
Panic (high): N/A
Panic (low): N/A
Meth Manual and Automated
Storage Room Temp
Setup Daily
Stat No

CULTURE RESPIRATORY

CPT 87070
Dept Microbiology
Spec Sterile screw-capped container or E-T tube
Ref Normal respiratory flora
 Panic (high): N/A
 Panic (low): N/A
Meth Manual and Automated
Storage Room Temp
Setup Daily
Stat No

CULTURE STOOL

CPT 87045
Dept Microbiology
Spec Cary Blair screw cap transport
 Vial
Ref No pathogens
 Panic (high): N/A
 Panic (low): N/A
Meth Manual and Automated
Storage Room Temp
Setup Daily
Stat No

CULTURE THROAT - FULL

CPT 87060
Dept Microbiology
Spec Culturette swab
Ref Normal flora
 Panic (high): N/A
 Panic (low): N/A
Meth Manual and Automated
Storage Room Temp
Setup Daily
Stat No

CULTURE THROAT – STREP ONLY

CPT 87081
Dept Microbiology
Spec Culturette swab
Ref No beta strep
 Panic (high): N/A
 Panic (low): N/A
Meth Manual and Automated
Storage Room Temp
Setup Daily
Stat No

CULTURE URINE

CPT 87086
Dept Microbiology
Spec Sterile transport vial with preservative
Ref No growth
Panic (high): N/A
Panic (low): N/A
Meth Manual and Automated
Storage Room Temp
Setup Daily
Stat No

CULTURE WOUND

CPT 87070
Dept Microbiology
Spec Culture Swab or Tissue in sterile screw-capped container. Tissue is preferred
Ref No growth
Panic (high): N/A
Panic (low): N/A
Meth Manual and Automated
Storage Room Temp
Setup Daily
Stat No

CYTOLOGY Body Fluid, Non-GYN

CPT 88112, 88305
Dept Cytology
Spec Body fluid, non-GYN, submit in collection container
Ref N/A
Panic (high): N/A
Panic (low): N/A
Meth Thin prep
Storage Submit immediately to Histology; refrigerate if delay
Setup Mon – Fri
Com Testing performed at Valhalla
Stat No

CYTOLOGY Body Fluid, GYN

CPT 88142
Dept Cytology
Spec Body fluid, GYN; submit in thin prep container
Ref N/A
Panic (high): N/A
Panic (low): N/A
Meth Thin prep
Storage Submit immediately to Histology
Com Testing performed at Valhalla
Setup Mon - Fri
Stat No

DAT

CPT 86880
Dept Blood Bank
Spec 7ml lavender, hand labeled with full name, MR #, date, time and initials
Ref N/A
Panic (high): N/A
Panic (low): N/A
Meth Manual
Storage Refrigerate
Setup Daily
Stat Yes
XRef Direct Coombs, Direct Antibody Test, Direct Antiglobulin Test

D-DIMER

CPT 85379
Dept Hematology
Spec 4 ml lavender top
Ref ≤ 400 ng/ml
Panic (high): N/A
Panic (low): N/A
Meth Fluorescent immunoassay
Storage Room temp up to 24 hours; > 24 hours: separate plasma and freeze at -20 degrees
Setup Daily
Stat Yes

DEPAKENE

CPT 80164
Dept Chemistry
Spec gold SST
Ref 50-120 ug/ml
Panic (high): ≥ 125 ug/ml
Panic (low): N/A
Meth Valp/Glucose-6-Phosphate dehydrogenase
Storage Refrigerate
Setup Daily
Stat Yes
XRef Depakote, Valproic acid

DEPAKOTE

CPT 80164
Dept Chemistry
Spec gold SST
Ref 50-120 ug/ml
Panic (high): ≥ 125 ug/ml
Panic (low): N/A
Meth Valp/Glucose-6-Phosphate dehydrogenase
Storage Refrigerate
Setup Daily
Stat Yes
XRef Depakene, Valproic acid

DIGOXIN / LANOXIN

CPT 80162
Dept Chemistry
Spec gold SST
Ref 0.8-2.0 ng/ml
 Panic (high): ≥ 2.1 ng/ml
 Panic (low): N/A
Meth Dig-Ab/peroxidase conjugate
Storage Refrigerate
Com Digibind will cause interference
Setup Daily
Stat Yes

DILANTIN (PHENYTOIN)

CPT 80185
Dept Chemistry
Spec plain red top
Ref 10-20 ug/ml
 Panic (high): ≥ 30 ug/ml
 Panic (low): N/A
Meth Phenytoin peroxidase conjugate
Storage Refrigerate
Com Aliquot serum into separate vial; Avoid hemolysis
Setup Daily
Stat Yes
XRef Phenytoin

DIRECT ANTIBODY TEST

CPT 86880
Dept Blood Bank
Spec 7 ml lavender, hand labeled with full name, MR#, date, time and initials
Ref N/A
 Panic (high): N/A
 Panic (low): N/A
Meth Manual
Storage Refrigerate
Setup Daily
Stat Yes
XRef Direct Coombs, DAT, Direct Antiglobulin Test

DIRECT ANTIGLOBULIN TEST

CPT 86880
Dept Blood Bank
Spec 7 ml lavender, hand labeled with full name, MR#, date, time and initials
Ref N/A
 Panic (high): N/A
 Panic (low): N/A
Meth Manual

Storage Refrigerate
Setup Daily
Stat Yes
XRef Direct Coombs, Direct Antibody Test, DAT

DIRECT COOMBS

CPT 86880
Dept Blood Bank
Spec 7 ml lavender, hand labeled with full name, MR#, date, time and initials
Ref N/A
Panic (high): N/A
Panic (low): N/A
Meth Manual
Storage Refrigerate
Setup Daily
Stat Yes
XRef Direct Antibody Test, DAT, Direct Antiglobulin Test

ELECTROLYTE PANEL

CPT 80051
Profile Sodium, potassium, chloride, CO₂
Dept Chemistry
Spec gold SST
Ref See individual test
Panic (high): See individual tests
Panic (low): See individual tests
Meth See individual test
Storage Refrigerate
Com Avoid hemolysis
Setup Daily
Stat Yes
XRef AMA Electrolyte Panel

ERYTHROCYTE SEDIMENTATION RATE

CPT 85651
Dept Hematology
Spec 4 ml lavender top
Ref Male: 0-15 mm/hr; Female: 0-20 mm/hr
Panic (high): N/A
Panic (low): N/A
Meth Modified Westergren
Storage Room temp up to four hours
Setup Daily
Stat Yes
XRef ESR

ESR

CPT 85651
Dept Hematology
Spec 4 ml lavender top
Ref Male: 0-15 mm/hr; Female: 0-20 mm/hr
Panic (high): N/A

Panic (low): N/A
Meth Modified Westergren
Storage Room temp up to four hours
Setup Daily
Stat Yes
XRef Erythrocyte Sedimentation Rate

ETHANOL

CPT 82055
Dept Chemistry
Spec gold SST or plain red top tube
Ref 0 mg/dl
Panic (high): N/A
Panic (low): N/A
Meth Acetaldehyde-TRIS complex
Storage Refrigerate
Com Do not pop top on tube or pour off tube into any other tube.
 Do not expose to air. Do not use alcohol prep to draw.
Setup Daily
Stat Yes
XRef Alcohol

FDP

CPT 85362
Dept Hematology
Spec FDP tube (obtained from hematology)
Ref Normal range <10 µgm/ml
Panic (high): N/A
Panic (low): N/A
Meth Latex agglutination
Storage Submit immediately to lab; Centrifuge and perform within one hour of collection
Setup Daily
Stat Yes
XRef Fibrin Degradation Products, Fibrin Split Products

FERRITIN

CPT 82728
Dept Chemistry
Spec gold SST
Ref Male: 17.9-464.0 ng/ml
 Females: 0-49 yrs: 6.2-137.0 ng/ml
 ≥ 50 yrs: 11.1-264.0 ng/ml
Panic (high): N/A
Panic (low): N/A
Meth Chemiluminescent
Storage Refrigerate
Setup Daily
Stat No

