

Metro West Medical Center
LABORATORY TEST INFORMATION

ABO and Rh Type

Test Code:	ABO/RH
Specimen Requirement:	7 mL Blood
Container:	7 mL Pink
Availability:	24 hours a day, 7 days a week
Turnaround Time:	1-2 hours STATs within 60 minutes

Acetone

Test Code:	ACETNQL
Specimen Requirement:	Serum or Urine
Container:	Gel Barrier or Random Urine
Availability:	24 hours a day, 7 days/week
Turnaround Time:	within 60 minutes
Methodology:	Manual Test Strip
Reference Range:	Negative
Remarks:	All positive results are titered.

Acetaminophen

Test Code:	ACET
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	24 hours a day, 7 days/week
Turnaround Time:	within 60 minutes
Methodology:	FPIA
Reference Range:	10 - 20 ug/mL

Acid Fast Culture – Refer to Culture, Acid Fast

LABORATORY TEST INFORMATION

Acid Phosphatase

Test Code:	ACP
Testing Site:	Lab Corps
Specimen Requirement:	1 mL Serum
Container:	Plain Red Top, Do not use Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 Days
Methodology:	Colorimetric
Reference Range:	0.0 - 5.7 units/L
Remarks:	Specimen must be ON ICE. Spin within 1 hour and freeze serum.

Acute Hepatitis Panel - Refer to Hepatitis Panel, Acute

Albumin

Test Code:	ALB
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	24 hours a day, 7 days/week
Turnaround Time:	within 60 minutes
Methodology:	Spectrophotometric
Reference Range:	3.5 - 5.0 g/dL

Alanine Aminotransferase (ALT)

Test Code:	ALT
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	within 4 hours
Methodology:	Enzymatic
Reference Range:	Males: 10 - 44 U/L Females: 10 - 36 U/L

Alcohol, Ethyl

Test Code:	ALC
Specimen Requirement:	0.5 mL Serum or Urine
Container:	Gel Barrier or Random Urine
Availability:	24 hours a day, 7 days/week
Turnaround Time:	within 60 minutes
Methodology:	Enzymatic
Reference Range:	0 - 10 mg/dL

LABORATORY TEST INFORMATION

Aldolase

Test Code:	ALDOLASE
Testing Site:	Lab Corps
Specimen Requirement:	2.0 mL serum, free from hemolysis
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Kinetic UV
Reference Range:	1.2 – 7.6 units/L
Remarks:	Separate serum immediately after coagulation.

Alkaline Phosphatase

Test Code:	ALP
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	24 hours per day, 7 days a week
Turnaround Time:	within 4 hours
Methodology:	Enzymatic
Reference Range:	0 - 12 Yr: 1 - 454 U/L > 12 Yr: Females: 32 - 104 U/L Males: 45 - 122 U/L
Remarks:	Increased with bone growth and during the third trimester of pregnancy.

Alkaline Phosphatase Isoenzymes

Test Code:	ALPI
Testing Site:	Lab Corps
Specimen Requirement:	2.0 mL Serum Fasting Sample, Free from Hemolysis
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Electrophoresis
Reference Range:	See report
Remarks:	Includes Total, Intestinal, Bone, Liver, Macrohepatic, and Placental fractions.

LABORATORY TEST INFORMATION

Alpha 1 Antitrypsin

Test Code:	A1AT
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	Monday through Friday
Turnaround Time:	3 days
Methodology:	Nephelometry
Reference Range:	84 - 180 mg/dL

Alpha Feto Protein (Pregnancy)

Test Codes:	AFP4: 15.0 – 21.9 weeks AFPMS: 15.0 – 23.9 weeks
Testing Site:	Genzyme
Specimen Requirement:	2.0 mL Serum
Container:	Gel Barrier
Availability:	Monday through Saturday
Turnaround Time:	1 week
Methodology:	Enzyme Immunoassay
Remarks:	Requisition must include gestational age, maternal weight, multiple fetuses

Alpha Feto Protein (Tumor Marker)

Test Code:	AFPTM
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Electrochemiluminescence
Reference Range:	0 – 8.2 ng/mL

Allergen Screen (RAST)

Test Code:	RAST
Testing Site:	Quest Diagnostics
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	CAP Immuno method, Quantitative allergen specific IgE test
Remarks:	Specify allergens to be tested

LABORATORY TEST INFORMATION

ALT - Refer to Alanine Aminotransferase

Ammonia

Test Code:	AMON
Specimen Requirement:	0.5 mL Plasma
Container:	Lavender
Availability:	7 days/week
Turnaround Time:	Within 60 minutes
Methodology:	Enzymatic
Reference Range:	Method Specific Females: 11 - 51 umol/L Males: 16 – 60 umol/L
Remarks:	COLLECT ON ICE and deliver STAT.

Amylase

Test Code:	AML
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Within 4 hours
Methodology:	Enzymatic
Reference Range:	28 -100 U/L

Amylase Isoenzymes

Test Code:	AMYI
Testing Site:	Lab Corps
Specimen Requirement:	1.0 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Cellulose acetate electrophoresis
Remarks:	Includes the Total, Salivary, Pancreatic, and Macro Amylase fractions.

LABORATORY TEST INFORMATION

Antibody Identification

Specimen Requirement:	12 mL Blood
Container:	2 7 mL Pink top tubes (K2 EDTA)
Availability:	24 hours a day, 7 days a week
Turnaround Time:	within 24 hours
Remarks:	Routinely performed on all specimens with a positive antibody screen. Compatible blood may not be available until antibody identification is complete. Blood Bank technologists or Medical Director may be consulted regarding clinical significance of the results.

Antibody Screen (Indirect Coomb's Test)

Test Code:	ABSC
Specimen Requirement:	7 mL Blood
Container:	7 mL Pink (K2 EDTA)
Availability:	24 hours a day, 7 days a week
Turnaround Time:	1-4 hours; STATs within 1 hour ASAP within 3 hours
Reference Range:	Negative
Remarks:	If positive, an antibody identification will be performed. If negative, ABO compatible uncrossmatched blood may be transfused in emergencies with an extremely low likelihood of compatibility problems.

Antibody Titer

Test Code:	ABT
Specimen Requirement:	7 mL Blood
Container:	7 mL Pink (K2 EDTA)
Availability:	Monday through Friday, 8:00 am to 3:00 pm
Turnaround Time:	24 hours
Remarks:	This test is indicated for prenatal patients with clinically significant antibodies.

LABORATORY TEST INFORMATION

Anti Cardiolipin Antibody

Test Code:	CARD
Testing Site:	Lab Corps
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	ELISA
Remarks:	Includes IgG and IgM

Anti-DNA Screen, Double strand, Crithedia

Test Code:	DNA
Testing Site:	Quest Diagnostics
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Indirect Immunofluorescence
Reference Range:	See report

Anti-DNA, Single Strand

Test Code:	SDNA
Testing Site:	Lab Corps
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Enzyme Immunoassay
Reference Range:	Negative

LABORATORY TEST INFORMATION

Anti-Extractable Nuclear Antigen Screen

Test Code:	ENASCR
Specimen Requirement:	1.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Enzyme Immunosassay
Remarks:	Screens for RNP, Sm, SS-A, SS-B, Scl-70, Jo-1 Specify ENA antigens of interest, positive screens will be referred for antigens of interest.

Antigen Typing

Test Code:	AGTYPE
Specimen Requirement:	6.0 mL Blood
Container:	6.0 mL Pink (K ₂ EDTA)
Availability:	Mon – Fri
Turnaround Time:	Antigen dependant
Remarks:	Rare antigens will be sent to RIBC or ARC for testing

Anti-Gliadin Antibody

Test Code:	GLIAD
Testing Site:	Lab Corps
Specimen Requirements:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	ELISA
Reference Range:	Negative
Remarks:	Includes IgG and IgA antibodies

LABORATORY TEST INFORMATION

Anti-Microsomal Antibody, (Thyroid Peroxidase Ab's)

Test Code:	MA
Testing Site:	Lab Corps
Specimen Requirement:	1.0 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Chemiluminescence

Anti-Mitochondrial Antibodies

Test Code:	MIT
Testing Site:	Lab Corps
Specimen Requirement:	1.0 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	ELISA

Anti-Neutrophil Cytoplasmic Antibody (ANCA)

Test Code:	ANCA
Testing Site:	Lab Corps
Specimen Requirement:	1.0 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	IFA
Remarks:	Includes cytoplasmic and perinuclear antibodies

Anti-Nuclear Antibody (ANA)

Test Code:	ANA
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	Monday through Friday, run twice weekly
Turnaround Time:	2-5 days
Methodology:	Colorzyme
Reference Range:	< 1:40 (Negative)
Remarks:	Positive results are titered

LABORATORY TEST INFORMATION

Anti-Smooth Muscle

Test Code:	SM
Testing Site:	Lab Corps
Specimen Requirement:	1.0 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	ELISA
Reference Range:	Less than 1:19 (Negative)

ASCA – Refer to Saccharomyces Cerevisial Antibody

Anti-Streptolysin O Screen (ASO)

Test Code:	ASO
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	Monday through Friday, run 3 times weekly
Turnaround Time:	2-5 days
Methodology:	Latex Agglutination
Reference Range:	Negative

Anti Thrombin III

Test Code:	AT3
Testing Site:	Lab Corps
Specimen Requirement:	2.0 mL Frozen Plasma
Container:	2 Blue Top Tubes ON ICE
Availability:	Monday through Friday
Turnaround Time:	2 to 7 days
Methodology:	Functional
Reference Range:	See report
Remarks:	Send specimen to Lab ASAP. Plasma must be removed and frozen immediately

LABORATORY TEST INFORMATION

Aspartate Aminotransferase (AST)

Test Code:	AST
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Within 4 hours
Methodology:	Enzymatic
Reference Range:	Males: 10 - 44 U/L Females: 10 - 34 U/L

B12, Vitamin

Test Code:	B12
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	Monday – Friday
Turnaround Time:	Same day
Methodology:	Electrochemiluminescence
Reference Range:	211 - 946 pg/mL

Bacterial Vaginosis Test

Test Code:	BVT
Specimen:	Vaginal Fluid collected by swabbing the lower one-third of vaginal wall with a rayon CultureSwab. Submit separate swab for BV test, it cannot be used for additional testing.
Availability:	Daily
Reference Range:	Negative
Methodology:	Enzyme Production
Turn Around Time:	24 Hours
Remarks:	Do not submit swabs from patients who have been treated with vaginal cream or ointment products, or who have douched or used spermicides, vaginal lubricants, or feminine sprays within 72 hours of sampling. Insufficient sampling or sample from patient undergoing antimicrobial therapy may produce a false negative result.

LABORATORY TEST INFORMATION

Basic Metabolic Profile

Test Code:	BMP
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Within 4 hours
Reference Range:	See Individual Tests
Remarks:	Includes Na, K, Cl, CO ₂ , Anion Gap, Glu, BUN, Creatinine, Calcium

Bence Jones Protein - Refer to Immunofixation EP

Bilirubin

Test Code:	TBIL, NBIL
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Within 4 hours
Methodology:	Colorimetric
Reference Range:	Total: 0 - 1 Days: 1.0 - 8.0 mg/dL 2 Days: 1.0 - 12.0 3 - 5 Days: 1.0 - 10.0 6 - 12 Days: 1.0 - 5.0 Over 12 Days: 0.2 - 1.0 Direct: 0 - 22 Days: 0.0 - 1.0 mg/dL Over 22 Days: 0.0 - 0.2
Remarks:	NBIL for neonates, includes Direct Bilirubin TBIL includes Direct Bili when Total > 1.5 mg/dL.

Blood Bank Draw

Test Code:	BBDRAW
Specimen Requirement:	7 mL Blood
Container:	7 mL Pink (K2 EDTA)
Availability:	24 hours a day, 7 days a week
Remarks:	Specimens will not be tested unless orders are added. Specimens will be available for Type and Screen or crossmatch for 3 days.

LABORATORY TEST INFORMATION

Blood Urea Nitrogen (BUN)

Test Code:	BUN
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Within 4 hours
Methodology:	Enzymatic
Reference Range:	8 - 21 mg/dL
Remarks:	Available Stat, results within 1 hour of receipt

NT-proBNP (BNP)

Test Code:	BNP
Specimen Requirement:	Whole Blood
Container:	Light Green
Availability:	7 Days/week
Turnaround Time:	Within 4 hours
Methodology:	Fluorescent Immunoassay
Reference Range:	< 450 pg/mL
Remarks:	Sample is stable for 24 hours after collection.

Bordetella pertussis, Culture (See Culture, Bordetella pertussis)

Bordetella pertussis Antibody, IgG

Test Code:	PERTABST
Reference Lab:	State Laboratory
Specimen:	1.0 mL serum from Gel Barrier tube
Availability:	Monday through Friday
Reference Range:	Less than 1.0 mcg/mL
Methodology:	Enzyme Immunoassay
Turn Around Time:	2 weeks
Remarks:	Submit on patients 11 years or older and with duration of cough greater than 14 days. Submit with clinical history.

LABORATORY TEST INFORMATION

Borrelia burgdorferi Antibody Screen– Refer to Lyme Disease Antibody Screen

Borrelia burgdorferi Antibody, Western Blot – Refer to Lyme Disease Antibody, Western Blot

Buffy Coat

Test Code:	BUFFY
Specimen Requirement:	3 - 5 mL Whole Blood
Container:	Lavender
Availability:	Monday through Friday
Turnaround Time:	Same day
Methodology:	Manual

BVT – Refer to Bacterial Vaginosis Test

C3/C4 - Refer to Complement

CA 125

Test Code:	CA125
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Electrochemiluminescence
Reference Range:	0 – 34 U/mL

CA 15-3

Test Code:	CA15
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Electrochemiluminescence
Reference Range:	0 – 35 U/mL

LABORATORY TEST INFORMATION

CA 19-9

Test Code:	CA19-9
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Electrochemiluminescence
Reference Range:	0-37 U/mL

CA 27.29

Test Code:	CA27.29
Testing Site:	Lab Corps
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Competitive Inhibition Radioimmunoassay
Reference Range:	See report

Calcium

Test Code:	CA
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Within 4 hours
Methodology:	Spectrophotometric
Reference Range:	8.5 - 10.5 mg/dL

LABORATORY TEST INFORMATION

Calculus, Renal (Kidney Stone)

Test Code:	KST
Testing Site:	Laboratory for Stone Research
Specimen Requirement:	Calculi, any size acceptable
Container:	Random urine
Availability:	Monday through Friday
Turnaround Time:	1 week
Methodology:	Crystallographic examination by polarization microscopy and x-ray diffraction
Reference Range:	See Report

Carbamezapine (Tegretol)

Test Code:	CARB
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Same day
Methodology:	CEDIA
Reference Range:	4.0 - 10.0 mcG/mL

Carbon Dioxide (CO₂)

Test Code:	CO₂
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Within 4 Hours
Methodology:	Enzymatic
Reference Range:	24 - 32 mmol/L
Remarks:	Available Stat, results within 1 hour of receipt

LABORATORY TEST INFORMATION

Carcinoembryonic Antigen (CEA)

Test Code:	CEA
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	Monday through Saturday
Turnaround Time:	Same day
Methodology:	Electrochemiluminescence
Reference Range:	0.0 - 3.0 ng/mL for non-smokers 0.0 - 5.0 ng/mL for smokers

CBC (Complete Blood Count)

Test Code:	HP
Includes:	WBC, RBC, Hgb, Hct, Plt, Indices
Specimen Requirement:	3 - 5 mL Whole Blood
Container:	Lavender
Availability:	24 hours per day, 7 days a week
Turnaround Time:	2 hours
Methodology:	Automated Cell Counter
Reference Range:	See Table at end of Test Information
Remarks:	Available STAT, results within 15 minutes of receipt in the Lab.

