

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
1:1 MIXING STUDY	MIX	1 TO 1 MIX	85730 x3	9 mL Blood	2 Blue Top Vac	Coagulation, RIH	See Report	Clottable	R = 3-5 days	Component of PT Workup and PTT Workup. Not performed weekends, nights, or holidays.
11-DEOXYCORTISOL (COMPOUNDS)	11DEO	11 DEOXYCORTISOL	82634	5 mL blood (Early morning specimen is preferred)	Red Top Vac	Reference Lab (Quest)	See Report	Extraction, Chromatography, RIA	R = 3-5 days	Sent out.
17-HYDROXY PROGESTERONE	17HYD	17 HYDROXY PROGESTERONE	83498	5 mL blood (Early morning specimen is preferred)	Red Top Vac	Reference Lab (Esoterix)	See Report	Extraction, RIA	R = 5-7 days	Sent out. Store and ship as frozen serum in plastic vial.
17-HYDROXYCORTICOSTEROIDS (includes Creatinine)	U17OH	U 17OHCOR	82565	24 hr urine	Clean plastic (2 L) urine container with 10 gms of boric acid (HCl is also acceptable)	Reference Lab (Quest)	See Report	Modified Porter-Silber Reaction	R = 3-5 days	Refrigerate sample during collection. Preservative should be added prior to collection. Sent out.
17-HYDROXY-PREGNENELONE	Not orderable	Not orderable	83519	5 mL blood	Red Top Vac on ice	Reference Lab (Esoterix)	See Report	Extraction, Chromatography, RIA	R = 3-5 days	Sent out.
17-KETOGENIC STEROIDS (includes Creatinine)	UKETG	U KETOGENIC STEROID	82565	24 hr urine	Clean (2 L) plastic urine container with 10 gms of boric acid	Reference Lab (Quest)	See Report	Spectrophotometry	R = 3-5 days	Refrigerate specimen during collection. Preservative should be added prior to sample collection. Sent out.
17-KETOSTEROID (includes Creatinine)	UKETS	U KETOSTEROID	82565	24 hr urine.	Clean (2 L) plastic urine container with 10 gms of boric acid	Reference Lab (Quest)	See Report	Modified Zimmerman reaction	R = 3-5 days	Refrigerate specimen during collection. Preservative should be added prior to sample collection. Sent out.
18-HYDROXYCORTICOSTERONE	18OHC	18 HYDROXY-CORTICOSTERONE	83491	10 mL blood.	Red Top Vac	Reference Lab (Quest)	See Report	Extraction Chromatography RIA	R = 8 days	Sent out.
2nd Specimen Blood Type	STYPG	SECOND BLOOD TYPE DRAW RIH TMH	86900 86901	Adults : 6 mL blood Whole Blood Required Pediatrics : 3 mL blood	Adults : Pink Plastic Vac Pediatrics: lavender or red top vac	Blood Bank	O Pos O Neg A Pos A Neg B Pos B Neg AB Pos AB Neg	Gel test	R = 45 min S= 30 min.	Required for type specific blood products on new patients who test group A, B or AB on first specimen.
3-Alpha ANDROSTANEDIOL GLUCURONIDE	3AAND	3A ANDROSTANEDIOL	82154	5 mL blood on ice	Red Top Vac	Reference Lab (Quest)	See Report	Enzyme digestion, Chromatography, RIA	R = 3-5 days	Sent out. Synonym 3-ALPHA for procedure :
5-HIAA (Five hydroxy Indole Acetic Acid)	UHIAA	U 5HIAA	83497	24 hr urine	Clean plastic (2L) urine container with 25 mL 6N HCL (Ped): 3-5 mL 6N HCL	Toxicology, RIH	2-8 mg/24 hr	Extraction of 1-Nitroso-2-Napthol	R = Weekly	Preservative should be added to container before sample is collected. Acetic Acid is also acceptable. A special diet should be maintained for 48 hours prior to the start of the collection. Call 444-5858 for instructions.
A/C RATIO										See Microalbumin Urine
A1C										See Hemoglobin A1C
ABO & Rh Type Only	TYPEG	ABORH TYPE and SCREEN	86900 86901	Adults : 6 mL blood Whole Blood Required Pediatrics : 3 mL blood	Adults : Pink Plastic Vac Pediatrics: lavender or red top vac	Blood Bank	O Pos O Neg A Pos A Neg B Pos B Neg AB Pos AB Neg	Gel test	R = 45 min S= 30 min.	Required for Fresh Frozen Plasma, Platelet Concentrate, Cryoprecipitate and Rh Immune Globulin in addition to crossmatch procedures.
Acanthamoeba Smear	ACNTH	EYE ACANTHAMOEBA SMEAR	87206	Corneal Scraping	Slide: make at bedside	Microbiology	Negative	Smear - Calcofluor	Smear R = 2 hrs S = N.A.	Call Lab before sending. Submit specimen and requisition to Lab. Available M-F only, DAY SHIFT.
ACE (ANGIOTENSIN CONVERTING ENZYME)	ACE	ACE	82164	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Enzymatic	R = 3-4 days	Sent out.

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ACETAMINOPHEN (Tylenol)	ACETM	ACETAMINOPHEN LEVEL	82003	5 mL blood	Green Top Vac with Gel (Mint)	Chemistry	Therapeutic Range: 10-20 ug/mL	Immunoturbidimetric	R = daily S = 1 hr.	Critical Values: > 50ug/mL First occurrence only Toxic: 75 150 ug/mL after 4 hrs ug/mL after 8 hrs 50 ug/mL after 12 hrs
ACETYLCHOLINE BINDING RECEPTOR ANTIBODY	ACREC	ACETYCHOLINE RECEPTOR AB	84238	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Radiobinding Assay	R =4-5 days	Sent out.
ACETYLCHOLINE RECEPTOR ANTIBODY BLOCKING	ACRBL		83519	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Immunoassay	R=4-5 days	Sent out.
ACETYLCHOLINE RECEPTOR ANTIBODY MODULATING	ACRMO		83519	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Radiobinding Assay	R=7-10 days	Sent out.
ACID PHOSPHATASE Prostatic	PAP	PROSTATIC ACID PHOSPHATASE RIH	84066	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	MEIA	R = 3 days	Serum frozen.
ACID PHOSPHATASE Stain* Bone Marrow and Peripheral Blood			88319	Bone Marrow or EDTA Blood	Bone Marrow Smears or Lavender Top Vac	Special Hematology RIH		Cytochemical	R=24 hrs.	Pathologist interpretation
ACID PHOSPHATASE TARTRATE RESISTANT STAIN			88319	Bone Marrow or EDTA Blood	Bone Marrow Smears or Lavender Top Vac	Special Hematology, RIH		Cytochemical	R=24 hrs.	Pathologist interpretation
ACTH (Plasma Adrenocortico-tropic Hormone)	ACTH	ACTH LEVEL	82024	5 mL blood	Lavender Top Vac	Reference Lab (Quest)	9-52 pg/mL	Chemiluminesence	R = M,Th	Send on ice. Freeze plasma immediately after processing.
ACTH STIMULATION CORTROSYN										See Cortrosyn Stimulation. Call ext 444-2771.
ACTIVATED PROTEIN C RESISTANCE (APC Resistance)	APCSO	APC RESIST	85300	4.5 mL blood	Blue Top Vac	Coagulation, RIH	2.5 - 5.5 ratio	Clottable	R = 3-5 days	Patient should not be on Heparin or Coumadin. Also known as a Screening assay for Factor V Leiden. There is also a Genetic assay, F-V MUT DNA performed by Molecular Biology.
ACUTE HEPATITIS PANEL	ACHEP	ACUTE HEP PANEL	86709 87340 86803 86705	5 mL Blood	Red Top with Gel (Gold)	Clinical Immunology, Core	See Individual Analytes	See Individual Analytes	R = M - F	Group contains HAAb IgM, HBcAb IgM, HBsAg, Hep C Ab. The CPT Code for the group is 80074
ACYLCARNITINE QUANTIFICATION	ACYLC	ACYLCARNITINE PLASMA	82491	3 mL blood	Special Tube Sodium Heparin Green Top tube	Reference Lab (Quest)	See Report	Mass Spectrometry	R = 15-25 days	Sent out.
ADENOVIRUS SEROLOGY	ADENO	ADENO AB ARGININE	86603	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Complement fixation	R = 3-5 days	Sent out.
ADH (Anti-Diuretic Hormone)	AVP	VASOPRESSINE	84588	5 mL blood	Lavender Top Vac	Reference Lab (Quest)	See Report	Extraction, RIA	R = 3-5 days	Must be received in lab within two hours of collection. Sent out.
ADMA	ADMA	ASYMETRIC DIMETHYL ARGININE		5 mL Blood	Lavender Top Vac on ice	Reference Lab (Quest)	See Report			Sent to Metrametix via Quest.
AFB Culture and smear	CXAFB	See AFB order options based on specimen source	87116 87206	Fluid, tissue, or abscess only	Sterile leakproof container	Microbiology	Negative	Semiautomated detection and smear	R=6 Weeks S=N/A	Swab specimens will be rejected. Tissues should be received in a sterile cup with a drop of sterile saline
A/G Ratio										Albumin and total protein must be ordered individually. The Globulin can be estimated from those two results.
ALA Delta Aminolevulinic Acid	UALA	U AMINOLEUVLINIC ACID 24 HR	82135	24 hr urine	Clean plastic (2L) urine container with 25 mL 6N HCL (Ped) 5 mL 6N HCl	Toxicology RIH	1.3-7.0 mg/24 hr	Extraction, Spectrophotometry	R = 1-2 days	Refrigerate during collection. Preservative should be added prior to collecting sample.
ALANINE AMINO-TRANSFERASE	ALT	ALT	84460	4 mL blood	Green Top Vac with Gel (Mint)	Chemistry	Adult: 6-45 IU/L	Oxidaton of NADH @ 37°C	R = 4 hours S = 1 hr.	Synonym: SGPT

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ALBUMIN	ALB	ALB	82040	4 mL blood	Green Top Vac with Gel (Mint)	Chemistry	Adult: 3.5-5.0 gm/dL	Dye Binding BCP	R = 4 hours S = 1 hr.	Critical : $\leq 1.5$ g/dL First occurrence only Test cannot be performed on hemolyzed specimen.
ALCOHOL	ETOH	ETHANOL LEVEL	82055	5 mL blood	Green Top Vac with Gel (Mint)	Chemistry	ND (Not Detectable)	Enzymatic : Alcohol Dehydrogenase	R & S = 1 hr.	Critical : $> 400$ mg/dL First Incidence only Use Betadine to prepare skin. NOT ALCOHOL. Method measures Ethanol
ALDOLASE	ALDO	ALDOLASE	82085	4 mL blood	Gold or Red Top Vac	Reference Lab (Quest)	See Report	Enzymatic	R = 3-5 days	Sent out. Separate from clot and avoid hemolysis.
ALDOSTERONE, SERUM	ALDOS	ALDOSTERONE SO	82088	4 mL blood	Red Top Vac (no gel)	Reference Lab (Quest)	See Report	Extraction, Chromatography, RIA	R = 3-5 days	Sent out. Sample must be collected in a no additive red top tube.
ALDOSTERONE, URINE	UALDO	U ALDO 24HR	82088	24 hr urine	Clean plastic (2 L) urine container with 10 gms of boric acid	Reference Lab (Quest)	See Report	Extraction, RIA	R = 14 days	Refrigerate sample during collection. Preservative should be added prior to sample collection, but can be added after collection, prior to aliquotting. Sent out.
ALKALINE PHOSPHATASE	ALK	ALKALINE PHOSPHATASE	84075	4 mL blood	Green Top Vac with Gel (Mint)	Chemistry	Adult: 34 - 104 IU/L	p-Nitrophenyl Phosphate	R = 4 hours S = 1 hr.	
ALKALINE PHOSPHATASE ISOENZYME FRACTIONATION	ALKIS									See Isoenzyme Fractionation Alkaline Phosphatase
Alpha FETOPROTEIN	AFP	ALPHA FETO PROTEIN or AFP	82105	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	0-10 ng/mL	Chemiluminescence	R = M - F	Not to be used for Maternal AFP.
Alpha FETOPROTEIN QUAD SCREEN	AFPQU	DOWNTIME SLIP				Reference Lab (Quest)	See Report			Maternal Specimens only
ALPHA SUBUNIT	ASUB	ALPHA SUBUNIT	83519	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	RIA	R = 3-5 days	Sent out.
Alpha-1 ANTITRYPSIN	AAT	ALPHA 1 ANTITRYPSIN	82103	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Adults: 85.7 - 196.5 mg/dL	Nephelometry	R = M-F	
Alpha-1 ANTITRYPSIN (Fecal)	SAA1	FECAL ALPHA 1 ANTITRYPSIN	82103	Random or 24° Stool (minimum 2 gram portion)	Sterile screw top container	Reference Lab (Quest)	See Report	Rate Nephelometry	R = 3-5 days	State duration and weight of collection and whether entire collection is being sent. Sample must be refrigerated or frozen. Sent out.
ALPHA-1 ANTITRYPSIN and MUTATION ANALYSIS	P1TP	ALPHA 1 ANTITRYP AND P1 TYPING	81332	5 mL Whole Blood 3 mL Serum	Red Top Vac and Lavender Top Vac	Reference Lab (Quest)	See Report	Fixed Rate Time Nephelometry and Fluorescent Restriction Fragment Length Polymorphism	R = 10-12 days	Sent out. Test code 17307X. Whole Blood at Room Temp and Serum Refrigerated.
Alpha-NAPHTHYL BUTYRATE ESTERASE STAIN			88319	Bone Marrow or EDTA Blood	Bone Marrow Smears or Lavender Top Vac	Special Hematology, RIH		Cytochemical	R = 24 hrs.	Pathologist Interpretation
ALPRAZOLAM (Xanax)	APRAZ	ALPRAZOLAM LEVEL	80154	5 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 20-240 ng/mL	High Performance Liquid Chromatography	R = Weekly S = 8 hrs.	Synonym: Xanax Toxic: $>240$ ng/mL
ALT (Alanine Amino Transferase)	ALT	ALT	84460	4 mL blood	Green Top Vac with Gel (Mint)	Chemistry	Adult: 6-45 IU/L	Oxidation of NADH (Kinetic)	R = 4 hours S = 1 hr.	Synonym: SGPT
ALUMINUM	ALUM	ALUMINUM LAB	82108	5 mL blood	See Comments	Reference Lab (Quest)	See Report.	Atomic Absorption Spectrometry	R = 3-5 days	Sent out. Draw in Dark / Royal blue top tube with no additive. Alt. Tube is Dark / Royal Blue with EDTA or Sodium Heparin. Assay can be performed on either serum or plasma. Pour into metal free transport tubes.

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AMIKACIN LEVEL	AMKPR AMKPO AMKRA	AMIKACIN PRE POST RANDOM	80150	5 mL blood (Min) 3 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Fluorescence Polarization Immunoassay	R = 1-3 Days	Toxic: > 25 ug/mL Draw blood prior to antibiotic dose. Label "pre". Draw a second sample 40-60 min. after IV administration of antibiotic is finished. Label post or peak. Transport ON ICE.
AMINO ACID PROFILE QUANTITATIVE	AACB AACF AAUR	AMINO ACID QUANT CSF AMINO ACID QUANT U AMINO ACID QUANT	82139	3 mL blood ON ICE 1 ml CSF or random or 24 hr urine ON ICE	Lavendar Top Vac; sterile plastic CSF tube; or clean 2L urine container.	Chemistry, NEMC	Normal values will be listed on final report.	High Performance Liquid Chromatography	R = M - F	Test is quantitation of each Amino Acid - Refrigerate urine samples during collection. Record AGE and WEIGHT for urine collection Turnaround time 1 week. Transport blood sample ON ICE to laboratory. Freeze plasma after processing.
AMIODARONE	AMIO	AMIODARONE AND DAMI	82491	5 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic range: 1.0-2.5 ug/mL	High Performance Liquid Chromatography	R = Weekly S = 8 hrs.	Toxic: >5.0 ug/mL Desethylamiodarone is performed on all requests for amiodarone.
AMITRIPTYLINE (Elavil) See Comments	AMIT	AMITRIP and NORTRIP	80152 80182	10 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic range: total Amitriptyline plus Nortriptyline 120-250 ng/mL	High Performance Liquid Chromatography	R = Tu & F S = 6 hrs.	Toxic: >500 ng/mL Indicate if patient is receiving phenothiazines. Nortriptyline is performed and charged on all requests for amitriptyline.
AMMONIA, PLASMA	NH3	AMMONIA NH3	82140	5mL blood ON ICE	Lavender Top Vac or Pearl PPT Top Vac	Chemistry	5 - 50 umol/L	Timed endpoint with Glutamate dehydrogenase	R & S= 1 hr	Critical Value Ammonia > 100 umol/L If not received on ice, sample will be rejected. If PEARL tube is used the sample is stable for up to 4 hours if spun immediately and sample sent on ice. Outreach should use pearl top tube.
AMOEBIA AB	AMOAB	AMOEBIA TITER	86753	5 mL blood	Red Top Vac	Reference Lab (Quest)	Negative	Immunodiffusion	R = 3-5 days	Sent out.
AMPHETAMINE	AMPH	AMPHETAMINE LEVEL	82145	5 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 20-100 ng/mL	Gas Chromatography/ Mass Spectrometry	R = Weekly S = 8 hrs.	Toxic: >600 ng/mL
AMYLASE	AMYL	AMYLASE PLASMA	82150	3.5 mL blood	Green Top Vac with Gel (Mint)	Chemistry	Adult: 28 - 100 U/L	Enzymatic IFCC Standardized	R = 4 hours S = 1 hr.	Critical Values : Amylase > 200 U/L
AMYLASE Body Fluid	BFAML	BF AMYLASE LAB		1 mL Body Fluid	White Top Vac	Chemistry		Enzymatic IFCC Standardized		
AMYLASE Urine	UAMY	U AMYLASE RANDOM	82150	Random urine	Clean plastic (100 mL) urine container	Chemistry	Male : 16 - 491 U/L Female: 21 - 447 U/L	Enzymatic IFCC Standardized	R= M - F	
AMYLASE (Isoenzymes)	AMYIS	AMYLASE ISOENZYME	82150 82664	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Colorimetric	R= 3-5 days	Sent out. Both total and fractionation performed.
ANA ANTI-NUCLEAR ANTIBODY	ANA	ANTI NUCLEAR ANTIBODY	86038	5 mL blood (Ped) 3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Non-reactive	Indirect Immunofluorescence (IFA)	R = M,W,F	If positive, an ANA Titer (CPT 86039) and pattern determination is done.
ANAPLASMA (Previously known as Ehrlichia Granulocytic)										See A phagocytophilum AB IGG IGM
ANCA ANTI-NEUTROPHILE CYTOPLASMIC ANTIBODY	Not orderable	Not orderable	86256	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	<1:20	Indirect Immunofluorescence (IFA)	R = once a week	Reflexive Rule: If c-ANCA is >1:20 then a Proteinase 3 Ab will be ordered and billed (CPT 83516). If p-ANCA is ≥1:20 then a Myeloperoxidase Ab will be ordered and billed (CPT 83516). ANCA is not an orderable test.
ANCA SCREEN ANTI-NEUTROPHILE CYTOPLASMIC ANTIBODY SCREEN	ANCSN	ANCA SCRIN	86255	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Negative	Indirect Immunofluorescence (IFA)	R = once a week	Reflexive Rule: If Positive, an ANCA will be ordered and billed (CPT 86256). See ANCA for more details.
ANDROSTANEDIOL (3 Alpha Androstanediol Glucuronide)	3AAND	3A ANDROSTANEDIOL	82154	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Enzyme digestion, Chromatography, RIA	R = 3-5 days	Sent out. Synonym for procedure : 3-ALPHA

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ANDROSTENEDIONE	ANIE	ANDROSTENEDIONE	82157	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Enzyme digestion, Chromatography, RIA	R = Wed	Early morning specimen is preferred. Sent out.
ANGIOTENSIN-1 CONVERTING ENZYME	ACE	ACE	82164	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report			See ACE
ANTI-ADRENAL Cortex Antibody	ADRE	ANTIADRENAL ANTIBODY	86256	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	IFA	R = 3-5 days	Sent out.
ANTIBODY SCREEN (Indirect Coombs) See Comments for Reflexive Rule	ABSCG	ANTIBODY SCREEN RIH TMH	86850	Adults : 6 mL blood Whole Blood Required Pediatrics : 3 mL blood	Pink Plastic Vac lavender or red top vac	Blood Bank	Negative	Gel Test	R=80-120 min. S=45-60 min.	<b>Reflexive Rule:</b> A positive antibody screen may reflex an antibody identification.
ANTI-CARDIOLIPIN IGA ANTIBODY	CARDA	ANTI CARDIOLIPIN IGA AB	86147	5 mL Blood	Red Top with Gel (Gold)	Clinical Immunology, Core	IgA < 12 APL <12 Negative 10 to 20 Indeterminate >20 Positive 20 to 80 Low to Med Pos >80 High Positive	Enzyme Immunoassay (EIA)	R = M & Th	<b>Reflexive Rule:</b> If the Cardio IGA is >20 and a LA Screen/Confirm has been ordered, a Beta-2 Glycoprotein Inhibitor (86146) will be ordered and billed.
ANTI-CARDIOLIPIN IGG ANTIBODY	CARDG	ANTI CARDIOLIPIN IGG AB	86147	5 mL Blood	Red Top with Gel (Gold)	Clinical Immunology, Core	IgG < 15 GPL <15 Negative 15 to 20 Indeterminate >20 Positive 20 to 80 Low to Med Pos >80 High Positive	Enzyme Immunoassay (EIA)	R = M & Th	<b>Reflexive Rule:</b> If the Cardio IGG is >20 and a LA Screen/Confirm has been ordered, a Beta-2 Glycoprotein Inhibitor (86146) will be ordered and billed.
ANTI-CARDIOLIPIN IGM ANTIBODY	CARDM	ANTI CARDIOLIPIN IGM AB	86147	5 mL Blood	Red Top with Gel (Gold)	Clinical Immunology, Core	IgM < 12.5 MPL <12.5 Negative 12.5 to 20 Indeterminate >20 Positive 20 to 80 Low to Med Pos >80 High Positive	Enzyme Immunoassay (EIA)	R = M & Th	<b>Reflexive Rule:</b> If the Cardio IGM is >30 and a LA Screen/Confirm has been ordered, a Beta-2 Glycoprotein Inhibitor (86146) will be ordered and billed.
ANTI-CITRULLINE AB	CCPG	ANTI CCP	83520	5 mL blood	Gold or Red Top Vac	Clinical Immunology, Core	Negative : <20 Weak Pos : 20-39 Mod Pos : 40-59 Strong Pos : ≥ 60	EIA	R= M & Th	Assay detects IgG and IgA antibodies to Cyclic Citrullinated Peptide 3.
ANTI-DIURETIC HORME (ADH) (Arginine Vasopressin)	AVP									See ADH
ANTI-DS DNA	ADNA	ANTI DS DNA	86225	5 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	< 1:10	Indirect Immunofluorescence (IFA)	R = twice per week	
ANTI-GBM Glomerular Basement Membrane	GBM1	ANTI GBM ANTIBODY	86317	5 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	<20 Units - Negative 20-30 Units - Weak Pos. >30 Units Mod. To Strong Pos.	EIA	R = Twice per week	Interpretation: Negative: 0 - 20 Units Weak Positive: 21 to 30.0 Units Moderate to Strong Positive: > 30 Units
ANTI-GLIADIN ANTIBODY (IgA) WHEAT AB	GLIAA	GLIADIN IgA	83516	5 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	<20 Units - Negative 20-30 Units - Weak Pos. >30 Units Mod. To Strong Pos.	EIA	R = weekly	
ANTI-GLIADIN ANTIBODY (IgG) WHEAT AB	GLIAG	GLIADIN IgG	83516	5 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	<20 Units - Negative 20-30 Units - Weak Pos. >30 Units Mod. To Strong Pos.	EIA	R = weekly	
ANTIGLOBULIN - DIRECT See Comments for Reflexive Rule	DAT	DIRECT COOMBS TEST	86880	Adults : 6 mL Blood Whole Blood Required Pediatrics : 3 mL Blood	Pink Plastic Vac 2 Tubes for Outpatients Lavender tube only	Blood Bank	Negative	Tube Test	R=30 min. S=15 min.	<b>Critical Value:</b> Positive results when not associated with transfusion reaction. All results when associated with a Transfusion Reaction. <b>Reflexive Rule:</b> A positive direct antiglobulin test may reflex an elution.
ANTI-HISTONE ANTIBODIES	HISAB	HISTONE AB	83520	5mL blood	Red Top Vac	Reference Lab (Quest)	Negative	IFA	R = 3-5 days	Sent out.
ANTI-HU	NEURO	NEURONAL								See Anti-Neuronal Nuclear AB (ANNA)

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ANTI-LA ANTIBODY	SSB	EXT NCLR ANTG (ENA) SSB	86235	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Negative : < 20 Units Weak Pos: 20-39 Mod Pos: 40-80 Strong Pos: ≥80	Enzyme Immunoassay (EIA)	R = Weekly	
ANTI-LIVER-KIDNEY MICROSOME	LIVKI	LIV KID MI	86376	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	IFA	R = 3-5 days	See report for interpretation. Sent out.
ANTI-MITOCHONDRIAL ANTIBODY	MITAB	ANTI-MITOCHONDRIAL AB EIA	83516	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Interpretation : Negative: ≤ 20.0 Equivocal : 20.1 - 24.9 Positive : ≥ 25.0	EIA Enzyme Immunoassay	R = once a week	Interpretation : 20.0 Negative, no Mitochondrial Ab. ≤ 20.1 - 24.9 Suggest further testing ≥ 25.0 Positive, presence of Mitochondrial Ab and suggests the possibility of primary biliary cirrhosis
ANTIMONY	ANTIM	ANTIMONY	83015	5 mL blood	See Comments	Reference Lab (Quest)	See Report			Sent Out. Dark Blue (EDTA) or Plain red trace metal free tube.
ANTI-NEURONAL NUCLEAR AB (ANNA) (ANTI-HU) (ANTI RI)	NEURO	NEURONAL	86255 84181	5 mL blood	Red Top Vac	Reference Lab (Quest)	Negative	IFA / Western Blot	R = 5-7 days	Sent out. If IFA is positive, Reference Lab performs Western Blot to confirm.
ANTI-NEUTROPHILE CYTOPLASMIC ANTIBODY SCREEN ANCA Screen	ANCSN	ANCA SCRIN	86255	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Negative	Indirect Immunofluorescence (IFA)	R = once a week	Reflexive Rule: If Positive, an ANCA will be ordered and billed (CPT 86256). See ANCA for more details. Fasting Required.
ANTI-NUCLEAR ANTIBODY	ANA	ANTI NUCLEAR ANTIBODY or ANA	86038	5 mL blood (Ped) 3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Non-reactive	Indirect Immunofluorescence (IFA)	R = M,W,F	If positive, an ANA Titer (CPT 86039) and pattern determination is done.
ANTI-PANCREATIC ISLET ANTIBODIES	ISLE1	ANT ISLET CELL w REFLEX TITER	86341	5 mL blood	Red Top Vac	Reference Lab (Quest)	Negative	IFA	R = 3-5 days	Sent out.
ANTI-PARIETAL CELL ANTIBODY	APCA	ANTI PARIETAL CELL ANTIBODY	86256	5 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	< 1:20	Indirect Immunofluorescence (IFA)	R = once a week	
ANTI-PHOSPHOLIPID AB										Order as Anti-Cardiolipin IgG, IgM, and IgA
ANTI-PLATELET ANTIBODY (Direct)	APAD	ANTIPLATELET AB DIR or PLT AB, DIR	86022	10 mL blood <b>Whole Blood Required Keep at room temperature</b>	2 Lavender Top Vac	Reference Lab (Quest)	See Report	Microtiter	R = 3-5 days	Draw M-W only. Do not refrigerate or freeze. Must be received at AML within 48 hours of being drawn. Sent out.
ANTI-PLATELET ANTIBODY (Indirect)	PLAB1	PLTELET AB INDIRECT	86022	5 mL blood	Lavender Top Vac	Reference Lab (Quest)	See Report	Microtiter	R = 3-5 days	Spin 10 minutes and freeze plasma in plastic vial. Ship frozen plasma on dry ice. Sent out.
ANTI-RETICULIN AB (IgG)	RETAB	RETICULIN AB	86225 86225	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	IFA	R = 5-7 days	Sent out.
ANTI-RO ANTIBODY	SSA	EXT NCLR ANTG (ENA) SSA	86235	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Negative : < 20 Units Weak Pos: 20-39 Mod Pos: 40-80 Strong Pos: ≥80	Enzyme Immunoassay (EIA)	R = Weekly	
ANTI-SMITH Extractable Nuclear Antigen (ENA) SM	SM	EXT NCLR ANTG (ENA) SMITH	86235	3 mL blood (Min) 1.0 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Negative : < 20 Units Weak Pos: 20-39 Mod Pos: 40-80 Strong Pos: ≥80	Enzyme Immunoassay	R = Weekly	
ANTI-SMOOTH MUSCLE ACTIN ANTIBODY	ACTAB	ANTI-SMOOTH MUSCLE AB	83516	5 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	< 20	EIA Enzyme Immunoassay	R = once a week	Interpretation: 20 Units Negative < > 20 Units Positive, presence of Actin Antibodies - suggests the possibility of autoimmune hepatitis or chronic active hepatitis. Reflexive Rule: If greater than 20, the Anti Smooth Muscle Ab (86256) will be added and billed.
ANTI-SMOOTH MUSCLE ANTIBODY	non-orderable	non-orderable	86256					Indirect Immunofluorescence (IFA)	R = once a week	Non-orderable, Will be reflexed if the Anti Smooth Muscle Actin Ab is greater than 20.