FFP

CPT P9017 or P9059
Dept Blood Bank
Spec N/A
Ref N/A
Panic (high): N/A
Panic (low): N/A
Meth N/A
Storage N/A
Com Indicate number of units needed. ABO/Rh prior to administration.
 Blood Consent required.
Setup Daily
Stat Yes
XRef Fresh Frozen Plasma

FIBRIN DEGRADATION PRODUCTS

CPT 85362
Dept Hematology
Spec FDP tube (obtained from hematology)
Ref Normal range <10 µgm/ml
Panic (high): N/A
Panic (low): NA
Meth Latex agglutination
Storage Submit immediately to lab; Centrifuge and perform within one hour of collection
Setup Daily
Stat Yes
XRef FDP, Fibrin Split Products

FIBRIN SPLIT PRODUCTS

CPT 85362
Dept Hematology
Spec FDP tube (obtained from hematology)
Ref Normal range <10 µgm/ml
Panic (high): N/A
Panic (low): N/A
Meth Latex agglutination
Storage Submit immediately to lab; Centrifuge and perform within one hour of collection
Setup Daily
Stat Yes
XRef FDP, Fibrin Degradation Products

FIBRINOGEN

CPT 85384
Dept Hematology
Spec 2.7 ml blue top containing 3.2% sodium citrate
Ref 200-450 mg/dL
Panic (high):
Panic (low):
Meth Clauss method, ACL Elite Pro
Storage Room temp up to 4 hours; > 4 hours: freeze -20 degrees C or colder up to 14 days
Com Tube must be filled adequately (3/4 full) to prevent test result errors due to dilution of blood with

excessive anticoagulant or undercoagulation

Setup Daily
Stat Yes

FINE NEEDLE ASPIRATION

CPT 88172, 88305
Dept Pathology (and cell block if quantity is sufficient)
Spec Aspiration of any organ
Ref No abnormal findings
Panic (high): N/A
Panic (low): N/A

Meth N/A

Storage See Comments below

Com 1) One to two slides should be air-dried. All other slides are to be immersed immediately in 95% alcohol. Label with two identifiers (e.g. name, DOB) in pencil on frosted side. When material is sufficient, syringes should be rinsed in container of cytolytic fixative for cell block preparation.
 2) Schedule at least 24 hours in advance with Pathology Department if pathologist is required at bedside.

Setup Monday through Friday
Stat Yes

FOLATE / FOLIC ACID

CPT 82746
Dept Chemistry
Spec gold SST
Ref 2.8 – >20.0 ng/ml
Panic (high): N/A
Panic (low): N/A

Meth Chemiluminescent

Storage Refrigerate; protect from light; Avoid hemolysis

Setup Daily
Stat No

FREE THYROXINE INDEX

CPT N/A
Dept Chemistry
Spec gold SST
Ref 1.7 – 3.9 ug/dL
Panic (high): N/A
Panic (low): N/A

Meth Calculation

Storage Refrigerate

Com Must order T3 and T4 in order to get a T7.

Setup Daily
Stat No
XRef T7 (FTI)

FRESH FROZEN PLASMA

CPT P9017 or P9059
Dept Blood Bank
Spec N/A
Panic (high): N/A
Panic (low): N/A
Meth N/A
Storage N/A
Com Indicate number of units needed. Perform ABO/Rh prior to administration.
 Blood Consent required
Setup Daily
Stat Yes
XRef FFP

FROZEN SECTION

CPT 88331
Dept Histology
Spec Fresh tissue
Ref N/A
Panic (high): N/A
Panic (low): N/A
Meth Manual
Storage Deliver to Histology Dept immediately
Com Notify Histology in advance.
Setup Mon – Friday
Stat Yes

GENTAMICIN

CPT 80170
Dept Chemistry
Spec gold SST
Ref **Panic (high):** Toxic peak: ≥ 12.0 ug/ml
 Toxic trough: ≥ 2.0 ug/ml
Panic (low): N/A
Meth Gentamicin glucose-6-phosphate-dehydrogenase conjugate
Storage Refrigerate
Com No normal ranges for random specimens. Trough is drawn 15 minutes
 prior to dose and peak drawn 30 minutes after IV dose and one hour after IM dose.
 Deliver to lab ASAP
Setup Daily
Stat Yes

GGTP (Gama-glutamyltransferase)

CPT 82977
Dept Chemistry
Spec gold SST
Ref Male: 15-73 u/L; Female: 12-43 u/L
Panic (high): N/A

Panic (low): N/A

Meth L-gamma-glutamyl P-nitroanilide + glycyglycine
Storage Refrigerate
Com Avoid hemolyzed specimens, avoid glycerol or soap
Setup Daily
Stat Yes

GLUCOSE CSF

CPT 82947
Dept Chemistry
Spec CSF collected by physician
Ref 40-70 mg/dl
Panic (high): N/A
Panic (low): N/A
Meth Glucose oxidase peroxidase
Storage Refrigerate
Setup Daily
Stat Yes

GLUCOSE SERUM

CPT 82947
Dept Chemistry
Spec gold SST
Ref 74-106 mg/dl
Panic (high): ≥ 400 mg/dl
Panic (low): ≤ 60 mg/dl
Meth Glucose oxidase peroxidase
Storage Refrigerate
Com Order stat to verify Accucheck results greater than 400 or as per physician order.
Setup Daily
Stat Yes

GLUCOSE URINE

CPT 82947
Dept Chemistry
Spec 24 hour collection on ice or refrigerated
Ref 0 - 500 mg/dl
Panic (high): N/A
Panic (low): N/A
Meth Glucose oxidase peroxidase
Storage Refrigerate
Setup Daily
Stat No

GLYCOHEMOGLOBIN A1C

CPT 83036
Dept Chemistry
Spec 2.7 ml lavender top
Ref <6.0 % Non-diabetic Range
Panic (high): N/A
Panic (low): N/A
Meth HPLC

Storage Refrigerate

Setup Daily

Stat No

GRAM STAIN

CPT 87025

Dept Microbiology

Spec As submitted

Ref No bacteria seen
For stool: No WBCs seen

Panic (high): N/A

Panic (low): N/A

Meth Gram stain

Storage Room Temp

Setup Daily

Stat Yes

GUAIAIC STOOL

CPT 82270

Dept Microbiology

Spec Hemocult Test Cards

Ref Negative

Panic (high): N/A

Panic (low): N/A

Meth Guaiac

Storage Room Temp

Setup Daily

Stat Yes

XRef Occult Blood

HDL

CPT 83718

Dept Chemistry

Spec gold SST

Ref 40-60 mg/dl
>60 is desirable

Panic (high): N/A

Panic (low): N/A

Meth Cholesterol ester hydrolase

Storage Refrigerate

Com Recommend fasting specimen

Setup Daily

Stat No

XRef High Density Lipoprotein

HEMOGLOBIN AND HEMOCRIT (H&H)

CPT 85014

Dept Hematology

Spec 4 ml lavender top

Ref See reference ranges at end of test list

Panic (high): See Hematology Critical Values at end of test list

Panic (low): See Hematology Critical Values at end of test list

Meth Sysmex – light absorbance impedance
Storage Room temp up to 24 hrs; refrigerate between 2° - 8° C up to 48 hours
Setup Daily
Stat Yes

HEPARIN PROTOCOL
(APTT, Patient on Heparin)

CPT 85730
Dept Hematology
Spec 2.7 ml blue top containing 3.2% sodium citrate
Ref 50.0 – 70.9 sec: Low dose heparin (cardiac):
 60.0 – 100.9 sec: High dose heparin (acute thrombus):
Panic (high): ≥ 86 seconds
Panic (low): N/A
Meth Photo-optical clot detection
Storage Submit immediately to lab
Com Tube must be filled adequately (3/4 full) to prevent test result errors
 due to dilution of blood with excessive anticoagulant or under anticoagulation.
Setup Daily
Stat Yes