CBC with Diff

Test Code:	CBC
Includes:	CBC (above) and Differential cell count
Specimen Requirements:	3 - 5 mL Whole Blood
Container:	Lavender
Availability:	24 hours/day, 7 days a week
Turnaround Time:	4 hours
Methodology:	Automated Cell Counter or Microscopic evaluation
Reference Range:	See Appendix
Remarks:	Manual differential is performed when requested or when results are abnormal.

Cardiolipin Antibody - Refer to Anti-cardiolipin Ab

LABORATORY TEST INFORMATION

CD4/CD8 Panel

Test Code:	CD4
Testing Site:	Lab Corps
Specimen Requirement:	10 mL Whole Blood
Container:	1 Lavender Tube and 1 Yellow ACD Tube
Availability:	Monday through Saturday
Turnaround Time:	3 days
Methodology:	Flow Cytometry
Remarks:	Blood must be stored at room temperature

Chlamydia and Gonorrhea Screen, APTIMA (Combo 2 Assay)

Test Code:	CHGCNAA – both Chlamydia and Gonorrhea CHNAA -Chlamydia only GCNAA –Gonorrhea only
Specimen:	Endocervical, Urethral (Males) Use APTIMA Unisex swab (purple label tube). Urine (male or female) Use APTIMA urine collection kit (yellow label tube). Collect a first-catch urine 20-30 ml of the initial urine stream . Do not urinate 1 hour prior to obtaining specimen.
Availability:	Run on: Monday and Thursday
Reference Range:	Negative for detection of Chlamydia trachomatis and Neisseria gonorrhoeae
Methodology:	APTIMA nucleic acid amplification
Turn Around Time:	1-3 days

Chlamydia and Gonorrhea Screen, PCR

Test Code:	CHGCPCR – both Chlamydia and Gonorrhea CHPCR – Chlamydia only GCPCR – Gonorrhea only
Reference Lab:	Specialty Lab.
Specimen:	Male urethral swab or female endocervical swab in universal transport media.
Availability:	Monday through Friday
Reference Range:	Not detected
Methodology:	Polymerase Chain Reaction, amplified DNA
Turn Around Time:	2 – 4 days

LABORATORY TEST INFORMATION

Chloride

Test Code:	CL
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Within 4 hours
Methodology:	Ion Selective Electrode
Reference Range:	98 - 106 mmol/L
Remarks:	Available Stat, results within 1 hour of receipt

Cholesterol

Test Code:	CHOL
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Within 4 hours
Methodology:	Enzymatic
Reference Range:	100 - 200 mg/dL
Remarks:	35% of CHD in Framingham study occurs at Cholesterol levels of 150-200 mg/dL.

Cidal Level, Peak and Trough

Test Code:	Peak - CIDALP Trough - CIDALT
Reference Lab:	Specialty Laboratories
Specimen:	>= 1.0 ml serum peak (30 minutes after completion of infusion for IV dose or 1 hour after intramuscular or oral dose.) >= 1.0 ml serum trough
Availability:	7 days/week
Reference Range:	In most instances, bacteriocidal titers (peak) of at least 1:8 are desirable.
Methodology:	Culture, serial tube dilution
Turn Around Time:	5-7 days
Remarks:	Order separately. Provide antimicrobial(s) patient is receiving, organism and source of organism. Indicate " peak " or " trough " on serums submitted.

LABORATORY TEST INFORMATION

Citrulline Peptide Antibody

Test Code:	CCP
Testing Site:	Lab Corps
Specimen Requirements:	1.0 mL Serum,
Container:	Gel Barrier
Availability:	7 Days/week
Turnaround Time:	3 Days
Methodology:	Enzyme Immunoassay
Reference Range:	See Report

CK MB

Test Code:	CKMB
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Within 4 hours
Methodology:	Electrochemiluminescence
Reference Range:	Total: 0.0 - 3.4 ng/mL %RI: 0.0 - 2.5 %
Remarks:	CKMB analyzed when total CK > 135 U/L %RI (Relative Index) calculated when Total CKMB > 3.4 ng/mL

Clostridium Difficile Toxin A + B Assay, Stool

Test Code:	CDIFF
Specimen:	Liquid stool in a sterile container Refrigerate or keep on ice
Availability:	Monday through Saturday
Reference Range:	No C. difficile Toxin detected
Methodology:	Enzyme immunoassay
Turn Around Time:	24 hours
Remarks:	Meconium may interfere with test - do not test specimens from infants less than 4 weeks old. Infants and cystic fibrosis patients have been shown to be asymptomatic carriers of toxigenic C. difficile with colonization rates as high as 50% in infants and 32% in CF patients. Always evaluate with clinical signs and symptoms.

LABORATORY TEST INFORMATION

Clozaril (Clozapine)

Test Code:	CLOZ
Testing Site:	Lab Corps
Specimen Requirement:	1.5 mL Serum
Container:	Plain Red Top Do not use Gel Barrier tubes
Availability:	7 days/week
Turnaround Time:	3 - 5 days
Methodology:	HPLC
Reference Range:	100 - 700 ug/ML
Remarks:	Includes Clozapine and Norclozapine

CMV Culture – Refer to Culture, CMV

CMV Screen - Refer to Cytomegalovirus Screen

CMP - Refer to Comprehensive Metabolic Panel

Cold Agglutinin

Test Code:	CAG
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	Monday through Friday
Turnaround Time:	2 days
Methodology:	Manual
Reference Range:	Negative

Comprehensive Metabolic Panel

Test Code:	CMP
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Within 4 hours
Remarks:	Includes Sodium, Potassium, Chloride, CO ₂ , BUN, Creatinine, Glucose, Albumin, Bilirubin, Calcium, Alkaline Phosphatase, Total Protein, ALT, AST

LABORATORY TEST INFORMATION

Copper

Test Code:	COPPER
Specimen Requirement	Whole Blood
Container:	Royal Dark Blue with No Additive
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Inductively coupled Plasma/Mass Spectrometry
Reference Range:	See report. Copper levels are high in patients taking contraceptives or estrogens and during pregnancy.
Remarks:	Restrict vitamin intake for 1 week prior to obtaining sample.

Cord Blood Workup

Test Code:	CORD
Specimen Requirement:	Cord Blood
Container:	Red Top Tube (not Gel Barrier)
Availability:	24 hours a day, 7 days per week
Turnaround Time:	1-4 hours; STAT < 60 minutes
Remarks:	Label with Baby's last name, medical record # and sex, mother's name, medical record #, and Blood Type.

Cortisol

Test Code:	CORT
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Electrochemiluminescence
Reference Range:	7 - 25 ug/dL (AM) 2 - 9 ug/dL (PM)
Remarks:	Cortisol levels exhibit diurnal variation

Creatine Kinase

Test Code:	CK
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Within 4 hours
Methodology:	Enzymatic
Reference Range:	Female: 24 - 173 U/L Male: 24 - 204 U/L

LABORATORY TEST INFORMATION

Creatinine

Test Code:	CREA
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Within 4 hours
Methodology:	Colorimetric
Reference Range:	Female: 0.5 - 1.0 mg/dL Male: 0.7 - 1.2 mg/dL
Remarks:	Available Stat, results within 1 hour of receipt

Creatinine Clearance

Test Code:	CRCL
Specimen Requirement:	0.5 mL Serum 24 Hour Urine Collection
Container:	Gel Barrier 24 Hour Urine Container
Availability:	7 days/week
Turnaround Time:	Within 4 hours
Methodology:	Colorimetric
Reference Range:	Males: 85 - 125 mL/min Females: 75 - 115 mL/min
Remarks:	Blood sample obtained during the time of urine collection.

C-Reactive Protein (CRP)

Test Code:	CRP
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	Monday through Friday
Turnaround Time:	1- 3 days
Methodology:	Nephelometry
Reference Range:	< 5.0 mg/L

CRP, High Sensitivity (Cardio-CRP, High Sensitivity)

Test Code:	CRPHS
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	Monday through Friday
Turnaround Time:	1 - 3 Days
Methodology:	Nephelometry

LABORATORY TEST INFORMATION

Reference Range: Low Risk: < 1.0 mg/L
Mod Risk: 1.0 – 3.0 mg/L
High Risk: > 3.0 mg/L

Crossmatch

Test Code: **XM**
Specimen Requirement: 7 mL Blood
Container: 7 mL Pink (K2 EDTA)
Availability: 24 hours a day, 7 days a week
Turnaround Time: 1-4 hours
STATs within 60 minutes
Remarks: The ordering physician's name is required on the requisition.

Cryptococcal, Antigen Detection, CSF

Test Code: **CRYP**
Specimen: Cerebral spinal fluid, >=0.5ml
Availability: Monday through Friday
Reference Range: Cryptococcal antigen not detected
Methodology: Latex agglutination
Turn Around Time: 24 hours
Remarks: Titers will be performed on all positives.

Cryptosporidium, Antigen Detection, Stool, DFA

Test Code: **CRYPSPAG**
Reference Lab: Lab Corps
Specimen: 10 gm fresh stool in a sterile container or fill to line in 10% formalin vial.
Availability: Tuesday and Friday
Reference Range: No Cryptosporidium oocysts seen
Methodology: Direct fluorescent antibody staining
Turn Around Time: 2 - 5 days

Cryoglobulin

Test Code: **CRYOG**
Specimen Requirement: 1.0 mL Serum
Container: **Plain Red Top**
Keep tube in a cup of warm water after collection and during transport to Lab.
Availability: 7 days/week
Turnaround Time: 2 days
Methodology: Manual
Reference Range: Negative

LABORATORY TEST INFORMATION

Culture, Acid Fast Bacilli

Test Code:	AFB
Reference Lab:	State Lab
Specimen:	Specimens other than urine, blood, and bone marrow collected in sterile container, i.e. CSF 2ml.
Availability:	Monday through Friday
Reference Range:	No Acid Fast Bacilli recovered in 60 days
Methodology:	Concentration smear and culture. Direct AFB smear performed in house. Positive specimens require additional incubation with identification by conventional methods or nucleic acid hybridization.
Turn Around Time:	Direct AFB smear in 24 hours. Preliminary smear results in 4 - 7 days. Negative cultures in 8 weeks.
Remarks:	Antibiotic susceptibility will be performed on M. tuberculosis isolates. AFB cultures will only be performed on CSF specimens if one of the following criteria is met: <ol style="list-style-type: none">1) glucose<502) protein>603) polys>104) patient is immunocompromised – notify Microbiology

Culture, Acid Fast Bacilli, Blood

Test Code:	AFBBLD
Reference Lab:	State Lab
Specimen:	Blood in 2 lavender top tubes.
Availability:	Monday through Friday
Reference Range:	No Acid Fast Bacilli recovered in 60 days
Methodology:	Concentration culture. Positive specimens require additional incubation with identification by conventional methods or nucleic acid hybridization.
Turn Around Time:	Preliminary smears not performed. Negative cultures in 8 weeks.
Remarks:	Antibiotic susceptibility will be performed on M. tuberculosis isolates.

Culture, Acid Fast Bacilli, Bonemarrow

Test Code:	AFBBM
Reference Lab:	State Lab
Specimen:	Bone marrow in 2 lavender top tubes.
Availability:	Monday through Friday
Reference Range:	No Acid Fast Bacilli recovered in 60 days

LABORATORY TEST INFORMATION

Methodology:	Concentration culture. Positive specimens require additional incubation with identification by conventional methods or nucleic acid hybridization.
Turn Around Time:	Preliminary smears not performed. Negative cultures in 8 weeks.
Remarks:	Antibiotic susceptibility will be performed on M. tuberculosis isolates.

Culture, Acid Fast Bacilli, Urine

Test Code:	AFBUR
Reference Lab:	State Lab
Specimen:	120 ml of urine in a sterile, screw capped plastic container.
Availability:	Monday through Friday
Reference Range:	No Acid Fast Bacilli recovered in 60 days
Methodology:	Concentration culture. Positive specimens require additional incubation with identification by conventional methods or nucleic acid hybridization.
Turn Around Time:	Preliminary smears not performed. Negative cultures in 8 weeks.
Remarks:	Antibiotic susceptibility will be performed on M. tuberculosis isolates.

Culture, Anaerobic (Identification only)

Test Code:	AN
Specimen:	Swab or fluid in Anaerobic transport medium only. Do not use aerobic transport.
Availability:	Daily
Reference Range:	No anaerobes isolated
Methodology:	Bacteriologic culture, anaerobic, with biochemical identification. Should be ordered in conjunction with aerobic culture.
Turn Around Time:	Preliminary in 72 hours, negative cultures in 3 to 5 days. Complete reports on anaerobes may take longer, dependant upon nature of organism.
Remarks:	Indicate source of specimen or any unusual organisms suspected such as Actinomyces.

LABORATORY TEST INFORMATION

Culture, Blood

Test Code:	BLD
Specimen:	10 ml of blood in both an aerobic and anaerobic blood culture bottle or 3 ml of blood in peds bottle, for use with pediatric patients and difficult draws.
Availability:	Daily
Reference Range:	No Growth
Methodology:	BacT Alert
Turn Around Time:	Preliminary reports in 24 hours. No growth reported at 5 days.
Remarks:	All positive results will be called. Antibiotic susceptibility will be performed on appropriate aerobic organisms isolated, at an additional charge. Specify if for yeast or moldlike fungi.

Culture, Blood for Tuberculosis – Refer to Acid Fast Bacilli, Blood

Culture, Blood for Mycobacteria – Refer to Acid Fast Bacilli, Blood

Culture, Body Fluid – Refer to Culture, Fluid

Culture, Bordetella pertussis

Test Code:	PERTCULT
Reference Lab:	Performed In-House All positive cultures are sent to State Lab for PCR testing.
Specimen:	Nasopharyngeal specimen on Orange cap Aimes w/charcoal swab, or State Lab Transport kit. Inoculate pertussis transport media.(if using transport kit). Fill out patient history.
Availability:	7 days/week
Reference Range:	PCR - None Detected Culture – none found
Methodology:	PCR and Culture on selective media, available in Microbiology Lab - refrigerated. Please verify kit is not expired.
Turn Around Time:	5 - 7 working days
Remarks:	Culture should always be performed on children <11 years of age. Culture on patients >=11 years of age should only be performed if duration of cough is <=14 days, otherwise serology testing should be done.

LABORATORY TEST INFORMATION

Culture, Catheter Tip

Test Code:	CT
Specimen:	Catheter tip in sterile container.
Availability:	Daily
Reference Range:	No growth
Methodology:	Bacteriologic culture, aerobic, biochemical identification
Turn Around Time:	Preliminary in 24 hours. Negative cultures reported in 48 hours.
Remarks:	Antibiotic susceptibility will be performed only on special request. Concurrent blood culture is essential for interpretation.