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
ANTI-STREPTOLYSIN O	ASO	ANTI STREPTOLYSIN O TITER	86060	3.0 mL blood	Red Top Vac	Clinical Immunology, Core	0-5 yrs= <125 IU/mL 5-21 yrs= <250 IU/mL >21 yrs= <125 IU/mL	Nephelometry	R = M - F	
ANTI-STRIATED MUSCLE ANTIBODY ANTI-ST-MU	ASTM	ANTI STRIATED MUSCLE AB	86256	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	IFA	R = 3-5 days	Sent out.
ANTITHROMBIN III	ATIII	ANTITHROMBIN III FUNCTION	85300	9.0 mL blood	2 Blue Top Vac Tube	Coagulation, RIH	Functional 63-122	Chromogenic	R = once per week	Patient should not be on Heparin therapy.
ANTI-THYROGLOBULIN ANTIBODY										See Thyroglobulin Autoantibodies
ANTI-THYROID PEROXIDASE ANTIBODY	ATPO	ANTITHYROID PEROXIDASE AB	86376	3 mL blood	Red Top with Gel (Gold)	Chemistry, Core	1 - 60 IU/mL	Immunochemi-luminescence	R = M,Th	Anti-TPO replace Anti Thyroid Microsomal Ab. Freeze serum immediately after processing.
ANTI Xa	AXA	ANTI Xa	85520	4.5 mL Blood	Blue Top Vac	Coagulation	See Comments	Chromogenic	R & S = 1 hr.	Recommended steady state anticoagulation level for Unfractionated Heparin is between 0.3 - 0.7 anti Xa U/ML. Recommended peak anticoagulation intervals for LMWH collected 3 - 5 hours after S.C. injection are as follows: <b>Q 12 Hour Regimen :</b> 0.6 - 1.0 Anti Xa U/ML <b>Q</b> <b>24 Hour Regimen:</b> 1.0 - 2.0 Anti Xa U/ML This result requires interpretation in this context. Patients taking oral Anti Xa drugs such as Rivaroxaban and Apixaban will typically show Anti Xa levels between 0.2 - 2.0 Anti Xa U/ML. A level of less than 0.02 Anti Xa U/ML can be used to exclude drug presence.
ANTI-YO (Purkinje Cell AB)	PURKE	PURKINJE YO AB	86255 86256	5 mL blood	Red Top Vac	Reference Lab (Quest)	Negative	IFA	R = 5-7 days	Sent out.
APC RESISTANCE	APCSO	APC RESIST	85300	4.5 mL blood	Blue Top Vac	Coagulation, RIH	2.5 - 5.5 ratio	Clottable	R = 3-5 days	Patient should not be on Heparin or Coumadin. Also known as a Screening assay for Factor V Leiden. There is also a Genetic assay, F-V MUT DNA performed by Molecular Biology.
APOLIPOPROTEIN A-1	APOA1	APOLIPOPROTEIN A1 SO	82172	3 mL Blood <b>ON ICE</b>	Gold or Red Top Vac	Reference Lab (Quest)	See Report	Nephelometry	R = 7 days S = N.A.	
APOLIPOPROTEIN A-1 & B with Ratio	APOB	APOLIPOPROTEIN A1 AND B	82172 82172	5 mL Blood	Gold or Red Top Vac	Reference Lab (Quest)	See Report	Nephelometry	R = 7 days S = N.A.	The ratio provided is ApoB/A1
APOLIPOPROTEIN B	APOAB	APOLIPOPROTEIN B SO	82172	3 mL Blood	Gold or Red Top Vac	Reference Lab (Quest)	See Report	Nephelometry	R = 7 days S = N.A.	
APOLIPOPROTEIN E GENOTYPING	APOE1	APOE GENOTYPE ADMARK	81401	10 mL Blood <b>Whole Blood Required Room Temp</b>	2 Lavender Top Vac	Reference Lab (Athena)	See Report	PCR	R=2 weeks	Testing will not be released by Reference Lab until a Genetic Release form has been completed. Must be drawn M-W or Thursday, but must be received at TMH by 2 PM.
aPTT (PTT) (Activated Partial Thromboplastin Time)	PTT	PTT	85730	2.7 mL blood	Blue Top Vac	Coagulation	6 mos. - Adult 24 - 37 sec.	Clottable	R = < 4 hrs. S = 45 min	Critical Value : PTT > 135 seconds Accuracy of this test is based on the ratio of Blood to anticoagulation: The tube MUST contain at least 2.7 mL of blood.
ARBO VIRUS ANTIBODY Titers - IgM Antibodies to Arbo Virus	ARIM1	ARBOVIRUS IGM AB PANEL	86651 86652 86653 86654	5 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report		R =14 days	Includes St. Louis, EEE, WEE and CAE. Sent to Focus via Quest

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
ARBO VIRUS ANTIBODY Titers - IgG Antibodies to Arbo Virus	ARIG1	ARBOVIRUS IGG AB PANEL	86651 86652 86653 86654	5 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report		R = 14 days	Includes St. Louis, EEE, WEE and CAE. Sent to Focus via Quest
ARGININE VASOPRESSIN (ANTIDIURETIC HORMONE)	AVP									See ADH
ARSENIC WHOLE BLOOD	ARS	ARSENIC BLOOD	82175	5 mL Blood at Room temp <b>Whole Blood Required</b>	Green Top Vac (Sodium Heparin)	Reference Lab (Quest)	See Report	ICP-MS	R = 5-7 days	Sent out. Fish, shellfish and kelp should not be consumed for at least one week prior to test. Alt. Tube is Dark / Royal Blue with EDTA or Sodium Heparin.
ARSENIC, RANDOM URINE	UASR	U ARSENIC RANDOM	82175	Random urine	Clean plastic (100 mL) urine container	Toxicology, RIH	0 - 100 ug/L	Atomic Absorption Spectrometry	R = Fri. (Biweekly) S = 24 hr	Toxic: > 200 ug/L
ARSENIC, URINE 24Hr	UAS	U ARSENIC 24 HR	82175	24 hour urine	Clean plastic (2 L) urine container with 25mL 6N HCL	Toxicology, RIH	0-100 ug/L	Atomic Absorption Spectrometry	R = Fri. (Biweekly) S = 24 hr	Toxic: Acute >200 ug/L Refrigerate specimen during collection. Preservative should be added prior to specimen collection.
ARTERIAL BLOOD GASES	ABG	ABG (RIH) ARTERIAL (TMH) SACCHAROMYCES IGA AND IGG	83803	3 mL blood <b>Whole Blood Required</b>	Labeled heparinized syringe. Please remove needle and place cap on syringe.	Blood Gas Lab @ TMH Chemistry @ RIH	Normals pH 7.35-7.45 PO2 80-105 mm/Hg O2 Sat. 95-98% PCO2 35-45 mm/Hg, TCO2 23-27 meq/L. Order requests should include patient temp and respiratory parameters.	Direct Electrode Measurement	S = 10 minutes	<b>Orderable under Respiratory at TMH.</b> Correct protocol for the collection of Arterial Blood specimens is available through the Respiratory Therapy Dept. @ TMH.
ASCA	SACAB	SACCHAROMYCES IGA AND IGG								See Saccharomyces Cerevisiae Antibodies
ASCORBIC ACID (Vitamin C)	VITC	Vit C	82180	5 mL blood Protect from light	Red Top Vac	Reference Lab (Quest)	See Report.	Spectrophotometry	R = T & Th	Sent out. Freeze sample and protect from light.
ASPARTATE AMINO-TRANSFERASE	AST	AST SGOT	84450	4 mL blood	Green Top Vac with Gel (Mint)	Chemistry	Adult: 10-42 IU/L	Oxidation of NADH (Kinetic)	R = 4 hours S = 1 hr.	Synonym: SGOT Test cannot be performed on lipemic serum
ASPERGILLUS ANTIGEN (Galactomannan)	ASPEI	ASPERGILLUS AG EIA SERUM		5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Enzyme Immunoassay	R = 5-7 days	
ASPERGILLUS FUMIGATUS IgE	AFUM	ALLERGEN ASPERGILLUS FUMIGATUS	86331	3.0 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	Negative		R = 5-7 days	Tests for antibodies directed towards A. fumigatus, A. niger, and A.flavus.
ASPERGILLUS FUMIGATUS ANTIBODY	ASPAB	ASPERGILLUS AB	86331	3.0 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report		R = 5-7 days	
Aspirate AFB Culture and Smear	CXAFB	ASPIRATE AFB CULT AND SMEAR	87206 87116	Aspirated material	White Top Vacutainer	Microbiology	No Growth	Semiautomated detection and smear	R = 6 weeks S = N.A.	Critical Value : Positive Aspirates only. MANDATORY - Label Site.
Aspirate Culture and Smear	CXANA	ASPIRATE ANA AER CULT AND GS	87205 87070 87075	Aspirated material	White Top Vacutainer	Microbiology	No Growth	Aerobic, Anaerobic, Yeast Culture and gram stain	R= 5 days	Deliver to lab immediately. Aspirates only. (MANDATORY - Label Site.)
Aspirate Fungal Culture and Smear	CXFUS	ASPIRATE FUNGAL CULT AND SM	87206 87102	Aspirated material	White Top Vacutainer	Microbiology	No Growth	Culture for yeast and mold. Smear: calcoflour	R = 4 weeks S = N.A.	Aspirates only. (MANDATORY - Label Site.)
ASPIRIN EFFECT DETECTION	ASAEF	ASPIRIN EFFECT DETECTION	85576	4.5 mL Blood	1 Blue Top & 1 Lavender Top Vac	Coagulation	Normal > 550 ARU (no COX1 inhibitor effect)	Turbidometric Optical Platelet Aggregation	R = 3 hours S = 1 hour	Reflexive Rule effective 2/3/11 : If a CBC isn't ordered with this test, a Platelet and HCT will be reflexed. Blood must be received in lab within 2 hours. Do not place on ice or centrifuge. Available daily 7 AM to 10 PM
AST	AST	AST SGOT	84450	4 mL blood	Green Top Vac with Gel (Mint)	Chemistry	Adult: 10-42 IU/L	Oxidation of Triarylimidazole Leuco Dye @ 37 C (Kinetic)	R = 4 hours S = 1 hr.	Synonym: SGOT
ASYMETRIC DIMETHYL ARGININE										See ADMA



TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
ATIVAN (LORAZEPAM)	LORAZ	ATIVAN LEVEL	80154	5 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 10-240 ng/mL	High Performance Liquid Chromatography	R = Weekly S = 8 hrs.	Toxic: >300 ng/mL
Auerobasidium Pullulans Ab	APUL	AUREOBASIDIUM PULLULANS IgE	86331	3 mL Blood	Red Top with Gel (Gold)	Reference Lab (Quest)	Negative	Immunodiffusion	R = 14 days	
AVENTYL	NOR	NORTRIPTYLIN LEVEL	80182	10 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 50-150 ng/mL	High Performance Liquid Chromatography	R = Tu & F S = 8 hrs.	Toxic: >500 ng/mL
AZT (Zidovudine)		Not orderable	80299	3mL blood	Red Top Vac	Reference Lab (Quest)	See Report	RIA	R = 10 days	Sent out. Ship Frozen
B HYDROXYBUTYRATE	BHYDX	B HYDROXYBUTYRATE	84311	5 mL blood	Green Top Vac with Gel (Mint)	Chemistry	0.02 - 0.27 mM	Colorimetric	S = 1 hour	Result Interpretation 0.02 - 0.27 Normal 0.3 - 3.0 mM Mild Ketosis from stress >3.0 mM Ketoacidosis
B.U.N.	BUN	BUN	84520	3 mL blood	Green Top Vac with Gel (Mint)	Chemistry	6-24 mg/dL	Urease Quinolinium Dye	R = 4 hours S = 1 hr.	Call Value: BUN >65 mg/dL (first time only)
B12, VITAMIN										See Vitamin B12
BABESIA AB IgG/IgM	BABAB	BABESIA IGG AND IGM	86317-90	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	IFA	R = 7 -10 days	Ship frozen serum
BABESIA SMEAR (Smear for Parasites)										See Blood Parasites
BACTERIAL VAGINOSIS SCREEN ( Trichomonas, Candida, and BV using Affirm )	BVS	GENITAL BACT VAGINOSIS SCRIN	87480 87510 87660	Affirm VP III swab collection kit ONLY	Affirm VP III swab collection kit ONLY	Molecular Microbiology Coro	Negative	Affirm VP III for the agents associated with bacterial vaginosis/vaginitis, specifically Trichomonas, Gardenella, and Candida sp.	R= M-F	Specimens not received in the Affirm Collection Kit will be rejected.
BAL Quantative Culture	CXBQT	BAL QUANT CULT/GS	87071	Bronchial Lavage	Sterile leakproof container	Microbiology	Mixed Respiratory Flora	Quantative bacterial culture including yeast	R= 2 days	Pathogens are reported out in quantities equal to or greater than 10,000cfu/mL
BARTONELLA ANTIBODIES (Cat Scratch fever and Trench fever)										See Cat Scratch Fever Antibodies
BCL-1 PCR bcl-1 Translocation by PCR	BCLPC	BCL 1 PCR	81401 G0452	3 mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Clinical Molecular Biology, RIH	Negative	PCR	R = 2-4 days	Test performed M - F. See CSF or Bone Marrow bcl-1 PCR, if applicable.
BCL-2 MAJOR BREAKPOINT CLUSTER PCR	BCL2M	BCL 2 MAJ	81401 G0452	3 mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Clinical Molecular Biology, RIH	Negative	PCR	R = 2-4 days	Test performed M - F. See CSF or Bone Marrow BCL-2 Major Breakpoint Cluster PCR, if applicable.
BCL-2 MINOR BREAKPOINT CLUSTER PCR	BL2MI	BCL 2 MIN	81401 G0452	3 mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Clinical Molecular Biology, RIH	Negative	PCR	R = 2-4 days	Test performed M - F. See CSF or Bone Marrow BCL-2 MINOR Breakpoint Cluster PCR, if applicable.
BCR ABL TRANSLOCATION PCR	BCRAB	BCR ABL QUAL PCR	82106 G0452	5 mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Clinical Molecular Biology, RIH	Negative	RT PCR	R=7-10 days	Test performed M - F Collect sample M -Th Sample must be received within 24 hours of being drawn and should be kept on ice. See Bone Marrow BCR ABL Translocation PCR, if applicable.
BCR ABL GENE REARRANGEMENT PCR Quantitative	BCRQR	BCR ABL1 GENE REARRANGEMENT	81206	3 mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Reference Lab (Quest)	See Report	PCR		Sample shipped at Room Temperature or 4 degrees. Do not freeze. Record time and date of draw on label. Ship ASAP.
BENCE JONES PROTEIN	UPEP	U PROTEIN ELECTROPHORESIS	84165	Random Urine	Urine Container	Clinical Immunology, Core	No Protein Detected	Electrophoresis	R= 5-7 days	See UPEP If Bence Jones protein is detected, then U IFE (CPT 86334) will be reflexively ordered and charged.
BERRY SPOT TEST	UMUCO	U MUCOPOLYSACCHARIDE SCRIN	83866	Random Urine	Clean plastic (100 mL) urine container	Amino Acid Lab, NEMC	Negative	Toluidine blue		Mucopolysaccharide

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
BETA HUMAN CHORIONIC GONADO TROPIN										See Human Chorionic Gonadotropin (THCG) Quantitative
BETA-2-GLYCOPROTEIN AB (IgA, IgG, IgM)	B2GLY	B2 GLYCOPRO AB	86146x3	6-8 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	EIA		Sent out. Requires 3 mL of serum.
BETA-2-MICROGLOBULIN (URINE)	UBETR	U BETA 2 MICROGLOBULIN	82232	Random urine No Preservative	Clean plastic (100 mL) urine container	Reference Lab (Quest)	See Report	Nephelometry		Sent out. pH adjust to between 6-8 as soon as possible.
BETA-2-MICROGLOBULIN (SERUM)	BETAN	BETA 2 MICROGLOB	82232	5 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	0.7 - 2.5 mg/L	Nephelometry	R = M-F	
BILE ACIDS (Conjugated)	CHOLG	CHOLYGLYCINE TOTAL BILE ACID	82240	5 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report	RIA	R = Mon.	Sent out. 8 hour fast recommended. Unspun or no additive tubes are unacceptable.
BILIRUBIN TOTAL	BILIT	BILI TOTAL	82247	4 mL blood	Green Top Vac with Gel (Mint)	Chemistry	Total = 0.2-1.1 mg/dL	Timed endpoint Diazo method	R = 4 hours S = 1 hr.	If test performed on a Neonate : Critical > 14.9 mg/dL Test will not be reported on hemolyzed specimens.
BILIRUBIN Direct	BILID	BILI DIRECT	82248	4 mL Blood	Green Top Vac with Gel (Mint)	Chemistry	D. Bili = 0.0-0.3 mg/dL	Timed endpoint Diazo method	R = 4 hours S = 1 hr.	Test will not be reported on hemolyzed specimens
BIOAVAILABLE TESTOSTERONE	BAV1 or FTST1	Bioavailable and Free Testost	84403 84270 82040	7 mL blood	Red Top with Gel (Gold) and Green Top with Gel (Mint)	Chemistry, Core	See Report	Chemiluminescence	R = M - F	The group includes Bioavailable Testosterone (calculated), Total Testosterone, Sex Hormone Binding Globulin, Free Testosterone (calculated) and an Albumin.
BIOTINIDASE	BIOTD	BIOTINIDASE	84311	3 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report	Enzymatic Colorimetric	R = 4-6 days	Sent out. Serum should be separated from cells within one hour of collection. Freeze Serum.
BLASTOMYCES DERMATITIDIS SEROLOGY	BLASA	BLASTOMYCES AB SO	86331	3.0 mL blood	Red Top Vac	Reference Lab (Quest)	Negative	Immunodiffusion	R = 14 days	
BLEEDING TIME	IVY		85002			Hematology, TMH	2.0 - 9.5 minutes	Triplett		Performed M-F by Phlebotomy personnel at TMH. Asay will not be performed on children less than 6 years of age. Any questions should be directed to Dr. Joseph Sweeney @ 793-4810.
BLOOD CULTURE Adult	CXBLD	BLOOD CULT	87040	Adult: 8- 10 mL blood per bottle. Max : 3 Sets/day	Bottles: TREK 1 purple - aerobic bottle and 1 red - anaerobic bottle	Microbiology	No Growth	Semiautomated Bacterial Detection System	R = 5 days S = N.A.	Critical Value: Positives, first incidence and every 3 days thereafter or different result. Collection Procedure : *Clean the skin with an antiseptic skin prep containing 2% Chlorhexidine Gluconated / 70% isopropyl alcohol (Chloroprep SEPP) *Disinfect bottle tops with 70% alcohol *Inoculate 8-10 mL blood/bottle (aerobic bottle first) *Transport bottles promptly to lab

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
BLOOD CULTURE Pedi	CX BLD	BLOOD CULT PEDI	87040	up to 10 mL blood per bottle. Refer to Pediatric Blood Drawing Chart	Bottles: TREK 1 purple - aerobic bottle and 1 red - anaerobic bottle	Microbiology	No Growth	Semiautomated Bacterial Detection System	R = 5 days S = N.A.	Critical Value: Positives, first incidence and every 3 days thereafter or different result. <b>Collection Procedure :</b> *Clean the skin with an antiseptic skin prep containing 2% Chlorhexidine Gluconated / 70% isopropyl alcohol (Chloroprep SEPP) *Disinfect bottle tops with 70% alcohol *Refer to Pediatric Volume chart for proper volume of blood for child (aerobic bottle first) *Transport bottles promptly to lab
BLOOD CULTURE Fungus Adult										Refer to Fungal Isolator Procedure
BLOOD CULTURE Isolator - Fungus	ISFUN	BLOOD ISOLATOR CULT FUNGAL	87103	10 mL Blood for Adults 1.5mL Blood for Pedi	Gold Top Isolator Tube available from the Microbiology Lab	Microbiology	No Growth	Concentration / lysis method	R = 4 weeks S = N.A.	<b>Restricted Procedure :</b> Must obtain prior approval from ID or Microbiology Director to order procedure. When approved, complete a Microbiology Requisition and forward to lab with sample. Critical Value: All positives. <b>Collection Procedure :</b> *Clean the skin with an antiseptic skin prep containing 2% Chlorhexidine Gluconated / 70% isopropyl alcohol (Chloroprep SEPP) *Disinfect isolator tops with 70% alcohol *Transport isolator promptly to lab
BLOOD CULTURE Isolator - AFB	ISAFB	BLOOD ISOLATOR CULT AFB	87116	10 mL Blood for Adults 1.5mL Blood for Pedi	Gold Top Isolator Tube available from the Microbiology Lab	Microbiology	No Growth	Concentration / lysis method	R = 6 weeks S = N.A.	<b>Restricted Procedure :</b> Must obtain prior approval from ID or Microbiology Director to order procedure. When approved, complete a Microbiology Requisition and forward to lab with sample. Critical Value: All positives. <b>Collection Procedure :</b> *Clean the skin with an antiseptic skin prep containing 2% Chlorhexidine Gluconated / 70% isopropyl alcohol (Chloroprep SEPP) *Disinfect isolator tops with 70% alcohol *Transport isolator promptly to lab
BLOOD CULTURE Fungus										Refer to Fungal Isolator Procedure
BLOOD GAS, ARTERIAL	ABG	ABG (RIH) ARTERIAL (TMH) BG	82803	3 mL blood <b>Whole Blood Required</b>	Labeled heparinized syringe. Please remove needle and place cap on syringe.	Blood Gas Lab @ TMH Chemistry @ RIH	Normals: pH: 7.35-7.45; PO2: 80-105 mm Hg ; O2 Sat: 95-98% sat ; PCO2: 35-45 mm Hg ; TCO2: 23-27 mEq/L.	Direct Electrode Measurement	S = 10 mins.	<b>Orderable under Respiratory at TMH.</b> Correct protocol for the collection of Arterial Blood specimens is available through the Respiratory Therapy Dept. @ TMH.
BLOOD PARASITES Thin and Thick Smear	BPARS	BLOOD PARASITE	87207	3 mL blood <b>Whole Blood required</b>	Lavender Top Vac	Hematology	Negative		R = < 5 hrs. S = 1 hr.	<b>Critical Value : Any positive smear for parasites.</b> Interpretation by Hematology. If positive, a Degree of Parasitemia is reflexed.
BMP Basic Metabolic Panel	BMP1	Basic Metabolic Panel 1		5 mL blood	Green Top Vac with Gel (Mint)	Chemistry	See individual procedures	See individual procedures	R = 4 hrs S = 1 hr.	Group contains Glucose, BUN, Creatinine, Sodium, Potassium, Chloride, CO2, Anion Gap and Calcium. CPT for group is 80048

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
BNP Brain Natriuretic Peptide	BNP	B NATRIURETIC PEPTIDE	83519	5 mL blood	Plastic Lavender Top Vac	Chemistry, Core	Age Specific : < 45 yrs 2 - 33 pg/mL 45-54 yrs 2 - 46.7pg/mL 55-64 yrs 2 - 53.2 pg/mL 65-74 yrs 2 - 72.3 pg/mL > 75 yrs 2 - 176 pg/mL <b>See Comments</b>	2 Site Sandwich Immunoassay using Direct Chemiluminescence	R = 2 hrs once rec'd	If assay is used as a Rule Out : 100 pg/mL can be used as a decision threshold with 97.4% specificity in patients without CHF. In clinically confirmed heart failure 72.6% of patients had elevations of BNP greater than 100 pg/mL. Sample must be collected in a plastic Lavender EDTA Tube. Do not centrifuge if ordered in Outreach sites. Transport to Lab ASAP. If sample can not be performed within 24 hours, then the sample must be spun, and plasma frozen.
Body Fluid Fungal Culture and Smear	CXFUS	BF FUNGAL CULT AND SMEAR	87102 87206	Body Fluid aspiration	White top Vacutainer	Microbiology	No Growth	Culture for yeast and mold. Smear: calcofluor	R= 4 Weeks S= N/A	
Body Fluid AFB culture and smear	CXAFB	BODY FLUID AFB CULT AND SMEAR	87116 87206	Body Fluid aspiration	White Top Vacutainer	Microbiology	No Growth	Semi Automated detection and smear	R= 6 weeks S= N/A	Critical Value: Positive
Body Fluid ASPIRATE Culture and gram stain	CXANA	BODY FLUID ASP ANA AER CULT W GS	87075 87070 87205	Body Fluid aspiration	White Top Vacutainer	Microbiology	No Growth	Aerobic, Anaerobic, Yeast Culture and gram stain	R= 5 days S= N/A	Deliver to Lab immediately.
BODY FLUID CELL COUNT	BFCC	BF CELL CT	89050	All Body Fluids EXCEPT CSF, Synovial, and Pleural	Lavender Top Vac	Urinalysis		Chamber Count, Cytospin, Wright's Stain	R = < 5 hrs. S = 1 hr.	Should not be ordered on CSF, Synovial or Pleural Fluids.
BODY FLUID CELL COUNT & DIFF See Comments for Reflexive Rule	BFCC BFDIF	BF CELL CT BF DIFF	89050 89051	All Body Fluids EXCEPT CSF, Synovial, and Pleural	Lavender Top Vacutainer	Urinalysis		Chamber Count, Cytocentrifuge & Wright's Stain	R = < 5 hrs. S = 1 hr.	Critical Value: Bacteria is noted on any normally sterile fluid. <b>Reflex:</b> If BF Diff (CPT 89051) is resultd, BF Cell Count (CPT 89050) is credited. For Cerebrospinal fluids, see CSF. Transport Stat to lab.
BODY FLUID CMV PCR Cytomegalovirus by PCR	BFCMP	BF CMV PCR	87496	1.0 mL Body Fluid	Sterile Container	Clinical Molecular Biology, RIH	Negative	PCR	R = 2-4 days	Test performed M - F
BODY FLUID DIFFERENTIAL	BFDIF	BF DIFF		All Body Fluids EXCEPT CSF, Synovial, and Pleural	Lavender Top Vac	Urinalysis		Chamber Count, Cytospin, Wright's Stain	R = < 5 hrs. S = 1 hr.	Should not be ordered on CSF, Synovial or Pleural Fluids.
BODY FLUID EBV PCR Epstein Barr Virus by PCR	BFEBP	BF EBV PCR	87798	1 mL Body Fluid	Sterile Container	Clinical Molecular Biology, RIH	Negative	PCR	R = 2-4 days	Test performed M - F
BODY FLUID LYME DISEASE AB ( Titer to Borrelia Burgdorferi) PCR	CLYM	BF LYME PCR SYNOVIAL	86618	1 mL Body Fluid	White Top Vac	Reference Lab (Quest)	See Report	PCR	R = once per week	Can only be performed on CSF or Synovial Fluids
Body Fluid SWAB Culture and gram stain	CXWND	BF SWAB CULT W GS	87075 87070 87205	Body Fluid aspiration	Double swab	Microbiology	No Growth	Aerobic Bacterial Culture, including yeast and gram stain	R= 48 hrs S= N/A	
Body Fluid T Cell Antigen Receptor Beta Gene Rearrangement by PCR (TCR beta by PCR)	BFTCB	BF TCR BETA PCR	81340 G0452	1 mL Body Fluid	Sterile Container	Clinical Molecular Biology, RIH	Negative	PCR	R = 7-10 days	Test performed M - F.
Body Fluid T Cell Antigen Receptor Gamma Gene Rearrangement by PCR (TCR gamma by PCR)	BFTCG	BF TCR GAMMA PCR	81342 G0452	1 mL Body Fluid	Sterile Container	Clinical Molecular Biology, RIH	Negative	PCR	R = 7-10 days	Test performed M - F.
Body Fluid Viral Culture	CXVIR	BF VIRAL CULT	87252	Pleural Fluid only	White Top Vac	Virology, RIH	Negative	Spin amplified detection	R= 48 hours S= N/A	Test performed M - F.
Body Fluid VZV PCR Varicell Zoster Virus by PCR	BFVZP	BF VARICELLA ZOSTER PCR	87798	1ml of Body Fluid	Sterile Container	Clinical Molecular Biology, RIH	Negative	PCR	R = 2-4 days	Test performed M - F

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
BONE BIOPSY FOR METABOLIC BONE DISEASE						Histopath				See Histopathology Section.
BONE MARROW			85097	Bone Marrow Aspirate	Lavender Top Vacutainer	Special Hematology, RIH		Smear Wright Stain	R : 1-3 days	Specimens accepted M - F, 8 AM - 4 PM. After hours, Bone Marrows accepted in Main Hematology.
BONE MARROW BCL-1 PCR BCL-1 Translocation by PCR	BMBCP	BM BCL 1 PCR	81401 G0452	0.5 mL Bone Marrow in Lav Tube	Syringe without needle or sterile container	Clinical Molecular Biology, RIH	Negative	PCR	R = 2-4 days	Test performed M - F.
BONE MARROW BCL-2 MINOR BREAKPOINT CLUSTER PCR	BMMIN	BM BCL 2 MIN	81401 G0452	0.5 mL bone marrow	Syringe without needle or sterile container	Clinical Molecular Biology, RIH	Negative	PCR	R = 2-4 days	Test performed M - F.
BONE MARROW BCL-2 MAJOR BREAKPOINT CLUSTER PCR	BMBMA	BM BCL 2 MAJ	81401 G0452	0.5 mL bone marrow	Syringe without needle or sterile container	Clinical Molecular Biology, RIH	Negative	PCR	R = 2-4 days	Test performed M - F.
Bone Marrow AFB Culture and smear	CXAFB	BONE MARROW AFB CULT AND SMEAR	87116 87206	1-2 mL	White top Vacutainer or PEDI Isolator Tube	Microbiology	No Growth	Semi Automated detection and smear	R= 6 weeks S= N/A	Critical Value: Positive Pediatric Isolator tube is available from the Microbiology Lab
BONE MARROW BCR ABL TRANSLOCATION PCR	BMBAB	BM BCR ABL	82106 G0452	0.5 mL bone marrow <b>ON ICE</b>	Syringe without needle or sterile container	Clinical Molecular Biology, RIH	Negative	RT PCR	R = 7-10 days	Samples must be received within 24 hours of being collected and should be kept on ice. Test performed M - F.
BONE MARROW Cytochemistry Battery						Special Hematology, RIH				Call lab at X4-8342. See individual test names.
BONE MARROW BIOPSY				Bone Marrow Biopsy	Formalin Container	Special Hematology, RIH		Section H + E		See Histopathology Section.
Bone Marrow CHROMOSOME STUDY		Send on Quest Cytogenetics Requisition	88264 88237	1-2 mL Bone Marrow	Sodium heparin vacutainer	Reference Lab (Quest)	Male - 46, XY Female - 46, XX Sodium Heparin used - 0.5 mL (1,000 U/mL)	TC, Chromobreakage	R = 14-21 days	Please indicate diagnosis for prooer test ordering. Quest code 14600 or 14601
BONE MARROW CMV PCR Cytomegalovirus by PCR	BMCMP	BM CMV PCR	87496	0.5 mL bone marrow	Syringe without needle or sterile container	Clinical Molecular Biology, RIH	Negative	PCR	R = 2-4 days	Test performed M - F
Bone Marrow Culture and Gram Stain	CXBM	BONE MARROW CULT AND GS	87070 87205	1-2 mL	White top Vacutainer	Microbiology	No Growth	Aerobic culture and gram stain	R= 48 HRS S= N/A	Critical Value : Positive
BONE MARROW EBV PCR Epstein Barr Virus by PCR	BMEBP	BM EBV PCR	87798	0.5 mL bone marrow	Syringe without needle or sterile container	Clinical Molecular Biology, RIH	Negative	PCR	R = 2-4 days	Test performed M - F
Bone Marrow Fungal Culture and Smear	CXFUS	Bone Marrow Fungal Cult/Smear	87102 87206	1-2 mL	White top Vacutainer or PEDI Isolator Tube	Microbiology	No Growth	Culture for yeast and mold. Smear: calcoflour	R= 4 Weeks S= N/A	Critical Value: Positive Pediatric Isolator tube is available from the Microbiology Lab
BONE MARROW IgH PCR Immunoglobulin Heavy Chain by PCR	BMIGH	BM IGH PCR	81261 G0452	0.5 mL Bone Marrow in Lav Tube	Sterile Container	Clinical Molecular Biology	Negative	PCR	R = 2-4 days	Test performed M - F
Bone Marrow T Cell Antigen Receptor Beta Gene Rearrangement by PCR (TCR beta by PCR)	BMTCB	BM TCR B P	81340 G0452	0.5 mL Bone Marrow in Lav Tube	Syringe without needle or sterile container	Clinical Molecular Biology, RIH	Negative	PCR	R = 7-10 days	Test performed M - F.
Bone Marrow T Cell Antigen Receptor Gamma Gene Rearrangement by PCR (TCR gamma by PCR)	BMTCG	BM TCR G P	81342 G0452	0.5 mL Bone Marrow in Lav Tube	Syringe without needle or sterile container	Clinical Molecular Biology, RIH	Negative	PCR	R = 7-10 days	Test performed M - F.

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
BORDETELLA PERTUSSIS AB PANEL (IgA AND IgG)	BORIG		86615x4	5 mL Blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report	Multiple Analyte Immuno Detection		
Bordetella Pertussis PCR and Culture	DBORD	BORD PERT PCR	87265	2 Polyester NP swabs	Sterile polyester NP swabs placed in Regan Lowe Media obtained from lab	Reference Lab - RIDOH	Negative	PCR and Culture	R = 1 week for culture, PCR, 24 hrs S= N/A.	Sent to the Rhode Island Department of Health
Bone Marrow VZV PCR Varicella Zoster Virus by PCR	BMVZP	BM VZV PCR	87798	0.5 mL Bone Marrow in Lav Tube	Syringe without needle or sterile container	Clinical Molecular Biology, RIH	Negative	PCR	R=2-4 days	Test performed M-F
BREAST CYST FLUID						Cytology				See Cytology Section.
BREAST SECRETIONS, SCRAPINGS						Cytology				See Cytology Section.
BROMIDE	BROMI	BROMIDE LEVEL	84311	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Spectrophotometry	R = M - Sat S = 8 hrs.	Toxic: >1250 ug/mL
Bronchial AFB Culture and smear	CXAFB	BRONCH AFB CULT AND SMEAR	87116 87206	Bronchio-Alveolar Lavage	Sterile Leakproof Container	Microbiology	No Growth	Semi Automated detection and smear	R = 6 weeks S = NA	Critical Value: Positive
BRONCHIAL BRUSH						Cytology	Mixed Respiratory flora			See Cytology Section.
Bronchial Brush Culture and gram stain	CX BRS	BRONCHIAL BRUSH CULT AND GS	87070 87205	Bronchial Brush	Sterile Leakproof Container	Microbiology	Mixed Respiratory flora	Bacterial Culture, including yeast and gram stain	R= 48 hours S= N/A	
Bronch CMV Spin Amplified Culture	CXCMB	BRONCH CMV SPIN AMP CULT	87254	Bronch Wash	Sterile Leakproof container	Virology, RIH	Negative	Spin Amplified Cell Culture for CMV	R= 48 hours S= N/A	Results available in 48 hours. Test performed M - F.
Bronchial Fungal Culture and smear	CXFUS	BRONCHIAL FUNG CULT AND SMEAR	87102 87206	Bronchio-Alveolar Lavage	Sterile Leakproof Container	Microbiology	Negative	Culture for yeast and mold. Smear: calcoflour	R= 4 Weeks S= N/A	
Bronchial Legionella Culture	CXLEG	BRONCHIAL LEGIONELLA CULT	87081	Bronchio-Alveolar Lavage	Sterile Leakproof Container	Microbiology	Negative	Legionella Culture	R= 14 days S= N/A	
Bronchial Pneumocystis PCP DFA	DFPCP	BRONCHIAL PNEUMOCYSTIS PCP DFA	87206	Bronchio-Alveolar Lavage or Induced Sputum	Sterile leakproof container	Virology, RIH	Negative	DFA Stain	R = 4 hrs. S = 2 hr.	Critical Value: Positive. Available M-F, AM shift only.
Bronchial Wash RVP	RVP	RESPIRATORY VIRAL PANEL	87633	bal, Bronch Wash	Sterile Leakproof Container	Virology, RIH	Negative	PCR	24 hours during Respiratory season	At RIH, Collection kits available from Central @ 444-5886 or Virology @ 444-5655. At TMH, they are available from Microbiology @ 793-4235. Viruses tested for: RSV, Flu A (non-specific, probable H1N1), Flu A (H1), Flu A (H3), Flu B, Para 1, 2, 3 and 4 Metapneumovirus, Enterovirus/Rhinovirus, Adenovirus and Corona Virus.
BRONCHIAL WASH						Cytology				See Cytology Section.
Bronchial Wash Culture and gram stain	CXBRO	BRONCHIAL WASH CULT AND GS	87070 87205	Bronch Wash	Sterile Leakproof Container	Microbiology	Mixed Respiratory flora	Bacterial Culture, including yeast and gram stain	R= 48 hours S= N/A	
BRUCELLA ANTIBODY	BRUC	BRUCELLA AB	86000	3 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Agglutination	R = 3-5 days	Sent out.
BUTALBITAL	BUTAL	BUTALBITAL LEVEL	82491	5 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic range: 2.0-5.0 ug/mL	Gas Chromatography	R = M-Sat S = 6 hrs.	Toxic : > 10 ug/mL
C-TELOPEPTIDE (Collagen Type I)	CTEO	C TELOPEPTIDE	82523	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Electrochemiluminescent Immunoassay		Freeze serum and ship frozen
C-1-ESTERASE INHIBITOR FUNCTIONAL ACTIVITY	C1ESF	C1 ESTERASE FUNCTIONAL	86161	5 mL blood	Red Top Vac	Reference Lab (Quest)	Adequate Functional Activity	EIA	R = 3-5 days	Freeze within one hour of draw. Sent out.
C-1-ESTERASE INHIBITOR PROTEIN	C1EST	C1 ESTERASE	86160	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Nfixd Rate Time Nephelometry	R = 3-5 days	Freeze within one hour of draw. Sent out.
C1Q BINDING (Immune Complex Detection)	C1QB	C1Q BINDING	86332	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	EIA	R = 5-7 days	Sent out.