HEPATITIS ACUTE PROFILE

CPT 80074
Profile Hepatitis B surface antigen, hepatitis A antibody-IgM,
 hepatitis B core antibody IgM, hepatitis C antibody
Dept Chemistry
Spec Large SST tube
Ref See separate tests
Panic (high): See separate tests
Panic (low): See separate tests
Meth See individual test
Storage Refrigerate
Setup Mon, Tues, Thurs, Fri
Stat No

HEPATITIS A ANTIBODY IGM

CPT 86709
Dept Chemistry
Spec gold SST
Ref Negative
Panic (high): N/A
Panic (low): N/A
Meth Chemiluminescent
Storage Refrigerate
Setup Daily, as needed
Stat No

HEPATITIS B ANTIBODY (HBSAB)

CPT 86706
Dept Chemistry
Spec gold SST
Ref Negative (positive if vaccinated)

Panic (high): N/A

Panic (low): N/A

Meth Chemiluminescent

Storage Refrigerate

Setup Daily, as needed

Stat No

HEPATITIS B CORE ANTIBODY IGM

CPT 86705

Dept Chemistry

Spec gold SST

Ref Negative

Panic (high): Reactive

Panic (low): N/A

Meth Chemiluminescent

Storage Refrigerate

Setup Daily, as needed

Stat No

HEPATITIS B SURFACE ANTIGEN (HBSAG)

CPT 87340

Dept Chemistry

Spec gold SST

Ref Negative

Panic (high): Reactive

Panic (low): N/A

Meth Chemiluminescent

Storage Refrigerate

Setup Daily, as needed

Stat No

HEPATITIS C VIRUS ANTIBODY (HCVAB)

CPT 86803

Dept Chemistry

Spec gold SST

Ref Negative

Panic (high): N/A

Panic (low): N/A

Meth Chemiluminescent

Storage Refrigerate

Setup Daily, as needed

Stat No

HIGH DENSITY LIPOPROTEIN (HDL)

CPT 83718

Dept Chemistry

Spec gold SST

Ref 40-60 mg/dl
>60 is desirable

Panic (high): N/A

Panic (low): N/A

Meth Cholesterol ester hydrolase
Storage Refrigerate
Com Recommend fasting specimen
Setup Daily
Stat No
XRef HDL

HIGH SENSITIVITY CRP

CPT 86141
Dept Chemistry
Spec gold SST
Ref See Report
Meth Antibody / Antigen Complexes
Storage Refrigerate
Setup Daily
Stat No
Xref CardioCRP

HIV Ag/Ab, RAPID

CPT 86703, 87899
Dept Microbiology
Spec gold SST
Ref Non-reactive
Panic (high): N/A
Panic (low): N/A
Meth Immunoassay
Storage Refrigerate
Setup Daily
Stat Yes

HOMOCYSTEINE

CPT 83090
Dept Chemistry
Spec gold SST
Ref Male: < 13 umol/L
 Female: < 12 umol/L
Panic (high): N/A
Panic (low): N/A
Meth Pyruvate Reduction
Storage Refrigerate
Setup Daily
Stat No

INDIRECT COOMBS (Part of Type & Screen)

CPT 86850
Dept Blood Bank
Spec 7 ml lavender top, hand-labeled, with name, MR#, date, time and collector initials
Ref N/A
Panic (high): N/A
Panic (low): N/A
Meth Manual
Storage Refrigerate

Com Part of Type & Screen
Setup Daily
Stat Yes
XRef Antibody Screen

INFLUENZA A/B

CPT 87804 x 2
Dept Microbiology
Spec Nasopharyngeal swab
Ref Negative
 Panic (high): N/A
 Panic (low): N/A
Meth Fluorescent immunoassay
Storage Refrigerate
Setup Daily
Stat Yes

IRON (Fe)

CPT 83540
Dept Chemistry
Spec gold SST
Ref Male: 49-181 ug/dl; Female: 37-170 ug/dl
 Panic (high): N/A
 Panic (low): N/A
Meth Pyridylazo dye
Storage Refrigerate
Com Avoid hemolyzed specimens.
Setup Daily
Stat Yes

K (Potassium)

CPT 84132
Dept Chemistry
Spec gold SST
Ref 3.5-5.1 mmol/L
 Panic (high): ≥ 6.0 mmol/L
 Panic (low): ≤ 2.8 mmol/L
Meth Ion Selective Electrode
Storage Refrigerate
Com Specimen must not be hemolyzed
Setup Daily
Stat Yes
XRef Potassium

KETONES-SERUM

CPT 82010
Dept Chemistry
Spec gold SST
Ref Negative
 Panic (high): N/A
 Panic (low): N/A
Meth K-Check tablet

Storage Refrigerate

Com Specimens should not be hemolyzed.

Setup Daily

Stat Yes

XRef Acetone Serum

LACTATE DEHYDROGENASE (LDH)

CPT 83615

Dept Chemistry

Spec gold SST

Ref 313-618 u/L

Panic (high): N/A

Panic (low): N/A

Meth Pyruvate + NADH (dec in NADH)

Storage Room Temperature

Com Avoid hemolyzed and frozen samples, avoid refrigeration

Setup Daily

Stat Yes

LACTIC ACID

CPT 83605

Dept Chemistry

Spec 2 ml gray top (Na Fluoride) tube on ice

Ref 0.7-2.0 mmol/L

Panic (high): ≥ 2.1 mmol/L

Panic (low): N/A

Meth Lactate oxidase

Storage Transport on ice to laboratory immediately, plasma must be separated from cells within 15 minutes

Setup Daily

Stat Yes

LDL Low Density Lipoprotein

CPT 83721

Dept Chemistry

Spec gold SST

Ref <130 mg/dL

Panic (high): N/A

Panic (low): N/A

Meth Cholesterol esterase, cholesterol oxidase, Peroxidase

Storage Refrigerate

Setup Daily

Stat No

XRef Direct LDL (measurement)

LIPASE

CPT 83690

Dept Chemistry

Spec gold SST

Ref 23-300 u/L

Panic (high): N/A

Panic (low): N/A

Meth 1-oleoyl 2,3-diacetyl glycerol
Storage Refrigerate
Com Avoid soap or glycerol contamination
Setup Daily
Stat Yes

LIPID PROFILE

CPT See individual tests
Profile Cholesterol, triglyceride, HDL, Calc LDL, Chol/HDL ratio
Dept Chemistry
Spec gold SST
Ref See individual test
Panic (high): N/A
Panic (low): N/A
Meth See individual test
Storage Refrigerate
Com Fasting specimen preferred
Setup Daily
Stat No

LITHIUM

CPT 80178
Dept Chemistry
Spec gold SST
Ref 0.6-1.2 mmol/L
Panic (high): ≥ 1.5 mmol/L
Panic (low): N/A
Meth Crown-ether chromophore
Storage Refrigerate
Setup Daily
Stat Yes

LYME ANTIBODY

CPT 86317
Dept Microbiology
Spec gold SST
Ref Negative
Panic (high): N/A
Panic (low): N/A
Meth Enzyme Immunoassay
Storage Refrigerate
Com Positive or equivocal automatically referred for Lyme Confirmatory Test
Setup Three times a week
Stat No

LYME CONFIRMATORY TEST (SERUM)

CPT 86617 x 2
Dept Microbiology
Spec gold SST
Ref Negative
Panic (high): N/A
Panic (low): N/A
Meth Line Blot Assay
Storage Refrigerate
Setup 2 x / week
Stat No

LYMPH NODE FOR IMPRINTS

CPT 88329
Dept Histology
Spec Lymph node
Ref N/A
Panic (high): N/A
Panic (low): N/A
Meth N/A
Storage Submit immediately to laboratory
Com Submit whole specimen on saline pad in sterile container.
Setup Mon – Fri/day shift; Call Histology to schedule, if requested outside of the setup days/hours
Stat Yes
XRef Touch Preps