Culture, Chlamydia pneumoniae

Test Code:	CHPNECULT
Reference Lab:	Specialty Laboratories
Specimen:	Respiratory specimens only in Universal Viral Transport Media Refrigerated or Frozen.
Availability:	Monday through Friday
Reference Range:	Not Isolated
Methodology:	Culture
Turn Around Time:	6 days
Remarks:	Saliva is NOT an appropriate specimen for C. pneumoniae.

Culture, Chlamydia trachomatis

Test Code:	CHTRACULT
Reference Lab:	Lab Corps
Specimen:	Dacron swab/aspirate/tissue in Universal Viral Transport media. If swab leave in vial. Store and transport refrigerated.
Availability:	Daily
Reference Range:	No Chlamydia trachomatis isolated
Methodology:	Tissue culture inoculation: immunoassay after 48 hours, amplification in cell structure. Positive cultures confirmed by FA.
Turn Around Time:	5 – 7 days
Remarks:	Indicate specimen source on request. Urine and semen specimens are not acceptable.

LABORATORY TEST INFORMATION

Culture, CMV (Cytomegalovirus), Rapid and Conventional

Test Code:	CMVCULT
Reference Lab:	Lab Corps
Specimen:	Urine in sterile container. Body fluids, genital swabs, rectal swabs, tissues, respiratory swabs/washes in Universal Viral Transport Media.
Availability:	Monday through Friday
Reference Range:	None detected
Methodology:	Tissue culture, typing
Turn Around Time:	22 – 24 days
Remarks:	No wooden swabs, swabs in gel-based transporters, or dry swabs. Urine needs to be processed within 48 hours. Deliver to Lab immediately to ensure timely processing.

Culture, CSF

Test Code:	CSFG
Specimen:	Cerebral spinal fluid (1.0 mL, preferably in tube #2)
Availability:	Daily
Reference Range:	No growth
Methodology:	(Cytospin)Gram Stain and Bacteriologic culture, aerobic, biochemical identification
Turn Around Time:	Preliminary in 24 hours. Cultures with no growth reported in 3 days.
Remarks:	Antibiotic susceptibility will be performed on all pathogens isolated, at an additional charge.

Culture, Dermatophytes – Refer to Culture, Fungi – Skin, Hair, Nails

Culture, Ear

Test Code:	EAR
Specimen:	Specimen in Swab transport media. Swab is not method of choice for acute otitis media. See Culture, Fluid
Availability:	Daily
Reference Range:	No growth
Methodology:	Bacteriologic culture, aerobic, biochemical identification
Turn Around Time:	Preliminary in 24 hours. Negative cultures reported at 48 hours.

LABORATORY TEST INFORMATION

Remarks: Antibiotic susceptibility will be performed on all aerobic pathogens isolated, at an additional charge. Indicate if specimen was collected from right or left ear.

Culture, Eye

Test Code: **EYE**
Specimen: Specimen in Swab transport media.
Availability: Daily
Reference Range: No growth
Methodology: Bacteriologic culture, aerobic, biochemical identification
Turn Around Time: Preliminary in 24 hours. Negative cultures reported in 48 hours.
Remarks: Antibiotic susceptibility will be performed on all aerobic pathogens isolated, at an additional charge. Indicate if specimen was collected from right or left eye.

Culture, Fluid

Test Code: **FLDG**
Specimen: Fluid in a sterile screw capped container. See Microbiology Specimen Collection, Section G: Wounds, Needle Aspiration. **If fluid is collected in a syringe, REMOVE NEEDLE before transporting to Laboratory !**
Availability: Daily
Reference Range: No Growth
Methodology: Gram Stain and Bacteriologic culture, aerobic, biochemical identification
Turn Around Time: Preliminary in 24 hours. Cultures with no growth reported at 72 hours.
Remarks: Antibiotic susceptibility will be performed on all pathogens isolated, at an additional charge.

Culture, Fluid, collected in Blood Culture Bottle

Test Code: **FLDBTL**
Specimen: 10 ml of fluid in aerobic blood culture bottle
Availability: Daily
Reference Range: No growth
Methodology: BacT Alert
Turn Around Time: Preliminary reports in 24 hours. No growth reported at 5 days.

LABORATORY TEST INFORMATION

Remarks: All positive results will be called.
Antibiotic susceptibility will be performed on all aerobic pathogens isolated, at an additional charge.
Submit separate specimen if gram stain desired.

Culture, Fungi

Test Code: **FUN**

Specimen: Specimen in Swab transport media for oral, nose, nasopharynx, ear, eye, wound, vaginal, cervical, or urethral specimens. 5 oz. sterile plastic container for respiratory secretions, body fluids, tissue, urine, and stool. CSF specimens require 3 ml. Note that for Tissue specimens, saline is toxic. Dampen sterile gauze with sterile water to keep tissue specimen moist.

Availability: Daily

Reference Range: No fungi isolated

Methodology: Fungal culture

Turn Around Time: Preliminary in 1 week or upon becoming positive. Negative cultures reported in 1-4 weeks depending on source.

Remarks: Indicate source of specimen on container.

Culture, Fungi – Skin, Hair, Nails

Test Code: **FUNSK**

Specimen: For Dermatophytes: Submit skin, nail scrapings, or hair in a sterile container, petri dish, or envelope. Do not use culture swab transport media.

Availability: Daily

Reference Range: No fungi isolated

Methodology: Fungal culture

Turn Around Time: Preliminary in one week or on becoming positive. Negative cultures reported at 4 weeks.

Remarks: Indicate specimen source on request.
For more rapid turn around time for Nails, request PAS stain in Pathology. See also KOH Prep.

Culture, Genital - Bacterial Genital Pathogens

Test Code: **GEN**

Specimen: Cervical and Male Genital specimens in Swab transport media. **Do not refrigerate.**

Availability: Daily

Reference Range: Normal Urogenital Flora

Methodology: Bacterial culture, aerobic, with biochemical identification

LABORATORY TEST INFORMATION

Turn Around Time: Preliminary in 24 hours.
Negative cultures reported at 48 hours.

Remarks: Does not include Chlamydia, Hemophilus ducreyi, Mycoplasma, Trichomonas, Viruses or Neisseria gonorrhoeae. **For vaginal specimens, see procedures for BV, Trichomonas, and Yeast.**
Vaginal specimens are unacceptable except on children under 13 and post menopausal women.

Culture, Genital (Vaginal/Rectal) - Beta-Hemolytic Strep, Group B Screen

Test Code: **SCGB**

Specimen: Vagino-rectal specimen in Swab transport media.

Availability: Daily

Reference Range: Negative for Beta Hemolytic Streptococci, Group B

Methodology: Bacteriologic culture, aerobic, selective broth

Turn Around Time: Preliminary in 24 hours.
Negative cultures reported at 48 hours.

Remarks: Specify source if other than vagino-rectal.
CDC recommendations: Screening of pregnant women should be done at 35 –37 weeks.

Culture, Gonorrhea - Anal, Eye, Genital, Pharyngeal, or Synovial Fluid

Test Code: **GC**

Specimen: Inoculated Jembec plate. Bring Jembec plate to room temperature. Inoculate Jembec Plate with specimen on swab. Place CO₂ tablet in the well and seal in the ziploc bag. **Do not refrigerate.**

Availability: Daily

Reference Range: No Neisseria gonorrhoeae recovered

Methodology: Aerobic bacterial culture

Turn Around Time: Preliminary in 24 hours.
Negative cultures reported at 72 hours.

Remarks: Use separate Jembec Plate for each site cultured and specify source on each specimen.

Culture (and Typing), Herpes Simplex Virus

Test Code: **HSV CULT**

Reference Lab: Lab Corps

Specimen: Swab/vesicle fluid/aspirate/tissue in **Universal Viral Transport Media** or on **viral** transport swabs. Store and transport refrigerated. **Do not freeze.**

Availability: Monday through Friday

Reference Range: No Herpes Simplex Virus isolated

LABORATORY TEST INFORMATION

Methodology:	Spin amplification culture with ELISA detection and monoclonal fluorescent antibody typing on positives.
Turn Around Time:	5-9 days
Remarks:	Indicate source of specimen on container and requisition. No wooden swabs, swabs in gel-based transport media, or dry swabs.

Culture, Herpes “zoster” virus – Refer to Culture, Varicella zoster

Culture, Legionella

Test Code:	LEGCULT
Reference Lab:	Lab Corps
Specimen:	Lower respiratory specimen (i.e. bronchial washing, lung tissue, transtracheal aspirates) in sterile container with small amount of sterile distilled water to prevent drying (if necessary). DO NOT use saline.
Availability:	Monday through Friday
Reference Range:	No Legionella recovered on culture
Methodology:	Culture
Turn Around Time:	10-12 days

Culture, MRSA R/O

Test Code:	MRSA R/O
Specimen:	Specimen (Axilla, groin, nares, wounds) in Swab transport media or Sputum.
Availability:	Daily
Reference Range:	No MRSA isolated
Methodology:	Bacteriologic culture
Turn Around Time:	Preliminary in 24 hours. Minimum of 48 hours if negative.
Remarks:	Surveillance or screening culture for MRSA. Full susceptibility will not be performed.

Culture, Mycobacteria – Refer to Culture, Acid Fast Bacilli

Culture, Mycoplasma Hominis, Genital -See Culture, Ureaplasma urealyticum and Mycoplasma hominis

Culture, Mycoplasma Pneumoniae, Respiratory

Test Code:	MYCPNECULT
Reference Lab:	Lab Corps

LABORATORY TEST INFORMATION

Specimen:	Respiratory swab in Universal Viral Transport Media Leave swab in vial. Do not use culture swab transport media. Store and transport refrigerated.
Availability:	Monday through Friday
Reference Range:	No Mycoplasma pneumoniae recovered
Methodology:	Mycoplasma Broth and Agar culture
Turn Around Time:	4 weeks

Culture, Nasopharyngeal

Test Code:	NOSE
Specimen:	Nasopharyngeal specimen in mini-tip Swab transport media. The swab is gently inserted through the nose to the posterior nasopharynx where it is gently rotated. It should remain in this position for several seconds. The withdrawal should be slow to avoid irritation.
Availability:	Daily
Reference Range:	Normal flora
Methodology:	Bacteriologic culture, aerobic with biochemical identification of pathogens
Turn Around Time:	Preliminary in 24 hours. Negative culture reported at 48 hours.
Remarks:	Antibiotic susceptibilities will be performed on select aerobic pathogens isolated, at an additional charge.

Culture, Pertussis – Refer to Culture, Bordetella pertussis

Culture, Respiratory

Test Code:	RESPG
Specimen:	Respiratory specimen other than sputum in sterile container (e.g. bronchial washings)
Availability:	Daily
Reference Range:	Normal flora
Methodology:	Gram Stain and Bacteriologic culture, aerobic, biochemical identification

LABORATORY TEST INFORMATION

Turn Around Time:	Preliminary in 24 hours. Cultures with no growth or normal flora are reported at 48 hours. Reports on specimens on which pathogens are suspected may require more than 48 hours.
Remarks:	Antibiotic susceptibility will be performed on aerobic pathogens isolated, at an additional charge. See Culture, Sputum (SPTG) for sputums.

Culture, Sputum

Test Code:	SPTG
Specimen:	Sputum in sterile screw capped container. See collection procedures for Respiratory Tract Specimens.
Availability:	Daily
Reference Range:	Normal flora
Methodology:	Gram Stain and Bacteriologic culture, aerobic, biochemical identification on good quality specimens
Turn Around Time:	Preliminary in 24 hours. Cultures with no growth or normal flora are reported at 48 hours. Reports on specimens on which pathogens are suspected may require more than 48 hours.
Remarks:	Antibiotic susceptibility will be performed on aerobic pathogens isolated, at an additional charge. See Culture, Respiratory (RESPG) for respiratory specimens other than sputum. Please indicate if patient has Cystic Fibrosis.

Culture, Stool – E. coli 0157:H7 Refer to Shiga Toxin, stool

Culture, Stool – Salmonella, Shigella, Campylobacter, Vibrio, and Yersinia

Test Codes:	STL – Salmonella, Shigella, and Campylobacter STSS – Salmonella and Shigella STSAL – Salmonella STCAM – Campylobacter STVIB – Vibrio STYER – Yersinia
Specimen:	10 gm of fresh (unpreserved) stool in a sterile container or stool transport vials for culture. Do not use Parasitology Transport Vials. Do not freeze.
Availability:	Daily
Reference Range:	Normal fecal flora
Methodology:	Bacteriologic culture, biochemical identification
Turn Around Time:	Minimum of 48 hours, if negative.
Remarks:	Antibiotic susceptibility will be performed on all positive cultures, at an additional charge.

LABORATORY TEST INFORMATION

Culture, Strep Screen – Other than Throat or Genital (vaginal-rectal)

Test Code:	SCO
Specimen:	Specimen in Swab transport media.
Availability:	Daily
Reference Range:	No Beta Hemolytic Streptococci isolated
Methodology:	Bacteriologic Culture
Turn Around Time:	Preliminary in 24 hours Negative cultures reported in 24 to 48 hours.

Culture, TB – Refer to Culture, Acid Fast Bacilli

Culture, Throat – Beta Hemolytic Strep Screen

Test Code:	SCR
Specimen:	Throat specimen in Swab transport media.
Availability:	Daily
Reference Range:	No Beta-Hemolytic Streptococci isolated
Methodology:	Bacteriologic culture
Turn Around Time:	Preliminary in 24 hours. Negative cultures reported in 24 to 48 hours.
Remarks:	This procedure screens for Streptococcus group A, C and G and Arcanobacter haemolyticum. <u>Specify if additional organism is suspected.</u> For yeast see Culture, Fungus. Please indicate if patient has Cystic Fibrosis. See Streptococcus Group A Direct Assay (RS) for direct detection of Streptococcus Group A.

Culture, Tissue

Test Code:	TISSUE
Specimen:	Tissue in specimen transport jar.
Availability:	Daily
Reference Range:	No Growth
Methodology:	Gram Stain and aerobic and anaerobic culture
Turn Around Time:	Preliminary in 24 hours. Negative culture reported at 5 days.
Remarks:	See Microbiology specimen collection, Section G: Wounds. If anaerobic culture is not wanted, request that it <u>not</u> be performed. Usual antibiotic susceptibility will be performed on appropriate organisms, at an additional charge.

Culture, Ureaplasma Urealyticum and Mycoplasma Hominis, Genital

LABORATORY TEST INFORMATION

Test Code:	UREAPCULT
Reference Lab:	Lab Corps
Specimen:	Swab/Semen in Universal Viral Transport Media If swab, leave swab in vial. Store and transport refrigerated.
Availability:	Monday through Friday
Reference Range:	No Ureaplasma urealyticum or Mycoplasma hominis recovered
Methodology:	Mycoplasma Broth and Agar culture
Turn Around Time:	10-16 days
Remarks:	Indicate source of specimen on container and requisition.

LABORATORY TEST INFORMATION

Culture, Urine

Test Codes:	UR - straight cath, clean voided, foley cath, bagged URSP - kidney, bladder tap
Specimen:	Collect urine in sterile 5 oz. Plastic container or Urine Culture Transport tube (gray top).
Availability:	Daily
Reference Range:	No growth
Methodology:	Quantitative bacterial culture, biochemical identification
Turn Around Time:	Preliminary in 24 hours. Negative cultures reported in 24 to 48 hours.
Remarks:	When greater than 10,000 of significant organisms are recovered, identification and antibiotic susceptibility will be performed on no more than two at an additional charge.