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
C1Q COMPLEMENT COMPONENT	C1QC	C1Q COMPLEMENT COMPONENT	86332	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Radial Immunodiffusion	R = 5-7 days	Sent out.
C2 COMPLEMENT COMPONENT	C2COM	C2 COMPLEMENT COMPONENT	86160	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Radial Immunodiffusion	R = 5-7 days	Sent out.
C3	C3	C3	86160	5 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	C3 85-193 mg/dL	Nephelometry	R = M - F	
C4	C4	C4 COMPLEMENT	86160	5 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	C4 12-36 mg/dL	Nephelometry	R = M - F	
CA 19.9	CA199	CA 19-9	86301	5 mL blood	Red Top with Gel (Gold)	Chemistry, Core	0 - 35 U/mL	Chemiluminesence	R = M - F	
CA 27.29	CA27	CA 27.29	86300	5 mL blood	Red Top with Gel (Gold)	Chemistry, Core	< 38.0 U/mL	Chemiluminesence	R= M-Sat	
CA-125	CA125	CA 125	86304	5 mL blood	Red Top with Gel (Gold)	Chemistry, Core	< 30.2 U/mL	Chemiluminesence	R= M - F	
CADMIUM	CAD	CADMIUM	82300	5 mL blood	Dark / Royal Blue with EDTA or Lavender Top Vac	Reference Lab (Quest)	See Report	ICP-MS	R = Tu & F	Sent out.
CADMIUM Random Urine	UCDR	U CADMIUM RANDOM	82300	10 mL urine	Acid Washed Urine Container*	Reference Lab (Quest)	See Report	ICP-MS	R = Tu & F	* Obtain container from Sendout Area of Lab. Sent out.
CALCITONIN	CALCI	CALCITONIN LEVEL	82308	10 mL blood (8 hrs fasting is preferred)	Red Top Vac	Reference Lab (Quest)	See Report	RIA	R = 3-5 days	Sent out.
CALCIUM	CA	CA	82310	4 mL blood	Green Top Vac with Gel (Mint)	Chemistry	Adult: 8.5-10.5 mg/dL	Indirect ISE	R = Daily S = 1 hr.	Critical Values : Calcium > 11.5 mg/dL Calcium < 7.0 mg/dL
CALCIUM Random Urine	UCAR	U CALCIUM RANDOM	82340	Random spec	Clean plastic (100 mL) urine container	Chemistry		Indirect ISE	R = daily	
CALCIUM 12 Hr Urine	UCA12	U CALCIUM 12HR	82340	12 hr urine	Clean plastic (2 L) urine container.	Chemistry	0-95 mg/ 12 hr	Indirect ISE	R = daily	Refrigerate sample during collection.
CALCIUM 24 Hr Urine	UCA24	U CALCIUM 24HR	82340	24 hr urine	Clean plastic (2 L) urine container.	Chemistry	0-190 mg/24 hr	Indirect ISE	R = daily	Refrigerate sample during collection.
CALCIUM Ionized	CAION (RIH) WBION (TMH Inpatients)	CALCIUM IONIZED (RIH Only) CALCIUM IONIZED BLOOD GAS (TMH Inpatients)	82330		Labeled heparinized syringe. Please remove needle and place cap on syringe for TMH inpatients Green Top Vac (no gel) otherwise	Blood Gas Lab @ TMH Chemistry @ RIH	4.2-5.2 mg/dL	Calcium ISE	R = Daily	TMH Inpatients Orders should be placed under Respiratory. TMH Outpatient should draw a green top tube (no gel barrier). At refrigerated temperature stable for 24 hours.
CALCULUS	CALCU	CALCULUS								See STONE RENAL
CALIFORNIA ENCEPHALITIS VIRUS TITER	ARIM1	ARBOVIRUS IGM AB PANEL	86651 86652 86653 86654	3 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report			Includes St. Louis, EEE, WEE and CAE. Sent to Focus via Quest
CANDIDA ALBICANS SEROLOGY	CANAB	CANDIDA ALBICANS AB SO	86331	3.0 mL blood	Red Top Vac	Reference Lab (Quest)	See Report		R = 14 days	
CARBAMAZEPINE	CARBA	TEGRETOL LEVEL	80156	5 mL blood	Green Top Vac with Gel (Mint)	Chemistry	Therapeutic Range: 8-12 ug/mL single drug 4-8 ug/mL multiple drug	PETINIA	R = 4 hours S = 1 hr.	Critical Value: > 15 ug/mL. First Incidence only Carbamazepine Peak : 1 - 5 hours Trough : immediately before next dose represents the most reliable value for dose rate adjustments.

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
CARBON DIOXIDE (CO2) (Bicarbonate)	CO2	CO2	82374	4 mL blood	Green Top Vac with Gel (Mint)	Chemistry	22-32 mEq/L	pH Rate Change	R = 4 hours S = 1 hr.	Critical Values : CO2 > 40 mEq/L < 12 mEq/L
CARBON MONOXIDE HEMOGLOBIN (CARBOXY-HEMOGLOBIN)	CARBO (RIH) WBCAR (TMH)	Carboxyhemoglobin (RIH) Carboxyhemoglobin Only (TMH)	82375	3 mL blood <b>Whole Blood Required</b>	Labeled heparinized syringe. Please remove needle and place cap on syringe @ TMH Green Top Vac (no gel) @ RIH	Blood Gas Lab @ TMH Chemistry @ RIH	Non-smokers 0-1.5% Smokers 0-9%	Spectrophotometric	S = 20 min	Critical Value: >9% (First occurrence only) TMH Inpatients Orders should be placed under Respiratory. TMH Outpatients should draw a green top tube (no gel barrier).
CARCINOGENIC EMBRYONIC ANTIGEN (CEA)										See CEA (Carcinogenic Embryonic Antigen)
CARDIO C-REACTIVE PROTEIN	HSCRCP	CARDIO CRP	86141	5 mL blood	Green Top Vac with Gel (Mint)	Chemistry	Low Risk <1 mg/L Average Risk 1-3 mg/L High Risk >3 mg/L	Immunoassay	R = Daily	If hs-CRP is >10 mg/L, patient should be examined for sources of infection or inflammation and hs-CRP tested at a later date.
CARISOPRADOL See Comments	CRSPD	CARISOP and MEPROBAMATE	82491 83805	5 mL blood	Red Top Vac Protect from Light.	Toxicology, RIH	Therapeutic range: 10-40 ug/mL	Gas Chromatography	R = Weekly S = 6 hrs.	Toxic: >50 ug/mL A meprobamate is performed and charged on all requests for Carisopradol.
CARNITINE Blood (Free, Total & Esters)	CARN	CARNITINE FREE AND TOTAL	84311 84311	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Spectrophotometry	R = 3-5 days	Ship Frozen Sent out.
CAROTENE	CARO	CAROTENE	82380	5 mL blood	Red Top Vac Protect from Light.	Toxicology, RIH	75-150 ug/dL	Spectrophotometry	R = M-Sat. S = 2 hrs.	Protect from light. Send STAT to lab.
CAT SCRATCH FEVER ANTIBODIES Bartonella	CATS	CAT SCRATCH BARTONELLA SPECIES	86611x4	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	IFA	R = 3-5 days	Antibodies (IgG & IgM) tested for both B. henselae (cat scratch fever) and B. quintana (trench fever) Sent out.
CATECHOLAMINES (Urine)	UCAT	U CATECHOLAMINE	82384 82384 82384	24 hr urine	Clean plastic (2 L) urine container with 25 mL 6N HCL (Ped): 3-5 mL 6N HCL	Toxicology, RIH	Normal levels of Epinephrine, Norepinephrine, and Dopamine are age dependent. See Report	High Performance Liquid Chromatography	R = weekly	Fractionated to: Norepinephrine, Epinephrine, Dopamine. Preservative should be added to container before sample is collected. Diet restrictions should be maintained for 48 hours prior to collection. Call 444-5858 for restrictions.
CATECHOLAMINES (Plasma)	CAT	CATECHOLAMINE	82384 82384 82384	5 mL blood <b>ON ICE</b>	Green Top Vac	Toxicology, RIH	Norepinephrine = 0-600 pg/mL; Epinephrine = 0-90 pg/mL; Dopamine = 0-135 pg/mL.	High Performance Liquid Chromatography	R = weekly	Fractionated To: Norepinephrine, Epinephrine, Dopamine. Diet restrictions should be maintained for 48 hours prior to collection. Call 444-5858 for restrictions. Place immediately and transport STAT on ice. Freeze plasma.
Catheter Site Culture	CXWND	CATHETER SITE CULT	87070 87205	Swab of Catheter Site	Copan Double Swab	Microbiology	No Growth	Bacterial Culture, including yeast and gram stain	R= 48 hours S= N/A	
Catheter Tip Culture	CXTIP	CATHETER TIP CULT	87070	Catheter tip	Sterile Leakproof Container	Microbiology	No Growth	Bacterial Culture, including yeast	R= 48 hours S= N/A	Intravascular catheter tips only. Patient must have blood cultures drawn or ordered.
CBC no Differential (COMPLETE BLOOD COUNT)	CBCND	CBC NO DIFF w PLT	85027	3 mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Hematology	WBC 3.5-11.0 K/ul RBC F 3.7-5.0 m/ul RBC M 4.2-5.5 m/ul HGB F 11.0-15.0 G/dL HGB M 13.5-16.0 G/dL HCT F 32.0-45% HCT M 37.0-47% PLT 150-400 K/ul	Automated Particle Counter	R = < 5 hrs. S = 45 min	Reflexive Rule : Depending on values obtained, an automated or a manual differential will be performed. (CPT 85025 or 85007). Only one differential per 24 hour period will be honored.



TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
CBC no Differential (continued)	CBCND	CBC NO DIFF w PLT		3 mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Hematology	MCV 80-98 FL MCH 26 - 34 pg MCHC 31.5-35.5 g/dL	Automated Particle Counter	R = < 5 hrs. S = 1 hr.	<b>Criticals:</b> First Incidence of: <b>Hgb</b> <7.0 g/dL <b>HCT</b> <21% <b>Platelet</b> >1,000,000 or <20,000 and then again if <b>Hgb</b> <5.0 g/dL <b>HCT</b> <15% <b>Platelet</b> <10,000. <b>WBC</b> Newborns to 48 hrs: >35,000 All other ages: >50,000 <b>Absolute poly count</b> < 500 (First incidence only) <b>Presence of Blasts or Parasites on Smear are also critical.</b>
CBC (COMPLETE BLOOD COUNT) (Includes automated WBC differential)	CBCWD	CBC w DIFF and PLT	85025	3 mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Hematology	WBC 3.5-11.0 K/ul RBC F 3.7-5.0 m/ul RBC M 4.2-5.5 m/ul HGB F 11.0-15.0 G/dL HGB M 13.5-16.0 G/dL HCT F 32.0-45% HCT M 37.0-47% PLT 150-400 K/ul	Automated Particle Counter	R = < 5 hrs. S = 1 hr.	Reflexive Rule : Depending on values obtained, a manual differential will be performed. (CPT 85007) . Only one differential per 24 hour period will be honored.
CBC (continued)	CBCWD	CBC w DIFF and PLT	85025	3 mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Hematology	MCV 80-98 FL MCH 26 - 34 pg MCHC 31.5-35.5 g/dL NEUT# 1.5-7.5 K/ul Lymph # 1.0-4.0 K/ul Mo # 0.2-0.8 K/ul Eosin # 0.0-0.5 K/ul Baso # 0.0-0.2 K/ul	Automated Particle Counter	R = < 5 hrs. S = 1 hr.	<b>Criticals:</b> First Incidence of: <b>Hgb</b> <7.0 g/dL <b>HCT</b> <21% <b>Platelet</b> >1,000,000 or <20,000 and then again if <b>Hgb</b> <5.0 g/dL <b>HCT</b> <15% <b>Platelet</b> <10,000. <b>WBC</b> Newborns to 48 hrs: >35,000 All other ages: >50,000 <b>Absolute poly count</b> < 500 (First incidence only) <b>Presence of Blasts or Parasites on Smear are also critical.</b>
CBG (Cortisol Binding Globulin)	CBGU	CORTISOL BINDING GLOBULIN	84449	5 mL blood	Lavender Top Vac.	Reference Lab (Quest)	See Report	RIA	R = 3-5 days	Sent out.
CD 55	Not orderable	Not orderable	88180	3 mL Blood <b>Whole Blood Required</b>	Lavender Top Vac.	Special Hematology, RIH	See Report	Flow Cytometry		
CD 58	Not orderable	Not orderable	88180	3 mL Blood <b>Whole Blood Required</b>	Lavender Top Vac.	Special Hematology, RIH	See Report	Flow Cytometry		
CD 59	Not orderable	Not orderable	88180	3 mL Blood <b>Whole Blood Required</b>	Lavender Top Vac.	Special Hematology, RIH	See Report	Flow Cytometry	R =	See PNH Screen
CEA (Carcinogenic Embryonic Antigen)	CEA	CEA	82378	5 mL blood	Red Top with Gel (Gold)	Chemistry, Core	0-5 ng/mL	Chemiluminesence	R = M - Sat.	Normals include smokers. Upon receipt in laboratory, the sample must be spun and the serum refrigerated.
CELL BLOCK										See Histopathology Section.
CENTROMERE B Antibody	CENTR	Centromere B Antibody	86038	3 mL Blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report	Enzyme Immunoassay		
CERULOPLASMIN	CER	CERULOPLASMIN	82390	5 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	20-51 mg/dL	Nephelometry	R = M - F	
Cervical Chlamydia Probe	CERCT	CERVICAL CHLAMYDIA PROBE	87591	Cervical Swab	Gen - Probe Collection Kit available from Stores Specimen must be placed in tube prior to delivery to laboratory.	Molecular Microbiology Coro	Negative	Transcription Mediated Amplification (TMA)	R = M-F	Critical Value: Positive results on patients <14. Blue swab should be submitted in Gen-Probe collection kit for analysis. (Silver foil topped containers)

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
Cervical Gonorrhea Probe	CERGC	<i>CERVICAL GONORRHEA PROBE</i>	87591	Cervical Swab	Gen - Probe Collection Kit available from Stores Specimen must be placed in tube prior to delivery to laboratory.	Molecular Microbiology Coro	Negative	Transcription Mediated Amplification (TMA)	R = M-F	Critical Value: Positive results on patients <14. Blue swab should be submitted in Gen-Probe collection kit for analysis. (Silver foil topped containers)
Cervical Trichomonas vaginalis Probe	CERTV	<i>CERVICAL TRICH VAGINALIS PROBE</i>	87798	Cervical Swab	Gen - Probe Collection Kit available from Stores Specimen must be placed in tube prior to delivery to laboratory.	Molecular Microbiology Coro	Negative	Transcription Mediated Amplification (TMA)	R = M-F	Critical Value: Positive results on patients <14. Blue swab should be submitted in Gen-Probe collection kit for analysis. (Silver foil topped containers)
CERVICAL SMEAR	-					Cytology				See Cytology Section.
CHAGAS AB	CHAGA	<i>CHAGAS ANTIBODY</i>	86256-90x2		Red Top with Gel (Gold) or CSF					
CH-50 COMPLEMENT	CH50	<i>CH50 COMP</i>	86162	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Hemolytic (functional assay)	R = 3-5 days	Sent out.
CHEM 7	GBCL1	<i>Glu BUN Cr Electrolytes</i>		5 mL Blood	Green Top Vac with Gel (Mint)	Chemistry	See Individual components	See Individual Components	R = 4 hrs S = 1 hr.	Group contains Glucose, BUN, Creatinine, Sodium, Potassium, Chloride, CO2, and Anion Gap.
CHLAMYDIA Culture										Assay is no longer performed. See <b>CHLAMYDIA TRACHOMATIS DNA PROBE</b>
CHLAMYDIA TRACHOMATIS Antibodies IGM, IGG, IGA	CHLAB		86632 86631 86631	3 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report	Micro Immunofluorescence Assay		Sent Out
CHLORAMPHENICOL	CHAMP	<i>CHLORAMPHENICOL LEVEL</i>	82415	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	High Performance Liquid Chromatography	R = 2-3 days	Toxic: >25 ug/mL
CHLORIDE 12 hr Urine	UCL12	<i>U CHLORIDE 12HR</i>	82436	12 hr urine	Clean plastic (2 L) urine container	Chemistry	Dependent on physiological fluctuations	Indirect ISE	R = daily	Refrigerate sample during collection.
CHLORIDE 24 hr Urine	UCL24	<i>U CHLORIDE 24HR</i>	82436	24 hr urine	Clean plastic (2 L) urine container	Chemistry	Dependent on physiological fluctuations	Indirect ISE	R = daily	Refrigerate sample during collection.
CHLORIDE (Cl)	CL	<i>CHLORIDE</i>	82435	4 mL blood	Green Top Vac with Gel (Mint)	Chemistry	Adult: 98-110 mEq/L	Indirect ISE	R = 4 hrs S = 1 hr.	Critical Values : Chloride > 120 mEq/L < 85 mEq/L
CHLORIDE Random Urine	UCLR	<i>U CHLORIDE RANDOM</i>	82436	Random specimen	Clean plastic (100 mL) urine container	Chemistry	Dependent on physiological fluctuations	Indirect ISE	R = daily	
CHLORIDE, CSF	CFCL	<i>CSF CHLORIDE</i>	82438	Spinal fluid	Sterile plastic CSF Tube	Chemistry, RIH	121-130 mEq/L	Indirect ISE	R = Daily S = 1 hr	
CHLOROACETATE ESTERASE STAIN			88319	Bone Marrow or EDTA Blood	Bone Marrow or Lavender Top Vac	Special Hematology, RIH		Cytochemical	R = 24 hrs.	
CHLOROMYCETIN (chloramphenicol)	CHAMP	<i>CHLORAMPHENICOL LEVEL</i>	82415	5 mL blood	Red Top Vac	Reference Lab, (AML)	See Report	High Performance Liquid Chromatography	R = 3-4 days	Sent out.
CHLORPHENIRAMINE	CPA	<i>CHLORPHENIRAMINE LEVEL</i>	82491	5 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic range: 10-40 ng/mL	Gas Chromatography	R = Weekly S = 6 hrs.	Toxic: > 90 ng/mL
CHLORPROMAZINE (THORAZINE)	CPROM	<i>CHLORPROMAZINE LEVEL</i>	84022	5 mL blood (Min) 3 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic range: 10-500 ng/mL.	High Performance Liquid Chromatography	R = Tu & F S = 8 hrs.	Toxic: >1000 ng/mL

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
CHOLESTEROL FRACTIONATION: CHOLESTEROL (Total) cLDL, HDL, Triglycerides	LIPID	CHOLESTEROL FRAC CHOL TRIG HDL LDL	80061	3.5 mL blood	Green Top Vac with Gel (Mint)	Chemistry, Core	LDL: Desirable <130 mg/dL; Borderline 130-159 mg/dL; High >159 mg/dL; HDL: Low 0-40 mg/dL; Desirable >40 mg/dL Triglyceride: Desirable <150 mg/dL; Borderline 150-199 mg/dL; High >199 mg/dL	Triglyceride = GPO HDL= Polyanion detergent followed by Cholesterol Oxidase Cholesterol= Cholesterol Oxidase	R = Daily	For triglyceride testing, patient must have fasted 12-14 hours.
CHOLESTEROL TOTAL	CHOL	CHOLESTEROL LEVEL	82465	4 mL blood	Green Top Vac with Gel (Mint)	Chemistry, Core	Cholesterol: Desirable:110-199 mg/dL Borderline:200-239 mg/dL High> 239 mg/dL	Cholesterol Oxidase	R = Daily	
CHOLINESTERASE with Dibucaine	CHOLI	CHOLINESTERASE with DIBUCAINE	82480 82638	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Kinetic Spectrophotometric	R = 3-4 days	Sent out.
CHOLYGLYCINE (Bile Acid)	CHOLG	CHOLYGLYCINE TOTAL BILE ACID	82240	5 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report	RIA	R = 3-5 days	Sent out. 8 hour fast recommended. Unspun or no additive tubes are unacceptable.
CHORIONIC GONADOTROPIN										See Human Chorionic Gonadotropin (THCG) Quantitative
CHROMATIN NUCLEOSOMAL ANTIBODY	CHRO	CHROMATIN NUCLEOSOMAL AB	86235	3 mL Blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report	Immunoassay	R = 3-5 days	Sent out.
CHROMIUM	CHRFI	CHROMIUM PLASMA	82495	5 mL blood	Trace Metal Vac with EDTA	Reference Lab (Quest)	See Report	Atomic Absorption Spectrophotometry	R = 7-10 days	*Call Customer Service for Specimen Collection requirements.
CHROMIUM, WHOLE BLOOD	CHRWB	CHROMIUM WHOLE BLOOD	82495	5 mL blood	Trace Metal Vac with EDTA	Reference Lab (Quest)	See Report	ICP/MS	R = 5 - 7 days	*Call Customer Service for Specimen Collection requirements.
CHROMOSOME STUDY Bone Marrow		Send on Quest Cytogenetics Requisition	88264 88237	1-2 mL Bone Marrow	Sodium heparin vacutainer	Reference Lab (Quest)	Male - 46, XY Female - 46, XX Sodium Heparin used - 0.5 mL (1,000 U/mL)	TC, Chromobreakage	R = 14-21 days	Please indicate diagnosis for prpoer test ordering. Quest code 14600 or 14601
CHROMOSOME STUDY Blood		Send on Quest Cytogenetics Requisition	88237 88280 88264	5-10 mL blood Ped = 3 mL blood Whole Blood Required Room Temp	Vacutainer with sodium heparin	Reference Lab (Quest)	Male - 46 XY Female - 46 XX Sodium Heparin used - 0.2 mL (1,000 U/mL)	TC, Chromobreakage	R = 14-21 days	Please indicate diagnosis for prpoer test ordering. Sample may only be collected Monday-Thursday and must be at Room Temperature. Quest code 14600 or 14601
CHROMOSOME STUDY Fluorescent In Situ Hybridization (FISH)		Send on Quest Cytogenetics Requisition	88230 88262	5-10 mL blood Ped = 3 mL blood Whole Blood Required Room Temp	Sodium heparin vacutainer	Reference Lab (Quest)	Male: 46, XY Female: 46,XX Disomy for autosomal probes.	TC, Chromobreakage	R = 14-21 days	Sample may only be collected Monday-Thursday and must be at Room Temperature. Quest code 14600 or 14601
CHROMOSOME STUDY Tissue/Tumor			88233 88262	3 mm <sup>3</sup> minimum	Sterile container with Hank's sol'n	Reference Lab (Quest)	Male: 46,XY Female: 46,XX	TC, Chromobreakage	R = 30 days	Tissue must be sterile. Refrigerate specimen Code # 14593
CHROMOSOME STUDY Amniotic Fluid			88235 88269 88280	20 mL minimum	Sterile container	Reference Lab (Quest)	Male: 46,XY Female: 46,XX	TC, Chromobreakage	R = 7-14 days	Code # 14590
CITRIC ACID (Urine)	UCIT	U CITRATE 24 HR	82507	24 hour Urine	Clean plastic (2 L) urine container with 25 mL of 6N HCL	Toxicology, RIH	280-1240 mg/24hour	Enzymatic/Spectrophotometric	R = Weekly S = 4 hrs.	Refrigerate specimen during collection. Preservative should be added prior to collecting sample.
CITRIC ACID (SERUM)	CIT	CITRATE SERUM	82507	5 mL blood	Red Top Vac	Toxicology, RIH	1.7-3.0 mg/dL	Enzymatic/Spectrophotometry	R = Weekly S = 4 hrs.	
CK (Creatine kinase) serum	CPK	CPK	82550	4 mL blood	Green Top Vac with Gel (Mint)	Chemistry	Adult male: 20-210 IU/L Adult female: 20-165 IU/L	Oxidation of Leuco Dye @ 37°C	R = 4 hours S = 1 hr.	Value elevated by physical activity.
CLOMIPRAMINE	CLOM	CLOMIPRAMINE AND NORCLOM	82491	5 mL blood	Red Top Vac	Toxicology, RIH	Clomipramine 70-200 ng/mL Norclomipramine 150-300 ng/mL	High Performance Liquid Chromatography	R = Tu & F S = 8 hrs.	Toxic: >500 ng/mL each

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS	
CLONAZEPAM	CLON	CLONAZEPAM LEVEL	80154	5 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 20-60 ng/mL	High Performance Liquid Chromatography	R = Weekly S = 8 hrs.	Toxic: >100 ng/mL mL serum required for assay	2
CLONOPIN (Clonazepam)	CLON	CLONAZEPAM LEVEL	80154	5 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 20-60 ng/mL	High Performance Liquid Chromatography	R = Weekly S = 8 hrs.	Toxic: >100 ng/mL mL serum required for assay	2
CLOPIDOGREL EFFECT DETECTION (Plavix, P2Y12)	CLEFF	CLOPIDROGREL EFFECT DETECTION	85576	6 mL Blood	1 Blue Top & 1 Lavender Top Vac	Coagulation	Normal >195 PRU (<20% inhibition) Clopidogrel Effect Present <195 PRU (>20% inhibition)	Turbidometric Optical Platelet Aggregation	R = 3 hours S = 1 hour	Reflexive Rule effective 2/3/11 : If a CBC isn't ordered with this test, a Platelet and HCT will be reflexed. Blood must be received in lab within 2 hours. Do not place on ice or centrifuge. Available daily 7 AM to 10 PM	
CLOZAPINE (Clozaril)	CLOZ	CLOZAPINE CLOZARIL	83789	5 mL Blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 100 - 700 ng/mL		R = Weekly S = 8 hrs.		
CMP COMPREHENSIVE METABOLIC PANEL	CMP1	COMPREHENSIVE METABOLIC		5 mL Blood	Green Top Vac with Gel (Mint)	Chemistry	See Individual components	See Individual Components	S = 1 hr. R = 4 hrs	Group contains Glucose, BUN, Creatinine, Sodium, Potassium, Chloride, CO2, Calcium, Albumin, Total Bilirubin, Alkaline Phosphatase, Total Protein, ALT and AST. CPT Code for group is 80053	
CMV AB Cytomegalovirus Tot Ab Organ Donor Only	DCMV	ORGAN DONOR CYTOMEGALOVIRUS AB	86644	3.0 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report	Passive Latex Agglutination	R = 2-3 days	This test code is for Organ Donor specimens only (Renal, Bone Marrow, Stem Cell, Sperm etc.)	
CMV IGG Cytomegalovirus IgG	CMG	Cytomegalovirus IgG EIA	86644	3.0 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Negative: ≤ 0.90 Equivocal : 0.91-1.09 Positive: ≥ 1.10	EIA	R = once a week		
CMV IGM Cytomegalovirus IgM	CMM	Cytomegalovirus IgM EIA	86645	3.0 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Negative: ≤ 0.90 Equivocal : 0.91-1.09 Positive: ≥ 1.10	EIA	R = once a week		
CMV PCR Cytomegalovirus by PCR	CMVPC	CMV PCR	87496	3 mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Clinical Molecular Biology, RIH	Negative	PCR	R = 2-4 days	Test performed M - F See CSF, Bone Marrow or Body Fluid CMV PCR, if applicable.	
COBALT 24 hour Urine	COB24		83018	24 hr urine	Acid Washed plastic (2 L) urine container	Reference Lab (Quest)	See Report	ICP-MS	R = 2-4 days		
COAGULATION - FACTOR XIII SCREEN	FXIII	FACTOR XIII	85291	4.5 mL blood	Blue Top Vac	Coagulation, RIH	Normal: Present	Clottable	R = 1 week S = 24 hrs.	Critical Value : Factor XIII - Absent Patient cannot be on Heparin or Coumadin. Available from 7 AM to 10 PM Monday to Friday and Holidays and weekends by special arrangement. Call Coagulation lab at 444-5560 to book.	
COCCIDIOIDES IMMITIS SEROLOGY	COCAB	COCCIDIOIDES IMMITIS AB	86331 each	3.0 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	Negative	Immunodiffusion	R = 14 days	C. immitis TP (Early Ab)- Primarily IgM Antibodies (Positive within 1 week of infection) C. immitis F (Late Ab)-indicates active or recent post infection (up to 1 year)	
COLD HEMAGGLUTININ	COLD	COLD HEMAGGLUTININS TITER	86157	5 mL blood	Red Top Vac	Reference Lab (Quest)	<1:32	Agglutination	R = M-Sat	Keep sample warm when transporting to lab. Once in lab, place tube of blood in 37 C water bath for 30 minutes. Centrifuge and immediately separate serum. Leave at Room Temp. <b>Do Not Refrigerate</b>	
COLONIC CYTOLOGY						Cytology				See Cytology Section.	
COMPLEMENT LEVEL (C3)	C3	C3	86160	5 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	C3 : 85-193 mg/dL	Nephelometry	R = M - F		
COMPLEMENT LEVEL (C4)	C4	C4 COMPLEMENT	86160	5 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	C4 : 12-36 mg/dL	Nephelometry	R = M - F		

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
COMPLEMENT LEVEL (C5)	C5	C5 COMPLEMENT	86160	5 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report	Radial Immunodiffusion	R = 3-5 days	
COMPOUND S (11-Deoxycortisol)	11DEO	11 DEOXYCORTISOL	82634	5 mL blood (Early AM specimen is preferred)	Red Top Vac	Reference Lab (Quest)	See Report	Extraction, Chromatography, RIA	R = 3-5 days	Sent out.
COMPREHENSIVE METABOLIC PANEL CMP	CMP1	COMPREHENSIVE METABOLIC		5 mL Blood	Green Top Vac with Gel (Mint)	Chemistry	See Individual components	See Individual Components	S = 1 hr. R = 4 hrs	Group contains Glucose, BUN, Creatinine, Sodium, Potassium, Chloride, CO2, Calcium, Albumin, Total Bilirubin, Alkaline Phosphatase, Total Protein, ALT and AST. CPT Code for group is 80053
COOMBS, DIRECT										See DIRECT COOMBS
COOMBS, INDIRECT										See INDIRECT COOMBS
COPPER Serum	CU	COPPER	82525	5 mL blood	Dark / Royal Blue Vac with Heparin	Toxicology, RIH	85-185 ug/dL	Atomic Absorption Spectrophotometry	R = Th. S = 4 hrs.	<b>Send as Whole Blood.</b> Zinc and Selenium determination may be performed on same sample.
COPPER Urine 24HR	UCU	U COPPER 24 HR	82525	24 hr urine	Clean plastic (2L) urine container with 25 mL 6N HCL	Toxicology, RIH	Adult 15-60 ug/24 hr	Atomic Absorption Spectrophotometry	R = Th. S = 4 hrs.	Refrigerate sample during collection. Preservative should be added prior to collecting sample.
COPPER Urine Random	UCUR	U COPPER RANDOM	82525	Random urine	Clean plastic urine container	Toxicology, RIH		Atomic Absorption Spectrophotometry	R = Th. S = 4 hrs.	No preservative needed
COPPER Tissue	TCU	T COPPER	80103 82190	Biopsy	Plastic Container	Toxicology, RIH	10 - 35 ug/g dry weight	Atomic Absorption Spectrophotometry	R = Fri. (Biweekly) S = 8 hrs.	Usually done on liver biopsies. Samples without preservatives or fixatives.
COPROPORPHYRIN Urine	UPOR	U PORPHYRIN 24HR	84120	24 hr urine	Clean plastic (2 L) urine container	Toxicology, RIH	Coproporphyrin: 0-95 mcg/24 hr Uroporphyrin: 0-20 mcg/24 hr	Spectrophotometry	R = M-F S = 8 hrs.	Refrigerate specimen during collection. Sample MUST NOT be acidified. <b>Sample must be transported STAT to Toxi Lab M-F 8:30 A.M to 3:00 P.M</b>
CORTICOSTEROID BINDING GLOBULIN (CBG, Transcortin)										See CBG (Cortisol Binding Globulin)
CORTICOSTEROID (17-Hydroxy)	U17OH									See 17-Hydroxycorticosteroids
CORTICOSTERONE	COTIC	CORTICOSTERONE	82528	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Extraction, Chromatography, RIA	Run on Wed Reported on Thursday	Sent out.
CORTICOTROPIN RELEASING HORMONE (CRH)	COREL	CORTICOTROPIN RELEASING HORMONE	83519	3 mL blood Na Heparin Tube	Sodium heparin vacutainer	Reference Lab (Quest)	See Report	Extraction, RIA	Run on Tuesday Report on Friday	Sent out. Transport to Quest as frozen plasma.
CORTISOL Serum	CORTA (am) CORTP (pm) CORTR (rand)	CORTISOL AM CORTISOL PM CORTISOL RANDOM	82533	5 mL blood	Red Top with Gel (Gold)	Chemistry, Core	AM = 5.5-20.0 ug/dL PM = 3.0-16.0 ug/dL	Chemiluminesence	R = M - Sat.	Critical Values : Cortisol AM & PM < 2.0 ug/dL. <b>Typical Draw times : 7 to 9 AM for Cort A 3 to 5 PM for Cort P</b>
CORTISOL, FREE (Serum)	FCORT	FREE CORTISOL	82530	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report.	EQ. Dialysis ICMA	R = 3-5 days	Sent out.
CORTISOL, Salivary	CORTS	CORTISOL SALIVA	82533	Saliva	Salivette Tube*	Reference Lab (Quest)	See Report		R = 7-10 days	*Obtain container from Sendout Dept. Place time of collection on container
CORTISOL, URINARY FREE (includes Creatinine)	UCOR2	U CORTISOL FREE 24hr	82565	24 hr urine	Clean plastic (2 L) urine container	Reference Lab (Quest)	See Report	HPLC	R = 7-10 days	Refrigerate specimen during collection. Record total volume. Sent out.
CORTOSYN (STIMULATION)	COSYN	CORTISOL Q 30 Min x3	82533X3	5 mL blood	Red Top with Gel (Gold)	Chemistry, Core	30 min: 7-32 increments above baseline. 60 min: 17-48 increments above baseline 4 hr: returns to baseline	Chemiluminesence	R = M-Sat S=2 hrs	*Call x444-2771 for assistance. PROTOCOL: Draw baseline cortisol "0" min. Mark time. Immediately after drawing baseline give cortrosyn IV. Thirty mins. after giving cortrosyn, draw second cortisol (30 min) mark time.(cont'd)...