MRSA SCREEN

CPT 87081
Dept Microbiology
Spec swab of nares
Ref Negative
Panic (high): Positive
Panic (low): N/A
Meth Manual / Chrome agar
Storage Room temperature
Setup Daily
Stat No

MAGNESIUM (Mg)

CPT 83735
Dept Chemistry
Spec gold SST
Ref 1.6-2.3 mg/dL
Panic (high): ≥ 3.0 mg/dl
Panic (low): ≤ 1.0 mg/dl
Meth Formazan dye
Storage Refrigerate
Com Avoid hemolyzed samples

Setup Daily
Stat Yes

MEASLES, IgG

CPT 86765
Dept Microbiology
Spec gold SST
Ref Positive
 Panic (high): N/A
 Panic (low): N/A
Meth Enzyme immunoassay
Storage Refrigerate
Setup 2 x/week
Stat No

MICROALBUMIN, RANDOM URINE

CPT 82043, 82044
Dept Chemistry
Spec 3ml random urine
Ref See report
 Panic (high): N/A
 Panic (low): N/A
Meth Immunochemistry
Storage Refrigerate
Setup Daily
Stat No

MONO TEST

CPT 86308
Dept Microbiology
Spec gold SST
Ref Negative
 Panic (high): N/A
 Panic (low): N/A
Meth Latex agglutination
Storage Refrigerate
Setup Daily
Stat Yes

MIXING STUDIES, PT

CPT 85610
Dept Hematology
Spec 2.7 ml blue top containing 3.2% sodium citrate
Ref See reference range for PTT at end of test list
 Panic (high): N/A
 Panic (low): N/A
Meth Photo-optical clot detection
Storage Deliver to lab ASAP
Com Tube must be filled adequately (3/4 full) to prevent test result errors due to dilution of blood with excessive anticoagulant or under anticoagulation.
 Discontinue anticoagulant therapy 24 hours before

specimen collection

Setup Daily
Stat Yes

MIXING STUDIES, PTT

CPT 85732
Dept Hematology
Spec 2.7 ml blue top containing 3.2% sodium citrate
Ref See reference range for PTT at end of test list
Panic (high): N/A
Panic (low): N/A
Meth Photo-optical clot detection
Storage Deliver to lab ASAP
Com Tube must be filled adequately (3/4 full) to prevent test result errors due to dilution of blood with excessive anticoagulant or undercoagulation
 Discontinue anticoagulant therapy 24 hours before specimen collection
Setup Daily
Stat Yes

MUMPS, IgG

CPT 86735
Dept Microbiology
Spec gold SST
Ref Positive
Panic (high): N/A
Panic (low): N/A
Meth Enzyme immunoassay
Storage Refrigerate
Setup 2 x / week
Stat No

NH3 (AMMONIA)

CPT 82140
Dept Chemistry
Spec Dark green / mint green top tube on ice
Ref 9-30 umol/L
Panic (high): N/A
Panic (low): N/A
Meth Bromphenol blue
Storage Transport on ice to lab immediately
Com Must be on ice and submitted immediately to the laboratory.
Setup Daily
Stat Yes
XRef Ammonia

NEONATAL BILIRUBIN

CPT 82247
Dept Chemistry
Spec gold SST or amber fingerstick serum separator
Ref 1.0 – 10.5 mg/dL (0-14 days only)
Panic (high): ≥ 12.0 mg/dl
Panic (low): N/A
Meth Azobilirubin chromophore
Storage Protect from light
Com Avoid hemolyzed samples
Setup Daily
Stat Yes

OCCULT BLOOD

CPT 82270
Dept Microbiology
Spec Stool
Ref Negative
Panic (high): N/A
Panic (low): N/A
Meth Hemocult card
Storage Room temperature
Setup Daily
Stat Yes
XRef Guaiac, Stool

OCCULT BLOOD, GASTRIC

CPT 82271
Dept Microbiology
Spec Gastric Aspirate/Vomit
Ref Negative
Panic (high): N/A
Panic (low): N/A
Meth Gastrocult card
Storage Room temperature
Setup Daily
Stat Yes

OSMOLARITY/OSMOLALITY SERUM

CPT 83930
Dept Chemistry
Spec gold SST
Ref 280-295 mosm/kg
Panic (high): ≥ 350 mosm/kg
Panic (low): N/A
Meth Freezing point depression
Com Deliver to lab ASAP
Setup Daily
Stat Yes

OSMOLARITY/OSMOLALITY URINE

CPT 83935
Dept Chemistry
Spec random urine
Ref 500-800 mosm/kg
Panic (high): N/A
Panic (low): N/A
Meth Freezing point depression
Com Deliver to lab ASAP
Setup Daily
Stat Yes

PACKED CELLS

CPT Possible codes: P9040, P9016, P9038, P9051, P9058
Dept Blood Bank
Spec N/A
Ref N/A
Panic (high): N/A
Panic (low): N/A
Meth N/A
Com Indicate number of units needed. ABO/Rh prior to administration. Blood Consent required.
Setup Daily
Stat Yes

PARATHYROID HORMONE, INTACT

CPT 83970
Dept Chemistry
Spec 4.0 ml lavender top tube
Ref 7.5 – 53.5 pg/mL
Panic (high): N/A
Panic (low): N/A
Meth Chemiluminescent
Storage Process immediately or freeze plasma at -20° C if not tested immediately
Setup Daily
Stat No
XRef PTH, Intact

PCT / PROCALCITONIN

CPT 84145
Dept Chemistry
Spec 2 ml plasma from a Lithium heparin tube
Ref See report
Panic (high): N/A
Panic (low): N/A
Meth Enzyme Immunoassay
Storage Processed immediately

Setup Daily
Stat Yes
XRef Procalcitonin

PERCENT SATURATION

CPT N/A
Dept Chemistry
Spec gold SST
Ref 20-25%
 Panic (high): N/A
 Panic (low): N/A
Meth See Fe/TIBC
Storage Refrigerate
Com Must have iron and TIBC to calculate this test.
Setup Daily
Stat No
XRef Transferrin Saturation

pH – Fluid

CPT 83986
Dept Hematology
Spec Fluid in plain tube with no preservative or anticoagulant
Ref N/A
 Panic (high): N/A
 Panic (low): N/A
Meth Visual reagent strip
Storage Room temp up to 24 hours: 2-8 degrees C up to 14 days
Setup Daily
Stat Yes

PHENOBARBITOL

CPT 80184
Dept Chemistry
Spec gold SST
Ref 15-40 ug/ml
 Panic (high): ≥ 50 ug/ml
 Panic (low): N/A
Meth Competitive G6PDH binding
Storage Refrigerate
Setup Daily
Stat Yes

PHENYTOIN

CPT 80185
Dept Chemistry
Spec plain red top
Ref 10-20 ug/ml
 Panic (high): ≥ 30 ug/ml
 Panic (low): N/A
Meth Phenytoin peroxidase conjugate

Storage Refrigerate

Com Aliquot serum into separate vial

Setup Daily

Stat Yes

XRef Dilantin (Phenytoin)

PHOSPHORUS-SERUM

CPT 84100

Dept Chemistry

Spec gold SST

Ref 2.5-4.5 mg/dl

Panic (high): N/A

Panic (low): ≤ 1.5 mg/dl

Meth Ammonium molybdate

Storage Refrigerate

Com Avoid hemolyzed samples

Setup Daily

Stat Yes

PHOSPHORUS-URINE

CPT 84105

Dept Chemistry

Spec 24 hour urine collection on ice or kept refrigerated

Ref 0.35-1.0 grams/24 hours

Panic (high): N/A

Panic (low): N/A

Meth Ammonium molybdate

Storage Refrigerate

Setup Daily

Stat No

PLATELET PHERESIS

CPT Possible codes: P9035, P9055, P9037, P9034, P9036, P9053

Dept Blood Bank

Spec N/A

Ref N/A

Panic (high): N/A

Panic (low): N/A

Meth N/A

Com Indicate number of units needed. ABO/Rh prior to administration. Blood Consent required