Culture, Varicella-zoster

Test Code:	VZCULT
Reference Lab:	Lab Corps
Specimen:	Vesicle/lesion swabs in Universal Viral Transport Media or on viral transport swabs.
Availability:	Monday through Friday
Reference Range:	No virus isolated
Methodology:	Culture
Turn Around Time:	5-10 days
Remarks:	No wooden swabs, swabs in gel-based transport media, or dry swabs.

Culture, Viral

Test Code:	VICULT
Reference Lab:	Lab Corps
Specimen:	Respiratory tract specimens, lesion swabs, stool, CSF, body fluids, biopsy/tissues, urine in Universal Viral Transport Media (UV-TM) or one tube blood (anti-coagulated with citrate, EDTA, or heparin).
Availability:	Monday through Friday
Reference Range:	No virus isolated
Methodology:	Tissue culture
Turn Around Time:	30 days

LABORATORY TEST INFORMATION

Remarks: **Indicate Suspect Virus. No wooden swabs, swabs in gel-based transport media, or dry swabs.** See Culture; CMV, Herpes, or Varicella when culturing specifically for those viruses. Transfer fluids in equal volume to UV-TM e.g. 3 mL fluid and 3 mL UV-TM.

Culture, VRE R/O

Test Code: **VRE R/O**

Specimen: Rectal swab. Stool or urine in sterile container.

Availability: Daily

Reference Range: No VRE isolated

Methodology: Bacteriologic culture

Turn Around Time: Preliminary in 24 hours. Minimum of 48 hours if negative.

Remarks: Surveillance or screening culture for VRE.
Full susceptibility will not be performed.
Appropriate sites to be screened for VRE are the rectum and a previously positive site e.g. wound

Culture, Wound

Test Code: **WD** - superficial wounds
WDDG - deep wounds, includes Gram Stain

Specimen: Specimen in Swab transport media. Store and transport at room temperature. See Microbiology Specimen collection, Section G; Wounds.

Availability: Daily

Reference Range: No growth

Methodology: Bacteriologic culture, aerobic, biochemical identification

Turn Around Time: Preliminary in 24 hours.
WD- Negative cultures reported at 48 hours.
WDDG –Negative cultures reported at 72 hours.

Remarks: Indicate source of specimen. Antibiotic susceptibility will be performed on all significant organisms, no more than two, at an additional charge.

Culture, Yeast

Test Code: **YST**

Specimen: Vaginal specimen in Culture Swab transport media. Store and transport at room temperature.

Availability: Daily

Reference Range: No growth

Methodology: Bacteriologic culture, aerobic

LABORATORY TEST INFORMATION

Turn Around Time: Preliminary in 24 hours
Negative cultures reported at 4-5 days

Cyclospora / Isospora Stain, Stool

Test Code: **CYCLOISOS**
Specimen: 10 gm fresh stool in a sterile container or fill to line in Ecofix vial from Parasitology Transport Kit.

Availability: Monday through Friday
Reference Range: No cyclospora or isospora seen
Methodology: Modified Acid Fast Stain

Turn Around Time: 24 hours
Remarks: See Microbiology section, Specimen Collection, section E for additional collection information.

Cyclosporine

Test Code: **CYCLO**
Testing Site: Lab Corps
Specimen Requirement: 2.0 mL Whole Blood
Container: Lavender
Availability: 7 days/week
Turnaround Time: 3 days
Methodology: HPLC
Reference Range: See report
Remarks: Blood must be stored at room temperature

Cytomegalovirus Screen (CMV), IgG and IgM

Test Code: **CMVIGG**
CMVIGM
Testing Site: Lab Corps
Specimen Requirement: 0.5 mL Serum
Container: Gel Barrier
Availability: 7 days/week
Turnaround Time: 2 - 5 days
Methodology: Latex Agglutination
Reference Range: Negative

LABORATORY TEST INFORMATION

D-Dimer

Test Code:	DDI
Specimen Requirements:	3 – 5 mL Whole Blood
Container:	Blue
Availability:	24 hours/day, 7 days a week
Turnaround Time:	1 hour
Methodology:	Photo-optical
Reference Range:	Less than 1.4 mg/L FUH 0.08 – 0.49 mcg FE/mL LMH

Desipramine

Test Code:	DESIP
Testing Site:	Lab Corps
Specimen Requirement:	0.5 mL Serum
Container:	Plain Red Top Do not draw in Gel Barrier tube.
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Chromatography
Reference Range:	150 - 300 mcg/L; Toxic levels: > 500 mcg/L

DIC Panel

Test Code:	DIC
Includes:	PT, PTT, Fibrinogen, and D-Dimer
Specimen Requirements:	3 – 5 mL Whole Blood
Container:	Blue
Availability:	24 hours/day, 7 days a week
Turnaround Time:	1 hour
Remarks:	See individual tests for Reference Ranges

Differential

Test Code:	DIF
Specimen Requirement:	3-5 mL Whole Blood
Container:	Lavender
Availability:	24 hours per day, 7 days a week
Turnaround Time:	4 hours
Reference Range:	See chart at end of Test Information
Method:	Automated differential performed on routine CBC. Manual differential performed upon request.

LABORATORY TEST INFORMATION

Dihydroepiandrosterone (DHEA)

Test Code: **DHEA**
Testing Site: Lab Corps
Specimen Requirements: 1.0 mL Serum
Container: Gel Barrier
Availability: 7 days/week
Turnaround Time: 3 days
Methodology: Radioimmunoassay

Dihydroepiandrosterone Sulfate (DHEA Sulfate)

Test Code: **DHEAS**
Testing Site: Lab Corps
Specimen Requirement: 1.0 mL Serum
Container: Gel Barrier
Availability: 7 days/week
Turnaround Time: 3 days
Methodology: Radioimmunoassay

Dilantin - Refer to Phenytoin

Digoxin

Test Code: **DIG**
Specimen Requirement: 0.5 mL Serum
Container: Gel Barrier
Availability: 7 days/week
Turnaround Time: Within 4 hours
Methodology: EIA
Reference Range: 0.8 - 2.0 ng/mL
Remarks: Available Stat, results within 1 hour of receipt

Direct Antiglobulin Test (Direct Coomb's Test)

Test Code: **DATPR**
Specimen Requirement: 5 mL Blood
Container: Lavender top tube (not Gel Barrier)
Availability: 24 hours a day, 7 days a week
Turnaround Time: 1-4 hours
Reference Range: Negative
Remarks: The Medical Director will be available for interpretive consult on all positive results, except infants.

LABORATORY TEST INFORMATION

DNA Antibody - Refer to Anti-DNA Screen

Drug Screens - Refer to Urine Drug Panel and Substance Abuse Panels

E. Coli 0157, Stool – Refer to Shiga Toxin, Stool

E. histolytica, Direct Antigen Detection, Stool

Test Code:	EHISTAG
Reference Lab:	Quest referral to Focus Laboratory # 50105
Specimen:	1 gram fresh unpreserved stool <=48 hours post collection. Refrigerate until transport.
Availability:	Monday through Friday
Reference Range:	Negative
Methodology:	Enzyme Immunoassay
Turn Around Time:	3 - 5 days
Remarks:	Findings on routine Ova and Parasites are a prerequisite. This test is specific for E. histolytica.

Electrolyte Panel

Test Code:	EL
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Within 4 hours
Remarks:	Includes Sodium, Potassium, Chloride, and CO2. Available Stat, results within 1 hour of receipt

Endomysial Antibody- Refer to Tissue Transglutaminase, IgA

Eosinophil Count

Test Code:	EOSCT
Specimen Requirement:	3-5 mL Whole Blood
Container:	Lavender
Availability:	24 hours per day, 7 days a week
Turnaround Time:	4 hours
Reference Range:	50 - 350/cmm
Method:	Manual

LABORATORY TEST INFORMATION

Epstein Barr Virus (EBV) Panel

Test Code:	EBVC
Testing Site:	Lab Corps
Specimen Requirement:	1.0 mL Serum
Container:	Gel Barrier
Availability:	7days/week
Turnaround Time:	3 days
Methodology:	IFA
Reference Range:	See report
Remarks:	Panel includes Nuclear EBV Antigen, IgG AB VCA EBV, EBV Early Antigen, and EBV Capsid IgM.

Erythropoietin

Test Code:	EPOIETIN
Testing Site:	Lab Corps
Specimen Requirement:	1.0 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Immunochemiluminometric assay

Estradiol

Test Code:	E2 E2M for Males or Postmenopausal Females
Testing Site:	Lab Corps
Specimen Requirement:	2.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Immunochemiluminometric

Ethyl Alcohol (ETOH) - Refer to Alcohol

Extractable Nuclear Antigen (ENA) - Refer to Anti-ENA

LABORATORY TEST INFORMATION

Factor V Leiden Screen

Test Code:	F5LEIDSCR
Specimen Requirement:	10 mL Whole Blood
Container:	2 Blue Top Tubes ON ICE and 1 Lavender
Availability:	Tuesday and Friday
Turnaround Time:	Same Day
Methodology:	Photo-Optical
Reference Range:	Positive results confirmed by Factor V Leiden Mutation > 2.1
Remarks:	Do not spin down samples. Refrigerate.

Factor Assays (V, VII, IX, X, XI, XII)

Test Codes:	FAC5, FAC7, FAC9, FAC10, FAC11, FAC12
Reference Lab:	Brigham and Womens Hospital
Specimen Requirement:	Frozen plasma from 2 blue top tubes
Container:	2 Blue Top Tubes On Ice
Availability:	Monday through Friday, Draw before 1 pm
Turnaround Time:	2 - 7 days
Method:	Clotting Methodology

Factor VIII

Test Codes:	FAC8
Specimen Requirement:	Frozen plasma from 2 blue top tubes
Container:	2 Blue Top Tubes On Ice
Availability:	Tuesday and Friday
Turnaround Time:	Same day
Reference Range:	50 - 150 %
Method:	Clotting Methodology
Remarks:	Factor VIII testing is done in house at FUH

Factor VIII Antigen (Von Willibrand's Factor)

Test Codes:	VWFAG
Reference Lab:	Brigham + Women's Hospital
Specimen Requirement:	10 mL Whole Blood. Send specimen to Lab ASAP.
Container:	2 Blue Top Tubes On Ice Plasma must be removed and frozen immediately.
Availability:	Monday through Friday, Draw before 1 pm.
Turnaround Time:	2-7 days
Reference Range:	See Report
Methodology:	Clotting Methodology

LABORATORY TEST INFORMATION

Fat, Stool

Test Code:	FATSTL
Specimen Requirement:	Random Stool specimen
Container:	Sterile Urine Cup
Availability:	7 days/week
Turnaround Time:	Next Day
Methodology:	Microscopic
Reference Range:	None Seen

Fat, Urine

Test Code:	UFAT
Specimen Requirement:	1.0 mL Urine
Container:	Random Urine
Availability:	7 days/week
Turnaround Time:	Next Day
Methodology:	Microscopic
Reference Range:	None Seen

Fecal Leukocyte Stain

Test Code:	WBCSTL
Specimen:	Smear on slide, or Stool in a sterile container. Print patient's name in pencil on frosted end of slide or label sample container.
Availability:	Daily
Reference Range:	No fecal leukocytes seen
Methodology:	Gram stain
Turn Around Time:	24 hours.

Ferritin

Test Code:	FER
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Same day
Methodology:	Electrochemiluminescence
Reference Range:	Females: 10 - 150 ng/mL Males: 10 - 250 ng/mL

LABORATORY TEST INFORMATION

Fibrinogen

Test Code:	FIB
Specimen Requirement:	5 mL Whole Blood
Container:	Blue
Availability:	24 hours per day, 7 days a week
Turnaround Time:	2 hours
Reference Range:	200 - 480 mg/dL
Methodology:	Photo-Optical Clot Detection
Remarks:	Mix well. Deliver to Lab STAT.

Folic Acid (Folate)

Test Code:	FOL
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Electrochemiluminescence
Reference Range:	2.8 – 20.0 ng/mL

Follicle Stimulating Hormone (FSH)

Test Code:	FSH
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Same day
Methodology:	Electrochemiluminescence
Reference Range:	See Report

Fructosamine

Test Code:	FRU
Testing Site:	Lab Corps
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Colorimetric
Reference Range:	See report

LABORATORY TEST INFORMATION

Fungi, Direct Examination

Test Code:	KOH
Specimen:	Skin, nail scrapings, hair, CSF, body fluid, sputum, or bronchial washings in a 5 oz. sterile container, sterile petri dish, or a sterile plastic conical tube.
Availability:	Daily
Reference Range:	Negative for fungal elements
Methodology:	Microscopic examination of KOH preparation
Turn Around Time:	24 hours

Gabapentin (Neurontin)

Test Code:	GABAP
Testing Site:	Lab Corps
Specimen Requirement:	3 mL plasma or serum drawn 2 hours after last dose.
Container:	Lavender or Plain Red Top
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	HPLC
Reference Range:	See report

Gamma Glutamyl Transferase (GGT)

Test Code:	GT
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Same day
Methodology:	Enzymatic
Reference Range:	Males: 15 - 75 U/L Females: 7 - 55 U/L

Gentamicin, Peak or Trough

Test Code:	GENTP – Peak GENTT - Trough
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Same day
Methodology:	EIA
Therapeutic Range:	Peak: 5 - 10 ug/mL Trough: 0 - 2 ug/ML

LABORATORY TEST INFORMATION

Giardia, Direct Antigen Detection, Stool

Test Code:	GIAG
Specimen:	10 gm fresh stool in a sterile container or fill to line in 10% formalin or PROTO-FIX vial.
Availability:	Monday through Friday
Reference Range:	Giardia antigen not present
Methodology:	Enzyme Immunoassay
Turn Around Time:	24 hours
Remarks:	Unpreserved specimens should be submitted to Lab within 24 hours of collection. Only one specimen is necessary because the specific protein is shed constantly during infection.

Gliadin Antibody - Refer to Anti-Gliadin Antibody

Glucose

Test Codes:	GLU for Random Glucose FBS for Fasting Glucose GPP1 for Glucose 1 hr PP GPP2 for Glucose 2 hr PP
Specimen Requirement:	0.5 mL Serum or Plasma
Container:	Gel Barrier or Gray top
Availability:	7 days/week
Turnaround Time:	Within 4 hours
Methodology:	Enzymatic
Reference Range:	0 - 22 Days = 60 - 110 mg/dL > 22 Days = 70 - 105 mg/dL 1 Hr PP = 70 - 110 mg/dL 2 Hr PP = 70 - 140 mg/dL
Remarks:	Available Stat, results within 1 hour of receipt of specimen.

Glucose, Gestational

Test Code:	GDS for 1 hr Gestational Glucose GSGT2 for 2hr Gestational Glucose GSGT3 for 3 hr Gestational Glucose
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	Monday through Saturday
Turnaround Time:	Within 4 hours
Methodology:	Enzymatic
Reference Range:	GDS 1 hour : 70 - 140 mg/dL G1HR GLU : 65 - 190 mg/dL G2HR GLU : 65 - 165 mg/dL G3HR GLU : 65 - 145 mg/dL

LABORATORY TEST INFORMATION

Remarks: GDS patients are given 50 mg dose Glucose
GSGT2 and GSGT3 are given 100 mg dose.