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
CORTROSYN (cont'd)										...Sixty minutes after giving cortrosyn, draw third cortisol (60 min) mark time. All three specimens can be sent together on downtime slip at end of test.
COXSACKIE VIRUS (Group A)	COXA	COXSACKIE A TITERS	86658 X4	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Complement Fixation	R = 3-5 days	Sent out.
COXSACKIE VIRUS (Group B)	COXB	COXSACKIE B TITERS	86658 X6	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Complement Fixation	R = 3-5 days	Sent out.
C-PEPTIDE, Serum	CPEP	CPEPTIDE	84681	5 mL blood (8 hrs fasting)	Red Top Vac	Reference Lab (Quest)	See Report	RIA	R = 3-5 days	Sent out.
C-PEPTIDE, URINE	UCPE	U CPEPTIDE 24hr	84681	24 hr urine	Clean plastic (2 L) urine container. No Preservative	Reference Lab (Quest)	See Report	RIA	R = 3-5 days	Sent out.
C-REACTIVE PROTEIN	CRP1	C REACT PROTEIN	86140	5 mL blood	Green Top Vac with Gel (Mint)	Chemistry	< 10 mg/L	Immunoassay	R = Daily	
CREATININE	CR	CREAT LEVEL	82565	4 mL blood	Green Top Vac with Gel (Mint)	Chemistry	M 0.64 - 1.27 mg/dL F 0.44 - 1.03 mg/dL	Jaffe Rate Method	R = 4 hrs. S = 1 hr.	Call Value : Creatinine > 5.0 mg/dL (first time only) New ranges effective 3/31/09
CREATININE Clearance MUST BE TIMED SAMPLE	Adult: CRCLA Child: CRCLC	U CREATININE CLEARANCE ADULT 24hr U CREATININE CLEARANCE CHILD 24hr	82565 82570	Collect a 24 hr urine for creatinine.. Draw blood for Creatinine determination at start of urine collection. 4 mL of blood (Ped) 0.5 mL blood	Clean plastic (2 L) urine container and Mint Top Vac	Chemistry	Normal Values: M - 85-125 mL/min F - 75-115 mL/min	Jaffe Rate Method	R = daily	Both a plasma and a urine creatinine will be charged. Order a serum creatinine at the start of the urine collection. Refrigerate urine during collection.
CREATININE Urine 12 hr	UCR12	U CREATININE 12HR	82570	12 hr urine	Clean plastic (2 L) urine container	Chemistry	Depends on sex and weight.	Jaffe Rate Method	R = daily	Refrigerate during collection.
CREATININE Urine 24 hr	UCR24	U CREATININE 24HR	82570	24 hr urine	Clean plastic (2 L) urine container	Chemistry	Depends on sex and weight.	Jaffe Rate Method	R = daily	Refrigerate during collection. Test is performed routinely on all 24 hr urine specimens in Chemistry to ensure acceptability of specimen, but not billed, unless specifically ordered.
CREATININE Random Urine	UCRER	U CREATININE RANDOM	82570	Random spec	Clean plastic (100 mL) urine container	Chemistry		Jaffe Rate Method	R = daily	
CRH (Corticotropin Releasing Hormone)	COREL	CORTICOTROPIN RELEASING HORMONE	83519	3 mL blood Na Heparin Tube	Sodium heparin vacutainer	Reference Lab (Quest)	See Report	Extraction, RIA	R = 3-5 days	Sent out. Transport to Quest as frozen plasma
CROSSMATCH	*RC	CROSSMATCH RED CELLS	86920 86921 86922	6 mL blood	Pink Plastic Vac	Blood Bank	Compatible	Tube Test or Gel Test	R = 80-120 min. S = 45-60 min.	Reflexive Rule : A positive antibody screen or incompatible crossmatch may reflex an antibody identification.
CRYOGLOBULIN	CRYO	CRYOGLOBULIN	82595	10 mL blood	Red Top Vac	Clinical Immunology, Core	Negative		R = 72 hrs.	Reflexive Rule: If Cryo is Positive a Quantitation is performed. If the Quantitative result is 10 or greater, Cryoglobulin Isotyping will be performed and billed (CPT 86334). Transport STAT to Lab. WARM at 37°C. Do not draw on weekends or holidays.
Cryptococcal Antigen Titer (Serum)	CRYAG	CRYPTOCOCCAL ANTIGEN TITER		3 mL Blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Negative	Latex Agglutination	R = 4 hrs.	Critical Value: Positive titers
CYCLOSPORA	SCYLO	STOOL CYCLOSPORA/ISOSPO RA STN	87206	Stool	Total Fix Vial	Reference Lab (Quest)	Negative	Smear	R = 72 hrs. S = N/A	Sent out. Refrigerate sample

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
CSF Arbo Virus Titers	CARB	CSF ARBO VIRUS IGM TITER	86256	0.5 mL CSF	CSF Tube	Reference Lab (Quest)	See Report		R = 14 days	
CSF Varicella Zoster IgG Antibody Titer	CFVZG	CSF VARICELLA IGG	86787	0.5 mL CSF	CSF Tube	Reference Lab (Quest)	See Report		R = 3-5 days	
CSF Varicella Zoster IgM Antibody Titer	CFVZM	CSF VARICELLA IGM	86787	0.5 mL CSF	CSF Tube	Reference Lab (Quest)	See Report		R = 3-5 days	
CSF VDRL See Comments for Reflexive Rule	CFVDR	CSF VDRL	86592	0.5 mL CSF	CSF Tube	Clinical Immunology, Core	Non-reactive	Flocculation	R = once a week	If CSF VDRL is reactive, Quantitative VDRL (CPT 86593) is performed AND CSF FTA is sent to Reference Lab.
CSF AFB Culture	CXAFB	CSF AFB CULT	87116	CSF or Ventricular Fluid	Sterile CSF Tube	Microbiology	Negative	Semiautomated Detection System	R=6 Weeks S=N/A	Critical Value: Positive
CSF BCL-1 PCR bcl-1 Translocation by PCR	CFBCP	CSF BCL 1 P	81401 G0452	1 mL CSF	CSF Tube	Clinical Molecular Biology, RIH	Negative	PCR	R = 2-4 days	Test performed M - F.
CSF BCL-2 MAJOR BREAKPOINT CLUSTER PCR	CFBMA	CSF BC2 MA	81401 G0452	1 mL CSF	CSF Tube	Clinical Molecular Biology, RIH	Negative	PCR	R = 2-4 days	Test performed M - F.
CSF BCL-2 MINOR BREAKPOINT CLUSTER PCR	CFMIN	CSF BC2 MI	81401 G0452	1 mL CSF	CSF Tube	Clinical Molecular Biology, RIH	Negative	PCR	R = 2-4 days	Test performed M - F.
CSF Cell Count & Differential See Comments for Reflexive Rule	CFCCT CFDIF	CSF CELL CT CSF DIFF	89050 89051	1 mL CSF	Tube #1 Cell Count Tube #4 Cell Count & Diff	Urinalysis	0-5 Mononuclear cells RBC	Chamber Count, Cytocentrifuge & Wright's Stain	R & S = 1 hr.	Critical Value: Bacteria is noted. If CSF Cell Count (CPT 89050) is ordered and CSF Nucleated cell count is > or equal to 10, the a CSF Differential (CPT 89051) is performed, if not ordered, crediting the cell count. Send specimen STAT to Lab. In order to get a cell count on both first and last tube, the order for the second cell count must be ordered in separate order session. Otherwise, system will cancel as duplicate.
CSF Chemistry : Glucose, Protein, Chloride	CFGLU CFTP CFCL	CSF GLUCOSE CSF PROTEIN CSF CHLORIDE	82945 Glu 84157 TP 82438 Cl	1 mL CSF 1 mL CSF 1 mL CSF	1 Sterile plastic CSF tube	Chemistry	Normal: Glucose 38-85 mg/dL Protein 15-45 mg/dL Chloride 121-130 mEq/L	Chloride = Indirect ISE Glucose = Glucose oxidase Protein = Pyrogallol	R = Daily S = 1 hr.	
CSF CMV PCR Cytomegalovirus by PCR	CFCMP	CSF CMV PCR	87496	1 mL CSF	CSF Tube	Clinical Molecular Biology, RIH	Negative	PCR	R = 2-4 days	Test performed M - F
CSF Coccidioides Immitus F Ab	CCOC	CSF COCCIDIOIDES IMMITUS AB	86331	0.5 mL CSF	CSF Tube	Reference Lab (Quest)	See Report	Immunodiffusion	R = 14 days	
CSF Cryptococcal Antigen Titer	CFCYP	CSF CRYPTOCOCCAL ANTIGEN TITER	87449	0.5 mL CSF	CSF Tube	Clinical Immunology, Core	Negative	Latex Agglutination	R = 4 hrs.	Critical Value: Positive titers
CSF Culture and gram stain	CXCSF	CSF CULT AND GS	87070 87205	1 mL CSF	Sterile CSF Tube	Microbiology	No Growth	Bacterial Culture, including yeast and gram stain	R= 48 hrs S= N/A	Critical Value: Positive <b>Fluid from indwelling ventricular shunts should be ordered as a CSF Shunt Fluid Culture/GS</b>
CSF Cytomegalovirus Antibody IgG and IgM	CFCGM	CSF CMV IGG AND IGM	86644 86645	0.5 mL CSF	CSF Tube	Reference Lab (Quest)	See Report		R = 3-5 days.	
CSF EBV PCR Epstein Barr Virus by PCR	CFEBP	CSF EBV PCR	87798	1 mL CSF	CSF Tube	Clinical Molecular Biology, RIH	Negative	PCR	R = 2-4 days	Test performed M - F
CSF Fluorescent Treponemal Antibody	CFTA	CSF FTA	86781	0.5 mL CSF	CSF Tube	Reference Lab (Quest)	Non-reactive	Indirect Immunofluorescence (IFA)	R = 3-5 days	The CSF FTA-ABS test result should be correlated with the serum and the clinical findings. Sent out.
CSF Fungal Culture with Calcofluor	CXFUS	CSF FUNGAL CULTURE WITH CALCOFLUOR	87102 87206	1 mL CSF	Sterile CSF Tube	Microbiology	No Growth	Culture for yeast and mold. Smear: Calcofluor	R= 4 weeks S= N/A	Critical value : Positive

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
CSF Herpes Simplex Type 1 and 2 Antibody (IgG)	CFHG	CSF HSV 1 and 2 IGG	86695 86696	3 mL blood	CSF Tube	Reference Lab (Quest)	See Report		R = 7 days	
CSF Herpes Simplex Type 1 and 2 Antibody (IgM)	CFHM	CSF HSV 1 and 2 IGM	86695 86696	3 mL blood	CSF Tube	Reference Lab (Quest)	See Report		R = 7 days	
CSF HSV PCR Herpes Simplex Virus by PCR	CHSVP	CSF HSV 1 and 2 PCR	87529	0.5 mL CSF	CSF Tube	Virology, RIH	Negative	PCR	R = 1-2 days	Test performed M - F. Performed same day if received before 11 AM
CSF IgH PCR Immunoglobulin Heavy Chain by PCR	CFIGH	CSF IGH PCR	81261 G0452	1 mL CSF	CSF Tube	Clinical Molecular Biology	Negative	PCR	R = 2-4 days	Test performed M - F
CSF Immunoglobulin (IgG) ONLY	CFIGG	CSF IMMUNOGLOBULIN G	82784	0.5 mL CSF	CSF Tube	Clinical Immunology, Core	0.5-6.1 mg/dL	Nephelometry	R = M - F	
CSF Lactic acid (CSF Lactic)	CFLAC	CSF LACTIC ACID	83605	0.5 mL CSF ON ICE	Sterile plastic CSF Tube	Chemistry, RIH	0.5-2.0 mEq/L	Lactate oxidase / Peroxidase	S = 1 hr.	Transport Stat on Ice
CSF LYME DISEASE AB by PCR (Titer to Borrelia Burgdorferi)	CLYM	CSF OR SYNOVIAL LYME PCR		1 mL CSF or Synovial Fluid	White Top Vac	Reference Lab (Quest)	See Report	PCR	R = once per week	Can only be performed on CSF or Synovial Fluids
CSF Lyme Index	CLYM1	CSF LYME INDEX	82040 82042 82784x2 86618x6	2 mL CSF & 2 mL Serum	CSF Tube Red Top vac	Reference Lab (Focus) via Quest	See Report	Nephelometry and Immunoassay	R = 3-5 days	
CSF Myelin Basic Protein	CMYEL	CSF MYELIN BASIC PROTEIN	83873	2 mL CSF (CSF) (1.1 mL minimum) ON ICE	Sterile plastic CSF tube	Reference Lab (Quest)	See Report	RIA	R = 3-5 days	Sent out.
CSF OLIGOCLONAL BANDS	COLIG	CSF OLIGOCLONAL BANDS	83916	2.5 mL CSF 5 mL Blood	Sterile plastic CSF tube Red Top Vac	Reference Lab (Quest)	Negative	Isoelectric Focusing	R = 3-5 days	Requires both CSF and blood collected at the same time. If only one of the samples is received, notify ordering physician for instructions on how to proceed. Ship Frozen. Sent out.
CSF RPR										See CSF VDRL
CSF Shunt Fluid Culture and gram stain	CXSHN	CSF SHUNT FLUID CULT AND GS	87075 87205	>1 mL VENTRICULAR FLUID	Sterile Leakproof Container or Shunt Bag	Microbiology	No Growth	Aerobic, Anaerobic, Yeast Culture and gram stain	R= 5 days S= N/A	
CSF T Cell Antigen Receptor Beta Gene Rearrangement by PCR (TCR beta by PCR)	CFTCB	CSF TCR BETA PCR	81340 G0452	1 mL CSF	CSF Tube	Clinical Molecular Biology, RIH	Negative	PCR	R = 7-10 days	Test performed M - F.
CSF T Cell Antigen Receptor Gamma Gene Rearrangement by PCR (TCR gamma by PCR)	CFTCG	CSF TCR GAMMA PCR	81342 G0452	1 mL CSF	CSF Tube	Clinical Molecular Biology, RIH	Negative	PCR	R = 7-10 days	Test performed M - F.
CSF Toxoplasma gondii IgG Antibody Titer	CFTXG	CSF TOXOPLASMA IGG	86777	0.5 mL CSF	CSF Tube	Reference Lab (Quest)	See Report		R = 3-5 days.	
CSF Toxoplasma gondii IgM Antibody Titer	CFTXM	CSF TOXOPLASMA IGM	86778	0.5 mL CSF	CSF Tube	Reference Lab (Quest)	See Report		R = 3-5 days.	
CSF Tumor cells						Cytology				See Cytology Section.
CSF Varicella Zoster Antibody (IgG)	CFVZG	CSF VARICELLA IGG	86787	0.5 mL CSF	CSF Tube	Reference Lab (Quest)	See Report		R = 3-5 days.	
CSF Varicella Zoster Antibody (IgM)	CFVZM	CSF VARICELLA IGM	86787	0.5 mL CSF	CSF Tube	Reference Lab (Quest)	See Report		R = 3-5 days.	
CSF VZV PCR Varicella Zoster Virus by PCR	CFVZP	CSF VARICALLA ZOSTER PCR	87798	1ml of CSF	CSF Tube	Clinical Molecular Biology, RIH	Negative	PCR	R=2-4 days	Test performed M-F
CYANIDE	CN	CYANIDE LEVEL	82600	5 mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Toxicology, RIH	0-20 ug/dL	Microdiffusion/ Spectrophotometry	R = M - Sat S = 4 hrs.	Toxic: >50 ug/dL
CYCLIC-AMP SERUM	AMP	CYCLIC AMP SERUM	82030	5 mL blood	Lavender Top Vac	Reference Lab (Quest)	See Report	RIA	R = 3-5 days	Must be shipped frozen. Sent out.



TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
CYCLOBENZAPRINE (Flexeril)	CYBNZ	CYCLOBENZAPRINE LEVEL	82491	5 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 3-36 ng/mL	High Performance Liquid Chromatography	R = Tu & F S = 8 hrs.	Toxic >50 ng/mL
CYCLOSPORINE, whole blood	CYC	CYCLOSPORINE2	80158	5 mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Toxicology, RIH	Therapeutic Range: Variable	Chemiluminescent Microparticle Immunoassay (CMIA)	R = M-Sat. S = 2 hrs.	Call Toxicology @ 444-5858 to arrange for a Stat.
CYSTIC FIBROSIS DNA by PCR	CFIBP	CYSTIC FIBROSIS PCR	81220	5 mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Reference Lab (Quest)	See Report	PCR	R = 10-12 days	Sample must be kept at room temperature and sent as whole blood. Tests for 25 specific mutations.
CYTOGRAM - VAGINAL						Cytology				See Cytology Section.
Cytomegalovirus IgG CMV IgG	CMG	Cytomegalovirus IgG EIA	86644	3.0 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Negative: ≤ 0.90 Equivocal : 0.91-1.09 Positive: ≥ 1.10	EIA	R = once a week	
Cytomegalovirus IgM CMV IgM	CMM	Cytomegalovirus IgM EIA	86645	3.0 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Negative: ≤ 0.90 Equivocal : 0.91-1.09 Positive: ≥ 1.10	EIA	R = once a week	
D-DIMER (PE/DVT) RIH & TMH ED only	DVTD1	D Dimer Deep Vein Thromb Level (MedHost RIH & TMH only)	85379	2.7 mL blood	Blue Top Vac	Coagulation	< 230 ng/mL (cut off for VTE exclusion)	Enzyme Immunoassay	R = < 4 hrs. S = Š1 hr.	Tube must contain at least 2.7 mL of blood to ensure accuracy.
D-DIMER (Quant)	DDIM1	D DIMER LEVEL	85379	2.7 mL blood	Blue Top Vac	Coagulation	0 - 300 ng/mL	Enzyme Immunoassay	R = < 4 hrs. S = Š1 hr.	Tube must contain at least 2.7 mL of blood to ensure accuracy.
D-DIMER (Quant) Newport Hospital Only	NHDDM	D DIMER QUANT	85379	4.5 mL blood	Blue Top Vac, On Ice	Special Heme, NH	68 - 500 ng/mL	ELFA	R = 2 hrs.	Newport Hospital Only
DEOXYCORTICOSTERONE (DOC)	DOC	DEOXY-CORTICOSTERONE	82633	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Extraction, Chromatography, RIA	R = 5-7 days	Refrigerate during transport. Sent out.
DEPAKENE (Valproic Acid)	VALP	VALPROIC	80164	3mL blood	Green Top Vac with Gel (Mint)	Chemistry	Therapeutic range: 50-100 ug/mL	PETINIA	R = Daily S = 2 hr.	Critical: >150 ug/mL (First incidence only) VPA Peak depends on how drug was administered. Syrup : 0.5-1 hour Capsule 1-3 hrs Coated Capsule 2-6 hrs. Trough : immediately before next dose may be the most reliable value for dose related adjustments.
DEPAKOTE (Depakene, Valproic Acid)	VALP	VALPROIC	80164	3 mL blood	Green Top Vac with Gel (Mint)	Chemistry	Therapeutic range: 50-100 ug/mL	PETINIA	R = Daily S = 2 hr.	Critical: >150 ug/mL (First incidence only) VPA Peak depends on how drug was administered. Syrup : 0.5-1 hour Capsule 1-3 hrs Coated Capsule 2-6 hrs. Trough : immediately before next dose may be the most reliable value for dose related adjustments.
DESIPRAMINE	DESIP	DESIPRAMINE LEVEL	80160	10 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 150-250 ng/mL	High Performance Liquid Chromatography	R = Tu & F S = 8 hrs.	Toxic: > 500 ng/mL Performed Tu and F, P.M
DESYREL	TRAZ	TRAZODONE LEVEL	82491	10 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic range: 0.8 - 1.6 ug/mL	High Performance Liquid Chromatography	R = Weekly S = 8 hrs.	Toxic: >5.0 ug/mL
DEXAMETHASONE SUPPRESSION TEST	DXMET	DEXAMETASONE CORTISOL		5 mL blood	Red Top with Gel (Gold)	Chemistry, Core	0.0 - 5.0 ug/dL	Chemiluminescence		Patient takes med @ 10-11 PM and then again @ 8 AM. Patient must be NPO during this period. Draw fasting Cortisol ordered as Dexamet.
DHEA Dehydroepiandrosterone	DHEA	DHEA LAB	82626	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Extraction, Chromatography, RIA	R = 3-5 days	Sent out.

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DHEA SULFATE (DHEA - SO4) DEHYDRO-EPIANDROSTERONE SULFATE	DHEAS	DHEA SULFATE	82627	5 mL blood	Red Top with Gel (Gold)	Chemistry, Core	Reference Ranges vary by age and sex. See Lab Report for appropriate ranges.	Immuno-Chemiluminescence	R = M, Th	Once received in lab, spin and freeze immediately.
DIALYSATE CULTURE and GRAM STAIN	CXDIA	DIALYSIS ANA AER CULT W GS	87075 87070 87205	Peritoneal Dialysis fluid	White Top Vac and Aerobic / Anaerobic Blood Culture Bottles	Microbiology	No Growth	Aerobic, Anaerobic, Yeast Culture and gram stain	R = 5 days	Deliver to Lab immediately.
DIAZEPAM See Comments	VAL	VALIUM DIAZEPAM AND NORDI	80154 82491	5 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 0.1 - 1.5 ug/mL	High Performance Liquid Chromatography	R = Weekly S = 8 hrs.	Toxic: >5 ug/mL Nordiazepam is performed and charged on all requests.
DIFFERENTIAL/ (MANUAL)	MDIFF	LAB ORDER ONLY	85007	Can be taken from CBC sample. CBC must also be ordered		Hematology		Push Smear, Wright's Stain	R = < 5 hrs. S = 1 hr.	CBC generally includes an automated differential. For any previously undetected abnormality, a manual differential will be initiated.
DIGITOXIN	Not orderable	Not orderable	80299	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	FPIA	R = 3 days	Sent out. Sample should be collected 12-48 hours after last dose.
DIGOXIN	DIG	DIGOXIN LEVEL	80162	5 mL blood	Red Top with Gel (Gold)	Chemistry	If dose is 0.25 mg daily: Therapeutic range : 0.8-2.0 ng/mL	Chemiluminescence	R = Daily S = 1 hrs.	Critical Value : > 2.5 ng/mL. (First incidence only) Blood must be drawn at least 6 hrs. after dose is given.
DIHYDRO-TESTOSTERONE	DIHYR	DIHYDRO - TESTOSTERONE	82651	10 mL blood.	Red Top Vac	Reference Lab (Quest)	See Report	Extraction, Chromatography, RIA	R = 3-5 days	Sent out.
DILANTIN (Phenytoin)	DIL	DILANTIN PHENYTOIN	80185	3 mL blood	Green Top Vac with Gel (Mint)	Chemistry	Therapeutic range: 10-20 ug/mL	PETINIA	R = Daily S = 1 hr.	Critical Value : >30 ug/mL (First incidence only) Peak serum levels are reached in 1.5 - 3 hours post dose for regular formulations and 4 - 12 hours after slow releasing formulations.
DILANTIN, FREE See Comments	FDIL	FREE DILANTIN + DILANTIN	80185 80186	4 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic range: 1.0-2.0 ug/mL	Floresence Polarization Immunoassay (FPIA)	R = M-Sat S = 2 hrs.	Free Dilantin Toxic: >2.5 ug/mL A total dilantin is also performed on all requests.
DIPHENHYDRAMINE	DPHY	DIPHENYDRAMINE	82491	5 mL blood	Red Top Vac	Toxicology, RIH	100-1000 ng/mL	Gas Chromatography	R = Weekly S = 6 hrs.	Toxic: >5000 ng/mL Synonym: Benadryl.
DIRECT ANTIGLOBULIN ORDER HEMOCARE (Direct Coombs) See Comments for Reflexive Rule	DAT	DIRECT COOMBS TEST	86880	Adults : 6 mL Blood Whole Blood Required Pediatrics : 3 mL Blood	Adults : Pink Plastic Vac Pediatrics : Lavender tube only	Blood Bank	Negative	Tube Test	R=30 min. S=15 min.	<b>Critical Value:</b> Positive results when not associated with transfusion reaction. All results when associated with a Transfusion Reaction. <b>Reflexive Rule:</b> A positive direct antiglobulin test may reflex an elution.
DISOPYRAMIDE (Norpace)	DISOP	DISOPYRAMIDE NORPACE	82491	5 mL blood (Min) 3 mL blood	Red Top Vac	Reference Lab, Quest	See Report	Enzyme Immunoassay	R = 2-4 days	
DNASE B (Anti-Deoxyribonuclease B)	DNB	DNASE B ANTIBODY	86215	3.0 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	< 187 U/mL	Nephelometry	R = M - F	
DONATH-LANDSTEINER						Blood Bank RIH			R = 5-10 hrs.	
DOPAMINE						Toxicology, RIH			R = Weekly	See Catecholamine
DORIDEN (Glutethimide)	DOR	DORIDEN LEVEL	82980	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report		R = 5-7 days	
DOUBLE STRANDED DNA ANTIBODY	ADNA	ANTI DS DNA	86225	5 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	< 1:10	Indirect Immunofluorescence (IFA)	R = twice per week	
DOXEPIN (Sinequan)	DOX	DOXEPIN AND DEMETHYLDX	80166	10 mL blood (Min) 5mL blood	Red Top Vac	Toxicology, RIH	Therapeutic range: Doxepin + Desmethyldoxepin 110-250 ng/mL	High Performance Liquid Chromatography	R = Tu & F S = 8 hrs.	Toxic: > 500 ng/mL Desmethyldoxepin is performed on all requests for Doxepin. Performed Tu and F, P.M

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DOXYLAMINE	DOXYL	DOXYLAMINE LEVEL	82491	5 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic range: 50-500 ng/mL	Gas Chromatography	R = Weekly S = 6 hrs.	Toxic: > 900 ng/mL
DRUG SCREEN COMPREHENSIVE	DSC	DRUG SCREEN COMPREHENSIVE	80101 X10 82055	50 mL random urine and 10 mL blood	Clean plastic (100 mL) urine container and both a red top and a mint top vac.	Toxicology, RIH		Enzyme Immunoassay, Gas Chromatography/Mass Spectrometry	R = M - Sat. S = 3 hrs.	Assay intended for use with self poisonings or suspected ingestions of unknown origin. Drugs identified in the urine are quantitated in the serum whenever possible, but a separate order is needed. Drugs of abuse are confirmed. (Note other drug screening options available.)
DRUG OF ABUSE SCREEN	ERDAU	DRUG OF ABUSE SCRNV	80101x8	50 mL random urine x2	Clean plastic (100 mL) urine container	Chemistry		Enzyme Immunoassay	R = Daily S = 1 hr.	This panel represents the most common clinical standard for drug screening and is available 24 hours per day and 7 days week. <b>The positive cutoff values are listed after each drug class.</b> Drugs tested for include amphetamines (1000ng/mL), barbiturates (200 ng/mL), benzodiazepines (200 ng/mL), cocaine (300 ng/mL), methadone (300 ng/mL), opiates (300 ng/mL), phencyclidine (25 ng/mL), and THC (50 ng/mL).
D-XYLOSE TOLERANCE	XYL	XYLOSE SERUM	84620	5 mL blood per sample <b>Whole Blood Required if collected in Gray top</b>	Red Top or Gray top vac	Reference Lab (Quest)	See Report	Colorimetric	R = M & Th	Sent out. Keep serum or whole blood at room temperature. Samples include 1 and 2 hour post dosing bloods and a 5 hour urine. Testing may be booked through APC at RIH by calling 793-4200.
E Coli O157-H7 Culture	CXECO	STOOL E COLI O157 H7 CULT	87045	Stool	Carey Blair Transport Medium available from Stores Item#115532	Microbiology	Negative	Culture to R/O EC O157 only	R= 48 HRS S= N.A.	This is performed on request, automatically performed on Bloody specimens
E.C.H.O. VIRUS SEROLOGY	ECHO	ECHO TITER	86658 X7	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Complement Fixation	R = 3-5 days	Sent out.
Ear (External) Culture	CXEAR	EAR CULT	87070	Ear Swab	Copan Double Swab	Microbiology	Mixed Cutaneous Flora	Bacterial Culture, including yeast	R= 48 hrs. S= N/A	
Ear (Internal) Culture and gram stain	CXEAG	EAR CULT AND GS	87070 87205	Tympanocent. Fluid	Sterile Leakproof Container	Microbiology	No Growth	Bacterial Culture, including yeast, gram stain	R= 48 hrs. S= N/A	
Ear Fungal Culture and smear	CXFUS	EAR FUNGAL CULT AND SMEAR	87102 87206	Tympanocent. Fluid or Ear swab	Sterile leakproof container or copan double swab	Microbiology	Negative	Culture for yeast and mold. Smear: calcoflour	R= 4 weeks S= N/A	
Ear Viral Culture	CXVIR	EAR VIRAL CULT	87252	Ear Swab	Copan Double Swab placed into UTM	Virology, RIH	Negative	Spin amplified detection for Influenza A, B, Para I, II, III, RSV, Adenovirus and HSV I & 2		At RIH, UTM supplied by Central 444-6107 At TMH, UTM supplied by Microbiology 793-4235
EASTERN EQUINE ENCEPHALITIS ANTIBODY IgG	ARIG1	ARBOVIRUS IGG AB PANEL	86651 86652 86653 86654	3 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report			Includes St. Louis, EEE, WEE and CAE. Sent to Focus via Quest
EASTERN EQUINE ENCEPHALITIS ANTIBODY IgM	ARIM1	ARBOVIRUS IGM AB PANEL	86651 86652 86653 86654	3 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report			Includes St. Louis, EEE, WEE and CAE. Sent to Focus via Quest
EBV (IgA only) Viral Capsid Antigen	EBCAL	EPSTEIN BARR CAPSID AG	86665	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report		R = 7-10 days	Sent out.

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
EBV ANTIBODY TITER	EBVTI	EPSTEIN BARR VIRUS TITER	86663 86664 86665 86665	5.0 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Negative: ≤ 0.9 Equivocal: 0.91-1.09 Positive ≥ 1.10 EBV VCA IgG EBV VCA IgM Early Antigen EBNA	EIA	R = Twice/wk	Test includes antibody to viral capsid (IgG and IgM) antigen. Early antigen and Epstein Barr nuclear antigens.
ECHINOCOCCUS IgG AB with Reflex to Western Blot	ECHI1	ECHINOCOCCUS IGG AB w Reflex	86682	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	EIA	R = 3-5 days	If positive will reflex to the IgG Western Blot and be billed
A phagocytophilum Ab IgG IgM	EHGRA	A PHAGOCYTOPHILUM AB IGG IGM	86666X2	5.0 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	IFA	R = 3-5 days	Test includes both IgG & IgM antibody testing. Sent out to Quest.
EHRlichia MONOCYtic ANTIBODIES (IgG & IgM)	EHRMO	EHRlichia MONOCYtic	86666X2	5.0 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	IFA	R = 3 -5 days	Test includes both IgG & IgM antibody testing. Sent out.
ELAVIL (Amitriptyline) See Comments	AMIT	AMITRIP and NORTRIP	80152 80182	10 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic range: total Amitriptyline plus Nortriptyline 120-250 ng/mL	High Performance Liquid Chromatography	R = Tu & F S = 6 hrs	Toxic: >500 ng/mL Indicate if patient is receiving phenothiazines. Nortriptyline is performed and charged on all requests for amitriptyline.
ELECTROLYTES	LYT1	LYTES LAB		4 mL blood	Green Top Vac with Gel (Mint)	Chemistry	See Individual Components	Indirect ISE	R = 4 hrs. S = 1 hr.	Group contains Sodium, Potassium, Chloride, CO2, and Anion Gap.
ELECTROLYTES Fecal	SNA SK FCHL	Fecal Na Fecal K Fecal Cl	82438 84302 84311	10 mL Random stool	Clean Container	Reference Lab (Quest)	See Report	Flame Photometry Coulometric titration	R = 3-4 days	Fecal Sodium, Potassium and Chloride must be ordered individually.
ELECTROPHORESIS Urine Protein See Comments for Reflexive Rules	UPEP	U PROTEIN ELECTROPHORESIS	84165	Random urine	Urine specimen container	Clinical Immunology, Core	No protein detected	Electrophoretic Separation of Proteins (SPE)	R = 5-7 days	If a monoclonal protein is detected, an IFE (CPT 86334) will be performed and charged
ELECTROPHORESIS 24 Hr Urine Protein See Comments for Reflexive Rules	UPEP2	U PROTEIN ELECTROPHORESIS 24hr	84165	24 hr urine	Clean plastic (2L) urine container	Clinical Immunology, Core	No protein detected	Electrophoretic Separation of Proteins (SPE)	R = 5-7 days	If a monoclonal protein is detected, an IFE (CPT 86334) will be performed and charged
ELECTROPHORESIS Serum Protein See Comments for Reflexive Rules	SPEP	SPEP**	84165	5 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	TP = 6.3-8.3 g/dL Alb = 3.54-5.04 g/dL Alpha 1 = 0.10-.25 g/dL Alpha 2 = 0.57-1.04 g/dL Beta = 0.61-1.17 g/dL Gamma = 0.50-1.5 g/dL	Electrophoretic Separation of Proteins (SPE)	R = 5-7 days	If a new or cryptic paraprotein band and/or when there are changes to a previous known monoclonal, then an IFE (CPT 86334) and a Total Immunoglobulin Levels (IgG, IgM, IgA) (CPT 82784) are performed and charged. <b>If indicated, free Kappa/Lambda light chain ratio will be reflexed and charged.</b>
ELECTROPHORESIS Hemoglobin	HGBEL	HEMOGLOBIN ELECT	83020 85027	3 mL blood <b>Whole Blood Required</b>	Lavender Top Vac Microtainer also accepted	Special Hematology, RIH	Fetal Hgb: <2% (over age of 2 years) Normal A2: <3.4% Hgb A: remaining hemoglobin	Capillary Electrophoresis	R = 48-72 hrs	HGB ELEC Test. Performed on Wednesday. Depending on the results obtained, a Fetal Hemoglobin (83030), Hemoglobin A2 (83021), Sickle Cell Screen (85660), Unstable Hemoglobin (83068) or an Acid Citrate may be ordered.
ELECTROPHORESIS Hemoglobin F, RBC quantitative	HBF	HEMOGLOBIN F	83030	3 mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Special Hematology, RIH		Capillary Electrophoresis	R = 24 hrs.	HB F done M - F AM
ELECTROPHORESIS Hemoglobin S, RBC quantitative	HBS	HEMOGLOBIN S QUAN	82491	3 mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Special Hematology, RIH		Capillary Electrophoresis	R = 24 hrs.	
ENA Extractable Nuclear Antigen (ENA) JO 1	JO1	EXT NCLR ANTG (ENA) JO 1	86235	3 mL blood (Min.) 1.0 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Negative	EIA	R = Once/Week	Negative : < 20 Units Weak Pos: 20-39 Mod Pos: 40-80 Strong Pos: ≥80
ENA Extractable Nuclear Antigen (ENA) Ribonuclear Protein	RNP	EXT NCLR ANTG (ENA) RNP	86235	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Negative	EIA	R = Once/Week	Negative : < 20 Units Weak Pos: 20-39 Mod Pos: 40-80 Strong Pos: ≥80

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
ENA Extractable Nuclear Antigen (ENA) SSB	SSB	EXT NCLR ANTG (ENA) SSB	86235	3 mL blood (Min) 1.0 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Negative	EIA	R = Once/Week	Negative : < 20 Units Pos: 20-39 80 Weak Mod Pos: 40-80 Strong Pos: ≥80
ENA Extractable Nuclear Antigen (ENA) SCL-70	SCL70	EXT NCLR ANTG (ENA) SCL 70	86235	3 mL blood (Min) 1.0 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Negative	EIA	R = Once/Week	Negative : < 20 Units Pos: 20-39 80 Weak Mod Pos: 40-80 Strong Pos: ≥80
ENA Extractable Nuclear Antigen (ENA) SM	SM	EXT NCLR ANTG (ENA) SMITH	86235	3 mL blood (Min) 1.0 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Negative	EIA	R = Once/Week	Negative : < 20 Units Pos: 20-39 80 Weak Mod Pos: 40-80 Strong Pos: ≥80
ENA Extractable Nuclear Antigen (ENA) SSA	SSA	EXT NCLR ANTG (ENA) SSA	86235	3 mL blood (Min) 1.0 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Negative	EIA	R = Once/Week	Negative : < 20 Units Pos: 20-39 80 Weak Mod Pos: 40-80 Strong Pos: ≥80
ENDOMYSIAL ANTIBODY	ENDO	ENDOMYSIAL AB	86256	5 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	< 1:5	Indirect Immunofluorescence (IFA)	R = once a week	
ENTAMOEBIA HISTOLYTICA ANTIBODY	AMOAB	AMOEBIA TITER	86753	3 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Immunodiffusion	R = 3-5 days	Sent out.
Enterovirus by PCR	CEVP	ENTEROVIRUS PCR		0.5 mL CSF	CSF Tube	Virology, RIH	Negative	PCR	S = 3 hours	Test available 24/7
EOSINOPHIL COUNT Urine	UEOS	URINE EOSIN	87205	Random Specimen	Urine specimen container	Urinalysis	ZERO Eosinophils/100 WBC	Cyocentrifuge, Wright's Stain	R = Daily	Test available 24/7
EPHEDRINE	EPH	EPHEDRINE LEVEL	82491	5 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic range: 68-100 ng/mL	Gas Chromatography/Mass Spectrometry	R = Weekly S = 6 hrs.	Toxic: > 500 ng/mL
EPIDERMAL ANTIBODIES	EPIDE	EPIDERMAL ANTIBODY	86256	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report		3-5 days	Also known as Skin antibodies, Pemphigus antibodies and skin basement membrane antibodies.
EPINEPHERINE						Toxicology, RIH			R = Weekly	See Catecholamines.
EPO (ERYTHROPOIETIN ) Serum	EPO	EPO	82668	5 mL blood	Red Top Vac	Reference Lab (Quest)	1.2-27.7 mU/mL	Chemiluminescence	R = M,Th	Freeze immediately after processing.
EPSTEIN BARR VIRUS ANTIBODY	EBVTI	EPSTEIN BARR VIRUS TITER	86663 86664 86665 86665	5.0 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Negative: ≤ 0.9 Equivocal: 0.91-1.09 Positive ≥1.10 EBV VCA IgG EBV VCA IgM Early Antigen EBNA	EIA	R = twice a week	Test includes antibody to viral capsid (IgG and IgM) antigen. Early antigen and Epstein Barr nuclear antigens.
EPSTEIN BARR VIRUS ANITBODY (IgA only) Viral Capsid ag	EBCAL	EPSTEIN BARR CAPSID AG	86665	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report		R = 7-10 days	Sent out.
ERYTHROPOIETIN Serum	EPO	EPO	82668	5 mL blood	Red Top Vac	Reference Lab (Quest)	1.2-27.7 mU/mL	Chemiluminescence	R = M,Th	Freeze immediately after processing.
ESR Erythrocyte Sedimentation Rate										See Sed Rate Westergren.
ESTERASE INHIBITOR C1 FUNCTIONAL ACTIVITY	C1ESF	C1 ESTERASE FUNCTIONAL								See C1 Esterase Inhibitor Functional Activity
ESTERASE INHIBITOR C1 PROTEIN	C1EST	C1 ESTERASE								See C1 Esterase Inhibitor Protein
ESTRADIOL (E2 )	ESTR1	ESTRADIOL 2ndG	82670	5 mL blood	Red Top with Gel (Gold)	Chemistry, Core			R = daily	
ESTRADIOL Ultrasensitive	UEST1	ESTRADIOL ULTRA SENSITIVE LAB	82670	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	LC/MS	R = 3-5 days	Sent out.
ESTRIOL (E3)	ESTRI	ESTRIOL LAB	82677	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Extraction, RIA	R = 3-5 days	Sent out.