Setup Daily

Stat Yes

XRef Single Donor Platelets

POTASSIUM (K)

CPT 84132

Dept Chemistry

Spec gold SST

Ref 3.5-5.1 mmol/L

Panic (high): ≥ 6.0 mmol/L

Panic (low): ≤ 2.8 mmol/L

Meth Ion Selective Electrode
Storage Refrigerate
Com Specimen must not be hemolyzed
Setup Daily
Stat Yes
XRef K

POTASSIUM-URINE

CPT 84133
Dept Chemistry
Spec Timed or random urine specimen
Ref No normal ranges for random specimens.
 25-120 mmol/24 hours
Panic (high): N/A
Panic (low): N/A
Meth Ion Selective Electrode
Storage Refrigerate
Setup Daily
Stat Yes

PREGNANCY SERUM-QUALITATIVE

CPT 84703
Dept Chemistry
Spec gold SST
Ref Negative
Panic (high): N/A
Panic (low): N/A
Meth Monoclonal antibody
Storage Refrigerate
Setup Daily
Stat Yes
XRef BHCG-Qualitative

PREGNANCY SERUM-QUANTITATIVE

CPT 84702
Dept Chemistry
Spec gold SST
Ref See report
Panic (high): N/A
Panic (low): N/A
Meth Chemiluminescent
Storage Refrigerate
Setup Daily
Stat Yes
XRef BHCG-Quantitative-Serum

PREGNANCY-URINE

CPT 81025
Dept Hematology
Spec First morning void preferred. (Contains the highest concentration of HCG. Otherwise any urine specimen, at least 1 ml)
Ref Negative
Panic (high): N/A
Panic (low): N/A
Meth Rapid chromatographic immunoassay
Storage Room Temp; Refrigerate between 2 – 8 degrees C up to 48 hours
Setup Daily
Stat Yes
XRef Urine Pregnancy

PROCALCITONIN

CPT 84145
Dept Chemistry
Spec 2 ml plasma from a Lithium heparin tube
Ref See report
Panic (high): N/A
Panic (low): N/A
Meth Enzyme Immunoassay
Storage Processed immediately
Setup Daily
Stat Yes
XRef PCT

PROSTATIC SPECIFIC ANTIGEN

CPT 84153
Dept Chemistry
Spec gold SST
Ref 0.0-4.0 ng/ml
Panic (high): N/A
Panic (low): N/A
Meth Chemiluminescent
Storage Refrigerate
Com Avoid hemolysis
Setup Daily
Stat No
XRef PSA

PROTEIN-CSF

CPT 84155
Dept Chemistry
Spec CSF fluid collected by physician
Ref 12-60 mg/dl
Panic (high): N/A
Panic (low): N/A
Meth Modified biuret

Storage Refrigerate

Com Avoid hemolyzed samples, positive bias with contrast media

Setup Daily

Stat Yes

PROTHROMBIN TIME/PROTIME + INR

CPT 85610

Dept Hematology

Spec 2.7 ml blue top containing 3.2% sodium citrate

Ref Protime: See reference range at end of test list; INR: 0.8 – 1.4

Panic (high): ≥18 seconds no therapy/
≥ 60 seconds with therapy
INR ≥ 5.0

Panic (low): N/A

Meth Photo-optical clot detection

Storage Room temp up to 24 hours; centrifuged or uncentrifuged

Com Tubes must be filled adequately (3/4 full) to prevent test result errors due to dilution of blood with excessive anticoagulant or under anticoagulation.

Setup Daily

Stat Yes

**PROTHROMBIN TIME/PROTIME + INR,
Patient on Anticoagulant**

CPT 85610

Dept Hematology

Spec 2.7 ml blue top containing 3.2% sodium citrate

Ref Protime: 23.6 – 41.5; INR: 2.0 – 3.5

Panic (high): PT ≥ 60 seconds with therapy
INR ≥ 5.0

Panic (low): N/A

Meth Photo-optical clot detection

Storage Room temp up to 24 hours; centrifuged or uncentrifuged

Com Tubes must be filled adequately (3/4 full) to prevent test result errors due to dilution of blood with excessive anticoagulant or under anticoagulation.

Setup Daily

Stat Yes

PSA

CPT 84153

Dept Chemistry

Spec gold SST

Ref 0.0-4.0 ng/ml

Panic (high): N/A

Panic (low): N/A

Meth Chemiluminescent

Storage Refrigerate

Com Avoid hemolysis

Setup Daily
Stat No
XRef Prostatic Specific Antigen

PTH (PARATHYROID HORMONE), INTACT

CPT 83970
Dept Chemistry
Spec 4.0 ml lavender top tube
Ref 7.5 – 53.5 pg/mL
Panic (high): N/A
Panic (low): N/A
Meth Chemiluminescent
Storage Process immediately or freeze plasma at -20° C if not tested immediately
Setup Daily
Stat No
XRef Parathyroid Hormone, Intact

PTT / APTT

CPT 85730
Dept Hematology
Spec 2.7 ml blue top containing 3.2% sodium citrate
Ref See reference ranges at end of test list
Panic (high): ≥ 45 seconds no therapy
 ≥ 86 seconds with therapy
Panic (low): N/A
Meth Photo-optical clot detection
Storage Room temperature up to four hours
Com Tube must be filled adequately (3/4 full) to prevent test result errors due to dilution of blood with excessive anticoagulant or undercoagulation
Setup Daily
Stat Yes
XRef Activated Partial Thromboplastin Time

RETICULOCYTE / RETIC COUNT

CPT 85045
Dept Hematology
Spec 4 ml lavender top
Ref > 14 days old: 0.5% to 2.5%
Panic (high): N/A
Panic (low): N/A
Meth Sysmex – flow cytometry with fluorescence
Storage Room temp up to 24 hrs; refrigerate between 2° and 8° C up to 48 hours
Setup Daily
Stat Yes

RF (RHEUMATOID FACTOR)

CPT 86430
Dept Microbiology
Spec gold SST
Ref Negative

Panic (high): N/A

Panic (low): N/A

Meth Latex agglutination

Storage Refrigerate

Com Titer performed on positive

Setup Three times a week

Stat No

XRef Rheumatoid Factor

RHEUMATOID FACTOR / RF

CPT 86430

Dept Microbiology

Spec gold SST

Ref Negative

Panic (high): N/A

Panic (low): N/A

Meth Latex agglutination

Storage Refrigerate

Com Titer performed on positive

Setup Three times a week

Stat No

XRef RF

RHOGAM / Rh Immune Globulin

CPT J2790

Dept Blood Bank

Spec N/A

Ref N/A

Panic (high): N/A

Panic (low): N/A

Meth N/A

Com Perform Type & Screen prior to administration.