Glucose-6-Phosphate Dehydrogenase

Test Code: **G6PD**
Specimen Requirement: 5 mL Whole Blood
Container: Lavender
Availability: Monday through Friday
Turnaround Time: 48 hours
Reference Range: Normal
Methodology: Colorimetric

Glucose Tolerance Test

Test Codes: **GTT2** for 2 Hour GTT
GTT3 for 3 Hour GTT
GTT4 for 4 Hour GTT
GTT5 for 5 Hour GTT
GTT6 for 6 Hour GTT
Specimen Requirement: 0.5 mL Serum for each timed sample
1 mL Urine, only when ordered by physician
Reference Ranges: 1 HR GLU: 65 - 199 mg/dL
2 HR GLU: 65 - 165 mg/dL
3 HR GLU: 65 - 145 mg/dL
4, 5, 6 HR GLU: 70 - 105 mg/dL

Gram Stain for Gonorrhea, Males only

Test Code: **GS**
Specimen: Smear on slide. **Print** patient's name in pencil on frosted end of slide.
Availability: Daily
Reference Range: Negative for intra- and extra-cellular gram negative diplococci
Methodology: Gram stain
Turn Around Time: Same day
Remarks: **Must indicate for Gonorrhea**, on requisition or in Order Entry comment section.

Gram Stain Smear

Test Code: **GS**
Specimen: Smear on slide. **Print** patient's name in pencil on frosted end of slide.
Availability: Daily
Reference Range: Dependent upon site.
Methodology: Gram stain
Turn Around Time: Same day

LABORATORY TEST INFORMATION

Remarks: For Fecal Leukocytes, see Fecal Leukocyte Stain (WBCSTL)

Guaiac - Refer to Occult Blood

Haptoglobin

Test Code: **HPT**
Specimen Requirement: 0.5 mL Serum
Container: Gel Barrier
Availability: 7 days/week
Turnaround Time: 1-3 days
Methodology: Nephelometry
Reference Range: 16 - 200 mg/d

HCV RNA Q (Viral Load) – Refer to Hepatitis C Viral Load

HCV Genotype – Refer to Hepatitis C Genotype

H. Pylori (Helicobacter pylori, IgG)

Test Code: **HPYLAB**
Specimen Requirement: 0.5 mL Serum
Container: Gel Barrier
Availability: 7days/week
Turnaround Time: 3 days
Methodology: Enzyme Immunoassay
Reference Range: Negative, < 0.89
Remarks: Hemolyzed and Lipemic specimens cannot be used for testing.

Helicobacter pylori, Direct Antigen Detection, Stool

Test Code: **HPYAG**
Reference Lab: Done in-house
Specimen: Fresh stool in sterile container, Refrigerate until submitted to lab.
Availability: Monday through Friday
Reference Range: Not Detected
Methodology: Rapid Immunoassay
Turn Around Time: 1-3 days
Remarks: Presence of antigen shows high correlation with clinically documented H. pylori infection.

LABORATORY TEST INFORMATION

HCG, (Human Chorionic Gonadotropin)

Test Code:	HCG																		
	HCGQ , for Quantitative																		
Specimen Requirement:	0.5 mL Serum																		
Container:	Gel Barrier																		
Availability:	7 days/week																		
Turnaround Time:	Same day																		
Methodology:	Electrochemiluminescence																		
Reference Range: (Males and Non-pregnant)	Negative Less than 5 MIU/mL																		
Reference Range: (Pregnancy)	<table><thead><tr><th>Gestation Age</th><th>MIU/mL</th></tr></thead><tbody><tr><td>0-2 Weeks</td><td>9 - 130</td></tr><tr><td>2-3 Weeks</td><td>75 - 2,600</td></tr><tr><td>3-4 Weeks</td><td>850 - 20,800</td></tr><tr><td>4-5 Weeks</td><td>4,000 -100,200</td></tr><tr><td>5-10 Weeks</td><td>11,500 -289,000</td></tr><tr><td>10-14 Weeks</td><td>18,300 -137,000</td></tr><tr><td>2nd Trimester</td><td>1,400 - 53,000</td></tr><tr><td>3rd Trimester</td><td>940 - 60,000</td></tr></tbody></table>	Gestation Age	MIU/mL	0-2 Weeks	9 - 130	2-3 Weeks	75 - 2,600	3-4 Weeks	850 - 20,800	4-5 Weeks	4,000 -100,200	5-10 Weeks	11,500 -289,000	10-14 Weeks	18,300 -137,000	2nd Trimester	1,400 - 53,000	3rd Trimester	940 - 60,000
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HDL Cholesterol

Test Code:	HDL
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Same day
Methodology:	Enzymatic
Reference Range:	Males: 35 - 55 mg/dL Females: 45 - 65 mg/dL

Hematocrit

Test Code:	HCT
Specimen Requirement:	3-5 mL Whole Blood
Container:	Lavender
Availability:	24 hours per day, 7 days a week
Turnaround Time:	2 hours
Reference Range:	Male: 40-54% Female: 37-47%
Methodology:	Automated CBC Analyzer
Remarks:	Micro method available. Available STAT, results within 15 minutes of receipt in Lab

LABORATORY TEST INFORMATION

Hemoglobin

Test Code:	HGB
Specimen Requirement:	3-5 mL Whole Blood
Container:	Lavender
Availability:	24 hours per day, 7 days a week
Turnaround Time:	2 hours
Reference Range:	Male: 14 - 18 gm/dL Female: 12 - 16 gm/dL
Method:	Automated Cell Counter
Remarks:	Micro method available. Available STAT, results within 15 minutes of receipt in Lab.

Hemoglobin Electrophoresis

Test Code:	HGBEL
Testing Site:	Lab Corps
Specimen Requirement:	1.0 mL Whole Blood
Container:	Lavender
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Electrophoresis
Reference Range:	See Report

Hemoglobin, Glycosylated (Hgb A1C)

Test Code:	GLYHB
Specimen Requirement:	0.5 mL Whole Blood
Container:	Lavender
Availability:	Monday through Friday
Turnaround Time:	1-3 days
Methodology:	HPLC
Reference Range:	3.6 - 6.8 %

Hemosiderin

Test Code:	HEMOSID
Specimen Requirement:	Random Urine
Container:	Sterile Urine Cup
Availability:	Monday through Friday
Turnaround Time:	48 hours
Reference Range:	Negative
Methodology:	Special stain

LABORATORY TEST INFORMATION

Hepatic Function (Liver) Panel

Test Code:	LF
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Same day
Reference Ranges:	See individual tests
Remarks:	Includes Total Protein, Albumin, Total Bilirubin, Direct Bilirubin, AST, ALT, and Alkaline Phosphatase

Hepatitis Profile-Acute

Test Code:	HEP
Specimen Requirement:	3.0 mL Serum
Container:	Gel Barrier
Availability:	Monday through Friday
Turnaround Time:	1- 4 days
Reference Ranges:	See individual tests
Remarks:	Includes Hep A AB, IgM, HBsAG, Hep C AB, Hep B Core AB, IgM

Hepatitis A Antibody, IgM

Test Code:	HAVABM
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	Monday through Friday
Turnaround Time:	1- 3 days
Methodology:	FPIA
Reference Range:	Non-reactive

Hepatitis B Surface Antigen (HBsAG)

Test Code:	HBAG
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	Monday through Friday
Turnaround Time:	1-2 days
Methodology:	Enhanced Chemiluminescence
Reference Range:	Non-reactive

LABORATORY TEST INFORMATION

Hepatitis B Surface Antibody (HBAB)

Test Code: **HBAB**
Specimen Requirement: 0.5 mL Serum
Container: Gel Barrier
Availability: Monday through Friday
Turnaround Time: 2 days
Methodology: Enhanced Chemiluminescence
Remarks: Anti-HBsAG

Hepatitis B Core Antibody, Total

Test Code: **CORAB**
Specimen Requirement: 0.5 mL Serum
Container: Gel Barrier
Availability: Monday through Friday
Turnaround Time: 1 - 3 days
Methodology: EIA
Reference Range: Non-reactive
Remarks: Anti-Hepatitis B Core

Hepatitis B Core Antibody, IgM

Test Code: **COREM**
Specimen Requirement: 0.5 mL Serum
Container: Gel Barrier
Availability: Monday through Friday
Turnaround Time: 1 - 3 days
Methodology: FPIA
Reference Range: Non-reactive
Remarks: Anti-Hepatitis B Core, IgM

Hepatitis C Antibody

Test Code: **HEPCAB**
Specimen Requirement: 0.5 mL Serum
Container: Gel Barrier
Availability: Monday through Friday
Turnaround Time: 2 - 3 days
Methodology: Enhanced Chemiluminescence
Reference Range: Non-reactive

LABORATORY TEST INFORMATION

Hepatitis C Viral Load (HCV RNA Q)

Test Code:	HCVRNAQ
Testing Site:	Lab Corps
Specimen Requirement:	2 PPT Tubes, centrifuged, and frozen
Container:	2 PPT Tubes
Availability:	Daily
Turnaround Time:	7 – 10 Days
Methodology:	PCR
Reference Range:	See Report
Remarks:	Draw in special white stoppered EDTA tubes with Gel Barrier (PPT Tube)

Hepatitis C Genotype

Test Code:	HCVGENO
Testing Site:	Lab Corps
Specimen Requirement:	2 PPT Tubes, centrifuged, and frozen
Container:	2 PPT Tubes
Availability:	Daily
Turnaround Time:	7 – 10 Days
Methodology:	PCR
Reference Range:	See Report
Remarks:	Patient must have had HCV RNA Q done first. Draw in special white stoppered EDTA tubes with Gel Barrier (PPT Tube)

Herpes Culture – Refer to Culture, Herpes

Herpes Simplex 1 Antibody, IgG

Test Code:	HSV1G
Testing Site:	Lab Corps
Specimen Requirement:	1.0 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Enzyme Immunoassay
Reference Range:	See report

LABORATORY TEST INFORMATION

Herpes Simplex Virus, PCR, CSF

Test Code:	HSVPCR
Reference Lab:	Lab Corps
Specimen:	2.0 ml CSF, Sterile container, Frozen
Availability:	Monday through Friday
Reference Range:	Not detected
Methodology:	PCR
Turn Around Time:	3 - 4 days
Remarks:	Split specimen into 2 plastic vials and ship frozen on dry ice by overnight courier.

5 HIAA (5 Hydroxyindole Acetic Acid)

Test Code:	5HIAA
Testing Site:	Lab Corps
Specimen Requirement:	50 mL of 24 Hour Urine collection
Container:	24 Hour Urine Container with 10 mL of 6N HCL added to preserve specimen
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	HPLC
Reference Range:	See report

HIV (Human Immunodeficiency Virus)

Test Code:	VA
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	Monday through Friday
Turnaround Time:	2 - 3 Days
Methodology:	Enzyme Immunoassay
Reference Range:	Negative
Remarks:	Documentation of patient consent is required for performance of the test. Results are confidential.

LABORATORY TEST INFORMATION

HIV Viral Load (VAQ)

Test Code:	VAQ
Reference Lab:	Lab Corps
Specimen:	2 PPT Tubes, centrifuged and frozen
Availability:	Daily
Reference Range:	See report
Methodology:	PCR
Turn Around Time:	7 – 10 Days

HIV Genotype

Test Code:	VAGENO
Reference Lab:	Lab Corps
Specimen:	2 PPT Tubes, centrifuged and frozen
Availability:	Daily
Methodology:	PCR
Turn Around Time:	7 – 10 Days
Remarks:	Must have VAQ performed first

HLA Antibody Screen

Test Code:	HLAAB
Reference Lab:	American Red Cross
Specimen Requirement:	10 mL Blood
Container:	10 mL Plain Red Top tube (not Gel Barrier)
Availability:	Monday through Thursday
Turnaround Time:	7 - 10 days
Remarks:	For patients receiving multiple platelet transfusions, to monitor or diagnose alloimmunization.

HLA Typing (Class I and II Antigens)

Test Code:	HLATYP
Reference Lab:	American Red Cross
Specimen Requirement:	Call the Blood Bank for instructions
Availability:	Monday through Thursday
Turnaround Time:	3 - 5 days
Remarks:	The HLA type is often used for supplying some patients with compatible platelets. This typing should be completed prior to chemotherapy protocols which cause profound thrombocytopenia. Peripheral WBC should be greater than 2,000.

LABORATORY TEST INFORMATION

HLA Typing: Transplant Package (Class I and II Antigens, MLC, Complotype, HLA Antibody Screen, ABO Type)

Reference Lab:	American Red Cross
Specimen Requirement:	Call the Blood Bank for instructions
Availability:	Monday, Wednesday, Thursday
Turnaround Time:	10 - 14 days
Remarks:	For patients for whom bone marrow transplantation is being considered.

Homocysteine

Test Code:	HOMOCYS
Testing Site:	Lab Corps
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Enzyme Immunoassay
Reference Range:	See report
Remarks:	10 to 12 hour fasting specimen preferred Serum must be separated from cells within 30 minutes of collection.

Human Papilloma Virus (HPV) – Refer to Pathology Gynecologic Cervical Samples

17 Hydroxycorticosteroids

Test Code:	17OH
Testing Site:	Lab Corps
Specimen Requirement:	50 mL of a 24 Hour Urine Collection Add 10 gm Boric Acid at start of collection.
Container:	24 Hour Urine
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Modified Porter Silber Reaction
Reference Range:	See report
Remarks:	Maintain urine pH below 7.5

LABORATORY TEST INFORMATION

Identification, Bacterial Organism

Test Code:	ID
Specimen:	Culture of organism to be identified on agar slant or transport medium. Must be transported in a double-walled container if by mail.
Availability:	Daily
Reference Range:	See Laboratory report
Methodology:	Biochemical identification
Turn Around Time:	24 to 48 hours.

Identification and Susceptibility, Bacterial Organism

Test Code:	IDS
Specimen:	Culture of organism to be identified on agar slant or transport medium. Must be transported in a double-walled container if by mail.
Availability:	Daily
Reference Range:	See Laboratory report
Methodology:	Biochemical identification and susceptibility of single aerobic isolates.
Turn Around Time:	24-48 hours

IGF-I (Somatomedin-C)

Test Code:	IGF-I or SOMATOC
Testing Site:	Lab Corps
Specimen Requirement:	1.0 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Extraction, Radioimmunoassay
Reference Range:	Age and sex dependant. See Report.

IgG Subclasses

Test Code:	IGGSUB
Testing Site:	Lab Corps
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Radioimmunodiffusion
Remarks:	See Report for Reference Ranges

LABORATORY TEST INFORMATION

Immunofixation Electrophoresis, Serum

Test Code:	IMMFXS
Testing Site:	Lab Corps
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Electrophoresis

Immunofixation Electrophoresis, Urine (Bence Jones Protein)

Test Code:	IEPU
Testing Site:	Lab Corps
Specimen Requirement:	0.5 mL Urine
Container:	Random urine
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Electrophoresis
Reference Range:	No monoclonal proteins

Immunoglobulins, IgA, IgG, and IgM

Test Codes:	IGA, IGG, IGM
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	Monday through Friday
Turnaround Time:	1 - 3 days
Methodology:	Nephelometry
Reference Ranges:	Age dependant. See report.