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
ESTROGEN RECEPTOR ASSAY						Histology			Fresh Tissue= Sent out. R = 2 days Paraffin Tissue = if received before 2:00 pm will be ready next day after 2:00 pm	See Histopathology Section.
ESTROGENS, TOTAL (NONPREGNANT)	ESTRO	ESTROGEN	82672	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Extraction, RIA	R = 3-5 days	Sent out.
ESTRONE (E1)	ESTR	ESTRONE LAB	82679	5 mL blood.	Red Top Vac	Reference Lab (Quest)	See Report	Extraction, RIA	R = 3-5 days	Sent out.
ETHANOL	ETOH	ETHANOL LEVEL	82055	5 mL blood	Green Top Vac with Gel (Mint)	Chemistry	ND (none detected)	Enzymatic: Alcohol Dehydrogenase	R & S = 1 hr.	Critical > 400 mg/dL First Use Incidence only Betadine to prepare skin. NOT ALCOHOL. Method measures Ethanol
ETHOSUXIMIDE (ZARONTIN)										See Zarontin
ETHOTOIN (PEGANONE)			80299	10 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Gas Chromatography	R = 3-5 days	Sent out.
ETHYLENE GLYCOL	EGLYC	ETHYLENE GLYCOL LEVEL	82693	5 mL blood	Red Top Vac	Toxicology, RIH	ND (None detected)	Gas Chromatography	R = Daily S = 4 hrs.	Toxic: >20 mg/dL
EXTRA BLOOD BANK TUBE DRAW	EXTRA	EXTRA PINK TOP TUBE DRAW		See Comments	Blood Bank will Call	Blood Bank				Used by Blood Bank to request additional tubes for reflexive or reference lab testing.
Eye Chlamydia Probe	EYECT	EYE CHLAMYDIA PROBE	87491	Eye Swab	Gen - Probe Collection Kit available from Stores <b>Specimen must be placed in tube prior to delivery to laboratory.</b>	Molecular Microbiology Coro	Negative	Transcription Mediated Amplification (TMA)	R = M - F	Critical Value: Positive <b>Blue swab should be submitted in Gen - Probe Collection Kit for analysis. (Silver foil topped containers)</b>
Eye Cornea Culture	CXCOR	EYE CORNEA CULT	87075 87070	Cornea	Sterile leakproof Container	Microbiology	No Growth	Bacterial Culture, including yeast	R = 5 days S = NA	
Eye Culture	CXEYE	EYE CULT	87070	Eye Swab	Copan Double Swab	Microbiology	No Growth	Bacterial Culture, including yeast	R = 48 hrs. S = NA	
Eye Culture and gram stain	CXEYG	EYE CULT AND GS	87070 87025	Eye Swab	Copan Double Swab	Microbiology	No Growth	Bacterial Culture, including yeast, gram stain	R = 48 hrs. S = NA	Critical Value: Positive eye cultures for GC
Eye Fungal Culture and smear	CXFUS	EYE FUNGAL CULT AND SMEAR	87102 87206	Cornea scraping	Sterile Leakproof Container	Microbiology	Negative	Culture for yeast and mold. Smear: calcofluor	R= 4 weeks S= N/A	
Eye Gonorrhea Probe	EYEGC	EYE GONORRHEA PROBE	87591	Eye Swab	Gen - Probe Collection Kit available from Stores <b>Specimen must be placed in tube prior to delivery to laboratory.</b>	Molecular Microbiology Coro	Negative	Transcription Mediated Amplification (TMA)	R = M - F	Critical Value: Positive <b>Blue swab should be submitted in Gen - Probe Collection Kit for analysis. (Silver foil topped containers)</b>
Eye Smear for Acanthamoeba	ACNTH	EYE ACANTHAMOEBA SMEAR	87206	Corneal Scraping	Slide: make at bedside	Microbiology	Negative	Smear - Calcofluor White	Smear R = 2 hrs., S = N.A.	Call Lab before sending. Submit specimen and requisition to Lab. Available M-F only, DAY SHIFT.

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
Eye Viral Culture	CXVIR	EYE VIRAL CULT	87252	Eye Swab	Copan swab placed into UTM	Virology, RIH	Negative	Spin amplified detection for Influenza A, B, Para I, II, III, RSV, Adenovirus and HSV I & 2	R =48 hours S = N.A.	At RIH, UTM supplied by Central 444-6107 At TMH, UTM supplied by Microbiology 793-4235
Eye Vitreous Culture and gram stain	CXVIT	EYE VITREOUS CULT AND GS	87075 87205 87070	Vitreous Fluid	Sterile Leakproof Container	Microbiology	No Growth	Aerobic, Anaerobic, Yeast Culture and gram stain	R = 5 days S = N.A.	
FACTOR ASSAYS (Coagulation) F II, F V, VII, VIII, IX, X, XI, XII, XIII	FII FV FIX FVII FX FVIII FXI FXII FXIII	FACTOR II LEVEL FACTOR V FACTOR VII FACTOR VIII FACTOR IX FACTOR X FACTOR XI FACTOR XII FACTOR XIII	F-II 85210 F-V 85220 F-VII 85230 FVIII 85240 F-IX 85250 F-X 85260 F-XI 85270 FXII 85280	9.0 mL blood	2 Blue Top Vac	Coagulation, RIH	Normal - 50-150%	Clottable	R = 1 week S = 5 3 hrs.	Critical Values : F II, V, VII, VIII, IX, X, XI, XII < 30% Factor XIII - Absent Patient cannot be on Heparin or Coumadin. Available from 7 AM to 10 PM Monday to Friday and Holidays and weekends by special arrangement. Call Coagulation lab at 444-5560 to book. <b>These may be ordered individually</b>
FACTOR IX INHIBITOR	INH9	INHIBITOR F IX	85335	9.0 mL blood	2 Blue Top Vac	Coagulation, RIH	< 1 Bethesda unit	Clottable	R = 1 week S = 5 3 hrs.	Critical Values : Factor IX Inhibitor > 1.0 B.U. Patient cannot be on Heparin or Coumadin therapy. Not performed nights, holidays, or weekends.
FACTOR V LEIDEN SCREENING ASSAY (APC Resistance)	APCSO	APC RESIST or FACTOR V LEIDEN SCR N	85300	4.5 mL blood	Blue Top Vac	Coagulation, RIH	2.5 - 5.5 ratio	Clottable	R = 3-5 days	Patient should not be on Heparin or Coumadin. Also known as APC Resistance. There is also a Genetic assay, F-V MUT DNA performed by Molecular Biology.
FACTOR V LEIDEN DNA (F-V MU DNA)	FVDNA	FACTOR V LEIDEN DNA	81241	Buffy Coat from Lavender or 3 mL Whole Blood	Lavender Top Vac	Clinical Molecular Biology, RIH	Normal	Florsecent Probe	R = 5-7 days; set up Tuesdays	Confirmatory test for APC Resistance (Factor V Leiden). Stable for 4 days refrigerated. Test set up on Tuesdays.
FACTOR V MUTATION DNA (F-V LEIDEN DNA)	FVDNA	F V MUT DNA	81241	Buffy Coat from Lavender or 3 mL Whole Blood	Lavender Top Vac	Clinical Molecular Biology, RIH	Normal	Florsecent Probe	R = 5-7 days; set up Tuesdays	Confirmatory test for APC Resistance (Factor V Leiden). Stable for 4 days refrigerated. Test set up on Tuesdays.
FACTOR VIII INHIBITOR LEVEL	INH8	INHIBITOR F VIII	85335	9.0 mL blood	2 Blue Top Vac	Coagulation, RIH	<1 Bethesda Unit	Clottable	R = 1 week S = 5 3 hrs.	Critical Value : Factor VIII Inhibitor > 1.0 B.U. Patient cannot be on Heparin or Coumadin therapy. Not performed nights, holidays, weekends.
FACTOR XI INHIBITOR	INH11	INHIBITOR F XI	85335	9.0 mL blood	2 Blue Top Vac	Coagulation, RIH	< 1 Bethesda unit	Clottable	R = 1 week S = 5 3 hrs.	Critical Values : Factor IX Inhibitor > 1.0 B.U. Patient cannot be on Heparin or Coumadin therapy. Not performed nights, holidays, or weekends.
FDP FIBRIN DEGRADATION PRODUCTS	FSP	FDP 2	85362	4.5 mL blood	Blue Top Vac	Coagulation, TMH	<5	Latex Agglutination	R = < 4 hrs. S = 1 hr.	
FEBRILE AGGLUTINATION PANEL	SALAB	SALMONELLA ANTIBODY	86768	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Agglutination	R = 3-5 days	Includes: Salmonella Typhi H & O.
FECAL FAT QUANTITATIVE	SFAT7	FECAL FAT 72HR SO	82715	72 hr stool collection	Pre-weighed plastic container	Reference Lab (Quest)	See Report		R = set up on Wed, but must be received by Mon.	Sent out. Obtain weighed container from Laboratory. Keep specimen refrigerated. Sample must be frozen upon receipt in Lab.
FECAL FAT STAIN	FATST	FECAL FAT STAIN	82705	Random Stool	Sterile leakproof container	Reference Lab (Quest)	See Report	Colorimetric	R = 2 -4 days	Sent out.

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
FECAL HELICOBACTER PYLORI ANTIGEN	SHELI	HELICOBACTER FECAL	87338	Stool	Sterile Leakproof	Reference Lab (Quest)	Not Detected	EIA	R = 3-6 days	Samples in preservatives, transport media or swabs are unacceptable. Laboratory will send sample frozen to Reference Lab.
FECAL LEUKOCYTES/ WBC	FECAL	Stool Fecal Leucocyte Stain	87205	Stool	Leakproof	Hematology	No WBC	Gram Stain	R = 4 hrs S = 1 hr	
FEP - FREE ERYTHROCYTE PROTOPORPHYRIN	PBFEP	LEAD and FEP	84202	1 mL blood <b>Whole Blood Required</b>	Green Top Vac	Toxicology, RIH	0-35 ug/dL	Hematofluorometry	R = M-Sat S = 1 hr.	Test may be performed on same blood collected for lead level.
FERRITIN	FER	FERRITIN	82728	4 mL blood	Red Top with Gel (Gold)	Chemistry, Core	Male: 22-322 ng/mL Female: 10-120 ng/mL	Chemiluminescence	R = M - S	
FETAL LUNG MATURITY TEST NEWPORT HOSPITAL	FLMT	FETAL LUNG MATURITY TEST	83661	5 mL Blood	Red Top Vac	Chemistry, NH	GT/ = 55 Mature 40 - 54 Intermediate LT/ = 39 Immature	Fluorescence Polarization	R = 4 hrs.	Newport Hospital only
FIBRIN DEGRADATION PRODUCTS (FDP)	FSP	FDP 2	85362	4.5 mL blood	Blue Top Vac	Coagulation, TMH	<5	Latex Agglutination	R = < 4 hrs. S = 1 hr.	
FIBRIN SPLIT PRODUCTS	FSP	FDP 2	85362	4.5 mL blood	Blue Top Vac	Coagulation, TMH	<5	Latex agglutination	R = < 4 hrs. S = 1 hr.	
FIBRINOGEN	FIBR	FIBRINOGEN	85384	2.7 mL blood	Blue Top Vac	Coagulation	150-480 mg/dL	Clottable	R = < 4 hrs. S = 1 hr.	Critical Values : First Incidence of Fibrinogen < 100 mg/dL
FK506 (Tacrolimus)	TAC1	TACROLIMUS2	80197	5mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Toxicology, RIH	Therapeutic Range: 5 - 20 ng/mL	Chemiluminescent Microparticle Immunoassay (CMIA)	R= M-Sat. S= 2 hrs	Call Toxi @ 444-5858 to arrange Stat
FLECAINIDE (TAMBOCOR)	FLEC	FLECAINIDE LEVEL	82491	5 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic range: 200-1000 ng/mL	High Performance Liquid Chromatography	R = Weekly S = 8 hrs.	Toxic: >1000 ng/mL
FLEXERIL (Cyclobenzaprine)	CYBNZ	CYCLOBENZAPRINE LEVEL	82491	5 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic range: 3-36 ng/mL	High Performance Liquid Chromatography	R = Tu & F S = 8 hrs.	Toxic: >50 ng/mL
FLOW CYTOMETRY Hemic Cell Surface Markers			88180	3 mL <b>Whole Blood</b> / Bone Marrow / Tissue	Lavender Top Vac Tissue Sterile in Saline	Special Hematology, RIH		MonoClonal Antibodies	R = 48 hrs.	<b>Samples can only be collected Monday - Thursday from Outreach clients.</b> For Inpatients samples must be drawn no later than 9 AM, if collected on a Friday.
FLOW CYTOMETRY Granulocyte Associated Antibody			88180	2 - 7 mL <b>Whole Blood</b>	Lavender Top Vac	Special Hematology, RIH	Negative	Flow Cytometry	R = 24 hrs. M-Th only	Specimen must be received in Special Hematology by Noon, Monday through Friday for Inpatients. Outreach samples may only be collected Monday - Thursday.
FLOW CYTOMETRY Hereditary Spherocytosis Screen			88180	3 mL <b>Whole Blood ON ICE</b>	Lavender Top Vac	Special Hematology, RIH		Flow Cytometry - Eosin-5-maleimide	R = 24 hrs.	Specimen must be received in Special Hematology on ice, or will be rejected.
FLOW CYTOMETRY PNH Screen			88180	3 mL <b>Whole Blood</b>	Lavender Top Vac	Special Hematology, RIH		Flow Cytometry	R = 24 hrs.	Room Temperature. They must be received at RIH Special Hematology Lab Monday - Thursday 7 AM to 4:30 PM or by Noon on Fridays. Friday availability is not open to Outreach.
FLUCYTOSINE (5-Fluorocytosine)	FLUCY	FLUCYTOSINE LEVEL	82491	3 mL blood	Red Top Vac	Reference Lab (Quest)	25-100 µg/mL	HPLC	R = 5-7 days	Toxic: > 125 µg/mL Sent out.
FLUID Cell Block										See Surgical Pathology Section.
FLUID Cell Count									R & S = 1 hr.	Transport to Urinalysis Lab.
FLUID Chemistries										Transport to Chemistry Lab.
FLUID Tumor Cells						Cytology				See Cytology Section.
FLUORESCENT TREPONEMAL ANTIBODY (FTA)	FTA	FTA ABS SERUM	86781	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Non-reactive	Indirect Immunofluorescence (IFA)	R = once a week	Test is performed if RPR is reactive.
FLUNITRAZEPAM (Rohypnol)	FLUNI	FLUNITRAZEPAM	80154	10 mL Blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 10.0 - 52.0 ng/mL	High Performance Liquid Chromatography	R = Weekly	Toxic = >100 ng/mL



TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
FLUOXETINE (Prozac)	FLUOX	FLUOXETINE AND NORFLUOX	82491	10 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic range: The total of Fluoxetine and Norfluoxetine : 300 - 1150 ng/mL	High Performance Liquid Chromatography	R = Tu & F S = 8 hrs.	Toxic: Total >2000 ng/mL Norfluoxetine is performed on all requests.
FLURAZEPAM (Dalmane)	FLRAZ	FLURAZEPAM AND DESALKYLF	80154	10 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic range: Flurazepam: 5-30 ng/mL Desalkyl Flurazepam: 30-150 ng/mL Therapeutic range of total 35 - 180 ng/mL	High Performance Liquid Chromatography	R = Weekly S = 8 hrs.	Toxic: Flurazepam > 500 ng/mL Desalkyl Flurazepam >500 ng/mL Desalkyl flurazepam is performed on all requests.
FOLATE (RBC)	FOLRB	FOLATE RBC	82747	3 mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Chemistry, Core	130 - 1000 ng/mL	Chemiluminescence	R = M-Sat	Once sample has been received by lab, it should be frozen if it will not be performed on the same day the lab receives it.
FOLATE (Serum)	FOLAT	FOLATE SERUM	82746	5 mL blood	Red Top with Gel (Gold)	Chemistry, Core	2.6 - 20.0 ng/mL	Chemiluminescence	R = M-Sat	
FRANCISELLA TULARENSIS ANTIBODY	TULAR	TULAREMIA ANTIBODY	86000	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report			
FREE CORTISOL (Serum)	FCORT	FREE CORTISOL								See Cortisol, Free
FREE DILANTIN See Comments	FDIL	FREE DILANTIN and DILANTIN	80185 80186	4 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 1.0-2.0 ug/mL	Floresence Polarization Immunoassay (FPIA)	R = M-Sat S = 2 hrs.	Free Dilantin Toxic: >2.5 ug/mL A total dilantin is also performed on all requests.
FREE FATTY ACIDS	FFA	FREE FATTY ACIDS	82725	5 mL blood <b>ON ICE</b>	Red Top Vac	Reference Lab (Quest)	See Report		R = 5-7 days	Centrifuge immediately upon receipt and freeze serum. Only stable for 1 hour at room temp or refrigerated temp.
FREE INSULIN	INSUL	INSULIN FREE BIOACTIVE	83527	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	PEG Precipitation, RIA	R = 3-5 days	Sent out.
FREE PSA	PSAF	PSA FREE	84153 84154	5 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report	RIA	R = Next day M-F	Sent out. Both a total and free PSA will be performed with the ordering of this assay. Freeze serum immediately after centrifugation. If sample is from Outreach, it must be transported on ice after centrifugation.
FREE T4 by Equilibrium Dialysis	T4DIA	FREE T4 BY DIALYSIS and TOT T4	84436 84439	5 mL blood	Red Top with Gel (Gold)	Reference Lab (Esoterix)	See Report	Direct Dialysis	R = 3-5 days	
FREE T3	FT3	FREE T3	84481	5 mL blood	Red Top with Gel (Gold)	Chemistry, Core	230-420 pg/dL	Chemiluminescence	R = M-Sat	
FREE T4	FT4	FREE T4	84439	4 mL blood	Red Top with Gel (Gold)	Chemistry, Core	0.8 - 1.8 ng/dL	Chemiluminescence	R = M - Sat	
FREE TEGRETOL See Comments	FTEG	FREE TEG and TOTAL TEG	80156 80156	5 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 1.0-3.2 ug/mL	Floresence Polarization Immunoassay (FPIA)	R = M-Sat S = 2 hrs.	Toxic: > 3.2 ug/mL A total Tegretol is performed and chaged on all requests for Free Tegretol.
FREE TESTOSTERONE	BAV1 or FTST1	Bioavailable and Free Testost	84403 84270 82040	7 mL blood	Red Top with Gel (Gold) and Green Top with Gel (Mint)	Chemistry, Core	See Report	Chemiluminescence	R = M - F	The group includes Bioavailable Testosterone (calculated), Total Testosterone, Sex Hormone Binding Globulin, Free Testosterone (calculated) and an Albumin.
FREE VALPROIC ACID See Comments	FVPA	FREE VALPROIC and TOTAL VAL	80164 80164	5 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 5-20 ug/mL	Floresence Polarization Immunoassay (FPIA)	R = M-Sat S = 2 hrs.	Toxic: >20 ug/mL A total Valproic Acid is performed and charged on all requests for a Free Valproic Acid.
FROZEN SECTION										See Histopathology Section.
FRUCTOSAMINE	FRUCT	FRUCTOSAMINE	82985	3 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Colorimetric	R = MWF	

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FSH* Follicular Stimulating Hormone	FSH	FSH FOLLICULAR STIMULT HORMONE	83001	5 mL blood	Red Top with Gel (Gold)	Chemistry, Core	Male: mIU/mL = (13-70yr) 1.4-18.1 Female: mIU/mL = Follic: 2.5-10.2 Midcycle: 3.4-33.4 Luteal: 1.5-9.1 Postmenopausal:23.0-116.0 Pregnant: 0.0-0.2	Chemiluminescence	R = M-Sat.	Refrigerate sample
FTA Fluorescent Treponemal Antibody	FTA	FTA ABS SERUM	86781	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Non-reactive	Indirect Immunofluorescence (IFA)	R = once a week	Test is performed if RPR is reactive.
Fungal Culture	CXFUN	Order by specimen source	87102	Label as to anatomic site	Sterile leakproof Container	Microbiology	No growth	Culture for yeast and mold. Smear: calcoflour	R = 4 weeks S = N.A.	See listing by source.
G6PD Quantitative	G6PD	G6PD	82960	3 mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Reference Lab (Quest)	See Report		R = 3-4 days	
GABAPENTIN (NEURONTIN)	NEUR	NEURONTIN LEVEL	82491	5 mL blood	Lavender Top Vac	Reference Lab (Quest)	See Report	HPLC	R = 5-7 days	Sent out.
GAD Antibodies (GLUTAMIC ACID DECARBOXYLASE)	GAD	GAD AB	83519	5 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report	RIA	R = Wed.	Test should be used for investigational purposes only. Once centrifuges, serum must be refrigerated.
GALACTOKINASE	GALAC	GALACTOKINASE		5 mL blood <b>Na Heparin Tube</b>	<b>Green Top Vac with Sodium Heparin</b>	Reference Lab (Mayo)	See Report		R= 5-7 days	<b>Special Tube and Handling: Must be collected in a Sodium Heparin Tube</b>
GALACTOMANNAN (Aspergillus antigen)	ASPEI	ASPERGILLUS AG EIA SERUM	87305	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Enzyme Immunoassay	R= 5-7 days	
GALACTOSE-1-PHOSPHATE	GALA	GALACTOSE 1 PHOSPHATE	84738	5 mL blood <b>Na Heparin Tube</b>	<b>Green Top Vac with Sodium Heparin</b>	Reference Lab (Mayo) via Quest	See Report		R = 5-7 days	<b>Please call Sendouts to schedule at 34813 for TMH and 46112 for RIH. Special Tube and Handling: Must be collected in a Sodium Heparin Tube and cells must be washed prior to shipping.</b>
GALACTOSE-1-PHOSPHATE URIDYL PHENO	GALPH	GALACTOSE PHENO	82775	5 mL blood	Lavender Top Vac <b>Whole Blood</b>	Reference Lab (Mayo)	See Report		R= 5-7 days	
GALACTOSE-1-PHOSPHATE URIDYL TRANSFERASE, RBC	GALU	GALACTOSE URIDY	82775	5 mL blood	Lavender Top Vac <b>Whole Blood</b>	Reference Lab (Mayo)	See Report		R= 5-7 days	
GAMMA-HDROXY-BUTYRIC ACID URINE SCREEN (GBH)	GBH	GBH	82541	Random Urine	Clean Plastic (100 mL) Urine Container	Toxicology, RIH	Normal Range : None Detected	Gas Chromatography / Mass Spectrometry	R = Weekly	
GASTRIN	GASTR	GASTRIN	82941	5 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report	Immunoassay	R = 2-3 days	Freeze serum after processing.
Genital Fungal Culture and smear	CXFUS	GENITAL FUNGAL CULT AND SMR	87102 87206	Cervical, vaginal, or Urethral swab.	Copan Double Swab	Microbiology	Negative	Culture for yeast. Smear: calcoflour	R= 1 week S= N.A.	<b>Culture only recommended for refractory Candidiasis</b>
Genital Group A Strep Screen	CXGAG	GENITAL GROUP A STREP SCREEN	87081	Genital swab	Copan Double Swab	Microbiology	Negative	Screen for Group A Strep	R = 48HRS S = N/A	
Genital Group B Strep Screen	CXGRB	GENITAL GROUP B STREP SCRIN	87081	Cervical, vaginal, or Urethral swab.	Copan Double Swab	Microbiology	Negative	R/O Beta hemolytic Strep Group B	R= 48 hrs S= N/A	<b>Submission of BOTH rectal and vaginal swab specimens increases ability to detect Group B Strep colonization in females. It is recommended to test pregnant females 35-37 weeks gestation.</b>
GENITAL MYCOPLASMA CULTURE	MYCO	not orderable	87109 87076 87081	Cervical Swab Vaginal swab Urethral swab.	Culturette	Reference Lab (Quest)	Negative	Standard culture method		Mycoplasma hominis, ureaplasma and urealyticum
GENITAL VESICLE CULTURE HSV	CXVES	GENITAL VESICLE CULT for HSV	87252	Genital Vesicle scraping	Copan swab placed into UTM	Virology, RIH	Negative	Cell Culture for Herpes	R = 1 week	At RIH, UTM supplied by Central 444-6107 At TMH, UTM supplied by Microbiology 793-4235

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
GENTAMYCIN LEVEL	GENPR GENPO GENRA	GENT PRE GENT POST GENT RANDOM	80170	5 mL blood	Green Top Vac with Gel (Mint)	Chemistry	1-2 ug/mL (Gent-Pre) 5-10 ug/mL (Gent-Post)	PETINIA	R = Daily	Critical: Pre >5 ug/mL Post >12 ug/mL Random >12 ug/mL (First incidence only) Draw blood prior to antibiotic dose. Label "pre". Draw a second sample 40-60 min. after IV administration of antibiotic is finished. Label post.
GERMAN MEASLES										See Rubella Immunity Screen IgG or Rubella IgM as the case warrants
GGTP Gamma Glutamyl Transpeptidase	GGTP	GGTP	82977	4 mL blood	Green Top Vac with Gel (Mint)	Chemistry	10-70 IU/L	P-Nitroaniline	R = Daily	Test cannot be performed on hemolyzed serum
GI TRACT TUMOR CELLS						Cytology				See Cytology Section.
GLIADIN ( See Anti-Gliadin IgG and IgA Ab)				5 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core				See Anti-Gliadin IgG and IgA Ab
GLUCAGON	GLC1	GLUCAGON PLASMA	82943	5 mL blood	Lavender Top Vac	Reference Lab (Quest)	See Report	Extraction, RIA	R = 3-5 days	Overnight Fasting Required. Sent out.
GLUCOSE	GLU	GLUCOSE	82947	4 mL blood	Green Top Vac with Gel (Mint)	Chemistry	Fasting or timed: 67-99 mg/dL	Hexokinase	R = 4 hrs. S = 1 hr.	Critical Values: Glucose > 400 mg/dL Glucose < 55 mg/dL <b>If FBS requested patient must fast 8 hours prior to testing. Sample must be spun and separated from cells within 3 hours of collection.</b>
GLUCOSE 2 hr Post Prandial	GL2PP	GLUCOSE 2HR POST PRANDIAL	82947	4 mL blood	Green Top Vac with Gel (Mint)	Chemistry		Glucose Oxidase	R = 4 hrs. S = 1 hr.	
GLUCOSE CHALLENGE OB 60 Minute Challenge	GLCH	GLUCOSE CHALLENGE OB	82951	5 mL Blood	Green Top Vac with Gel (Mint)	Chemistry	<130 mg/dL	Glucose Oxidase	S = 1 hour R = 4 hours	1 Hour Challenge for Gestational Diabetes
GLUCOSE Tolerance 3 Hour OB Caring for Women	GL3O1	3HR OB TOLERANCE	82951 82952*	5 mL Blood per draw	Green Top Vac with Gel (Mint)	Chemistry	See Report	Glucose Oxidase		Includes Fasting, 60 minute, 120 minute and 180 minute collection. Code 82952 used for samples beyond 3.
GLUCOSE Tolerance 2 Hour for Males and Non Pregnant Females	GL2N1	2HR GLU TOL NON PREGNANT	82951	5 mL Blood per draw	Green Top Vac with Gel (Mint)	Chemistry	See Report	Glucose Oxidase		If performed at RIH, must be booked with Lab 444-2771. In the Outpatient setting, call 34242 for ordering instructions. This includes a Fasting and a 120 minute collection.
GLUTAMIC ACID DECARBOXYLASE AB (GAD)	GAD	GAD AB	83519	5 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report	RIA	R = Wed.	Test should be used for investigational purposes only. Once centrifuges, serum must be refrigerated.
GLUTAMINE LEVEL (CSF)	CGLT	CSF GLUTAMINE	82965	CSF	Sterile plastic CSF Tube	Chemistry, NEMC	See Report		R= 2-3 days	
GLUTETHIMIDE (Doriden)	DOR	DORIDEN LEVEL	82980	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report		R = 5-7 days	
GLYCINE	GLYC	GLYCINE LEVEL	82131	3 mL blood	Lav Top Vac	Chemistry, NEMC	Normal values are age dependent.		R = 2-4 days	Freeze Plasma
GLYCOHEMOGLOBIN	GLYCO	not orderable	83036	5 mL blood	Lav Top Vac	Reference Lab (Quest)	See Report	HPLC	R = 2-4 days	Glycohemoglobin should only be ordered when the pateint is known to have a Hemoglobin Variant.
GLYCOSYLATED ALBUMIN										See Fructosamine
GM1 AB	GM1A	GANGLIOSIDE GM1 ANTIBODY	83520x2	5 mL Blood	Red Top Vac	Reference Lab (Quest)	See Report		R = 7 days	Includes IgG & IgM
GRANULOCYTE ASSOCIATE ANTIBODY	not orderable	not orderable	88180	7 mL Blood	Lavender Top Vac	Special Hematology, RIH	Negative		R = 24 hrs. M-Th only	Specimen must be received in Special Hematology by 2 PM, Monday through Thursday only
GROWTH HORMONE (Human Growth Hormone)										See Human Growth Hormone (HGH)