Blood Consent required

Setup Daily

Stat Yes

RPR with reflex

CPT 86592

Dept Microbiology

Spec gold SST

Ref Non-reactive

Panic (high): N/A

Panic (low): N/A

Meth Reagin

Storage Refrigerate

Setup 3 times a week

Stat No

Com For reactive results: Titer performed in-house and FTA sent to reference lab

RSV, Rapid

CPT 87807
Dept Microbiology
Spec Nasopharyngeal swab
Ref Negative
 Panic (high): N/A
 Panic (low): N/A
Meth Fluorescent immunoassay
Storage Refrigerate
Setup Daily
Stat Yes

RUBELLA ANTIBODY

CPT 86762
Dept Chemistry
Spec gold SST
Ref Positive
 Panic (high): N/A
 Panic (low): N/A
Meth Chemiluminescent
Storage Refrigerate
Setup Daily, as needed
Stat No

SALICYLATES

CPT 80196
Dept Chemistry
Spec gold SST
Ref Therapeutic range 0-200 mg/L
 Panic (high): ≥ 300 mg/L
 Panic (low): N/A
Meth Catechol + MBTH + O₂
Storage Refrigerate
Setup Daily
Stat Yes
XRef Aspirin

SHIGA TOXIN TEST

CPT 87427
Dept Microbiology
Spec MacConkey broth
Ref Negative
Meth Immunochromatographic rapid test
Storage Refrigerate

Setup Twice a week
Stat No

SICKLE CELL SCREEN

CPT 85660
Dept Hematology
Spec 4 ml lavender
Ref Negative
 Panic (high): N/A
 Panic (low): N/A
Meth Solubility test
Storage Refrigerate; stable between 2 to 8 degrees C for three weeks
Setup Daily
Stat Yes

SINGLE DONOR PLATELETS

CPT Possible codes: P9035, P9055, P9037, P9034, P9036, P9053
Dept Blood Bank
Spec N/A
Ref N/A
 Panic (high): N/A
 Panic (low): N/A
Meth N/A
Com Indicate number of units needed. ABO/Rh prior to administration. Blood Consent required
Setup Daily
Stat Yes
XRef Platelet Pheresis

SODIUM (NA)-SERUM

CPT 84295
Dept Chemistry
Spec gold SST
Ref 137-145 mmol/L
 Panic (high): ≥160 mmol/L
 Panic (low): ≤ 120 mmol/L
Meth Ion Selective Electrode
Storage Refrigerate
Setup Daily
Stat Yes

SODIUM (NA)-URINE

CPT Random : 84310, 24 hour: 84300
Dept Chemistry
Spec 10 ml Timed or random urine specimen in U/A tube or cup
Ref 24 hour specimen: 40-220 mmol/L
 Random: No normal ranges
 Panic (high): N/A
 Panic (low): N/A
Meth Ion Selective Electrode
Storage Refrigerate

Setup Daily
Stat Yes

T3 (RESIN UPTAKE)

CPT 84479
Dept Chemistry
Spec gold SST
Ref 24 – 41 %
Panic (high): N/A
Panic (low): N/A
Meth Chemiluminescent
Storage Refrigerate
Setup Daily
Stat No

T3 FREE

CPT 84481
Dept Chemistry
Spec 2ml serum from a gold SST
Ref 2.77-5.27 pg/ml
Panic (high): N/A
Panic (low): N/A
Meth Chemiluminescent
Storage Refrigerate
Setup Daily
Stat No

T3 TOTAL

CPT 84480
Dept Chemistry
Spec 2ml serum from a gold SST
Ref 97 – 169 ng/dl
Panic (high): N/A
Panic (low): N/A
Meth Competitive immunoassay
Storage Refrigerate
Setup Daily
Stat No
XRef T3

T4

CPT 84436
Dept Chemistry
Spec gold SST
Ref 5.5- 11.0 ug/dl
Panic (high): N/A
Panic (low): N/A
Meth Chemiluminescent
Storage Refrigerate

Setup Daily
Stat No
XRef Thyroxine

T4 Free

CPT 84439
Dept Chemistry
Spec gold SST
Ref 0.78 – 2.19 ng/dl
Panic (high): N/A
Panic (low): N/A
Meth Chemiluminescent
Storage Refrigerate
Setup Daily
Stat No
XRef Thyroxine, Free

T7 (FTI)

CPT N/A
Dept Chemistry
Spec gold SST
Ref 1.7 – 3.9 ug/dL
Panic (high): N/A
Panic (low): N/A
Meth Calculation
Storage Refrigerate
Com Must order T3 and T4 in order to get a T7.
Setup Daily
Stat No
XRef Free Thyroxine Index

TEGRETOL (CARBAMAZEPINE)

CPT 80156
Dept Chemistry
Spec gold SST
Ref 4.0 – 12.0 ug/ml
Panic (high): ≥ 15 ug/ml
Panic (low): N/A
Meth CRBM-peroxidase conjugate
Storage Refrigerate
Setup Daily
Stat Yes
XRef Carbamazepine

THEOPHYLLINE

CPT 80198
Dept Chemistry
Spec gold SST
Ref 10-20 ug/ml
Panic (high): ≥ 20.1 ug/ml
Panic (low): N/A
Meth P-nitrophenyl phosphate

Storage Refrigerate

Setup Daily

Stat Yes

THROAT STREP SCREEN, RAPID

CPT 86588

Dept Microbiology

Spec Throat swab - culturette

Ref Negative for Group A beta strep by immunoassay

Panic (high): N/A

Panic (low): N/A

Meth Immunoassay, FIA

Storage Room Temp

Setup Daily

Stat Yes

THYROID PROFILE

CPT See **Individual Tests**

Profile TSH, T4 Free

Dept Chemistry

Spec gold SST

Ref See individual tests

Panic (high): See individual tests

Panic (low): N/A

Meth See individual tests

Storage Refrigerate

Setup Daily

Stat No

THYROID STIMULATING HORMONE (TSH)

CPT 84443

Dept Chemistry

Spec gold SST

Ref 0.47 - 4.68 mIU/L

Panic (high): N/A

Panic (low): N/A

Meth Chemiluminescent

Com No

Setup Daily

Stat No

XRef TSH

THYROXINE (T4)

CPT 84436

Dept Chemistry

Spec gold SST

Ref 5.5 - 11 ug/dl

Panic (high): N/A

Panic (low): N/A

Meth Chemiluminescent

Storage Refrigerate

Setup Daily
Stat No
XRef T4

THYROXINE, Free

CPT 84439
Dept Chemistry
Spec gold SST
Ref 0.78 – 2.19 ng/dl
Panic (high): N/A
Panic (low): N/A
Meth Chemiluminescent
Storage Refrigerate
Setup Daily
Stat No
XRef T4, Free

TIBC / TOTAL IRON-BINDING CAPACITY

CPT 83550
Dept Chemistry
Spec gold SST
Ref Male: 261-462 ug/dl
 Female: 265-497 ug/dl
Panic (high): N/A
Panic (low): N/A
Meth FeCl₃ + binding dye
Storage Refrigerate
Com Avoid hemolysis
Setup Daily
Stat No
XRef Total Iron Binding Capacity

TISSUE EXAMINATION, BIOPSY, ROUTINE

CPT Based on specimen complexity
Dept Histology
Spec Tissue specimen
Ref N/A
Panic (high): N/A
Panic (low): N/A
Meth N/A
Storage Submit in 10% formalin (available from Histology Lab).
 Specimen stable when submitted in formalin
Setup Submitted to Valhalla Mon-Fri
Stat No

TISSUE EXAMINATION, SPECIAL STUDIES

CPT Based on test orders and/or tissue complexity
Dept Histology
Spec Contact Histology for instructions for special preparation/collection,
 if required
Ref N/A

Panic (high): N/A

Panic (low): N/A

Meth N/A

Storage Submit immediately to Histology

Setup Submitted to Valhalla Mon-Fri

Com Testing performed at Valhalla Lab

Stat No

TOBRAMYCIN

CPT 80200

Dept Chemistry

Spec gold SST

Ref **Panic (high):** Toxic peak: ≥ 12.0 ug/ml

Toxic trough: ≥ 2.0 ug/ml

Panic (low): N/A

Meth Tobra/Glycose-6-phosphate dehydrogenase conjugate

Storage Refrigerate

Setup Daily

Com No normal ranges for random specimens. Trough is drawn

15 minutes prior to dose and peak drawn 30 minutes after

IV dose and one hour after IM dose.