Immunoglobulin E (IgE)

Test Code:	IGE
Testing Site:	Lab Corps
Specimen Requirement:	1.0 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Nephelometry
Reference Range:	See report

LABORATORY TEST INFORMATION

Infectious Mononucleosis Screen

Test Code:	MO
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	Monday through Friday
Turnaround Time:	Next day
Methodology:	Latex agglutination
Reference Range:	Negative
Remarks:	Available Stat, results within 1 hour of receipt.

Influenza A + B, Direct Antigen Detection

Test Code:	FLUAG
Specimen:	Nasal wash in sterile container. Note: Do not use wooden or calcium alginate swabs.
Availability:	Daily
Reference Range:	Negative for Influenza A nucleoprotein antigen Negative for Influenza B nucleoprotein antigen
Methodology:	Immunochromographic assay
Turn Around Time:	4 - 24 hours

India Ink, CSF

Test Code:	II
Specimen:	Cerebral Spinal Fluid
Availability:	Daily
Reference Range:	Negative
Methodology:	Microscopic examination of India Ink preparation.
Turn Around Time:	24 hours
Remarks:	See Cryptococcal Antigen (CRYP) for more sensitive test.

Iron

Test Code:	IRON
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Same day
Methodology:	Colorimetric
Reference Range:	Females: 35 - 140 ug/dL Males: 45 - 150 ug/dL

LABORATORY TEST INFORMATION

Kidney Stone - Refer to Calculus

KOH Prep

Test Code:	KOH
Specimen Requirement:	Submit Skin or Nail scrapings, Hair, Sputum or Vaginal swab.
Availability:	Daily
Turnaround Time:	Within 24 hours
Methodology:	Microscopic examination
Reference Range:	No yeast or hyphal elements seen.

Lactate Dehydrogenase (LDH)

Test Code:	LDH
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Within 4 hours
Methodology:	Enzymatic
Reference Range:	0 - 21 Days: 225 - 600 U/L 21D - 16 Y: 120 - 300 U/L Over 16: 135 - 235 U/L
Remarks:	Avoid Hemolysis

Lactic Acid

Test Code:	LA
Specimen Requirement:	1.0 mL Plasma
Container:	Gray top tube
Availability:	7 days/week
Turnaround Time:	Within 4 hours
Methodology:	Enzymatic
Reference Range:	4.5 - 19.8 mg/dL
Remarks:	Collect on ice and deliver to Lab immediately.

LABORATORY TEST INFORMATION

Lead, Blood

Test Code:	LEADV for Venipuncture specimens LEADC for Capillary specimens
Testing Site:	Lab Corps
Specimen Requirement:	0.5 mL Whole Blood
Container:	Tan or Lavender
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Atomic Absorption Spectrophotometry
Reference Range:	Less than 10 ug/dL

Legionella Urinary Antigen

Test Code:	LEGU
Specimen:	Urine in sterile container or B-D Urine Culture Transport Tube (gray top).
Availability:	Daily
Reference Range:	Presumptive negative for L. pneumophila serogroup 1 antigen
Methodology:	Immunochromatographic assay
Turn Around Time:	24 hours

Leukocyte Alkaline Phosphatase

Test Code:	LAP
Specimen Requirement:	3-5 mL Whole Blood
Container:	Na Heparin Green Top, Protect from Light
Availability:	Monday through Friday
Turnaround Time:	Same day
Reference Range:	18 - 134
Method:	Manual test kit

Lipase

Test Code:	LIP
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Same day
Methodology:	Enzymatic
Reference Range:	0 - 60 U/L

LABORATORY TEST INFORMATION

Lipid Panel

Test Code:	LIPID
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Same day
Remarks:	Includes Cholesterol, Triglycerides, HDL, LDL, Chol/HDL ratio, and Risk.

Lithium

Test Code:	LI
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Within 4 hours
Methodology:	Colorimetric
Reference Range:	0.5 - 1.3 mmol/L
Remarks:	Toxic levels above 2.0 mmol/L

Lupus Anticoagulants

Test Code:	LUPUS
Testing Site:	Lab Corps
Specimen Requirement:	10 mL Whole Blood
Container:	2 Blue Top Tubes ON ICE
Availability:	Monday through Friday
Turnaround Time:	2 to 7 days
Reference Range:	Not Detected Interpretative text will be reported with positive results.
Method:	Photo-Optical
Remarks:	Send specimen to Lab ASAP. Plasma must be removed and frozen immediately.

LABORATORY TEST INFORMATION

Luteinizing Hormone (LH)

Test Code:	LH
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	Monday through Saturday
Turnaround Time:	Same day
Methodology:	Electrochemiluminescence
Reference Range:	Males: 2.0 - 12.0 MIU/mL Females: Post Menopause: 13.1 - 86.5 MIU/mL Follicular Phase: 2.6 - 12.1 MIU/mL Mid-Cycle Peak: 27.3 - 96.9 MIU/mL Luteal Phase: 0.83 - 15.5 MIU/mL

Lyme Disease Antibody, CSF

Test Code:	LYMCSF
Reference Lab:	Lab Corps
Specimen:	1 ml of CSF in sterile plastic vial.
Availability:	Monday through Friday
Reference Range:	IgG Antibodies: < 0.8 Index IgM Antibodies: < 0.8 Index
Methodology:	Enzyme Immunoassay
Turn Around Time:	3 days

Lyme Disease Antibody, IgG and IgM Screen, Serum

Test Code:	LYMSCR
Specimen:	1 ml serum in Gel Barrier tube
Availability:	Mon, Wed, Fri
Reference Range:	Negative
Methodology:	Enzyme Immunoassay
Turn Around Time:	1-4 days
Remarks:	All positive or equivocal samples will automatically be tested for Lyme Disease by Western Blot.

LABORATORY TEST INFORMATION

Lyme Disease Antibody, IgG and IgM, Serum - (Western Blot)

Test Code:	LYMWB
Reference Lab:	Lab Corps
Specimen:	1 ml serum in Gel Barrier tube
Availability:	Monday through Friday
Reference Range:	Negative
Methodology:	Western Blot
Turn Around Time:	4 days
Remarks:	No standard criteria exists for the interpretation of Western Blot for Lyme Disease. Evaluation for Western Blot is based on the specific type and number of bands present. Generally, bands with low molecular weight are genus/species specific whereas those of high molecular weight are highly cross reactive. Bands are not always species or genus specific and may be found with other Organisms such as Treponemas, Leptospira and other Borrelia species. Bands with high molecular weight are often seen in other viral or bacterial diseases.

Lyme Disease, PCR

Test Code:	LYMPCR
Reference Lab:	Lab Corps
Specimen:	10 mL whole blood, 3 mL CSF frozen, 2 mL synovial fluid, 10 mL urine frozen, or 0.3 G tissue, frozen.
Availability:	Tues, Thurs, Sat
Reference Range:	Not detected
Methodology:	PCR
Turn Around Time:	5 – 6 days

Lyme Disease, Tick - See Tick

Magnesium

Test Code:	MG
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Within 4 hours
Methodology:	Colorimetric
Reference Range:	1.4 - 2.4 mg/dL
Remarks:	Available Stat, results within 1 hour of receipt.

LABORATORY TEST INFORMATION

Malaria Smears

Test Code:	MAL
Specimen Requirement:	3-5 mL Whole Blood
Container:	Lavender
Availability:	Every day
Turnaround Time:	4 hours
Reference Range:	No Malarial parasites seen
Method:	Microscopic evaluation

Metanephrines

Test Code:	METU , 24 Hour urine METUR , Random urine
Testing Site:	Lab Corps
Specimen Requirements:	50 mL of Urine Collection
Container:	24 Hour Urine Container Add 25 mL of 6N HCl at Start of collection
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	HPLC, Electrochemical Detection
Reference Range:	See report
Remarks:	Patient should avoid tobacco, tea and coffee for three days prior to collection. Medications which are alpha antagonists (Aldomet) and alpha blockers should be avoided for 18-24 hours prior to collection.

Microalbumin

Test Code:	MICROALB
Specimen Requirements:	10 mL Urine
Container:	Random Urine 24 Hour Urine
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Nephelometry
Reference Range:	0 – 2.8 mg/dL in random urine 0 - 29 mg/Day for 24 hour collections
Remarks:	Includes Urine Creatinine and Microalbumin/ creatinine ratio.

Microsomal Antibody-TPO - Refer to Antimicrosomal Ab

LABORATORY TEST INFORMATION

Microsporidium Stain, Stool

Test Code:	MICROSP
Reference Lab:	Specialty Laboratories
Specimen:	10 gm fresh stool in a sterile container or fill to line in 10% formalin vial from Parasitology Transport Kit. Specimens in PVA fixative cannot be tested.
Availability:	Monday through Friday
Reference Range:	Negative
Methodology:	Modified Acid Fast stain
Turn Around Time:	3 - 5 days
Remarks:	See Microbiology Information for limitations in collection of stool specimens.

Mitochondrial Antibody - Refer to Anti-Mitochondrial AB

MRSA – Refer to Culture, MRSA R/O

MRSADNA

Test Code:	MRSADNA
Specimen:	Nasal swab, use swab with Liquid Stuart Medium . Swab both left and right nares with same swab.
Availability:	Monday through Friday
Reference Range:	Negative
Methodology:	PCR
Turn Around Time:	Same day, Monday through Friday

Mumps, IgG Screen, Serum

Test Code:	MUMPS
Specimen:	1 ml serum in Gel Barrier tube
Availability:	Tuesday and Thursday
Reference Range:	Positive (if immunized)
Methodology:	Enzyme Immunoassay
Turn Around Time:	1-4 days
Remarks:	Serum is held for 5-7 days, if additional testing is desired.

Mycobacteria Culture – Refer to Culture, Acid Fast

LABORATORY TEST INFORMATION

Myoglobin Screen

Test Code:	MYGB for Serum MYOGLBU for Urine
Specimen Requirement:	0.5 mL Serum 1.0 mL Urine
Container:	Gel Barrier Random Urine
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Nephelometry
Reference Range:	See report
Remarks:	Avoid Hemolysis in serum samples

Nortryptiline

Test Code:	NORTRIP
Testing Site:	Lab Corps
Specimen Requirement:	0.5 mL Serum
Container:	Plain Red Top; Do not collect in Gel Barrier tubes
Availability:	7 days/week
Turnaround Time:	1 day
Reference Range:	50 - 150 mcg/L Toxic Level: > 500 mcg/L
Methodology:	HPLC

Occult Blood, Stool

Test Code:	SOB
Specimen Requirement:	0.5 gm Stool
Container:	Random urine
Availability:	7 days/week
Turnaround Time:	Next day
Methodology:	Guaiac impregnated slide
Reference Range:	Negative

Osmolality, Serum or Urine

Test Codes:	OSMO for Serum OSMOU for Urine
Specimen Requirement:	0.5 mL Serum or Urine
Container:	Gel Barrier or Random Urine
Availability:	7 days/week
Turnaround Time:	Same day
Methodology:	Freezing Point Depression
Reference Range:	Serum: 275 - 297 mOsm/kG Urine: 100 - 1000 mOsm/kG

LABORATORY TEST INFORMATION

Osmotic Fragility

Test Code:	RBCOF
Testing Site:	Lab Corps
Specimen Requirement:	5 mL Whole Blood, 5ml whole blood normal patient control
Container:	Lavender
Availability:	Monday through Thursday BEFORE 1 pm
Turnaround Time:	24 hours
Reference Range:	See report
Method:	Manual Test Kit
Remarks:	Send specimen to Lab ASAP. Specimen must be sent same day that it is drawn.

Ova and Parasites, Stool

Test Code:	OP
Specimen:	10 gm of fresh stool in a sterile container or fill to line in Ecofix vial from Parasitology Transport Kit. Submit one specimen at a time with at least one day in between. Preferably no more than 2 specimens in total.
Availability:	Monday through Friday
Reference Range:	No ova or parasites found
Methodology:	Microscopic examination of concentrated and trichrome stained preparations.
Turn Around Time:	24 to 48 hours
Remarks:	Unpreserved specimens should be submitted to Lab within 4 hours of collection. Giardia is the most frequently identified parasite. Consider ordering Giardia Antigen (GIAG), a more sensitive test. For Cryptosporidium, see Cryptosporidium Antigen (CRYPSPAG), for Cyclospora/ Isospora, see Cyclospora/Isospora Stain (CYCLOISOS), for Microsporidium, see Microsporidium Stain (MICROSP), for pinworm, see Pinworm Preparation (PIN). Specify any suspect parasite(s).

Parathyroid Homone (PTH), Intact

Test Codes:	PTHIRMA for Parathyroid Hormone Intact PTHMID for Parathyroid Hormone Mid/C
Specimen Requirement:	0.5 mL Plasma
Container:	Lavender
Availability:	7 days/week
Turnaround Time:	Within 4 hours
Methodology:	Electrochemluminescence
Reference Range:	15 – 65 pG/mL

LABORATORY TEST INFORMATION

Parvovirus

Test Code:	PARVO
Testing Site:	Lab Corps
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Enzyme Immunoassay
Reference Range:	Parvo IgG Ab: Less than 0.8 Parvo IgM Ab: Less than 0.8
Remarks:	Includes IgG and IgM

PCP (Pneumocystis carinii), Direct Antigen

Test Code:	PCPFA
Reference Laboratory:	Boston Medical Center
Specimen:	Bronchoalveolar lavage, induced sputum or fresh bronchial washings in sterile container.
Availability:	Monday through Friday
Reference Range:	Negative
Methodology:	Direct fluorescent antibody stain
Turn Around Time:	3 - 4 days

Pertussis Antibody - See Bordetella pertussis Antibody

Pertussis Culture – See Culture, Bordetella pertussis

Phenobarbital

Test Code:	PHNO
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Within 4 hours
Methodology:	CEDIA
Therapeutic Range:	15 - 40 ug/mL
Remarks:	Toxic levels above 60 ug/mL

LABORATORY TEST INFORMATION

Phenytoin

Test Code:	PTN
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Within 4 hours
Methodology:	EIA
Therapeutic Range:	10 - 20 ug/mL
Remarks:	Toxic levels above 25 ug/MI

Phosphorus, Serum or Urine

Test Codes:	PHOS TUPHOS for 24 Hour Urine RUPHOS for Random Urine
Specimen Requirement:	0.5 mL Serum 0.5 mL Urine
Container:	Gel Barrier 24 Hour urine or Random Urine
Availability:	7 days/week
Turnaround Time:	Same day
Methodology:	Colorimetric
Reference Range:	Age 0 - 2 Yr: 4.5 - 6.7 mg/dL 2 - 12 Yr: 4.5 - 5.5 mg/dL Over 12 Yr: 2.7 - 4.5 mg/dL
	Urine Phosphorus: 0.03-1.8 G/Day

Pinworm Preparation

Test Code:	PIN
Specimen:	Scotch tape (clear, not frosted) preparation on slide or pinworm paddle of perianal area collected early in A.M. before patient rises (pinworm paddle is preferable).
Availability:	Monday through Friday
Reference Range:	Negative for Enterobius vermicularis
Methodology:	Microscopic examination
Turn Around Time:	24 hours

LABORATORY TEST INFORMATION

Platelet Count

Test Code:	PLT
Specimen Requirement:	3-5 mL Whole Blood
Container:	Lavender
Availability:	24 hours per day, 7 days a week
Turnaround Time:	2 hours
Reference Range:	150,000 – 400,000/mm ³
Methodology:	Automated CBC Analyzer
Remarks:	Micro method available. Available STAT, results within 15 minutes of receipt in the Lab

Platelet Aggregation

Test Code:	PLTAGG
Reference Lab:	Brigham & Woman's Hospital
Specimen Requirement:	40 mL Whole Blood
Container:	4 Blue Top Tubes
Availability:	Monday through Friday, Draw before 1 pm
Turnaround Time:	2 - 7 days
Reference Range:	See report
Method:	Spectrophotometric
Remarks:	DO NOT spin down or refrigerate samples. RUSH samples to Lab; must be sent out immediately to arrive in Boston within 1-2 hours after collection.