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
H PYLORI UREA BREATH TEST Newport Hospital Only	HPUB	HELICOBACT H PYLORI BREATH	83013				Negative = Normal Positive = H.P. bacteria likely present	IFR	Call Lab	Newport Hospital Only, unless specified. Air bags stable for 7 days
H. PYLORI IGA	HELIA	HELICOBACT IGA		5 ml blood	Red Top with Gel (Gold)					
H. PYLORI IGG	HELI	HELICOBACT IGG	86677	5 ml blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Negative	EIA	R= twice per week	Negative : 0-20 Units Equivocal: 20.1-24.9 Positive: ≥ 25
H. PYLORI IGM	HELI M	HELICOBACT IGM	86677	5 ml blood	Red Top Vac	Reference Lab (Quest)	See Report	Immunoassay	R= 3-4 days	
HAEMOPHILUS DUCREYI				See Comments						Culture not recommended. Call Dr. Bandy for Collection Requirements @ 222-5600. Specimens sent to RI DOH, who then forward to CDC for PCR.
HAEMOPHILUS INFLUENZA TYPE B AB (HIB TITERS)	not orderable	not orderable	86684	5 ml blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report	EIA		
HALOPERIDOL (HALDOL)	HALD1	HALDOL HALOPERIDOL	82491	5 mL blood	Red Top (*wrap in foil to protect from light)	Reference Lab (Quest)	5-15 ng/mL	High Performance Liquid Chromatography	R = 3-5 days	Toxic: > 50 Protect from light. Sent out.
HAM Test Screening										No longer performed. See CD59
HAPTOGLOBIN	HAPT	HAPTOGLOBIN	83010	5 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	13-163 mg/dL	Nephelometry	R = M - F	Hemolyzed specimens are unacceptable.
HCV Antibody	HCV	HEPATITIS C ANTIBODY	86803	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Non-reactive	Chemiluminescence	R = M - F	Measures IgG. IgM measurement is not available.
HCV GENOTYPING	HCVG	HCV GENOTYPING	86890 83894 83912 83892 x2	6 mL blood	Lavender Top vac* or Pearl Top Vac (PPT)	Molecular Microbiology Coro	See Report	Lipa 2.0 assay	R = Weekly	If lavender top is used, sample must be spun within 4 hrs of collection. * <b>Outreach clients may substitute PPT tubes for the lavender tubes to increase stability after spinning.*</b> Requires a minimum Viral Load of 615 IU/mL to obtain a genotype.
HCV QUALITATIVE	HCVQL	HCV QUALITATIVE	87521	5 mL blood	Lavender Top Vac* or Pearl Top Vac (PPT)	Molecular Microbiology Coro	Non-reactive	Transcription mediated amplification TMA	Weekly	If lavender top is used, the sample must be spun within 4 hours of collection. Separate and freeze plasma immediately after receipt in lab. * <b>Outreach clients may substitute PPT tubes for the lavender tubes to increase stability after spinning.</b> Target amplified in this method. Lower limit of sensitivity is approximately 9.61IU/mL or 50cp/mL
HCV Quantitative Viral Load	HCVLD	HCV VIRAL LOAD	87522	6 mL blood	6 mL Lavender Top Vac	Molecular Microbiology Coro	See Report	Real - Time PCR	R = 2 - 4 days	Separate and freeze plasma within 6 hours of collection in lab.
HDL High Density Lipoprotein	HDL	HDL	83718	4 mL blood	Green Top Vac with Gel (Mint)	Chemistry, Core	Low: 0-40 mg/dL Desirable: >40 mg/dL	Polyanion detergent followed by Cholesterol oxidase	R = M-Sat.	
HELICOBACTER PYLORI IGA	HELIA	HELICOBACT IGA		5 ml blood	Red Top with Gel (Gold)					
HELICOBACTER PYLORI IGG	HELI	HELICOBACT IGG	86677	5 ml blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Negative	EIA	R= twice per week	Negative : 0-20 Units Equivocal: 20.1-24.9 Positive: ≥ 25
HELICOBACTER PYLORI IGM	HELI M	HELICOBACT IGM	86677	5 ml blood	Red Top Vac	Reference Lab (Quest)	See Report	Immunoassay	R= 3-4 days	

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
HELICOBACTER PYLORI ANTIGEN FECAL	SHELI	HELICOBACTER FECAL	87338	Stool	Sterile Leakproof	Reference Lab (Quest)	Not Detected	EIA	R = 3-6 days	Samples in preservatives, transport media or swabs are unacceptable. Laboratory will send sample frozen to Reference Lab.
HEMACHROMATOSIS DNA MUTATION	HEMOC	HEMOCHROMATOSIS DNA MUTATION	81256	5 mL blood <b>Whole Blood Required</b>	Lavender Top Vac		See Report		R = 5 - 10 days	<b>Samples can only be collected Monday - Thursday.</b> Sent out. Room Temperature.
HEMATOCRIT	HCT	HEMATOCRIT	85014	3 mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Hematology	See CBC	Automated Particle Counter	R = < 5 hrs. S = 1 hr.	Critical Values: < 21% and then again if falls to < 15%
HEMOGLOBIN	HGB	HEMOGLOBIN	85018	3 mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Hematology	See CBC	Automated Particle Counter	R = < 5 hrs. S = 1 hr.	Critical Values : Newborn to 2 weeks - > 24 g/dL 2 weeks to 2 months - > 20 g/dL 2 months to 10 yrs - > 18 g/dL Adults - > 20 g/dL For all ages - < 7 g/dL and again if falls to < 5 g/dL
HEMOGLOBIN A1C	A1C	A1C	83036	5 mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Chemistry	Adult: 4.3-5.8%	HPLC	R = M-F	
HEMOGLOBIN Electrophoresis	HGBEL	HEMOGLOBIN ELECT	83020 85027	3 mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Special Hematology, RIH	Fetal Hgb: <2% (over age of 2 years). Normal A2: <3.4% Hgb A remaining hemoglobin.	Capillary Electrophoresis	R = 48-72 hrs	HGB ELEC includes CBCND. Performed on Wednesday. Depending on the results obtained, a Fetal Hemoglobin (83030), Hemoglobin A2 (83021), Sickle Cell Screen (85660), Unstable Hemoglobin (83068) or an Acid Citrate may be ordered.
HEMOGLOBIN F (Quantitative)	HBF	HEMOGLOBIN F	83030	3 mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Special Hematology, RIH		Capillary Electrophoresis	R = 24 hrs	
HEMOGLOBIN Free Plasma (Quantitative)	HGBFR	HEMOGLOBIN, FREE PLASMA	83051	5 mL blood	Special Tube Mint Top Vac with Sodium Heparin	Reference Lab (Quest)				
HEMOGLOBIN S (Quantitative)	HBS	HEMOGLOBIN S QUAN	82491	3 mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Special Hematology, RIH		Capillary Electrophoresis	R = 24 hrs.	
HEMOGLOBIN Urine Screen See Comments for Reflexive Rule	UHGB	U HEMOGLOBIN	83069	Random specimen	Urine Specimen Container	Urinalysis	Negative	Centrifuge BMD CUA		If U Hgb is positive, a Microscopic Urinalysis (CPT 81001) is performed.
Hemogram	CBCND	CBC NO DIFF w PLT								See CBC no Differential
HEMOSIDERIN	UHEMO	U HEMOSIDERIN	83070	Random Specimen	Urine Specimen container	Urinalysis, RIH	Negative	Rous Test Prussian Blue		
HEPARIN INDUCED THROMBOCYTOPENIC ANTIBODY (PF4)	HITA	HEPARIN ANTIBODY	86022	5 mL Blood	White Top Vac (no gel)	Special Coagulation, RIH	Negative	ELISA	R = M-F S=See Comments	Samples must be received at RIH by 11 AM to be performed that day. Results will be available by 4 PM. Can be performed on holidays and weekends by special arrangement. Call Coagulation Lab at 444-5560 to book. Patient must be off heparin for at least 4 hours prior to blood collection. <b>Reflexive Rule:</b> If positive, an ELISA IgG-HIT will be performed and billed.
HEPARIN INDUCED THROMBOCYTOPENIC ANTIBODY IgG Specific	GHITA	not orderable	86022	5 mL Blood	White Top Vac (no gel)	Special Coagulation, RIH	Negative	ELISA	R = M-F	Samples must be received at RIH by 11 AM to be performed that day. Results will be available by 4 PM. Patient must be off heparin for at least 4 hours prior to blood collection.

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
HEPATITIS A IgM See Comments	HAVM	HEPATITIS A IGM	86709	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Non-reactive	Chemiluminescence	R = M - F S = 4 hrs.	If results are equivocal; suggest redraw.
HEPATITIS A VIRUS (Total Ab : IgM & IgG)	HAVT	HEPATITIS A ANTIBODY	86708	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Non-reactive	Chemiluminescence	R = M - F S = 4 hrs.	
HEPATITIS B CORE Total Antibody	HBCT	HEPATITIS B CORE ANTIBODY	86704	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Non-reactive	Chemiluminescence	R = M - F	
HEPATITIS B CORE Total Antibody Organ Donor Only See Comments	DHEBC	ORGAN DONOR HEPATITIS B CORE AB	86704	3 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Enzyme Immunoassay	R = 2-3 days	This test code is for Organ Donor specimens only (Renal, Bone Marrow, Stem Cell, Sperm etc.)
HEPATITIS B CORE IgM Antibody See Comments	HBCM	HEPATITIS B CORE IGM	86705	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Non-reactive	Chemiluminescence	R = M-F	If results are equivocal; suggest redraw.
HEPATITIS B VIRAL LOAD	HBVLD	HEPATITIS B VIRAL LOAD	87517	6 mL whole blood Pedi: 3 mL whole blood	Lavender Top Vac	Molecular Microbiology, Coro	See Report	Real Time PCR	R = Weekly on Tuesday	Separate and freeze plasma within 6 hours of collection.
HEPATITIS Be AB ANTI-HBe	HBEAB	HEPATITIS BE AB	86707	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Negative	Enzyme Immunoassay	R = once per week	
HEPATITIS Be ANTIGEN	HBEAG	HEPATITIS BE AG	87350	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Negative	Enzyme Immunoassay	R = once per week	
HEPATITIS Bs AG Organ Donor Only See Comments	DHEPB	ORGAN DONOR HEPATITIS BS AG AND CON	87340	3 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Enzyme Immunoassay	R = 2-3 days	This test code is for Organ Donor specimens only (Renal, Bone Marrow, Stem Cell, Sperm etc.)
HEPATITIS Bs Antibody	HBSAB	HEPATITIS B SURFACE ANTIBODY	86706	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	<10.0 mIU/mL Non immune 10.0 mIU/mL or greater Suggests immunity	Chemiluminescence	R = M - F	Results >10 mIU/mL suggest protective immunity to HBV infection.
HEPATITIS Bs Antigen	HBSAG	HEPATITIS B SURFACE ANTIGEN	87340	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Non-reactive	Chemiluminescence	R = M - F	Positive results with an Index between 1.0 and 50.0 are confirmed by a neutralization assay.
Hepatitis C Ab (HCV) Organ Donor Only See Comments	DHEPC	ORGAN DONOR HEPATITIS C AB AND CON	86803	3 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Enzyme Immunoassay	R = 2-3 days	This test code is for Organ Donor specimens only (Renal, Bone Marrow, Stem Cell, Sperm etc.)
HEPATITIS C Antibody	HCV	HEPATITIS C ANTIBODY	86803	3 mL blood	Red Top Vac	Clinical Immunology, Core	Non-reactive	Chemiluminescence	R = M - F	Measures IgG. IgM measurement is not available.
HEPATITIS C QUALITATIVE	HCVQL	HCV QUALITATIVE	87521	5 mL blood	Lavender Top Vac* or Pearl Top Vac (PPT)	Molecular Microbiology, Coro	Non-reactive	Transcription mediated amplification TMA	R = Weekly	If lavender top is used, the sample must be spun within 4 hours of collection. Separate and freeze plasma immediately after receipt in lab. * <b>Outreach clients may substitute PPT tubes for the lavender tubes to increase stability after spinning.</b> Target amplified in this method. Lower limit of sensitivity is approximately 9.61IU/mL or 50cp/mL
Hepatitis C Quantitative Viral Load	HCVLD	HCV VIRAL LOAD	87522	6 mL blood	6 mL Lavender Top Vac	Molecular Microbiology, Coro	See Report	Real - Time PCR	R = 2 - 4 days	Separate and freeze plasma within 6 hours of collection in lab.
HEPATITIS C VIRAL GENOTYPING	HCVG	HCV GENOTYPING	86890 83894 83912 83892 x2	6 mL blood	Lavender Top vac* or Pearl Top Vac (PPT)	Molecular Microbiology, Coro	See Report	Lipa 2.0 assay	Weekly	If lavender top is used, sample must be spun within 4 hrs of collection. * <b>Outreach clients may substitute PPT tubes for the lavender tubes to increase stability after spinning.</b> * Requires a minimum Viral Load of 615 IU/mL to obtain a genotype.

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
HEPATITIS DELTA ANTIBODY ANTI-DELTA	HEPD	HEPATITIS DELTA AB	86692	5 mL blood	Red Top Vac	Reference Lab (Quest)	Negative	EIA	R = 3-5 days	Sent out.
HEPATITIS PANEL, ACUTE	ACHEP	ACUTE HEP PANEL	86709 87340 86803 86705	5 mL Blood	Red Top Vac	Clinical Immunology, Core	See Individual Analytes	See Individual Analytes	R = M - F	Group contains HAAb IgM, HBcAb IgM, HBsAg, Hep C Ab.
Herpes PCR, CSF	CHSVP	CSF HSV 1 and 2 PCR	87529	0.5 mL CSF	CSF Tube	Virology, RIH	Negative	PCR	R = 1-2 days	Test performed M - F. Performed same day if received before 11 AM.
HERPES SIMPLEX 1 IgG Antibody Titers	HSV1G	HSV 1 IGG HERPES	86695	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	HSV 1 IgG Index Value <0.9	EIA	R = once a week	Negative : <0.90 Units Equivocal: 0.91-1.09 Positive: ≥ 1.10
HERPES SIMPLEX 2 IgG Antibody Titers	HSV2G	HSV 2 IGG HERPES	86696	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	HSV 1 IgG Index Value <0.9	EIA	R = once a week	Negative : <0.90 Units Equivocal: 0.91-1.09 Positive: ≥ 1.10
HERPES SIMPLEX 1 2 IGM Antibody Titers	HSV12	HSV 1 2 IGM SCRIN Herpes Titer	86694	3 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report		R = 7 days	
HERPES SIMPLEX 6 ANTIBODY TITERS (IgG and IgM)	HSV6	HSV 6 IGG AND IGM	86790x2	3 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report	Immunofluorescence		
Herpes Type 1 and 2 DFA	DFHSV	VESICLE DFA HERPES I AND II	87274	Specimen from vesicle inoculated on three well slides	Obtain 3 well slides from Virology, RIH Lab, 4-5655	Virology, RIH	Negative	DFA	R = 4 hrs. S = 2 hrs.	DFHSV and DFVZV must be ordered separately. Results available same day, if received at RIH by 3:00 P.M. M-F
HFE GENE MUTATION HIGH DENSITY LIPOPROTEIN	HDL	HDL								See Hemachromatosis Gene Mutation
HIGH SENSITIVITY CRP	HSCRIP	CARDIO CRP	86141	5 mL blood	Green Top with Gel (Mint)	Chemistry	Low Risk <1 mg/L Average Risk 1-3 mg/L High Risk >3 mg/L	Immunoassay	R = Daily	If hs-CRP is >10 mg/L, patient should be examined for sources of infection or inflammation and hs-CRP tested at a later date.
HISTAMINE (includes 24 Hr Creatinine)			83088		Clean plastic (2 L) urine container	Reference Lab (Quest)	See Report	RIA	R = 5-7 days	Refrigerate sample during collection. Preservative should be added prior to collecting sample. Sent out.
HISTAMINE (Blood)	HISTA	HISTAMINE LEVEL	83088	5 mL blood x2 ON ICE	2 Lavender Top Vac Spin immediately and freeze plasma.	Reference Lab (Quest)	See Report	RIA	R = 5-7 days	Sent out. as frozen plasma.. Ship
HISTAMINE (Random)			83088	5 mL urine	Clean plastic (100 mL) urine container	Reference Lab (Quest)	See Report	RIA	R = 5-7 days	Sent out. Ship frozen.
HISTOPLASMA AG	HISAG	HISTOPLASMA ANTIGEN SERUM	87385	3 mL blood or 15 mL urine	Red Top Vac or Random Urine	Reference Lab (Quest)	See Report	EIA	R = 7 - 10 days	
HISTOPLASMA CAPSULATUM ANTIBODY	HISA	HISTOPLASMA AB	86331	3 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report		R = 5-7 days	
HISTOPLASMA, URINE	UHIST	URINE HISTOPLASMA ANTIGEN	87385	10 mL urine	Clean plastic (100 mL) urine container	Reference Lab (Quest)	See Report	Immunoassay		
HITA Heparin Induced Thrombocytopenia Ab	HITA	HEPARIN ANTIBODY	86022	5 mL Blood	White Top Vac (no gel)	Special Coagulation, RIH	Negative	ELISA	R = M-F	Samples must be received at RIH by 11 AM to be performed that day. Results will be available by 4 PM. Patient must be off heparin for at least 4 hours prior to blood collection. <b>Reflexive Rule:</b> If positive, an ELISA IgG-HIT will be performed and billed.
HIV										See Human Immunodeficiency Virus
HIV GENOTYPING	HIVGE	HIV GENOTYPE	87901	4 mL blood	Lavender Top vac* or Pearl Top Vac (PPT)	Reference Lab (Quest)	See Report	Reverse Transcriptase PCR, DNA Sequencing	R = 2 weeks	<b>Outreach clients may substitute PPT tubes for lavender tubes to increase stability after spinning.</b>

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
HIV PHENOSENSE	HIVPH	HIV PHENOSENSE	83891x3 83892x2 83894x2 83898x2 83902 83912 87252x30 87253x15	5 mL Blood	Lavender Top Vac	Reference Lab (Quest)	See Report			Sent to Monogram via Quest
HIV VIRAL LOAD PCR (PVL)	HIVL1	HIV VIRAL LOAD PCR	87536	6 mL Blood	6mL Lavender Top Vac	Molecular Microbiology, Coro	See Report	Real - Time PCR	R = 2 - 4 days	Separate and freeze plasma within 6 hours of collection in lab.
HIV-2 ANTIBODY WESTERN BLOT	HIV2W	HIV 2 WB	86689	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report		R = 10-15 days	Sent out.
HLA ANTIBODY SCREEN	HLAA	HLA ANTIBODY SCRNV	86807	See Comments	Call Blood Bank	Blood Bank sends to RIBC	Negative Screen	See Report	R = 1-3 days	Call Blood Bank for Requisition and tubes. Draw Monday, Tuesday, Wednesday or Thursday only in early AM. Once collected, send samples to the Blood Bank. Phlebotomist must write their first initial and complete last name on label, as with other Blood Bank samples. Keep at Room Temperature.
HLA B27	HLAB2	HLA B27	86812	6 mL blood Whole Blood Required	1 Yellow Top Vac (ACD) (10 ml size)	Reference Lab (Quest)	See Report	FCM, PCR	R = 3-5 days	Submit as Whole Blood. Keep at room temperature. Collect samples on M, T, or W only.
HLA B1502 Genotype, Carbamazepine	HLA02	HLA B1502 Carbamazepine	81381	3 mL Blood Whole Blood	Lavender Top Vac	Reference Lab (Mayo) via Quest	See Report	Allele-Specific PCR	R = 5-7 days	Also called "Carbamazepine Hypersensitivity"
HLA TRANSPLANT WORKUP-DONOR BONE MARROW or STEM CELL	HLATD	HLA TRANSPLANT DONOR	86813 86817 86807	See Comments	Call Blood Bank	Blood Bank sends to RIBC	See Report	See Report	R = 24-72 hrs.	Call Blood Bank for Requisition and tubes. Draw Monday, Tuesday, Wednesday or Thursday only in early AM. Once collected, send samples to the Blood Bank. Phlebotomist must write their first initial and complete last name on label, as with other Blood Bank samples. Keep at Room Temperature.
HLA TYPING FOR PLATELETS	HLAPL	HLA TYPE FOR PLATELETS	86813	See Comments	Call Blood Bank	Blood Bank sends to RIBC	See Report	See Report	R = 1-3 days	Call Blood Bank for Requisition and tubes. Draw Monday, Tuesday, Wednesday or Thursday only in early AM. Once collected, send samples to the Blood Bank. Phlebotomist must write their first initial and complete last name on label, as with other Blood Bank samples. Keep at Room Temperature.
HLA-B-3			86812	10 mL blood	Yellow Top Vac (ACD) See Comments	Reference Lab (Quest)	See Report		R = 5-7 days	Draw Monday or Tuesday only in early AM. Ship as whole blood to Reference Lab at room temperature. Must be received within 48 hours of being collected
HLA-B*5701	HLB57	HLA B 5701 TYPING	81381	10 mL blood Whole Blood	Yellow Top Vac (ACD) See Comments	Reference Lab (Quest)	See Report	PCR SSO	R=10-12 days	Ship as whole blood to Reference Lab
HLA-DR-2				20 mL blood Whole Blood Required	Yellow Top Vac (ACD) See Comments	Reference Lab (Quest)	See Report	Microcytotoxicity	R = 3-5 days	Draw Monday, Tuesday or Wednesday only in early AM. Ship as whole blood to Reference Lab at room temperature. Must be received within 48 hours of being collected



TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
HLA-DW-3			86816	10 mL blood <b>Whole Blood Required</b>	Yellow Top Vac (ACD) <b>See Comments</b>	Reference Lab (Quest)	See Report		R = 5-7 days	Draw Monday, Tuesday or Wednesday only in early AM. Ship as whole blood to Reference Lab at room temperature. Must be received within 48 hours of being collected
HOMOCYSTEINE (Cardiac Risk)	HCY	HOMOCYSTEINE	83520	5 mL blood	Pearl Top	Clinical Immunology, Core	5.0 - 13.9 µMOL/L	Immunoassay	R = M - F	Separate plasma from cels within 4 hours.
HOMOVANILLIC ACID (24 hours)	UHVA2	U HVA 24HR	83150	24 hr urine	Clean plastic (2 L) urine container with 25 mL 6N HCL (Ped): 3-5 mL 6N HCL	Reference Lab (Quest)	See Report	Electrochemical Detection, HPLC	R = Thurs	Refrigerate sample during collection. Preservative should be added prior to sample collection. Sent out.
HOMOVANILLIC ACID (Random)	UHVAR	U HVA RANDOM	83150	10 mL random urine	Clean plastic (100 mL) urine container <b>See Comments</b>	Reference Lab (Quest)	See Report	HPLC	R = 3-5 days	Refrigerate sample after collection. Lab will add 6 N HCl to obtain a pH of 1-3 after collection is complete. Sent out.
HPV DNA Probe (Human Papilloma Virus) - High and Low Risk	HPVSO	HPV HIGH RISK	87621x2	Thin Prep	Thin Prep	Reference Lab (Quest)	Not Detected			
HPV DNA Probe (Human Papilloma Virus) - High Risk	HPV	HPV DNA PROBE	87621	Thin Prep	Thin Prep	Molecular Microbiology Coro	Negative	Invader Technology	Set up twice weekly	Thin Prep. Automatically reflexes with ASCUS or submission of direct cervical sample where patient's age is > or equal to 30.
HPV Genotype 16,18 hs-CRP	HPVG	HPV Genotype	87621	Thin Prep	Thin Prep Vial	Molecular Microbiology Coro	Negative	Invader Technology	Test performed weekly.	Performed on requests with a positive High Risk HPV result. See High Sensitivity CRP
HTLV I / II AB WESTERN BLOT	not orderable	not orderable	86689	7 mL Blood	Red Top Vac	Reference Lab (Quest)	See Report	Western Blot	R = 5-7 days	Sent out. Lab should store and send aliquot as refrigerated serum.
HTLV I / II DNA DETECTION by PCR	HTLV1	HTLV I and II DNA	87798	10 mL Blood	Lavender Top Vac <b>See Commnets</b>	Reference Lab (Quest)	See Report	PCR	R = 7 days	Sent out. Submit sample as Whole Blood. Keep at Room Temperature and do not transfer to another tube. <b>May only be collected on Monday &amp; Tuesdays.</b> Overnight to AML.
HTLV I AB	HTLVA	HTLV 1 ANTIBODY	86687	7 mL Blood	Red Top Vac	Reference Lab (Quest)	See Report	EIA	R = 5-7 days	Sent out. Lab should store and send aliquot as refrigerated serum.
HTLV III AB SCREEN Organ Donor Only	DHTLV	use downtime slip	86790	7 mL Blood	Red Top Vac	Reference Lab (Quest)	See Report	EIA	R = 5-7 days	This test code is for Organ Donor specimens only (Renal, Bone Marrow, Stem Cell, Sperm etc.)
HUMAN CHORIONIC GONADOTROPIN (THCG) QUANTITATIVE	QBHCG	BHCG SERUM QUANTITATIVE	84702	5 mL blood	Red Top with Gel (Gold)	Chemistry, Core	Males and non-pregnant Females: 0-5 mIU/mL <b>Pregnancy</b> :Approximate Gestational Age 0-1 wks =0-50 1-2 wks =50-500 2-3 wks = 100-5,000 3-4 wks=500-10,000 4-5 wks=1,000-50,000 5-6 wks=10,000-100,000 6-8 wks = 15,000-200,000	Microparticle Enzyme Immunoassay (MEIA)	R = 48 hrs. S = 1 hr.	Test routinely performed M-Sat on AM shift. If needed Stat, call Lab at 793-4225 and it will be performed.
HUMAN GROWTH HORMONE (HGH)	HGH	HUMAN GROWTH HORMONE	83003	5 mL blood	Red Top with Gel (Gold)	Chemistry, Core	Male: 0.00-1.41 ng/mL Female:0.01-5.22 ng/mL	Chemiluminesence	R = M,Th	Freeze immediately after processing.

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
HUMAN IMMUNO-DEFICIENCY VIRUS (HIV)	HIV	HIV	86703	6 mL blood (Min) 3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Negative	Chemiluminescence	R = 72 hrs. S = 4.5 hrs.	Test screens for HIV Type 1 & 2Ab. If results are positive, Clinical Immunology sends an aliquot to RI Dept. of Health for an HIV 1 Ag/Ab Combo, HIV 1 RNA and if indicated, HIV Multispot confirmatory testing.
HVA (Homovanillic Acid; 24 hour)	UHVA2									See Homovanillic Acid (24 hrs)
HYDROXYPROLINE FREE and TOTAL	UHPRO	U HYDROXYPROLINE 24hr FR and T	83500 83505	24 hr urine	Clean plastic (2 L) urine container with 25 mL 6N HCL (Ped): 3-5 mL 6N HCL	Reference Lab (Quest)	See Report	Colorimetric	R = 3-5 days	Sent out. Refrigerate sample during collection. Lab will add preservative after collection is complete.
HYPERCOAGUABLE WORK-UP See Comments for ordering instructions.	not orderable	not orderable	82491	27.5 mL blood	3 Blue Top Vac 1 Red Top Vac 1 Lavender Top Vac 1 Pearl Top Vac	Coagulation, RIH	See specific procedures		R = 1 Week	Samples should be collected before starting anticoagulant therapy. You must order PT/PTT, LA Screen / CNF, Protein C, Protein S (Total and Free), APC Resistance, AT III, Factors II, VIII, XI, Homocysteine, and Anticardiolipin Abs (IgG,IgM,IgA) separately, if needed.
HYDROXYPROLINE	HPROL	HYDROXYPROLINE	82131	3 mL blood	Lav Top Vac	Chemistry, NEMC	Normal values are age dependent.		R = 2-4 days	Freeze Plasma
HYDROXYPROLINE, FREE 24 Hr. Urine	UHPRF	U HYDRPR F	83500	100 mL aliquot of 24 hour Urine	Clean plastic (2 L or 100 mL) urine container with 25 mL 6N HCl	Reference Lab (Quest)	See Report	Colorimetric	R = Wed	Refrigerate sample during collection. Preservative should be added prior to sample collection.
HYDROXYPROLINE, TOTAL 24 Hr. Urine	UHPRT	U HYDRPR T	83505	100 mL aliquot of 24 hour Urine	Clean plastic (2 L or 100 mL) urine container with 25 mL 6N HCl	Reference Lab (Quest)	See Report	HPLC	R = Tues	
IBUPROFEN	IBUP	IBUPROFEN	82491	5 mL blood (Min)	3 Red Top Vac	Toxicology, RIH	Therapeutic Range: 10-50 ug/mL	High Performance Liquid Chromatography	R = Weekly S = 8 hrs.	Toxic: >500 ug/mL
IFE										Order SPEP. If SPEP is positive, both IFE and Total Immunoglobulins (IgG, IgM, and IgA) will be performed and billed. <b>Procedure orderable by lab staff only.</b>
IGF-1 (Somatomedin-C)	SOMC2	IGF-1	84305	5 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	Age Related See Report	Electrochemiluminescence	R = 3-4 days	Sent out.
IGFBP-2 (IGF BINDING PROTEIN-2)	IGF2	IGF BINDING PROTEIN 2	86329	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	RIA	R = 3-5 days	Sent out. Serum should be sent out frozen.
IGFBP-3 (IGF BINDING PROTEIN-3)	IGF3	IGF BIND 3	86329	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	RIA	R = 3-5 day	Sent out. Serum should be sent out frozen.
IgG SUBCLASSES	IGGSU	IGG SUBCLASS	82784 82787x3	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report.	EIA	R = 3-5 days	Includes: IgG 1-4. Sent out.
IgH PCR Immunoglobulin Heavy Chain by PCR	IGHPC	IGH PCR	81261 G0452	3 mL whole blood or tissue biopsy	Lavender Top Vac	Clinical Molecular Biology	Negative	PCR	R = 2-4 days	Test performed M - F See CSF, Body Fluid or Bone Marrow IgH PCR, if applicable.
IMIPRAMINE See Comments	IMIP	IMIPRAMINE+ DESIMIPRAMINE	80160 80174	10 mL blood 5 mL blood (Min.)	Red Top Vac	Toxicology, RIH	Therapeutic Range Total: Imipramine plus Desipramine: 150-250 ng/mL	High Performance Liquid Chromatography	R = Tu & F S = 8 hrs.	Toxic: >500 ng/mL Desipramine is performed and charged on all Imipramines.

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
IMMUKNOW	IMMUK	IMMUKNOW	86353	3 mL Blood <b>Whole Blood</b>	Green Top Vac <b>No Gel</b>	Reference Lab (Viracor)	See Report			Specimen must be drawn after 5AM, and be received at Viracor within 30 hours of collection. Draw Monday to Friday only and ship overnight.
IMMUNE COMPLEX ANTIBODY (DETECTION BY Clq BINDING)	C1QB	C1Q BINDING	86332	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	C1q Binding	R = 4-7 days	Sent out. Ship Frozen
IMMUNE COMPLEX C1Q COMPLEMENT	C1QC	C1Q COMPLEMENT COMPONENT	86332	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Radial Immunodiffusion	R = 5-7 days	Sent out.
IMMUNE COMPLEX RAJI CELL	ICRAJ	IMMUNE COMPLEX BY RAJI CELL		5 mL blood	Red Top Vac	Reference Lab (Quest)	See Individual Assay	EIA	R = 5-7 days	Sent out. Ship Frozen
IMMUNOCAP SINGLE ALLERGEN Quest Performed	RASAM	NOT ORDERABLE	86003	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Immucap	R = 4-6 days	Sent out.
IMMUNOELECTRO-PHORESIS URINE	UIFE	NON ORDERABLE	86334	Random	Urine Specimen Container	Clinical Immunology, Core		Immunologic Identification of Proteins (IFE)		Order UPEP. If a monoclonal protein is present, UPEP is positive, U IFE will be performed and billed. <b>Procedure orderable by lab staff only.</b>
IMMUNOFIXATION ELECTROPHORESIS	IFE	NON ORDERABLE	86334	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core		Immunologic Identification of Proteins (IFE)	R = 5-7 days	Order SPEP. If a monoclonal is present, both IFE and Total Immunoglobulins (IgG, IgM, and IgA) will be performed and billed. <b>Procedure orderable by lab staff. If indicated a Free Kappa/Lambda and Ratio will be reflexed and charged.</b>
IMMUNO-FLUORESCENCE				Tissue (fresh only)		Immunohistochemistry, RIH		Manual staining of frozen sections for immunoglobulins and complement.		See Immunohistochemistry Section.
IMMUNOGLOBULIN A	IGA	IGA	82784	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	12 yrs.- Adult : 70-312 mg/dL. Pediatric Ranges vary with age, see report for specific pedi range, if needed.	Nephelometry	R = M - F	
IMMUNOGLOBULIN D (IgD)	IGD	IGD	82784	3 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Radial Immunodiffusion	R = 5-7 days	Sent out.
IMMUNOGLOBULIN E (IgE)	IGE	IGE	82785	5 mL blood (Min.) 3 mL blood	Red Top with Gel (Gold)	Chemistry, Core	16 yrs - Adult: 3.0 - 209 IU/mL Pedi Ranges vary with age. Appropriate ranges will appear on report.	Chemiluminesence	R = M - F	
IMMUNOGLOBULIN G (IgG)	IGG	IGG	82784	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	12 yrs.- Adult :639-1349 mg/dL. Pediatric Ranges vary with age, see report for specific pedi range, if needed.	Nephelometry	R = M - F	
IMMUNOGLOBULIN M (IgM)	IGM	IGM	82784	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	12 yrs.- Adult : 56 - 352 mg/dL. Pediatric Ranges vary with age, see report for specific pedi range, if needed.	Nephelometry	R = M - F	
IMMUNO-PEROXIDASE										See Immunohistochemistry (Surgical Path) Section.
INDERAL (Propranolol)			82491	10 mL blood	Red Top Vac	Reference Lab (Quest)	30-100 ng/mL	HPLC	3-5 days	Sent out.
INDIRECT COOMBS										See Antibody Screen
INFLUENZA AB	INFTI	INFLU TI	86710 86710	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Complement Fixation	R = 3-5 days	Sent out.