Deliver to lab ASAP

Stat Yes

TOTAL IRON-BINDING CAPACITY / TIBC

CPT 83550

Dept Chemistry

Spec gold SST

Ref Male: 261-462 ug/dl

Female: 265-497 ug/dl

Panic (high): N/A

Panic (low): N/A

Meth FeCl₃ + binding dye

Storage Refrigerate

Com Avoid hemolysis

Setup Daily

Stat No

XRef TIBC

TOTAL PROTEIN-SERUM

CPT 84155

Dept Chemistry

Spec gold SST

Ref 6.3 - 8.2 g/dl

Panic (high): N/A

Panic (low): N/A

Meth Biuret with lithium hydroxide

Storage Refrigerate

Setup Daily

Stat Yes

TOTAL PROTEIN-URINE, 24 HOUR

CPT 84156
Dept Chemistry
Spec 24 hour urine collected on ice or refrigerated
Ref 25-150 mg/24 hours
 Panic (high): N/A
 Panic (low): N/A
Meth Biuret with lithium hydroxide
Storage Refrigerate
Setup Daily
Stat No

TOTAL PROTEIN-URINE, RANDOM

CPT 84156
Dept Chemistry
Spec 25 ml random urine
Ref N/A
 Panic (high): N/A
 Panic (low): N/A
Meth Biuret with lithium hydroxide
Storage Refrigerate
Setup Daily
Stat No

TOUCH PREPS

CPT 88329
Dept Histology
Spec Lymph node
Ref N/A
 Panic (high): N/A
 Panic (low): N/A
Storage Refrigerate
Setup Mon – Fri/day shift; Call Histology to schedule, if needed outside of the setup days/hours
Com Submit whole specimen on saline pad in sterile container
Stat Yes
XRef Lymph Node for Imprints

TRANSFERRIN SATURATION

CPT N/A
Dept Chemistry
Spec gold SST
Ref 20-25%
 Panic (high): N/A
 Panic (low): N/A
Meth See Fe/TIBC
Storage Refrigerate
Com Must have iron and TIBC to calculate this test.

Setup Daily
Stat No
XRef Percent Saturation

TRANSFUSION REACTION WORKUP

CPT 86078
Dept Blood Bank
Spec 7 ml lavender top tube, hand labeled with name, MR#, date, time, collector's initials AND next voided urine specimen
Ref N/A
Panic (high): N/A
Panic (low): N/A
Com Blood bank must be called immediately when reaction occurs. Blood bag & tubing must be sent to the Blood Bank.
Setup Daily
Stat Yes

TRICHOMONAS PREP

CPT 87210
Dept Microbiology
Spec Genital swab in saline (tubes obtained from Microbiology)
Ref Negative
Panic (high): N/A
Panic (low): N/A
Meth Microscopic analysis, wet prep
Com Room Temp
Setup Daily
Stat Yes

TRIGLYERIDES

CPT 84478
Dept Chemistry
Spec gold SST
Ref <150 mg/dl
Panic (high): N/A
Panic (low): N/A
Meth Glycerol kinase peroxidase
Com Avoid glycerol or soap at collection site
Storage Refrigerate
Setup Daily
Stat Yes

TROPONIN I

CPT 84484
Dept Chemistry
Spec gold SST
Ref 0.0 – 0.034 ng/ml
Panic (high): ≥ 0.120 ng/ml
Panic (low): N/A

Meth Chemiluminescent
Storage Refrigerate
Setup Daily
Stat Yes

TSH

CPT 84443
Dept Chemistry
Spec gold SST
Ref 0.47-4.68 mIU/L
Panic (high): N/A
Panic (low): N/A

Meth Chemiluminescent
Storage Refrigerate
Setup Daily
Stat No
XRef Thyroid Stimulating Hormone

TYPE AND SCREEN

Profile ABO, Rh, Indirect Coombs
CPT ABO 86900, Rh 86901, Ab screen 86850
Dept Blood Bank
Spec 7 ml lavender top, hand labeled with name, MR #,
date, time, collector's initials
Ref N/A
Panic (high): N/A
Panic (low): N/A

Storage Refrigerate
Setup Daily
Stat Yes

U/A / URINALYSIS

Profile Appearance, color, specific gravity, pH, protein,
glucose, ketone, bilirubin, occult blood,
urobilinogen, leukocyte esterase, and nitrite.
Microscopic included upon request or when specific
results fall out of normal ranges.

CPT 81003
Dept Hematology
Spec 14 ml random urine (early morning void preferred)
Ref See reference ranges at end of test list
Panic (high): N/A
Panic (low): N/A

Meth Automated reagent strip reader, microscopic analysis
Storage Submit to lab within two hours of collection or
refrigerate up to 24 hours if delayed
Setup Daily
Stat Yes

URIC ACID-SERUM

CPT 84550
Dept Chemistry
Spec gold SST
Ref Male: 3.5-8.5 mg/dl; Female: 2.5-6.2 mg/dl
Panic (high): N/A
Panic (low): N/A
Meth Urease
Storage Refrigerate
Setup Daily
Stat Yes

URIC ACID-URINE

CPT 84560
Dept Chemistry
Spec 24 hour urine collection on ice or kept in refrigerator.
Ref 0.25-0.75 gm/24 hours
Panic (high): N/A
Panic (low): N/A
Meth Urease
Storage Refrigerate
Setup Daily
Stat No

URINE DRUG SCREEN

CPT 80101 X 8
Prof Includes Amphetamine, Barbiturates, Benzodiazepines, Cocaine, Methadone, Opiates, Oxycodone, PCP and THC
Dept Chemistry
Spec 10 ml Urine in 13 x 72 plastic tube with top
Ref Negative
Panic (high): N/A
Panic (low): N/A
Meth Enzyme Immunoassay
Storage Refrigerate
Com Test results cannot be used for legal purposes
Setup Daily
Stat Yes
XRef Drug Screen Urine

URINE PREGNANCY

CPT 81025
Dept Hematology
Spec First morning void preferred. (Contains the highest concentration of HCG. Otherwise any urine specimen at least 1 ml)
Ref Negative
Panic (high): N/A
Panic (low): N/A
Meth Monoclonal antibody

Storage Room Temp; refrigerate between 2 to 8 degrees C up to 48 hours if delay
Setup Daily
Stat Yes
XRef Pregnancy - Urine

VALPROIC ACID (DEPAKENE)

CPT 80164
Dept Chemistry
Spec gold SST
Ref 50-120 ug/ml
Panic (high): ≥ 125 ug/ml
Panic (low): N/A
Meth Valp/Glucose-6-Phosphate dehydrogenase
Storage Refrigerate
Setup Daily
Stat Yes
XRef Depakene, Depakote

VANCOMYCIN

CPT 80202
Dept Chemistry
Spec gold SST
Ref No normal ranges for random specimens.
 Suggested therapeutic trough >10 ug/ml.
 Suggested therapeutic peak 30-40 ug/ml
Panic (high): Toxic peak: ≥ 45 ug/ml
 Toxic trough: ≥ 15 ug/ml
Panic (low): N/A
Meth Vanco-Ab/Glucose-6-phosphate-dehydrogenase
Storage Refrigerate
Com No normal ranges for random specimens. Trough is drawn
 15 minutes prior to dose and peak drawn 30 minutes after IV
 dose and one hour after IM dose.
Setup Daily
Stat Yes

VITAMIN D 25-OH TOTAL

CPT 82306
Dept Chemistry
Spec gold SST
Ref 30-100 ng/ml
Panic (high): N/A
Panic (low): N/A
Meth Competitive immunoassay
Storage Refrigerate
Setup Daily
Stat No