Platelet Antibodies, Direct

Test Code:	PLTABD
Reference Lab:	Lab Corps
Specimen Requirement:	7 mL Whole Blood
Container:	1 Lavender
Availability:	Monday through Friday
Turnaround Time:	2 - 7 days
Reference Range:	Negative
Method:	Flow Cytometry
Remarks:	DO NOT spin down or refrigerate samples.

LABORATORY TEST INFORMATION

Platelet Antibodies, Indirect

Test Code:	PLTABI
Reference Lab:	Lab Corps
Specimen Requirement:	1.5 mL Serum
Container:	1 Plain Red top tube Do not collect in Gel Barrier tube
Availability:	Monday through Friday
Turnaround Time:	2 - 7 days
Reference Range:	Negative
Method:	EIA
Remarks:	Freeze sample

Pneumocystis carinii – Refer to PCP

Potassium, Serum or Urine

Test Codes:	K RUK for Random Urine Potassium TUK for 24 Hour Urine Potassium
Specimen Requirement:	0.5 mL Serum 0.5 mL Urine
Container:	Gel Barrier Random or 24 Hour Urine
Availability:	7 days/week
Turnaround Time:	Within 4 hours
Methodology:	Ion Selective Electrode
Reference Range:	Serum: 3.5 - 5.3 mmol/L Timed Urine: 25 - 150 mmol/Day
Remarks:	Available Stat, results within 1 hour of receipt

PreAlbumin

Test Code:	PREALB
Specimen Requirements:	0.5 mL Serum
Container:	Gel Barrier
Availability:	Monday through Friday
Turnaround Time:	1 - 3 days
Methodology:	Nephelometry
Reference Range:	18 - 45 mg/dL

LABORATORY TEST INFORMATION

Pre-Natal Profile, includes Type +Screen, HP, Rubella, RPR, HBsAG, and Toxo when specified

Test Codes:	PNP and PNP2 PNPT and PNP2 includes Toxo Screen
Specimen Requirement:	10 mL Blood
Containers:	6 mL Pink, 4.5 mL Lavender and Gel Barrier tubes
Availability:	Monday through Saturday, 8:00 am to 4:00 pm
Turnaround Time:	24 hours

Primidone, (Mysoline)

Test Code:	PRIM
Testing Site:	Lab Corps
Specimen Requirement:	0.5 mL Serum
Container:	Plain Red Top Tube Do not collect in Gel Barrier tube
Availability:	7days/week
Turnaround Time:	1 day
Methodology:	Immunoassay
Therapeutic Range:	5 - 12 mg/L

Procainamide and NAPA, (Pronestyl)

Test Code:	PROCAN Includes Procainamide and NAPA
Testing Site:	Lab Corps
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Same day
Methodology:	Immunofluorescence
Therapeutic Range:	Total: 5 - 30 ug/mL

Progesterone

Test Code:	PROG
Specimen Requirements:	1.0 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Enzyme Immunoassay
Reference Range:	See report

LABORATORY TEST INFORMATION

Prolactin

Test Code:	PRL
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	Monday through Saturday
Turnaround Time:	Same day
Methodology:	Electrochemiluminescence
Reference Range:	Males: 3.7 - 17.9 ng/mL Females: 3.0 - 18.6 ng/mL

Prostate Specific Antigen (PSA)

Test Code:	PSA
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	Monday through Saturday
Turnaround Time:	Same day
Methodology:	Electrochemiluminescence
Reference Range:	Males: 0.0 - 4.0 ng/mL Females: 0.0 - 0.1 ng/mL

Prostate Specific Antigen, Total and Free

Test Code:	PSATF
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 Days/week
Turnaround Time:	Same day
Methodology:	Electrochemiluminescence
Reference Range:	See report

Protein C Assay

Test Code:	PROTC
Testing Site:	Lab Corps
Specimen Requirement:	10 mL Whole Blood
Container:	2 Blue Top Tubes ON ICE – Deliver immediately Plasma needs to be separated and frozen.
Availability:	Monday through Friday
Turnaround Time:	2 to 7 days
Reference Range:	Activity: 70 - 140% Antigen: 70 - 140%
Method:	Activity by photo-optical Antigen by immunological

Protein Electrophoresis

LABORATORY TEST INFORMATION

Test Code:	PEP
Testing Site:	Lab Corps
Specimen Requirement:	1.0 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Electrophoresis
Reference Range:	See Report
Remarks:	Includes Albumin, Alpha 1, Alpha 2, Beta 1, Beta 2, and Gamma Globulin with Scan and Interpretation.

Protein Electrophoresis, Urine

Test Code:	UPEP
Testing Site:	Lab Corps
Specimen Requirement:	10 mL Urine
Container:	Random Urine
Availability:	7 days/week
Turnaround Time:	3 days
Reference Range:	See Report
Remarks:	Includes Urine Total Protein, Albumin, Globulin, and Electrophoresis.

Protein S (Free) Functional Activity

Test Code:	PROTS
Testing Site:	Lab Corps
Specimen Requirement:	10 mL Whole Blood
Container:	2 Blue Top Tubes ON ICE
Availability:	7 Days/week
Turnaround Time:	3 Days
Reference Range:	Protein S Functional: 60 - 150%
Method:	Clot Detection
Remarks:	Send specimen to Lab immediately. Plasma needs to be separated and frozen immediately.

LABORATORY TEST INFORMATION

Protein, Urine

Test Code:	RUP for Random Urine Protein TUP for Timed Urine Protein
Specimen Requirement:	0.5 mL Urine
Container:	Random or 24 Hour Urine Container
Availability:	7 days/week
Turnaround Time:	Same day
Methodology:	Colorimetric
Reference Range:	Random Urine: 1 - 14 mg/dL Timed Urine: 0 - 150 mg/Day 0 - 165 mg/Day at LMH
Remarks:	Do not preserve specimen with acid

Prothrombin Time (PT)

Test Code:	DPT – Diagnostic PT TPT – Therapeutic PT, patient on Coumadin
Specimen Requirement:	4.5 mL Whole Blood
Container:	Blue
Availability:	24 hours per day, 7 days a week
Turnaround Time:	2 hours
Reference Range:	INR: 0.8 - 1.1 for Diagnostic 2.0 – 4.0 for Therapeutic
Method:	Photo-Optical Clot Detection
Remarks:	Mix well. Available STAT, results within 45 minutes of receipt in Lab.

PTH - Refer to Parathyroid Hormone

PTT, Activated Partial Thromboplastin Time

Test Codes:	DPTT – Diagnostic TPTT – Therapeutic, Patient on Heparin
Specimen Requirement:	4.5 mL Whole Blood
Container:	Blue
Availability:	24 hours per day, 7 days a week
Turnaround Time:	2 hours
Reference Range:	22.8 - 34.3 seconds for Diagnostic 54.0 – 75.0 seconds for Therapeutic
Method:	Photo-Optical Clot Detection

LABORATORY TEST INFORMATION

Remarks: Mix well.
Available STAT, results within 45 minutes of receipt in Lab.

Pyruvate

Test Code: **PYRUV**
Testing Site: Lab Corps
Specimen Requirements: 4.0 mL Supernatant
Container: **Gray top tube**
Availability: 7 days/week
Turnaround Time: 3 days
Methodology: Enzymatic
Reference Range: See report
Remarks: **Deliver immediately to Lab.**
Add whole blood immediately to 8% perchloric acid. Mix well and refrigerate for 10 minutes. Centrifuge and remove supernatant.

Quinidine

Test Code: **QUIN**
Testing Site: Lab Corps
Specimen Requirement: 0.5 mL Serum
Container: Gel Barrier
Availability: 7 days/week
Turnaround Time: Same day
Methodology: Immunofluorescence
Therapeutic Range: 2.0 - 5.0 ug/mL

RAST - Refer to Allergy Screen

Reticulocyte Count

Test Code: **RETIC**
Specimen Requirement: 3-5 mL Whole Blood
Container: Lavender
Availability: 24 hours per day, 7 days a week
Turnaround Time: 4 hours
Reference Range: Age 0 to 12 Yr: 2.0 - 6.0 %
Over age 12: 0.5 - 2.5 %
Method: Automated Cell Counter
Remarks: Mix well.

LABORATORY TEST INFORMATION

Rheumatoid Factor Screen

Test Code:	RAS
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	Monday through Friday
Turnaround Time:	2 days
Methodology:	Latex agglutination
Reference Range:	Negative
Remarks:	Positive screens will be titered.

RhIG Work-Up

Test Code:	RHIG
Specimen Requirement:	7 mL Blood
Container:	7 mL Pink top tube
Availability:	24 hours a day, 7 days a week
Turnaround Time:	1-3 hours
Reference Range:	Negative
Remarks:	Performed on Rh negative mothers who deliver Rh positive infants. If positive, additional administration of RhoGam may be indicated.

Rhogam, Ante-natal

Test Code:	RHIGOP
Specimen Requirement:	7 mL Blood
Container:	7 mL Pink
Availability:	Monday through Friday, 8:00 am to 3:00 pm
Turnaround Time:	1 hour
Remarks:	Outpatient Rhogam will be administered on the basis of PNP Blood Type on file.

Rotavirus Antigen, Stool

Test Code:	RTV
Specimen:	1 gm stool in a sterile plastic container. Transport specimen at 2 – 8 °C.
Availability:	Monday through Friday
Reference Range:	Rotavirus antigen not present
Methodology:	Enzyme Immunoassay
Turn Around Time:	24 hours

LABORATORY TEST INFORMATION

RPR

Test Code:	RPR
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	Monday through Friday
Turnaround Time:	Next day
Methodology:	Flocculation
Reference Range:	Non-reactive; Reactive results will be confirmed at State Lab

RSV (Respiratory Syncytial Virus), Direct Antigen

Test Code:	RSV
Specimen:	Nasopharyngeal wash in sterile container. Store refrigerated. Do not freeze.
Availability:	Daily
Reference Range:	No RSV antigen detected
Methodology:	Immunochromatographic assay
Turn Around Time:	1 hour
Remarks:	Season is generally November through April

Rubella Antibody, IgG

Test Code:	RUBELLA
Specimen Requirements:	1.0 mL Serum
Container:	Gel Barrier
Availability:	Monday, Wednesday and Friday
Turnaround Time:	2 Days
Methodology:	Enzyme Immunoassay
Reference Range:	Immune
Remarks:	Immune status determination. Serum is held for 5-7 days if additional testing is desired.

Rubeola Antibody, IgG

Test Code:	RUBEOLA
Specimen Requirements:	1.0 mL Serum
Container:	Gel Barrier
Availability:	Monday, Wednesday and Friday
Turnaround Time:	2 days
Methodology:	Enzyme Immunoassay
Reference Range:	Immune
Remarks:	Immune status determination. Serum is held for 5 - 7 days if additional testing is desired.

LABORATORY TEST INFORMATION

Saccharomyces cerevisiae AB

Test Code:	ASCA
Testing Site:	Lab Corps
Specimen Requirements:	1.0 mL Serum
Container:	Gel Barrier
Availability:	7 Days/week
Turnaround Time:	3 Days
Methodology:	Enzyme Immunoassay
Reference Range:	See report
Remarks:	Includes IgG and IgA

Salicylate

Test Code:	SAL
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Within 4 hours
Methodology:	Colorimetric
Therapeutic Range:	30 - 100 ug/mL for antipyretic/analgesic 150 - 300 ug/mL for anti-inflammatory

Sedimentation Rate

Test Code:	ESR
Specimen Requirement:	4.5 mL Whole Blood
Container:	Lavender
Availability:	24 hours per day, 7 days a week
Turnaround Time:	4 hours
Reference Range:	Male: 0 - 15 mm/hour Female: 0 - 20 mm/hour
Method:	Manual Westergren Method
Remarks:	Mix well.

LABORATORY TEST INFORMATION

Semen Analysis

Test Code:	SEMEN
Specimen Requirement:	0.5 mL Semen
Container:	Random Urine
Availability:	Monday through Friday before 9 am
Turnaround Time:	Same Day
Methodology:	Manual
Reference Range:	Volume: 1.5 - 5.0 mL Sperm Count: > 20 Million/mL Motility: 50 - 100% Rate of Progression: Rapid, Forward, Unidirectional Morphology: > 30% Normal forms
Remarks:	Specimen must be brought to Lab within 1 hour of collection

SGOT – Refer to Aspartate Aminotransferase (AST)

SGPT - Refer to Alanine Aminotransferase (ALT)

Shiga Toxin Test, Stool

Test Code:	SHIGA
Specimen Requirement:	Fresh stool in sterile container or C + S transport vial to fill line.
Availability:	Monday through Friday
Turn Around Time:	24 – 48 hours
Methodology:	EIA tests for presence of Shiga Toxin 1 and 2.
Reference Range:	Negative

Sickle Cell Preparation

Test Code:	SICKLE
Specimen Requirement:	3 - 5 mL Whole Blood
Container:	Lavender
Availability:	24 hours per day, 7 days a week
Turnaround Time:	2 hours
Reference Range:	Negative
Method:	Manual Test Kit

LABORATORY TEST INFORMATION

Sjogrens SSA and SSB Antibody

Test Code:	SSAB
Testing Site:	Lab Corps
Specimen Requirements:	1.0 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Enzyme Immunoassay
Reference Range:	Negative for both SSA and SSB
Remarks:	Referred for SSA and SSB when ENA screen is positive.