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
INSULIN Antibodies	INSAB	INSULIN ANTIBODY	86337	5 mL blood	Red Top Vac	Reference Lab (Quest)	Negative	Radiobinding Assay	R = 3-7 days	Sent out.
INSULIN Challenge										Call x 4-8152 to schedule and for assistance.
INSULIN FREE	INSUL	INSULIN FREE BIOACTIVE	83527	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report			
INSULIN LIKE GROWTH FACTOR BINDING PROTEIN-2 (IGFBP-2)	IGF2	IGF BINDING PROTEIN 2	86329	5 mL blood (Min.) 3 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	RIA	R = 3-5 days	Sent out. Serum should be sent out frozen.
INSULIN LIKE GROWTH FACTOR BINDING PROTEIN - 3 (IGFBP-3)	IGF3	IGF BIND 3	86329	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	RIA	R = 3-5 days	Sent out. Serum should be sent out frozen.
INSULIN Serum	INSU	INSULIN SERUM	83525	5 mL blood	Red Top Vac	Chemistry	3.0 - 25.0 mU/L	Chemiluminescence	R = Daily	
INSULIN Tolerance, IV										Call x4- 8152 to schedule and for assistance.
INTERLEUKIN 6	INTR6	INTERLEUKIN 6	83520	4 mL Blood	Lavender Top Vac	Reference Lab (Quest)	See Report	EIA or ELISA		
INTRINSIC FACTOR BLOCKING ANTIBODY	INTRI	INTRINSIC FACTOR AB	86340	5 mL blood	Red Top Vac	Reference Lab (Quest)	Negative	Radiobinding Assay	R = 3-5 days	Sent out.
IODINE Urine	UIOR	U IODINE	82491	Urine container		Reference Lab (Quest)	See Report	Mass Spectrometry	R = 7-14 days	Sent out.
IONIZED CALCIUM										See Calcium, Ionized
IONTOPHORESIS			82435	Sweat	Collected by Lab	Chemistry, RIH	Reported as mEq/L of Cl Normal : 0 - 40 Gray area : 41 - 70 Abnormal : > 70	Pilocarpine Induced Sweat. Shales & Shales Titration		Schedule by calling Chemistry, RIH @ 444-5886
IPEP										Order SPEP. If monoclonal protein present, both IPEP and IFE will be performed.
IRON Urine	UFE	U IRON 24 HR	83540	24 hr urine	Clean plastic (2 L) urine container with 25 mL 6N HCL (Ped): 3-5 mL 6N HCL	Toxicology, RIH	51-350 ug/24 hr.	Flame/Atomic Absorption Spectroscopy	R = Th	Refrigerate sample during collection. Preservative should be added prior to collecting sample.
IRON Serum	IRON	IRON LEVEL	83540	4 mL blood (Min.) 3 mL blood	Green Top Vac with Gel (Mint)	Chemistry	Iron: Female: 37-170 ug/dL Male: 49-181 ug/dL.	Timed Endpoint	R = Daily	Iron Critical : > 300 ug/dL
IRON BINDING CAPACITY, TOTAL TIBC	TIBC	TIBC	83550	4 mL blood (Min.) 3 mL blood	Green Top Vac with Gel (Mint)	Chemistry	TIBC: 250-450 ug/dL	Turbidimetric	R = Daily	
IRON Tissue	TFE	T IRON	80103 82491	Biopsy	Plastic tube	Toxicology, RIH	Male: 200 - 2400 ug/g dry weight (liver) Female: 400 - 1600 ug/g dry weight (liver) Hepatic Index : <1.0	Atomic Absorption Spectroscopy	R = Fri. (Biweekly)	Place in container without any solutions. Hepatic Iron Index included with result.
ISLET CELL ANTIBODY	ISLE1	ANT ISLET CELL w REFLEX TITER	86341	5 mL blood	Red Top Vac	Reference Lab (Quest)	Negative	IFA	R= 8-10 days	Sent out.
ISOENZYME FRACTIONATION Alkaline Phosphatase See Comments for Reflexive Rules	ALKIS	ALKALINE ISOENZYMES	84075* 84080	4 mL blood (Min) 0.5 mL	Gold Top Vac	Reference Lab (Quest)	See Report	Electrophoretic mobility		Initially, Total Alk Phos (CPT 84075) is performed. If total is normal, the Isoenzyme will be cancelled and credited
ISOENZYME FRACTIONATION AMYLASE (includes Total)	AMYIS	AMYLASE ISOENZYME	82150 82664	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Colorimetric	R = 3-5 days	Sent out.
ISOENZYME FRACTIONATION LDH (Lactic Dehydrogenase)	LDISO		83615 83625	4 mL blood (Min.) 0.5 mL blood	Gold or Red Top Vac	Reference Lab (Quest)	See Report	Electrophoretic mobility	R = 2-4days	Room Temperature.
ISONIAZID	ISON	ISONIAZID LEVEL	80299	5 mL blood (Min) 3 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	HPLC	R = 2-3 Weeks	Freeze serum as soon as possible. Wrap sample in foil.

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
ISOPROPANOL	ISOP			5 mL blood	Red Top Vac	Toxicology, RIH	ND (none detected)	Gas Chromatography	R = daily S = 2 hr.	Component of Volatile Screen (VOLATILE)
JO1 Extractable Nuclear Antigen (ENA) JO 1	JO1	EXT NCLR ANTG (ENA) JO 1	86235	3 mL blood (Min.) 1.0 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Negative : < 20 Units Weak Pos: 20-39 Mod Pos: 40-80 Strong Pos: ≥80	Enzyme Immunoassay	R = Weekly	
KAPPA LAMBDA LIGHT CHAINS with RATIO	KAPL1	FREE KAPPA LAMBDA and RATIO		5 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Free Kappa 3.3-19.4 mg/L Free Lambda 5.7-26.3 mg/L Kappa Lambda Ratio 0.26-1.65	Nephelometry	R = M-F	
KEPPRA (Levetiracetam)	KEPP	KEPPRA LEVEL	80299	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	MS / HPLC		
KETOCONAZOLE (NIZORAL)	KETOC	KETOCONAZOLE LEVEL	87106	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	BioAssay	R = 5-7 days	Sent out. Frozen Ship
LA Antibody Extractable Nuclear Antigen (ENA) SSB	SSB	EXT NCLR ANTG (ENA) SSB	86235	5 mL blood (Min) 3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Negative : < 20 Units Weak Pos: 20-39 Mod Pos: 40-80 Strong Pos: ≥80	Enzyme Immunoassay	R = Weekly	
LACTIC ACID	LACTI (RIH) WBLAC (TMH)	LACTIC ACID VENOUS (RIH & TMH) Lactic Acid Blood Gas Lab (TMH only)	83605	5 mL blood ON ICE (Min.) 3 mL blood	Heparinized syringe. Please remove needle and place cap on syringe @ TMH Gray Top Vac (Sodium Fluoride & Potassium Oxalate) Mint Green Top Vac also acceptable.	Blood Gas Lab @ TMH Chemistry	Venous Range : 0.2 - 2.2 mEq/L	Lactate oxidase / Peroxidase	R & S = 1 hr.	Ven Critical Value : > 3.9 mEq/L Transport STAT, on Ice. Must arrive within 6 hours of draw if collected in gray top tube or 45 min. of draw if collected in Mint top tube. When drawing blood, remove tourniquet as soon as possible. At TMH, if Lactic Acid Venous ordered, a tube should be collected and testing will be performed by the Main Lab.
LACTIC ACID Spinal Fluid	CFLAC	CSF LACTIC ACID	83605	0.5 mL CSF ON ICE	Sterile plastic CSF tube	Chemistry, RIH	0.5 - 2.0 mEq/L	Lactate oxidase / Peroxidase	S = 1 hr.	Transport STAT on ice.
LACTOSE TOLERANCE (Blood)	LACTO		82951 82952*			Chemistry, RIH				Call x444-2771 to book. See Special Procedures. * 82952 used for samples beyond three.
Lamictal Level (Lamotrigene)	LAMIC	LAMICTAL Level	80299	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report			
LAP (Leukocyte Alkaline Phosphatase)	LAP	LEUKOCYTE ALKALINE PHOSPHATASE	85540	5 mL blood Whole Blood Required	Green Top Vac (Heparin)	Special Hematology, RIH	Adults: 15-120	Cytochemical	R = 1 week (test run once a week) S = N.A.	EDTA blood is unacceptable.
LASA-P (lipid-associated sialic acid)	SIALI	LIPID ASSOCIATED SIALIC ACID	84275	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Colorimetric	R = 5-10 days	Sent out.
LDH (lactic dehydrogenase)	LDH	LDH	83615	4 mL blood	Green Top Vac with Gel (Mint)	Chemistry	Adult: 100 - 220 IU/L	Conversion of Lactate to Pyruvate	R = 4 hrs. S = 1 hr.	Appropriate pediatric ranges will appear on lab report. Cannot be performed on hemolyzed serum
LDH Isoenzyme										See Isoenzyme Fractionation LDH
LDL ( Low Density Lipoprotein) Measured	LDLM	LDL MEASURED	83721	10 mL Blood	Green Top Vac with Gel (Mint)	Chemistry, Core	LDL: Desirable <130 mg/dL; Borderline 130-159; High >159 mg/dL	Homogeneous Enzymatic Assay	R/S = 7 days	Can not be performed if Triglyceride exceeds 1293 mg/dL
L-DOPA CHALLENGE										Call ext 48152 to schedule and for assistance.

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
LEAD, 24 hr Urine	UPB	U LEAD 24HR	83655	24 hr urine	Clean plastic (2 L) container with 25 mL 6N HCL (Ped): 3-5 mL 6N HCL	Toxicology, RIH	0-80 µg/24 hrs	Graphite Furnace/Atomic Absorption Spectroscopy	R= Tu & Th S = 4 hrs.	Toxic: >120 µg/24 hr. Refrigerate sample during collection. Preservative should be added prior to sample collection.
LEAD, Random Urine	UPBR	U LEAD RANDOM	83655 82570	24 hr urine	Clean plastic (100 mL) container	Toxicology, RIH		Graphite Furnace/Atomic Absorption Spectroscopy	R= Tu & Th S = 4 hrs.	Toxic: >120 µg/24 hr. Refrigerate sample during collection. Preservative should be added prior to sample collection.
LEAD, Whole Blood	LEAD	LEAD	83655	3 mL blood (Min) 1 mL blood <b>Whole Blood Required</b>	Green or Royal Blue Vac with additive	Toxicology, RIH	0-9 ug/dL (Age 0-6 yrs.) 0-25 ug/dL (6-Adult)	Graphite Furnace/Atomic Absorption Spectroscopy	R=T, Th & Sat. S = 4 hrs.	Toxic: > 25 ug/dL (0 - 6 yrs) >40 ug/dL (Age 6 - Adult)
LEGIONELLA ANTIBODY TITER (IgG and IgM) See Comments for Reflexive Rules	LEGT	LEGIONELLA AB TOTAL SO or LEGIONELLA AB TOTAL TITER	86713	3 mL blood (Min.) 1 mL blood	Red Top Vac	Reference Lab (Quest)	IgG < 1:256 IgM < 1:256	Indirect Immunofluorescence (IFA)	R = 1-2 Weeks	LEGI IgM (CPT 86713) is reflexively ordered if LEGI Ab is 1:64 or greater. A titer of 1:256 or greater on a single specimen is presumptive evidence of Legionnaires Disease or a fourfold rise in titer between acute and convalescent samples.
LEGIONELLA ANTIGEN Urine	ULEGI	U LEGIONELLA	87449	Random Urine.	Sterile leakproof	Chemistry, Core	Negative	EIA	R = M-F	
Legionella Culture	CXLEG	Source specific Bronchial, Sputum, etc.	87081	Respiratory	Sterile leakproof container	Microbiology	Negative	Legionella Culture	R=14 days	Legionella Urinary Antigen test is preferred.
LEPTOSPIRA ANTIBODY	LEPTS	LEPTOSPIRA SCREEN	86720	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Indirect Hemagglutination	R = 3-5 days	Sent out.
LEUKOCYTE ALKALINE PHOSPHATASE	LAP	LEUKOCYTE ALKALINE PHOSPHATASE	85540							See LAP
LFT Liver Function Tests	LIVER	LIVER PANEL	84460 84075 84450 82247 82248 82040 84155	5 mL Blood	Green Top Vac with Gel (Mint)	Chemistry	See individual methods	See individual methods	R & S = 1 hr.	Group contains Alb, Alk Phos, AST, ALT, T. Bili, D. Bili, and T. Protein. Synonym for Liver
LH (Lutenizing Hormone)	LH	LH*	83002	5 mL blood	Red Top with Gel (Gold)	Chemistry, Core	Male: mIU/mL = (20-70 yrs) 1.5-9.3 Female: mIU/mL = Follicular: 1.9-12.5 Midcycle: 8.7-76.3 Luteal: 0.5-16.9 Postmenopausal: 15.9-54.0	Chemiluminescence	R = M - Sat.	
LIBRIUM	LIB	LIBRIUM AND NORCHLORDIAZ	80154	5 mL blood (Min.) 3 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic: Librium 1.0-3.0 ug/mL Norchlordiazepoxide 0.2-1.9 ug/mL	High Performance Liquid Chromatography	R = Weekly S = 8 hrs.	Toxic: Librium > 5.0 µg/mL Norchlordiazepoxide >2.6 ug/mL Norchlordiazepoxide is performed on all requests.
LIDOCAINE	LIDO	LIDOCAINE LEVEL	80176	3 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic: 2.0 - 5.0 µg/mL	Enzyme Immunoassay (EMIT)	R = M - Sat S = 1 hr.	Toxic: > 7.0 µg/mL
LIPASE	LIP	LIPASE LEVEL	83690	4 mL blood (Min) 3 ml blood	Green Top Vac with Gel (Mint)	Chemistry	7 - 60 U/L	Panteghini Method	R = 4 hrs. S = 1 hr.	
LIPID ASSOCIATED SIALIC ACID (LASA-P) LIPID PANEL										See LASA-P See Cholesterol Fractionation
LIPOPROTEIN A	LIPOA	LIPOPROTEIN A	83695	5 mL blood (Min.) 3 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Immunoturbidity	R = 2-4 days	Sent out.
LIPOPROTEIN ELECTROPHORESIS	LIPO	LIPOPROTEIN	83715	5 mL blood Fasting 16 hrs.	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report	Agarose Electrophoresis	R = 3-5 days	Sent out.

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS		
LITHIUM	LITH	LITHIUM	80178	5 mL blood	Red Top with Gel (Gold)	Chemistry, RIH	Therapeutic Range: 0.6 - 1.2 mEq/L	Colorimetric	R & S = 1 hr.	Critical: >1.6 mEq/L (First incidence only) A standardized 12 hour post dose serum lithium concentration can be used to assess adequate therapy.		
LIVER	LIVER	LIVER PANEL	84460 84075 84450 82247 82248 82040 84155	5 mL Blood	Green Top Vac with Gel (Mint)	Chemistry	See individual methods	See individual methods	R & S = 1 hr.	Group contains Alb, Alk Phos, AST, ALT, T. Bili, D. Bili, and T. Protein		
LMWH ANTI Xa	AXA	ANTIXa								See Anti Xa		
LORAZEPAM	LORAZ	LORAZEPAM LEVEL	80154	5 mL blood (Min) 3 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 10-240 ng/mL	High Performance Liquid Chromatography	R = Weekly S = 8 hrs.	Toxic: >300 ng/mL		
LOW MOLECULAR WEIGHT HEPARIN ANTI Xa	AXA	ANTI Xa								See Anti Xa		
LOXAPINE	LOXA	LOXAPINE	82491	5 mL blood	Lavender or Red Top Vac	Reference Lab, (Quest)	See Report		R = 5-7 days	Toxic: > 60 ng/mL		
LUDIOMIL (Maprotiline)				10 mL blood	Red Top Vac	Reference Lab (Quest)	Therapeutic Range: 50-240 ng/mL	HPLC	R = 3-5 days	Toxic : > 250 ng/mL. Sent out.		
LUNG CANCER (NSCLC) ROS1 (6q22) Rearrangement, FISH	ROS1	NON-ORDERABLE	88271x2 88274	Formalin-fixed paraffin embedded tissue block	Formalin-fixed paraffin embedded tissue block	Reference Lab (Quest)	See Report	FISH	R=7-10 days	Send on Quest Cytogenetics requisition. Alternate sample: 5 slides (unstained, positively charged) submitted in a slide holder.		
LUPUS ANTICOAGULANT (LUPUS INHIBITOR)	LA	LUPUS INH	85613 85612	9.0 mL blood	2 Blue Top Vac Tubes	Coagulation, RIH				Clottable	R = 1 week S = 1 hr.	Test contains Lupus Screen and Lupus Confirmatory testing. Not performed weekends, nights, or holidays. <b>Reflexive Rule:</b> If LA Ratio is <1.25 and the PT is <13.3, a Platelet Neutralization (85597) will be performed and billed.
LYME DISEASE AB, WESTERN BLOT EARLY DISEASE (IgG & IgM)	LYMWB	LYME EARLY	86617 86617	5 mL blood	Red Top Vac	Clinical Immunology, Core	See Report	Western Blot	R = 5-7 days			
LYME DISEASE ANTIBODY Titer Antibodies to Borrelia Burgdorferi	LYMER	LYME REFLEX	86618	5 mL blood (Min) 3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	< 0.9 Negative 0.9 - 1.1 Equivocal > 1.1 Positive	Enzyme Immunoassay	R = M - F	Detects IgG and IgM Antibodies <b>Reflexive Rule:</b> All positive and equivocal results for Lyme Ab titer will reflexively generate an order for a Lyme Western Blot and be charged CPT Code 86617x2.		
LYME DISEASE DNA BY PCR	LYPC	LYME DNA BY PCR-SERUM	87797 87798	5 mL Blood	Red Top Vac	Reference Lab (Quest)	Not Detected	PCR	R= M-F	Sent out. Serum should be frozen.		
LYME DISEASE DNA BY PCR	LYPC	LYME DNA BY PCR-SERUM	87797 87798	5 mL Blood	Red Top Vac	Reference Lab (Quest)	Not Detected	PCR	R= M-F	Sent out. Serum should be frozen.		
LYME DISEASE DNA BY PCR	LYPC	LYME DNA BY PCR-SERUM	87797 87798	5 mL Blood	Red Top Vac	Reference Lab (Quest)	Not Detected	PCR	R= M-F	Sent out. Serum should be frozen.		
CHORIOMENINGITIS AB LYSOZYME	LCM	LCM	86727	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Indirect Fluorescence	R = 5-7 days	Sent out. See Muramidase Lysozyme		
MAG ANTIBODY MYELIN ASSOCIATED ANTIBODY										See Myelin Associated Antibody		
MAGNESIUM Urine 24 hr	UMG24	U MAGNESIUM 24 HR	83735	24 hr urine	Clean plastic (2 L) urine container with 25 mL 6N HCl	Toxicology, RIH	6.0 - 10.0 mEq/24 hr.	Atomic Absorption Spectroscopy	R = Th.	Refrigerate specimen during collection. Preservative should be added prior to sample collection		
MAGNESIUM (Mg)	MG	MAGNESIUM LEVEL	83735	4 mL blood	Green Top Vac with Gel (Mint)	Chemistry	1.3 - 1.9 mEq/L	Calmagite Timed Endpoint	R = 4 hrs. S = 1 hr.	Critical Values : Magnesium > 2.3 mEq/L Magnesium < 0.7 mEq/L Test cannot be performed on hemolyzed sample.		
MAGNESIUM Urine, Random	UMGR	U MAGNESIUM RANDOM	83735	Random urine	Clean plastic (100 mL) urine container	Toxicology, RIH		Atomic Absorption Spectroscopy	R = Th. S = 4 hrs.			

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
MALARIA SMEAR (Smear for Parasites)										See Blood Parasites
MANGANESE	MANG	MANGANESE BLOOD	83785	5 mL blood	Special Tube Dark / Royal Blue with EDTA	Reference Lab (Quest)	See Report	Graphite Furnace Atomic Absorption	R = 5-7 days	Specimen must be refrigerated during transport. Alt. Tube is Dark / Royal Blue with Sodium Heparin. Sent out.
MAPROTIline (Ludiomil)										See Ludiomil
MATERNAL AFP ONLY			82105	5 mL blood	Gold or Red Top Vac	W & I	See Report			Specific requisition must be completed.
MATERNAL TYPE & SCREEN	MTSG	MATERNAL TYPE AND SCREEN	86900 86901 86850	6 mL blood <b>Whole Blood Required</b>	Pink Plastic Vac	Blood Bank	Negative Screen	Gel Test	R = 80-120 min. S = 45-60 min.	
MEASLES IgG ANTIBODY Titer	MEAG	MEASLES IGG	86765	3 mL blood	Red Top Vac	Clinical Immunology, Core	< 0.900 Negative 0.91 - 1.09 Equivocal ≥1.10 Positive Measured in REV (Relative Elisa Values)	Enzyme Immunoassay	R = M,W,F	Detectable levels of 1.10 or greater is consistent with immunity to measles.
MEASLES IgM ANTIBODY Titer	MEAM	MEA IGM AB	86765	3 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Immunofluorescence		Sent Out
MELLARIL (THIORIDAZINE)	TRZNE	MELLARIL LEVEL	84022	5 mL blood (Min) 3 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 100-2600 ng/mL	High Performance Liquid Chromatography	R = Tu & F S = 8 hrs.	Toxic: > 5000 ng/mL
MEPHOBARBITAL See Comments	MEPHO	MEPHOBARB AND PHENOBARB	82491 80184	5 mL blood (Min) 3 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 0.5 - 3.5 ug/mL	Gas Chromatography	R = Weekly S = 6 hrs.	Toxic: >20 ug/mL A Phenobarbital is performed and charged on all sera for this test.
MEPROBAMATE	MEPRO	MEPHROBAMATE	83805	5 mL blood (Min) 3 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 2 - 26 ug/mL	Gas Chromatography	R = Weekly S = 6 hrs.	Toxic: >60 ug/mL
MERCURY RANDOM URINE	UHGR	U MERCURY RANDOM	83825	Random urine	Clean plastic (100 mL) urine container	Toxicology, RIH	0 - 20 ug/L	Atomic Absorption Spectroscopy	R = Fri. (Biweekly) S = 48 hrs.	
MERCURY WHOLE BLOOD	HG	MERCURY	83825	5 mL blood <b>Whole Blood Required</b>	Royal Blue Vac with Heparin	Toxicology, RIH	0 - 10 ug/L	Atomic Absorption Spectroscopy	R = Fri. (Biweekly) S = 48 hrs.	Critical Value > 50 ug/L
MERCURY URINE 24HR	UHG	U MERCURY 24 HR	83825	24 hr urine	Clean plastic (2 L) urine container Add 10 mL 10% Nitric Acid or 25 mL 6N HCl	Toxicology, RIH	Normal: 0-20ug/24 hrs	Atomic Absorption Spectroscopy	R = Fri. (Biweekly) S = 48 hrs.	Toxic: Exposure to organics >100 ug/24 hr. Exposure to inorganics >200 ug/24 hr Refrigerate sample during collection and preservative must be added prior to collection.
METANEPHRINES , PLASMA (Total & Fractionated)	METAN	METANEPHERINES PLASMA	83835	5 mL Blood	Lavender Top Vac	Reference Lab (Quest)	See Report	LC/MS/MS	R=5-7 days	Sent out. Refrigerate Plasma
METANEPHRINES TOTAL (Urine)	UMETA	U METANEPHRINE 24 HR	83835	24 hr urine	Clean plastic (2 L) urine container with 25 mL of 6N HCl	Toxicology, RIH	Total Metanephrines: 0 - 900 ug/24 hrs	Pisano/ Spectrophotometry	R = Weekly	Refrigerate sample during collection. Preservative should be added prior to collecting sample.
METHAMPHETAMINE	MAMPH	METHAMPHETAMINE LEVEL	82145	10 mL blood (Min) 3 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic range: 10-50 ng/mL	GC/Mass Spectrometry	R = Weekly	Toxic: > 600 ng/mL
METHANOL	MEOH		84600	5 mL Blood	Red Top Vac	Toxicology, RIH	ND (None detected)	Gas Chromatography	R = Daily S = 2 hr.	Component of Volatile Screen (VOLATILE)
METHEMOGLOBIN	METHB (RIH) WBMET (TMH Inpatients)	METHEMOGLOBIN (RIH) <i>Methemoglobin Only (TMH Only)</i>	83050	3 mL blood <b>Whole Blood Required</b>	Labeled heparinized syringe. Please remove needle and place cap on syringe @ TMH Green Top Vac (no gel) @ RIH	Blood Gas Lab @ TMH Chemistry @ RIH	0- 1.8% of total hemoglobin	Spectrophotometric	S = 20 min	TMH Inpatients Orders should be placed under Respiratory. TMH Outpatient should draw a green top tube (no gel barrier).
METHIONINE	MTH	METHIONINE LEVEL	82131	3 mL blood	Lav Top Vac	Chemistry, NEMC	Normal values are age dependent.		R = 2-4 days	Freeze Plasma



TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
METHOTREXATE	MTX	METHOTREXATE LEVEL	83520	3 mL blood	Red Top Vac (protect from light)	Toxicology, RIH	Protocol dependent	Fluorescence Polarization immunoassay	R = M-Sat S = 2 hr	Test must be scheduled by calling ext 4-5858 (Toxicology Lab, RIH).
METHSUXIMIDE (Elontin)	METSU	METHSUXIMIDE AND NORMETH	83858	5 mL blood (Min) 3 mL blood	Red Top Vac	Reference Lab (Quest)	See Report		R = 3-5 days.	
METHYLENEDIOXY-AMPHETAMINE (MDA) Quantitative	MDA	MDA	82145	5 mL Blood	Red Top Vac	Toxicology, RIH	Normal Value : Detected	None Gas Chromatography / Mass Spectrometry	R = Weekly	Included in the Amphetamine confirmation procedure.
METHYLENEDIOXY-AMPHETAMINE (MDA) Urine Confirmation	ACONF	AMPHETAMINE CONFIRMATION	82145	Random Urine	Clean plastic (100 mL) urine container	Toxicology, RIH	Normal Value : Detected	None Gas Chromatography / Mass Spectrometry	R = Weekly	Included in the Amphetamine confirmation procedure.
METHYLENEDIOXY-METHAMPHETAMINE (MDMA, Ecstasy) Quantitative	MDMA	MDMA	82145	5 mL Blood	Red Top Vac	Toxicology, RIH	Normal Value : Detected	None Gas Chromatography / Mass Spectrometry	R = Weekly	Included in the Amphetamine confirmation procedure.
METHYLENEDIOXY-METHAMPHETAMINE (MDMA, Ecstasy) Urine Confirmation	ACONF	AMPHETAMINE CONFIRMATION	82145	Random Urine	Clean plastic (100 mL) urine container	Toxicology, RIH	Normal Value : Detected	None Gas Chromatography / Mass Spectrometry	R = Weekly	Included in the Amphetamine confirmation procedure.
METHYL HISTIDINE (Urine)	UMHIS	U METHYLHISTIDINE	82131	Random urine	Clean plastic (100 mL) urine container	Amino Acid Lab, NEMC	See Report	High Performance Liquid Chromatography (HPLC)		
METHYL MALONIC ACID (Random Urine)	UMTHY	U METYLMALONIC RANDOM	83918	Random urine	Clean plastic urine container	Reference Lab (Quest)	See Report	LC/MS	R = 7-10 days	Sent out. Once received in lab, sample should be frozen.
METHYL MALONIC ACID (Serum) Quantitative	MMAL	METHYL MALONIC ACID	82542	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	GC/Mass Spectrometry	R = 5-7 days	Sent out. Once received in lab, sample should be frozen immediately after separation.
MEXILETINE (MEXATIL)	MEXIL	MEXILETINE LEVEL	82491	5 mL blood (Min) 3 mL blood	Red Top Vac	Reference Lab (Quest)	See Report		R = 5-7 days	
MICROALBUMIN Urine (Random)	UMICA	U MICROALBUMIN RANDOM	82043	Random urine	Clean plastic urine container	Chemistry, Core	< 20 mg/g of Creatinine	Turbidimetric	R = Daily	
MICROALBUMIN Urine 24 hour	UMIA2	U MICROALBUMIN 24hr	82043	24 hr urine	Clean plastic (2 L) urine container	Chemistry, Core	< 25 mg/24 hrs	Turbidimetric	R = Daily	Refrigerate sample during collection.
MICROSOMAL ANTIBODY										Replaced by A-TPO (Anti-Thyroid Peroxidase Ab)
MICROSPORIDIA SPORE DETECTION	MICDE	FECAL MICROSPORIDIA DETECTION	87015 87207	Random stool	Sterile leakproof container	Reference Lab (Quest)	See Report	Microscopy, Trichrome Stain		Sent out. Upon receipt, sample must be placed in formalin vials supplied by Quest. Refrigerate sample.
MIDAZOLAM	MIDAZ	MIDAZOLAM LEVEL	80154	5 mL blood (Min) 3 mL blood	Red Top Vac	Reference Lab (Quest)	See Report		R = 5-7 days	
MITOCHONDRIAL ANTIBODY	MITAB	ANTI-MITOCHONDRIAL AB EIA	83516	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Interpretation : Negative: $\leq$ 20.0 Equivocal : 20.1 - 24.9 Positive : $\geq$ 25.0	EIA Enzyme Immunoassay	R = once a week S = 45 mins.	Interpretation : 20.0 Negative, no Mitochondrial Ab. 20.1 - 24.9 Suggest further testing $\geq$ 25.0 Positive, presence of Mitochondrial Ab and suggests the possibility of primary biliary cirrhosis
MONO SPOT	MSPOT	MONO SPOT	86308	3 mL blood	Red Top Vac	Hematology	Negative	Immunoassay		
MONO TITERS										See EBV Titers
MRSA Screen	CXMRS	Source specific: Nasal, skin, etc.	87081	All Sites Specify site	Copan Double Swab	Microbiology	Negative	MRSA Culture	R = 2 days S = NA	First incidence of a positive result is called for Inpatients only. Only cultured for Methicillin Resistant Staph Aureus.
MRSA Screen Wound	CXMRW	MRSA SCREEN WOUND	87081	Wound	Copan Double Swab	Microbiology	Negative	MRSA Culture	R = 2 days S = NA	First incidence of a positive result is called for Inpatients only. Only cultured for Methicillin Resistant Staph Aureus.
MTHFR 677, 1298 Methylene tetrahydrofolate reductase DNA	MTHFR	MTHFR DNA MUTATION	81291	Buffy Coat from Lavender or 3 mL Whole Blood	Lavender Top Vac	Clinical Molecular Biology, RIH	Negative	Flourescent probe	5-10 days; set up on Tuesdays	Stable for 4 days refrigerated. Set up on Tuesdays

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
MUCOPOLYSACCHARIDE Urine (Qual)	UMUCO	U MUCOPOLYSACCHARIDE SCRIN	83866	Random urine	Clean plastic (100 mL) urine container	Amino Acid Lab, NEMC	Negative	Toluidine Blue		Also known as Berry Spot Test.
MUMPS IgG ANTIBODY Titer	MUMPG	MUMPS IGG EIA	86735	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	< 0.900 Negative 0.91 - 1.09 Equivocal >1.10 Positive INDEX VALUE	EIA	R = M,W,F	Index Value Interpretation: ≤ 0.90 Negative (no previous infection) 0.91-1.09 Equivocal (recommend repeat testing) ≥1.10 Positive (previous or current infection)
MUMPS IgM ANTIBODY Titer	MUMPM	MUMPS IGM MURAMIDASE	86735	3 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report		R = 3-5 days	
Muramidase Lysozyme	MURA	MURAMIDASE LYSOZYME	85549	5 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report	Enzymatic	R = 4 - 5 days	
MUSCLE BIOPSY						Histology			Histology : w/ 7 days EM :48 hrs.	See Histopathology Section.
Mycobacterium Culture	CXAFB	See AFB order options based on specimen source	87116 87206	Fluid, tissue, or abscess only	Sterile leakproof container	Microbiology	Negative	Semiautomated detection.	R=6 Weeks S=N/A	Swab specimens will be rejected. Tissues should be received in a sterile cup with a drop of sterile saline
MYCOPHENOLIC ACID	MYCOP		80180	5 mL Blood	Red Top	Reference Lab (Quest)	See Report	Liquid Chromatography/ Tandem MS	R = 4-5 days	Includes MPA Glucuronide
MYCOPLASMA ANTIBODY - IGG	MYPG	MYCO IGG	86738	5 mL blood (Min) 3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Index Value Negative: ≤ 0.90 Equivocal: 0.91 - 1.09 Positive: ≥ 1.10	EIA	R = once a week	Index Value Interpretation: ≤ 0.90 Negative (no previous infection) 0.91-1.09 Equivocal (recommend repeat testing) ≥1.10 Positive (previous or current infection)
MYCOPLASMA ANTIBODY - IGM	MYPM	MYCO IGM	86738	5 mL blood (Min) 3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Index Value Negative: ≤ 0.90 Equivocal: 0.91 - 1.09 Positive: ≥ 1.10	EIA	R = once a week	Index Value Interpretation: ≤ 0.90 Negative (no previous infection) 0.91-1.09 Equivocal (recommend repeat testing) ≥1.10 Positive (previous or current infection)
MYCOPLASMA CULTURE UROGENITAL CULTURE	MYCO	not orderable	87109 87076 87081	Cervical Swab Vaginal swab Urethral swab.	Culturette	Reference Lab (Quest)	Negative	Standard culture method		Mycoplasma hominis, ureaplasma and urealyticum
MYELIN ASSOCAITED GLYCOPROTEIN	MAGDU	MAG ANTIBODY	83520	3 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	EIA		Sent out.
MYELIN BASIC PROTEIN (CSF)	CMYEL	CSF MYELIN BASIC PROTEIN	83873	2 mL CSF (1.1 mL Min.)	Sterile plastic CSF tube	Reference Lab (Quest)	See Report	RIA	R = 3-5 days	Sent out. Ship Frozen
MYELOPEROXIDASE			88319	Bone Marrow or 3mL blood	Lavender Top Vac	Special Hematology, RIH		Cytochemical	R = 24 hrs.	
MYELOPEROXIDASE AB	MYPER	Myeloperoxidase Ab	83516	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	<20 Units	EIA	R = once a week	
MYOGLOBIN Serum	MYO	MYOGLOBIN	83874	5 mL blood (Min) 3 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report	RIA	R = T & Fri	Sent out.
MYOGLOBIN Urine	UMYO	URINE MYOGLOBIN RANDOM	83874	Random urine	Clean plastic (100 mL) urine container	Reference Lab (Quest)	See Report	Fixed Time Nephelometry		Sent out. Sample should be frozen prior to shipping.
MYSOLINE (Primidone) See Comments	MYSO	MYSOLINE AND PHENOBARB	80188 80184	3 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 5-12 ug/mL	Enzyme Immunoassay (EMIT)	R = M-Sat S = 2 hrs.	Toxic: >15 ug/mL Phenobarbital is performed and charged on all requests for Mysoline.
Nasal Screen	CXNAS	NASAL STAPH SCREEN	87081	Nasal Swab	Copan Double Swab	Microbiology	Negative	Rule out MRSA and Staph aureus only	R = 48HRS S = N/A	