Revised 5/2019

**HEMATOLOGY / URINALYSIS
NORMAL / REFERENCE RANGES**

PARAMETER / UNIT	AGE	MALE	FEMALE
WBC x 10 ³ /uL (K/uL)	0 - < 1.0 month	9.0 - 30.0	9.0 - 30.0
	1 mo - < 2 yrs	6.0 - 14.0	6.0 - 14.0
	2 yrs - < 9 yrs	4.0 - 12.0	4.0 - 12.0
	9 yrs - Adult	4.0 - 10.5	4.0 - 10.5
NRBC %	1 day - 3 days	0.0 - 3.0	0.0 - 3.0
	4 days to Adult	0.0 - 0.0	0.0 - 0.0
RBC x 10 ⁶ / uL (M/uL)	0 - < 1.0 month	4.1 - 6.7	4.1 - 6.7
	1 mo - < 2 yrs	3.8 - 5.4	3.8 - 5.4
	2 yrs - < 10 yr	4.0 - 5.3	4.0 - 5.3
	10 yrs - < 18 yrs	4.2 - 5.6	4.1 - 5.3
	18 yrs - Adult	4.7 - 6.0	3.8 - 5.2
HGB gm/dl	0 - < 1.0 month	14.0 - 22.0	14.0 - 22.0
	1 mo - < 2 yrs	10.5 - 14.0	10.5 - 14.0
	2 yrs - < 10 yr	11.5 - 14.5	11.5 - 14.5
	10 yrs - < 18 yrs	12.5 - 16.1	12.0 - 15.0
	18 yrs - Adult	13.5 - 17.0	11.4 - 15.1
HCT %	0 - < 1.0 month	42.0 - 66.0	42.0 - 66.0
	1 mo - < 2 yrs	32.0 - 42.0	32.0 - 42.0
	2 yrs - < 10 yr	33.0 - 43.0	33.0 - 43.0
	10 yrs - < 18 yrs	36.0 - 47.0	35.0 - 45.0
	18 yrs - Adult	38.0 - 51.0	36.0 - 46.0
MCV fl	0 - < 2.0 month	90.0 - 123.0	90.0 - 123.0
	2 mo - < 6 mo	77.0 - 115.0	77.0 - 115.0
	6 mo - < 2 yrs	74.0 - 108.0	74.0 - 108.0
	2 yrs - < 6 yrs	70.0 - 86.0	70.0 - 86.0
	6 yrs - < 12 yrs	75.0 - 87.0	75.0 - 87.0
	12 yrs - < 18 yrs	77.0 - 95.0	77.0 - 95.0
	18 yrs - Adult	80.0 - 98.0	80.0 - 98.0
MCH pg	All	26.0 - 34.0	26.0 - 34.0
MCHC gm/dl	All	32.0 - 36.0	32.0 - 36.0
RDW %	All	11.0 - 15.0	11.0 - 15.0
PLT x 10 ³ /uL (K/uL)	0 - < 1 yr	150 - 600	150 - 600
	1 yr - < 10 yr	150 - 500	150 - 500
	10 yr - Adult	150 - 400	150 - 400
MPV fl	All	8.5 - 13.0	8.5 - 13.0
Abs Neut x 10 ³ /uL (K/uL)	0 - < 14 days	5.0 - 21.0	5.0 - 21.0
	14 days - < 6 yrs	1.5 - 10.0	1.5 - 10.0
	6 yrs - < 18 yrs	1.5 - 8.5	1.5 - 8.5
	18 yr - Adult	2.0 - 8.4	2.0 - 8.4

Laboratory Master Test List / Test Data

PARAMETER / UNIT	AGE	MALE	FEMALE
Abs Imm Granx10 ³ /uL (K/uL)	All	0.0 – 0.1	0.0 – 0.1
Abs Lymph x10 ³ /uL (K/uL)	0 - < 18 yr	4.0 – 10.5	4.0 – 10.5
	18 yr – Adult	0.6 – 4.8	0.6 – 4.8
Abs Mono x 10 ³ /uL (K/uL)	0 - < 6 yr	0.3 – 2.4	0.3 – 2.4
	6 yr - < 18 yr	0.2 – 1.3	0.2 – 1.3
	18 yr – Adult	0.0 – 1.1	0.0 – 1.1
Abs Eos x 10 ³ /uL (K/uL)	0 - < 18 yrs	0.0 – 0.8	0.0 – 0.8
	18 yr – Adult	0.0 – 0.5	0.0 – 0.5
Abs Baso x 10 ³ /uL (K/uL)	All	0.0 – 0.3	0.0 – 0.3
Neutrophil (Manual) %	0 - < 6 yr	20 - 50	20 - 50
	6 yr - < 12 yr	30 - 70	30 - 70
	12 yr – Adult	50 - 80	50 - 80
Bands (Manual) %	All	0 - 2	0 - 2
Lymphocytes (Manual) %	0 - < 6 yr	30 - 70	30 - 70
	6 yr - < 12 yr	20 - 65	20 - 65
	12 yr – Adult	14 - 44	14 - 44
Lymphs, React (Manual)%	All	0 - 0	0 - 0
Monocytes (Manual) %	All	0 – 12	0 - 12
Eosinophils (Manual) %	All	0 – 7	0 - 7
Basophils (Manual) %	All	0 - 1	0 - 1
Retic %	0 - < 14 days	2.5 – 6.5	2.5 – 6.5
	14 days – Adult	0.5 – 2.5	0.5 – 2.5
ESR mm/hr	All	< 15	< 20
Sickle Cell	All	Negative	Negative
D-Dimer ng/mL	All	≤ 400 ng/mL	≤ 400 ng/mL
PT seconds	All	10.1 – 13.9	10.1 – 13.9
INR	All	0.8 – 1.4	0.8 – 1.4
PT (On coumadin) sec	All	23.6 – 41.5	23.6 – 41.5
INR (On coumadin)	All	2.0 – 3.5	2.0 – 3.5
PTT sec	All	23.3 – 32.9	23.3 – 32.9
PTT (On heparin) sec	All		
Low dose (cardiac)		50.0 – 70.9	50.0 – 70.9
High dose (acute thrombus)		60.0 – 100.9	60.0 – 100.9
FDP ugm/mL	All	< 10	< 10
Fibrinogen mg/dl	All	200 – 450	200 – 450

**URINALYSIS
NORMAL / REFERENCE RANGES**

PARAMETER / UNIT	AGE	MALE	FEMALE
Color	All	Yellow	Yellow
Clarity	All	Clear	Clear
Specific Gravity	All	1.003 – 1.030	1.003 – 1.030
pH	All	5.0 – 8.0	5.0 – 8.0
Leukocyte esterase	All	Negative	Negative
Nitrate	All	Negative	Negative
Protein mg / dL	All	Negative	Negative
Glucose mg / dL	All	Negative	Negative
Ketones mg / dL	All	Negative	Negative
Urobilinogen mg / dL	All	Normal	Normal
Bilirubin mg / dL	All	Negative	Negative
Blood uL	All	Negative	Negative
Microscopic WBC / HPF	All	0 – 5	0 - 5
Microscopic RBC / HPF	All	0 – 5	0 - 5
Squamous Epithelial / HPF	All	Occasional	Occasional
Renal Epithelial / HPF	All	Occasional	Occasional
Bacteria	All	Negative	Negative
Hyaline Casts / LPF	All	0 – 3	0 - 3
Urine hCG		N/A	Negative

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Hematology Critical Value Protocol

Test	Less than or equal to	Greater than or equal to
WBC	2.0 X 10 ³ /uL (K/uL)	30.0 X 10 ³ / uL (K/uL)
Hgb	7.0 gm/dl	18 gm/ dl
Hgb Age: Newborn to ≤ one month	9.0 gm/dl	25 gm/dl
Hct	20 %	55 %
Hct Age: Newborn to ≤ one month	28 %	67 %
Platelet	20 X10 ³ / uL (K/uL)	1,000 X10 ³ / uL (K/uL)
Neutrophilic bands Age: ≥1 month ≤ 18 years old		10%
PT (no therapy)		18 seconds
PT (with therapy)		60 seconds
INR		5.0
PTT (no therapy)		45 seconds
PTT (with therapy)		86 seconds

Unusual findings noted for the first time for the current visit (e.g., findings suggestive of blast cells, myeloproliferative disorders, etc.) are called to the nursing unit (inpatient) or physician (outpatient) and documented on report and in Critical Value Log. Such peripheral smears are reviewed by Pathologist as per protocol.

Previous Revisions: 2/1/19, 3/20/17, 5/5/2014, 10/17/2012