Smooth Muscle Antibody - Refer to Anti-Smooth Muscle AB

Sodium, Serum or Urine

Test Codes:	NA RUNA for Random Urine TUNA for 24 Hour Urine
Specimen Requirement:	0.5 mL Serum or Urine
Container:	Gel Barrier Random Urine or 24 hour Urine
Availability:	7 days/week
Turnaround Time:	Within 4 hours
Methodology:	Ion Selective Electrode
Reference Range:	Serum: 135 - 145 mmol/L Timed Urine: 40 - 220 mmol/Day
Remarks:	Available Stat, results within 1 hour of receipt

Somadomedin C - Refer to IGF-I

Specific Gravity, Urine or Fluid

Test Code:	SGU for Urine FLSG for Fluids
Specimen Requirement:	0.5 mL Urine or Fluid
Container:	Random Urine or Plain Red Top
Availability:	7 days/week
Turnaround Time:	Within 4 hours
Methodology:	Refractometer

LABORATORY TEST INFORMATION

Reference Range: Urine: 1.003 - 1.030

Sperm Count

Test Code: **SPMCT**
Specimen Requirement: 0.5 mL Semen
Submit specimen before 12 noon
Container: Random Urine
Availability: Monday through Friday
Turnaround Time: Same Day
Methodology: Manual
Reference Range: Count: > 20 Million/mL
Post Vasectomy: None Seen
Remarks: Specimen must be brought to Lab within 1 hour of collection

Streptococcus Group A, Rapid Test Only

Test Code: **RS, RSO**
Specimen: 2 specimens using culture swab transport media.
Availability: Daily
Reference Range: Negative for Beta Strep, group A
Methodology: Immunochromatographic assay
Turn Around Time: 1 hour
Remarks: Test Code RS will give a follow up culture when negative, RSO will **NOT** have follow up culture

Strep Screen Culture– Refer to Culture, Throat – Beta Hemolytic Strep

Strep Screen Culture, Group B – Refer to Culture, Genital (Vaginal/Rectal)

Strep Screen Culture, Other – Refer to Culture, Strep Screen Other

Substance Abuse Panels

Test Codes: **SAP** = Urine Drug Panel
SAPA = SAP and Urine Alcohol
ERST2 = Acetaminophen and Alcohol
ERST3 = Acetaminophen, Alcohol and Salicylate
ERTOX 2 = SAP and ERST2
ERTOX 3 = SAP and ERST3
Specimen Requirements: SAP and SAPA = 5 mL urine
ERST 2 and 3 = 1.0 mL serum
ERTOX 2 and 3 = 5 mL urine and 1.0 mL serum

LABORATORY TEST INFORMATION

Availability: 24 hours a day, 7 days/week
Turnaround Time: Within 2 hours

Sugar Water

Test Code: **SUGH20**
Testing Site: Quest Diagnostics
Specimen Requirement: 5 ml Whole Blood
Container: Lavender
Availability: Monday through Friday
Turnaround Time: Same day
Reference Range: Negative
Method: Manual

Synovial Fluid Analysis

Test Code: **SYNFL**
Specimen Requirement: 0.5 mL Synovial Fluid
Container: Plain Red Top
Availability: 7 days/week
Turnaround Time: Same Day
Methodology: Manual
Reference Range: No crystals seen
Remarks: Includes Appearance, Viscosity, Crystals, and Mucin.

T 3, Free

Test Code: **FRT3**
Specimen Requirements: 1.0 mL Serum
Container: Gel Barrier
Availability: 7 days/week
Turnaround Time: 3 days
Methodology: Electrochemiluminescence
Reference Range: 2.77 – 5.27 pg/mL

T3, Total

Test Code: **TT3**
Specimen Requirement: 0.5 mL Serum
Container: Gel Barrier
Availability: Monday through Saturday
Turnaround Time: Same day

LABORATORY TEST INFORMATION

Methodology: Electrochemiluminescence
Reference Range: 0.97 – 1.69 ng/mL

T3-Uptake

Test Code: **TU**
Specimen Requirement: 0.5 mL Serum
Container: Gel Barrier
Availability: Monday through Saturday
Turnaround Time: Same day
Methodology: Electrochemiluminescence
Reference Range: 0.75 - 1.40 Units

T4, Free

Test Code: **FRT4**
Specimen Requirements: 1.0 mL Serum
Container: Gel Barrier
Availability: 7 days/week
Turnaround Time: 3 days
Methodology: Electrochemiluminescence
Reference Range: 0.78 – 2.19 ng/dL

T4 (Thyroxine)

Test Code: **T4**
Specimen Requirement: 0.5 mL Serum
Container: Gel Barrier
Availability: Monday through Saturday
Turnaround Time: Same day
Methodology: Electrochemiluminescence
Reference Range: 5.5 – 11.0 mcG/dL

TB Culture – Refer to Culture, Acid Fast

Tegretol - Refer to Carbamezapine

LABORATORY TEST INFORMATION

Testosterone

Test Code:	TESTOS
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Electrochemiluminescence
Reference Range:	Females: 5.7 - 77 ng/dL Males age 0 – 20: 0 - 99 ng/dL 20 - 50: 132 - 813 ng/dL > 50: 71.8 - 623 ng/dL
Remarks:	Use Test Code TESTT for Total and Free Testosterone

Theophylline (Aminophylline)

Test Code:	THEO
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Within 4 hours
Methodology:	EIA
Therapeutic Range:	10 - 20 ug/dL
Remarks:	Toxic levels above 22 ug/dL

Thyroglobulin

Test Code:	THYROGLB
Testing Site:	Lab Corps
Specimen Requirements:	1.0 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Chemiluminescence
Reference Range:	See report

Thyroglobulin Antibody

Test Code:	TAT
Testing Site:	Lab Corps
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier

LABORATORY TEST INFORMATION

Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Chemiluminescence
Reference Range:	0 - 2.0 IU/mL

Thyroid Stimulating Hormone (TSH)

Test Code:	TSH
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	Monday through Saturday
Turnaround Time:	Same day
Methodology:	Electrochemiluminescence
Reference Range:	0.465 - 4.680 mIU/mL

Tick, ID and PCR, for Lyme Disease

Test Codes:	TICKID -Tick ID only TICKIDPCR -Tick ID and PCR
Reference Laboratory:	Lab Corps
Specimen:	Tick in small plastic container.
Availability:	Monday through Friday
Reference Range:	Tick ID - species identification (done in-house) Lyme PCR screen - Not Detected
Methodology:	Macroscopic exam and PCR
Turn Around Time:	3-5 days
Remarks:	Tick culture has been replaced by more sensitive PCR screen.

Tissue Transglutaminase, IgA

Test Code:	TTG
Specimen Requirement:	1.0 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Immunofluorescence Assay
Reference Range:	0 – 19 Units

Total Protein

Test Code:	TP
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LABORATORY TEST INFORMATION

Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Within 4 hours
Methodology:	Colorimetric
Reference Range:	0 - 1 Yr: 4.8 - 7.6 g/dL 1 - 3 Yr: 5.6 - 7.5 g/dL 3 - 16 Yr: 6.0 - 8.0 g/dL > 16 Yr: 6.2 - 8.4 g/dL

Toxoplasma Gondii Antibody Screen, IgG, Serum

Test Code:	TOXO
Specimen:	1 ml serum in Gel Barrier tube
Availability:	Tuesday and Thursday
Reference Range:	Negative
Methodology:	Enzyme Immunoassay
Turn Around Time:	2-4 days
Remarks:	Samples collected very early in the course of infection may not have detectable levels of IgG. In such cases, it is recommended that an IgM assay be performed. Sera is held for 5-7 days, if additional testing is desired.

Transferrin

Test Code:	TRANSF
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	Monday through Friday
Turnaround Time:	2 days
Methodology:	Nephelometry
Reference Range:	212 - 360 mg/dL
Remarks:	Includes Transferrin Index

Transfusion Reaction Work-Up

Specimen Requirement:	See Transfusion Reaction Form for instructions.
Availability:	24 hours a day, 7 days a week
Turnaround Time:	1-2 hours for testing 1-3 days for interpretive report
Remarks:	The Medical Director will interpret results and issue a written assessment. Results suggesting acute hemolysis will be reported immediately .

LABORATORY TEST INFORMATION

Trichomonas Vaginalis Test

Test Code:	TVT
Specimen:	Collect sample from vaginal cavity with sterile rayon swab (CultureSwab). Submit separate swab for TV test, it cannot be used for additional testing. Do not use swabs with cotton tip or wooden shaft. May also be done from saline wet mount of a vaginal swab.
Availability:	Daily
Reference Range:	Negative
Methodology:	Antigen Detection
Turn Around Time:	Routines within 24 hours May be requested STAT, results within 2 hours.
Remarks:	A negative result may be obtained if the specimen collection is inadequate or if antigen concentration is below the sensitivity of the test.

Triglycerides

Test Code:	TRIG
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Same day
Methodology:	Enzymatic
Reference Range:	0 - 200 mg/dL Desirable 200 - 300 mg/dL Borderline Over 300 mg/dL High Normal values increase with age.
Remarks:	12 hour fast required

Troponin T

Test Code:	TROPT
Specimen Requirement:	0.5 mL Plasma or Serum
Container:	Green top tube or Gel Barrier
Availability:	7 days/week
Turnaround Time:	Within 1 hours
Methodology:	Enhanced Chemiluminescence
Reference Range:	0.00 - 0.02 ng/mL
Remarks:	Decreased values seen with hemolysis

LABORATORY TEST INFORMATION

Type and Screen (ABO and Rh Type, Antibody Screen)

Test Code:	TS
Specimen Requirement:	7 mL Blood
Container:	7 mL Pink
Availability:	24 hours a day, 7 days a week
Turnaround Time:	1-4 hours, STATs within 60 minutes.
Remarks:	If antibody screen is positive, an antibody identification will be performed. If antibody screen is negative, ABO compatible uncrossmatched blood may be transfused in emergencies with an extremely low likelihood of compatibility problems.

Uric Acid

Test Codes:	URIC TUURIC (24 hour Urine)
Specimen Requirement:	0.5 mL Serum or Urine
Container:	Gel Barrier or 24 Hour Urine
Availability:	7 days/week
Turnaround Time:	Within 4 hours
Methodology:	Enzymatic
Reference Range:	Females: 2.6 - 6.0 mg/dL Males: 3.5 - 7.2 mg/dL Urines: 250 - 750 mg/Day

Urinalysis

Test Codes:	UA UANM – Urinalysis without microscopy UAR – Urinalysis with culture if needed
Specimen Requirement:	15 mL Urine
Container:	Random Urine
Availability:	7 days/week
Turnaround Time:	Within 4 hours
Methodology:	Photo optical
Reference Ranges:	Color: Shades of yellow, straw Appearance: Clear Specific Gravity: 1.003 - 1.030 pH: 5.0 - 8.0 Protein: Negative Glucose: Negative Ketones: Negative Bilirubin: Negative Nitrite: Negative Leukocytes: Negative Blood: Negative
Remarks:	Includes Urine Sediment examination, if Dipstick screen Pos

LABORATORY TEST INFORMATION

Urinalysis w Culture if needed

Test Code:	UAR
Specimen Requirement:	15 mL Urine
Container:	Random Urine
Availability:	7 days/week
Turnaround Time:	Within 4 hours for Urinalysis Preliminary Culture results in 24 hours
Remarks:	Culture will be ordered when Leukocytes or Nitrite are positive.

Urine Culture – Refer to Culture, Urine

Urine Drug Screen

Test Code:	UDP
Specimen Requirement:	1.0 mL Urine
Container:	Random Urine
Availability:	7 days/week
Turnaround Time:	Stats within 1 hour, routines within 4 hours
Methodology:	Immunofluorescence
Reference Range:	Negative
Remarks:	Includes Amphetamines, Barbituates, Benzodiazapines, Cocaine, Cannabinoids, and Opiates.

Urine Sediment

Test Code:	SED
Specimen Requirement:	15 mL Urine
Container:	Random Urine
Availability:	7 days/week
Turnaround Time:	Within 4 hours
Methodology:	Microscopic
Reference Range:	RBC: 0 - 2/HPF WBC: 0 - 2/HPF Epithelial Cells: Few Squamous Mucous: Few strands Bacteria: Negative

LABORATORY TEST INFORMATION

Valproic Acid (Depakene)

Test Code:	VALP
Specimen Requirements:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Same day
Methodology:	EIA
Reference Range:	50 - 125 ug/mL

Vancomycin, Peak or Trough

Test Codes:	VANCP , Peak VANCT , Trough
Specimen Requirement:	0.5 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	Same day
Methodology:	EIA
Reference Range:	Peak: 30 - 40 ug/mL Trough: 5 - 10 ug/mL
Remarks:	Peak levels are drawn 1 hour post infusion. Trough levels are drawn just prior to dosing.

Vanillylmandelic Acid (VMA)

Test Code:	VMA
Testing Site:	Lab Corps
Specimen Requirements:	50 mL of 24 Hour Urine. Collect with 25 mL of 6N HCl
Container:	24 hour Urine
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	HPLC
Reference Range:	See report
Remarks:	Avoid alcohol, tea, coffee, and strenuous exercise prior to collection.

LABORATORY TEST INFORMATION

Varicella/Herpes zoster Antibody, IgG

Test Code:	VZ
Specimen Requirements:	1.0 mL Serum
Container:	Gel Barrier
Availability:	Monday, Wednesday and Friday
Turnaround Time:	2 days
Methodology:	Enzyme Immunoassay
Reference Range:	Negative
Remarks:	Serum is held for 5-7 days, should additional testing be desired

Varicella Culture -See Culture, Varicella zoster

Varicella/Herpes zoster, PCR

Test Code:	VZPCR
Reference Lab:	Specialty Laboratories
Specimen:	1 ml CSF or vesicle swab.
Availability:	Monday through Friday
Reference Range:	Not Detected
Methodology:	PCR
Turn Around Time:	3 - 7 days

Viral Culture (See Culture, Viral)

Vitamin B12 - Refer to B12

Vitamin D, 25 Hydroxy

Test Code:	VITD25OH
Specimen Requirements:	2.0 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	EIA
Reference Range:	See report

LABORATORY TEST INFORMATION

Vitamin D, 1, 25 Hydroxy

Test Code:	VITD125
Testing Site:	Lab Corps
Specimen Requirements:	3.0 mL Serum
Container:	Gel Barrier
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Extraction, Chromatography, Radioreceptor Assay
Reference Range:	See report

VMA - Refer to Vanillylmandelic Acid

Von Willebrand's Panel

Test Code:	VWFP Includes Factor VIII, Von Willibrand's Factor, and Ristocetin Cofactor Activity
Reference Lab:	Brigham and Women's Hospital
Specimen Requirement:	Frozen plasma from 2 Blue top tubes
Container:	2 Blue Top Tubes Children: Collect 5 Pedi Blue Top Tubes
Availability:	Monday through Friday
Turnaround Time:	2 - 7 days
Reference Range:	See report
Remarks:	Freeze samples. Must be sent immediately.

VRE – Refer to Culture, VRE R/O

Wet Mount – Refer to Trichomonas Vaginalis Test or KOH Prep

White Blood Cell Count (WBC)

Test Code:	WBC
Specimen Requirement:	3 - 5 mL Whole Blood
Container:	Lavender
Availability:	24 hours per day, 7 days a week
Turnaround Time:	4 hours
Reference Range:	4.0 - 11.0 x 10/cmm
Method:	Automated Cell Counter
Remarks:	Available Stat, results within 15 minutes of receipt in Lab.

LABORATORY TEST INFORMATION

Worm, Identification

Test Code:	WORM
Specimen:	Worm in sterile container.
Availability:	Monday through Friday
Reference Range:	Negative for human parasite
Methodology:	Microscopic and macroscopic examination
Turn Around Time:	24-48 hours
Remarks:	Any significant findings will be reported.

Yeast Culture –Refer to Culture, Yeast

Zinc

Test Code:	ZINC
Testing Site:	Lab Corps
Specimen Requirements:	1.0 mL Serum
Container:	Royal Dark Blue with No Additive
Availability:	7 days/week
Turnaround Time:	3 days
Methodology:	Inductively coupled plasma, Mass Spectrometry
Reference Range:	670 - 1240 ug/L
Remarks:	Refrain from vitamins and supplements for 3 days prior to testing.