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
Nasal Screen for MRSA	CXMRS	MRSA SCREEN	87081	Nasal Swab	Copan Double Swab	Microbiology	Negative	MRSA Culture	R = 48HRS S = N/A	First incidence of a positive result is called for Inpatients only. Only cultured for Methicillin Resistant Staph Aureus.
NATURAL KILLER CELL FUNCTION	KILER	NATURAL KILLER CELL FUNCTION	88184 88185x2	12 mL Blood	ACD	Reference Lab (Viracor)	See Report	Flow Cytometry	R = 1 week	Mblood must be drawn Monday - Thursday between Noon - 2PM and received in the laboratory no later than 3:30 PM, to meet Viracor's stability requirement.
NBT (Spontaneous)	SNBT	not orderable	86384	Fingerstick		Special Hematology, RIH	NBT < 5% Endo Stimulation > 25%	Cytochemical	R = 24 hrs. S = N.A.	Schedule by calling x4-8342, unavailable for ordering on Invision.
NEEDLE ASPIRATION BIOPSIES (FOR TUMOR CELLS)						Cytology			GYN Tests R= 2-3 weeks Non-GYN Tests R = 2 days S = 4-8 hrs	See Cytology Section
NEEDLE ASPIRATION SMEARS OF SUBCUTANEOUS FAT FOR AMYLOID					"Do Not" bring syringe with needle attached to Pathology. Label each slide on the side of the smear where tissue is present with patient name.	Surgical Pathology	NBT 5% Endo Stimulation 25%			Aspirate ABO fat pad using "18"-20" gauge needle. Smear contents of syringe on at least 6-8 glass slides making sure there are small tissue particles. Deliver dried smears to Surgical Pathology.
NERVE BIOPSY						Histology			Histology: w/ 7 days EM: 72 hrs	See Histopathology Section.
NEURONTIN (GABAPENTIN)	NEUR	NEURONTIN LEVEL	82491	5 mL blood	Lavender Top Vac	Reference Lab (Quest)	See Report	HPLC	R = 5-7 days	Sent out.
NEUTROPHIL OXIDATIVE BLAST	VNOB	NEUTROPHIL OXIDATIVE BLAST	82657	5 mL Blood	Special Tube obtained from Sendout Lab : Sodium Heparin	Reference Lab (Viracor)	See Report		R = 1 week	Samples may only be collected Monday - Thursday. In addition, it is recommended that a control specimen be included from a healthy individual as a shipping control.
NITROGEN, TOTAL 24hr (24 hr creat included)	UNIT2	U NITROGEN 24hr	84540	24 hr urine	Clean plastic (2 L) urine container with 25 mL 6N HCL Drainage: 10 mL 6N HCL	Chemistry, RIH	Diet dependent	Chemiluminescence	R = 7 days	Refrigerate sample during collection. Preservative should be added prior to sample collection. Freeze sample.
NON SPECIFIC ESTERASE			88319	Bone marrow or EDTA blood	Bone Marrow or Lavender Top Vac	Special Hematology, RIH		Cytochemical	R = 24 hrs.	
NOREPINEPHRINE						Toxicology, RIH			R = Weekly	See Catecholamine
NORPACE (DISOPYRAMIDE)	DISOP	DISOPYRAMIDE NORPACE	82491	5 mL blood (Min) 3 mL blood	Red Top Vac	Reference Lab, Quest	See Report	Enzyme Immunoassay	R = 2-4 days	
NORPRAMIN (Desipramine)	DESIP	DESIPRAMINE LEVEL	80160	10 mL blood (Min) 5 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 150-250 ng/mL	High Performance Liquid Chromatography	R = Tu & F S = 8 hrs.	Test performed Tu & F P.M
NORTRIPTYLINE (Pamelor)	NOR	NORTRIPTYLINE	80182	10 mL blood (Min) 5 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 50-150 ng/mL	High Performance Liquid Chromatography	R = Tu & F S = 8 hrs.	Toxic : > 500 ng/mL Test performed Tu & F P.M

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
NP (Nasopharyngeal) Chlamydia Probe	NASCT	NASOPHARYNGEAL CHLAMYDIA PROBE	87591	Nasal Swab	Gen - Probe Collection Kit available from Stores Specimen must be placed in tube prior to delivery to laboratory.	Molecular Microbiology Coro	Negative	Transcription Mediated Amplification (TMA)	R = M-F	Critical Value: Positive results on patients <14. Blue swab should be submitted in Gen-Probe collection kit for analysis. (Silver foil topped containers)
NP (Nasopharyngeal) Gonorrhea Probe	NASGC	NASOPHARYNGEAL GONORRHEA PROBE	87591	Nasal Swab	Gen - Probe Collection Kit available from Stores Specimen must be placed in tube prior to delivery to laboratory.	Molecular Microbiology Coro	Negative	Transcription Mediated Amplification (TMA)	R = M-F	Critical Value: Positive results on patients <14. Blue swab should be submitted in Gen-Probe collection kit for analysis. (Silver foil topped containers)
N-TELOPEPTIDE COLLAGEN X-LINKED	UNTEO	U N TELOPEPTIDE CROSS LINK	82523 82570	15 mL urine	Urine Container	Reference Lab (Quest)	See Report	CIA	R=3-4 days	Urine Creatinine performed with all requests. Refrigerate sample.
NTX OSTEOMARK	UNTEO	U N TELOPEPTIDE CROSS LINK								See N-Telopeptide Collagen X-linked
NUCLEAR MATRIX PROTEINS (NMP)	NMP	NUCLEAR MATRIX PROTEINS	86316	10 mL Random Urine	Matritech NMP-22 Collection Kit	Reference Lab (Quest)	See Report	Immunoassay	R=7-10 days	Minimum sample volume: 5 mL random urine
NUCLEOTIDASE 5'	5NUC	5 NUC	83915	5 mL blood (Min) 3 mL blood	Gold or Red Top Vac	Reference Lab (Quest)	See Report	Spectrophotometry, Kinetic	R = 3-5 days	Sent out.
OB 3 Hour Glucose Tolerance Caring for Women	GL301	3HR OB TOLERANCE	82951 82952*	5 mL Blood per draw	Green Top Vac with Gel (Mint)	Chemistry	See Report	Glucose Oxidase		Includes Fasting, 60 minute 120 minute and 180 minute collection. Code 82952 used for samples beyond 3.
OB GLUCOSE CHALLENGE 60 Minute Challenge	GLCH	GLUCOSE CHALLENGE OB	82951	5 mL Blood	Green Top Vac with Gel (Mint)	Chemistry	<130 mg/dL	Glucose Oxidase	S = 1 hour R = 4 hours	1 Hour Challenge for Gestational Diabetes
OCCULT BLOOD	OCC	OCCULT BLOOD	82270	Stool Gastric contents, etc.	OB Card or Plastic urine container.	Chemistry	Negative	Colorimetric	R = 2 hours	
OLIGOCLONAL BANDS (CSF)	COLIG	CSF OLIGOCLONAL	83916	2.5 mL CSF 5 mL Blood	Sterile plastic CSF tube Red Top Vac	Reference Lab (Quest)	Negative	Isoelectric Focusing	R = 3-5 days	Requires both CSF and blood collected at the same time. If only one of the samples is received, notify ordering physician for instructions on how to proceed. Ship Frozen. Sent out.
ONE, 25-DIHYDROXY-VITAMIN D3	VITD1	VIT D 1 25	82652	5 mL blood (Min) 1 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Extraction, Chromatography, Radioreceptor Assay	R = 3-5 days	Sent out. Ship Room Temperature
ORAL (For tumor cells)						Cytology				See Cytology Section.
ORGAN DONOR CMV AB Cytomegalovirus Total Ab	DCMV	ORGAN DONOR CYTOMEGALOVIRUS AB	86644	3.0 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report	Passive Latex Agglutination	R = 2-3 days	This test code is for Organ Donor specimens only (Renal, Bone Marrow, Stem Cell, Sperm etc.)
ORGAN DONOR HCV (Hepatitis C Ab) See Comments	DHEPC	ORGAN DONOR HEPATITIS C AB AND CON	86803	3 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Enzyme Immunoassay	R = 2-3 days	This test code is for Organ Donor specimens only (Renal, Bone Marrow, Stem Cell, Sperm etc.)
ORGAN DONOR HEPATITIS B CORE Total Antibody See Comments	DHEBC	ORGAN DONOR HEPATITIS B CORE AB	86704	3 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Enzyme Immunoassay	R = 2-3 days	This test code is for Organ Donor specimens only (Renal, Bone Marrow, Stem Cell, Sperm etc.)
ORGAN DONOR HEPATITIS B Surface AG See Comments	DHEPB	ORGAN DONOR HEPATITIS BS AG AND CON	87340	3 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Enzyme Immunoassay	R = 2-3 days	This test code is for Organ Donor specimens only (Renal, Bone Marrow, Stem Cell, Sperm etc.)

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
ORGAN DONOR I / II AB SCREEN	HTLV-DHTLV	ORGAN DONOR HTLV I / II DNA	86790	7 mL Blood	Red Top Vac	Reference Lab (Quest)	See Report	EIA	R = 5-7 days	This test code is for Organ Donor specimens only (Renal, Bone Marrow, Stem Cell, Sperm etc.)
ORGANIC ACIDS by GC/MS	UORG	U ORGANIC ACID	83918	5-10 mL urine	Clean plastic (100 mL) urine container. Freeze if possible or refrigerate.	Chemistry, NEMC	See Report	Gas Chromatography/ Mass Spectrometry		
OROTIC ACID	UORO	U OROTIC ACID	82130	5-10 mL random urine	Clean plastic (100 mL) urine container	Reference Lab (Quest)	See Report	Colorimetric		Sent out. Frozen Ship
OSMOLALITY Fecal	STOSM	F OSMO	83935	Random stool	Clean plastic container	Chemistry, RIH		Freezing Point Depression	R & S = 4 hr	
OSMOLALITY SERUM	OSMO	OSMOLALITY SERUM	83930	3.5 mL blood	Green Top Vac with Gel (Mint)	Chemistry	290-300 mOsm/Kg H <sub>2</sub> O	Freezing Point Depression	R & S = 2 hr.	
OSMOLALITY Urine	UOSMO	U OSMO	83935	Random urine	Clean plastic (100 mL) urine container	Chemistry		Freezing Point Depression	S = 2 hr.	
OSMOTIC FRAGILITY Incubated	OSFRA	OSMOTIC FRAG	85557	10 mL blood <b>Whole Blood Required</b>	Green Top Vac <b>Na Heparin</b>	Reference Lab (Quest)	See Report.	SP		<b>Do not open collection tube.</b> Samples must be received Monday - Thursday. Stable in refrigerator only 48 hours.
OSTEOCALCIN	OSTEO	OSTEOCALCIN LEVEL	83937	5 mL blood	Red Top Vac	Reference Lab (Quest)	See report.	ECLIA	R = 3-5 days	Sent out. Freeze serum as soon as possible.
OSTEOMARK										See N-Telopeptide Collagen X-linked
OVA AND PARASITES	OP1	<b>NOT ORDERABLE</b>	87177	Stool - NOT SWABS. (Other specimens call Lab)	Leakproof container	Reference Lab (Quest)	Negative	Standard Iodine/Trichrome Stains	R = 4 days	<b>Only 1 O&amp;P may be ordered per day.</b> O&P will be performed on specimens obtained from patients after their third hospital day only if physician obtains verbal authorization from a Microbiologist tech. <b>Submit 3 specimens over 7-10 days. All samples should be labelled and dated.</b>
OVARIAN AB	OVAB	OVARIAN AB SCRIN w TITER	86255	5 mL blood (Min) 3 mL blood	Red Top Vac	Reference Lab (Quest)	Negative	IFA	R = 10 days to 2 weeks	If Positive, Quest will reflex titer and CPT 86256 will be billed.
OXALATE 24 hour Urine	UOX	U OXALATE 24hr	83945	24 hr urine	Clean plastic (2 L) urine container with 25 mL 6N HCL (Ped): 3-5 mL 6N HCL	Toxicology, RIH	Adult Male 7-44 mg/24hr Adult Female 4-31 mg/24 hr Children 13-38 mg/24 hr	Enzymatic, Colorimetric	R = Fri. (Biweekly) S = 8 hrs.	Refrigerate sample during collection. Preservative should be added prior to collecting sample.
OXAZEPAM	OXAZ	OXAZEPAM	80154	5 mL blood (Min) 3 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic range: 0.2-1.4 µg/mL	High Performance Liquid Chromatography	R = Weekly S = 8 hrs.	Toxic: >2.0 µg/mL
OXCARBAZEPINE (Trileptal)	OXCAR	OXCARBAZEPINE LEVEL	82491	5 mL Blood	Red Top Vac	Reference Lab (Quest)	See Report		R= 5-7 days	
P1 TYPING (Alpha-1-Antitrypsin and Mutation Analysis)	P1TP	ALPHA 1 ANTITRYP AND P1 TYPING	81332	5 mL Whole Blood 3 mL Serum	Red Top Vac and Lavender Top Vac	Reference Lab (Quest)	See Report	Fixed Rate Time Nephelometry and Fluorescent Restriction Fragment Length Polymorphism	R = 10-12 days	Sent out. Test code 17307X. Whole Blood at Room Temp and Serum Refrigerated.
PANCREATIC ELASTASE-1	PELAS	PANCREATIC ELASTASE 1	82656	5 grams undiluted Stool	Clean leakproof container	Reference Lab (Quest)	See Report	Immunoassay		Sent out. Store and ship refrigerated
PANCREATIC POLYPEPTIDE (PP)	PPOLY	PANCREATIC POLYPEPTIDE	83519	5 mL blood	Lavender Top Vac	Reference Lab (Quest)	See Report	Extraction, RIA	R = 3-5 days	Ship plasma frozen on dry ice. Sent out.
PAP										See Acid Phostase Prostatic
PAP SMEAR (Papanicolaou)						Cytology				<b>Reflexive Rule : If PAP is ASCUS , a HPV will be reflexively ordered and billed separately</b>

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
PARAINFLUENZA ANTIBODIES (Type 1,2, and 3)	PARAI	PARAINFLUENZA VIRUS SO	87252x2	5 mL blood	Red Top	Reference Lab (Quest)	See Report	Complement Fixation	R = 3-5 days	Sent out.
PARATHYROID HORMONE (PTH) INTACT MOLECULE (IRMA)	PTH	PTH								See PTH
PARATHYROID RELATED HORMONE										See PTH Related Hormone
PARIETAL CELL ANTIBODY	APCA	ANTI PARIETAL CELL ANTIBODY	86256	5 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	< 1:20	Indirect Immunofluorescence (IFA)	R = once a week	
PAROXYSMAL NOCTURNAL HEMOGLOBINURIA			88180	5 mL Blood <b>Whole Blood</b>	Lavender Top Vac	Special Hematology, RIH		Flow Cytometry	R = 24 hrs.	They must be received at RIH Special Hematology Lab Monday - Thursday 7 AM to 4:30 PM or by Noon on Fridays. Friday availability is not open to Outreach.
PARVOVIRUS by PCR	PARPC	PARVOVIRUS BY PCR	87798	5 mL Blood	Pearl or Lavender Top Vac	Reference Lab (Quest)	See Report	PCR		Separate within 2 hours of collection. Freeze Plasma.
PARVOVIRUS B-19 ANTIBODIES (IgG/IgM)	PARVO	PARVOVIRUS B-19 IGG and IGM	86742	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	EIA	R = 3-5 days	Sent out.
PAS			88319	Bone marrow or blood	Lavender Top Vac or Bone Marrow	Special Hematology, RIH		Cytochemical	R = 24 hrs.	
Peanut Molecular Component Panel	PEACO	uKnow Peanut Molecular Comp								See uKnow Peanut Molecular Comp
PEMPHIGOID ANTIBODIES	EPIDE		86256	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report		3-5 days	Also known as Skin antibodies, Epidermal antibodies and Skin basement membrane antibodies.
PENTOBARBITAL	PENTO	PENTOBARBITAL	82491	5 mL blood (Min) 3 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 1.0 - 3.0 ug/mL	Gas Chromatography	R = M-Sat S = 8 hrs.	Toxic: > 5.0 ug/mL
PERIODIC ACID SCHIFF STAIN			88319	Bone marrow or blood	Lavender Top Vac or Bone Marrow	Special Hematology, RIH		Cytochemical	R = 24 hrs.	
PEROXIDASE (Myelo)										See Myeloperoxidase
Pertussis PCR and Culture	DBORD	BORD PERT PCR	87265	2 Polyester NP swabs	Sterile Polyester NP swabs placed in Regan Lowe Media obtained from lab	Reference Lab - RIDOH	Negative	PCR and Culture	R = 1 week for culture, PCR, 24 hrs S= N/A.	Sent to the Rhode Island Department of Health
PFA 100	PFA	PLATELET FUNCTION ASSAY	85576x2	13mL blood (total) <b>Whole Blood Required</b>	2 Blue and 1 Lav Top Vac	Coagulation	Collagen Epinephrine : 75- 195 second Collagen ADP : 70 - 120 seconds	High Shear flow	R = Daily	Reflexive Rule: If a CBC isn't ordered with this test, a Platelet (85595) and HCT (85014) will be reflexed and billed. <b>Outreach should send STAT to TMH. Sample stable for 3 hours. Do not place on ice or centrifuge. Test available 24/7.</b>
PG AMNIOTAT NEWPORT HOSPITAL	PG	PG AMNI NH	84081	5 mL Blood	Red Top Vac	Chemistry, NH	Positive = Mature Negative = Immature Borderline	Latex Agglutination	R = 2 hrs.	Newport Hospital only.
pH (pleural fluid)	BFPH	BF pH	83896	2 mL fluid <b>ON ICE</b>	Labeled heparinized syringe <b>on ice</b> . Please remove needle and place cap on syringe.	Chemistry	pH 7.6-7.68	Direct electrode measurement	R = M-F	Collect anaerobically in heparinized syringe

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
PHENOBARBITAL	PNOB	PHENOBARBITAL LEVEL	80184	3 mL blood (Min) 0.5 mL blood	Green Top Vac with Gel (Mint)	Chemistry	Therapeutic Range: 15-40 µg/mL	PETINIA	R = 4 hrs. S = 1 hr.	Critical: >80 µg/mL (First incidence only) The peak level varies between 4 to 10 hours in different individuals, so the trough level drawn just before the administration of the next dose is indicative of the overall effect of the drug.
PHENTERMINE	PHENT	PHENTERMINE	82491	5 mL blood (min) 3 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic range: 90 - 510 ng/mL	Gas Chromatography/ Mass Spectrometry	R = Weekly	Toxic: Undetermined
PHENYLALANINE	PHE	PHENYLALANINE PKU		5 mL blood (min) 3 mL blood	Green Top Vac on ice <b>Whole Blood</b>	Toxicology, RIH	Normal ranges are age dependent. See Report.	Spectrophotometric	R=Th	Assay performed on <b>Whole Blood</b>
PHENYLPROPANOLAMINE	PPA	PHENYLPROPANOLAMINE	82491	5 mL blood (Min) 3 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 30 - 480 ng/mL	Gas Chromatography/ Mass Spectrometry	R = Weekly	Toxic: > 1000 ng/mL
PHENYTOIN (Dilantin)	DIL	DILANTIN	80185	3 mL blood	Green Top Vac with Gel (Mint)	Chemistry	Therapeutic range: 10-20 ug/mL	PETINIA	R = Daily S = 1 hr.	Critical Value : >30 µg/mL (First incidence only) Peak serum levels are reached in 1.5 - 3 hours post dose for regular formulations and 4 - 12 hours after slow releasing formulations.
PHOSPHORUS	PHOS	PHOSPHORUS LEVEL	84100	4 mL blood	Green Top Vac with Gel (Mint)	Chemistry	2.4 - 4.8 mg/dL	Phosphomolybdate Rate Method	R = 4 hrs.	Critical Range : ≤ 1.0 mg/dL Test cannot be performed on hemolyzed sample.
PHOSPHORUS 12 hr urine	UPO12	U PHOSHORUS 12 HR	84105	12 hour urine	Clean plastic (2 L) urine container	Chemistry		Phosphomolybdate Rate Method	R = daily	Refrigerate specimen during collection.
PHOSPHORUS 24 hr urine	UPO24	U PHOSHORUS 24 HR	84105	24 hour urine	Clean plastic (2 L) urine container	Chemistry		Phosphomolybdate Rate Method	R = daily	Refrigerate specimen during collection.
PHOSPHORUS Random Urine	UPHOR	U PHOSPHORUS RANDOM	84105	Random urine	Clean plastic (100 mL) urine container	Chemistry		Phosphomolybdate Rate Method	R = daily	
Pinworm (Scotch tape test)	PINW	PARASIT ID PINWORM TAPE TEST	87172	Paddle collection kits or CLEAR Scotch tape on slides.No Frosted Tape!	Slide in envelope	Microbiology	Negative	Light Microscopy	R = 24 - 48 hrs.	Forwarded to State Lab. Press sticky side scotch tape to perianal area with tongue depressor (best done pre-bathing in early A.M) Remove tape and place on glass slide sticky side down. Cover with a second slide and transport in envelope to avoid contamination. M - F.
PLAVIX (CLOPIDOGREL EFFECT DETECTION)	CLEFF	CLOPIDROGREL EFFECT DETECTION	85576	6 mL Blood	1 Blue Top & 1 Lavender Top Vac	Coagulation	Normal >195 PRU (<20% inhibition) Clopidogrel Effect Present <195 PRU (>20% inhibition)	Turbidometric Optical Platelet Aggregation	R = 3 hours S = 1 hour	Reflexive Rule effective 2/3/11 : If a CBC isn't ordered with this test, a Platelet and HCT will be reflexed. Blood must be received in lab within 2 hours. Do not place on ice or centrifuge. Available daily 7 AM to 10 PM
PLATELET AGGREGATION	PLTAG	not orderable	85576 x5	20 mL Blood	3 Blue Top Vac 1 Lavender Top Vac	Coagulation, RIH	See Interpretation	PLT Aggregometry	R = 2 hrs.	Call 444-5560 to schedule an appointment. Patient must be off all medications. Test performed M-F
PLATELET ANTIBODY SCREEN	APAD	ANTIPLATELET AB DIR				Reference Lab (Quest)				See Anti-Platelet Ab
PLATELET COUNT	PLT	PLATELET COUNT	85595	3 mL Blood <b>Whole Blood Required</b>	Lavender Top Vac	Hematology	150,000 - 400,000/mm <sup>3</sup>	Automated count	S = 1 hour	Critical Values: > 1,000,000 or <20,000 and then again if < 10,000 or <150,000 with >50,000 decrease
PLEURAL FLUID CELL COUNT	PLCC			Pleural fluid	Lavender Top Vac	Urinalysis		Chamber Count, Cytospin, Wright's Stain	R = < 5 hrs. S = 1 hr.	

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PLEURAL FLUID DIFFERENTIAL	PLDIF			Pleural fluid	Lavender Top Vac	Urinalysis		Chamber Count, Cytospin, Wright's Stain	R = < 5 hrs. S = 1 hr.	
PNEUMOCOCCOL AB PANEL (12 Serotype)	PNEAB	<i>PNEUMOCOCCAL AB BRONCHIAL</i>	86609 x11	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	EIA	R = 7-10 days	Sent out.
Pneumocystis carinii (Groveci) DFA	DFPCP	<i>PNEUMOCYSTIS PCP DFA</i>	87281	Bronchio-Alveolar Lavage or Induced Sputum	Sterile leakproof container	Virology, RIH	Negative	DFA Stain	R = 4 hrs. S = 2 hr.	Critical Value: Positive. Available M-F, AM shift only.
POLIO SEROLOGY (Type 1-3 AB)	POLIO	<i>POLIO AB</i>	87252 x3	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Complement Fixation	R = 3-5 days	Sent out.
POLIOVIRUS ANTIBODY NEUTRALIZATION	POLIN	<i>POLIO AB NEUTRALIZATION</i>	86382 x3	5 mL blood	Red Top Vac	Reference Lab (Quest to Focus)	See Report	Tissue Culture / Neutralization	R = 7 - 10 days	Sent out.
PORPHOBILINOGEN (Urine)	UPBG	<i>URINE PORPHOBILINOGEN</i>	84106	Random urine	Clean plastic (100 mL) Urine Container	Toxicology, RIH	Negative	Colorimetric	R = M-Sat S = 4 hrs.	Must be performed on fresh specimen. Specimen must be sent STAT to Toxicology Lab.
PORPHYRINS Coproporphyrin & Uroporphyrin (24 Hr Urine)	UPOR	<i>U PORPHYRIN 24HR</i>	84120	24 hr urine	Clean plastic (2 L) urine container	Toxicology, RIH	Coproporphyrin: 0-95 mcg/24 hr Uroporphyrin: 0-20 mcg/24 hr	Spectrophometry	R = M-F S = 8 hrs.	Refrigerate specimen during collection. Sample MUST NOT be acidified. <b>Sample must be transported STAT to Toxi Lab M-F 8:30 A.M to 3:00 P.M</b>
PORPHYRINS Coproporphyrin & Uroporphyrin (Random Urine)	UPORR	<i>U PORPHYRIN RANDOM</i>	84120	Random urine	Clean plastic (100 mL) Urine Container	Toxicology, RIH		Spectrophometry	R = M-F S = 8 hrs.	Sample MUST NOT be acidified. <b>Sample must be transported STAT to Toxi Lab M-F 8:30 A.M to 3:00 P.M</b>
POTASSIUM 12 hr Urine	UK12	<i>U POTASSIUM 12HR</i>	84133	12 hr urine	Clean plastic (2 L) urine container	Chemistry		Indirect ISE	R = daily	Refrigerate during collection.
POTASSIUM 24 hr Urine	UK24	<i>U POTASSIUM 24HR</i>	84133	24 hr urine	Clean plastic (2 L) urine container	Chemistry		Indirect ISE	R = daily	Refrigerate during collection.
POTASSIUM (K)	K1	<i>K LEVEL</i>	84132	3 mL blood	Green Top Vac with Gel (Mint)	Chemistry	Adults: 3.6-5.1 mEq/L	Indirect ISE	R = 4 hrs. S = 1 hr	Critical Values : Potassium > 6.0 mEq/L Potassium < 3.0 mEq/L Test cannot be performed on hemolyzed plasma.
POTASSIUM Random Urine	UKR	<i>U POTASSIUM RANDOM</i>	84133	Random spec	Clean plastic (100 mL) urine container	Chemistry		Indirect ISE	R = daily	
PREALBUMIN	PALB	<i>PREALBUMIN</i>	84134	5 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	18-38 mg/dL	Nephelometry	R = M - F	
PREGNANCY TEST Blood	PREG	<i>PREGNANCY TEST, SERUM</i>	84703	3 mL blood	Red Top Vac	Urinalysis	Negative	Immunochromatogenic Assay		
PREGNANCY TEST Urine	UHCG	<i>U PREG</i>	81025	Random Urine	Urine specimen container	Urinalysis	Negative	Immunochromatogenic Assay	R & S = 1 hr.	Tests may not be reliable on Spec. with Sp. gr. < 1.005.
PREGNANEDIOL GLUCURONIDE 24 Hr Urine			84135	24 hr urine	Clean plastic (2 L) urine container	Reference Lab (Quest)	See Report	Direct RIA	R = 2 weeks	Refrigerate during collection.
PREGNANETRIOL (Urine)	UPRNT	<i>U PREGNANETRIOL</i>	84138	24 hr urine	Clean plastic 2 L urine container No preservatives	Reference Lab (Quest)	See Report	GC / MS	R = 5-7 days	Sent out. Record total volume, aliquot and ship frozen.
PREGNANOLONE	PRNEN	<i>PRERNENOLONE LEVEL</i>	84140	3 mL Blood	Red Top Vac (no gel)	Reference Lab (Quest)	See Report	GC / MS	R = 5-7 days	Sent out.
PRENATAL TYPE AND SCREEN	MTSG	<i>MATERNAL TYPE AND SCREEN</i>	86900 86901 86850	6 mL blood <b>Whole Blood Required</b>	Pink Plastic Vac	Blood Bank	Negative Screen	Gel Test	R=80-120 min. S=45-60 min.	
PRIMIDONE (Mysoline)	MYSO	<i>MYSOLINE AND PHENOBARB</i>	80188 80184	3 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 5-12 ug/mL	Enzyme Immunoassay (EMIT)	R = M-Sat S = 2 hrs.	Toxic: >15 ug/mL Synonym: Mysoline. Phenobarbital is performed and charged on all requests for Mysoline.



TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
PROCAINAMIDE (Pronestyl)	PRON	PRONESTYL + NAPA	80192	5 mL blood (Min.) 3 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic range: Pronestyl : 4-10 ug/mL ; Pronestyl and Napa : 10-30 ug/mL	Fluorescence Polarization Immunoassay (FPIA)	R = M-Sat S = 2 hrs.	Critical: Total Pronestyl and NAPA : >30 ug/mL (First incidence only) Recommended drawing times: Pre-dose : just before dose. Post-dose : 1 hour after dose.
PROCALCITONIN	PCTP	NOT ORDERABLE (Call Lab)		4 mL Blood	Green Top Vac w Gel (Mint)	Microbiology, RIH			R = 4 hours	Use: To rule out community acquired pneumonia. Please note Special Handling Requirements. Specimen must be processed within 2 hours.
PROCAN-SR	PRON	PRONESTYL + NAPA								See Procainamide
PROGESTERONE	PROGE	PROGESTERONE LEVEL	84144	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Extraction, RIA	R = 3-5 days	Specify age, sex, and menopausal state on request form. Sent out.
PROGRAF (FK506) ( Tacrolimus )	TAC1	TACROLIMUS2	80197	5mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Toxicology, RIH	Therapeutic Range: 5.0 - 20.0 ng/mL	Chemiluminescent Microparticle Immunoassay (CMIA)	R = M - Sat. S = 3 hrs	Call Toxicology @ 444-5858 to arrange for a Stat.
PROINSULIN	PROIN	PROINSULIN	84206	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Immunoassay	R = 3-5 days	Overnight fasting required. Sent out.
PROLACTIN	PRLCT	PROLACTIN	84146	5 mL blood (Min.) 3 mL blood	Red Top with Gel (Gold)	Chemistry, Core	Male: 2-17 ng/mL Female: 3-29 ng/mL	Chemiluminescence	R = M - F	
PROLINE	PRL	PROLINE	82131	3 mL blood	Lav Top Vac	Chemistry, NEMC	Normal values are age dependent.		R = 2-4 days	Freeze Plasma
PRONESTYL (Procainamide)	PRON	PRONESTYL + NAPA	80192	5 mL blood (Min.) 3 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic range: Pronestyl : 4-10 ug/mL Pronestyl and Napa : 10-30 ug/mL	Fluorescence Polarization Immunoassay (FPIA)	R = M-Sat S = 2 hrs.	Critical: Total Pronestyl and NAPA >30 ug/mL. (First incidence only) Recommended drawing times: Pre-dose : just before dose. Post-dose : 1 hour after dose.
PROPRANOLOL (Inderal)										See Inderal
PROSTAGLANDIN D2			84150	5 mL blood	Red Top Vac. Send to Lab immediately.	Reference Lab (Quest)	See Report	RIA	R = 5-7 days	Spin & Freeze immediately. Sent out.
PROSTAGLANDIN E1	PROST	PROSTAGLANDIN	84150	10 mL blood.	Red Top Vac. Send to Lab immediately.	Reference Lab (Quest)	See Report	RIA	R = 5-7 days	Spin & Freeze immediately. Sent out.
PROSTATIC SPECIFIC ANTIGEN DIAGNOSTIC (PSA)	PSA	PSA DIAGNOSTIC	84154	5 mL blood	Red Top with Gel (Gold)	Chemistry, Core	0-4.0 ng/mL	Chemiluminescence	R = M - Sat.	Draw before digital rectal examination or biopsy procedure. Upon receipt in lab, serum must be refrigerated.
PROSTATIC SPECIFIC ANTIGEN FREE (FREE PSA)										See Free PSA
PROSTATIC SPECIFIC ANTIGEN SCREENING (PSA)										See PSA Screening
PROTEIN 12 hr urine	UTP12	U PROTEIN QUANT 12 HR	84156	12 hour urine	Clean plastic (2 L) urine container	Chemistry		Pyrogallol & Molybdate Timed Endpoint	R = daily	Reflexive Rule : If a result of <6 mg/dL is obtained, and a Random Urine Microalbumin will be ordered and resulted. Refrigerate specimen during collection.
PROTEIN 24 hr urine	UTP24	U PROTEIN 24 HR	84156	24 hour urine	Clean plastic (2 L) urine container	Chemistry	42 - 225 mg/24 hr	Pyrogallol & Molybdate Timed Endpoint	R = daily	Reflexive Rule : If a result of <6 mg/dL is obtained, a 24 hour Urine Microalbumin will be ordered and resulted. Refrigerate specimen during collection.
PROTEIN Random Urine	UTPR	U PROTEIN RANDOM	84156	Random urine	Clean Plastic (100 mL) urine container	Chemistry	0-11 mg/dL	Pyrogallol & Molybdate Timed Endpoint	R = daily	Reflexive Rule : If a result of <6 mg/dL is obtained, a Random Urine Microalbumin and a Urine Creatinine will be ordered and resulted.

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
PROTEIN Total	TP	TOTAL PROTEIN	84155	4 mL blood	Green Top Vac with Gel (Mint)	Chemistry	6.0 - 8.0 g/dL	Biuret	R = 4 hrs. S = 1 hr.	Critical Values Total Protein <4.0 g/dL or >12.0 g/dL
PROTEINASE 3 AB	PROT3	Proteinase 3 Ab	83516	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	< 20 Units	EIA	R = once a week	
PROTEIN C (Functional)	PROTC	PROTEIN C	85303	9.0 mL blood	2 Blue Top Vac	Coagulation, RIH	74-128%	Clottable	R = 3-5 days	Critical Value : Protein C < 10% Note: Patient can <u>NOT</u> be on Coumadin.
PROTEIN S (Total & Free)	PROTS	PROTEIN S FREE and TOTAL	85305 85306	9.0 mL blood	2 Blue Top Vac	Coagulation, RIH	Total 73-118% Free 30-72%	Elisa	R = 3-5 days	Critical Value : Protein S Total < 10% Note: Patient can <u>NOT</u> be on Coumadin. Tests can not be ordered individually.
PROTEIN Spinal Fluid	CFTP	CSF PROTEIN	84157	1-2 mL CSF	Sterile plastic CSF tube	Chemistry	15 - 45 mg/dL	Pyrogallol & Molybdate Timed Endpoint	R = 2 hrs. S = 1 hr.	
PROTHROMBIN FRAGMENT 1.2	PRFR	PROTHROMBIN FRAGMENT 1.2	85130	4.5 mL blood	Blue Top Vac	Coagulation, RIH	0.35 - 1.51 nmol/L	Elisa	R = 5-10 days	
PROTHROMBIN GENE MUTATION DNA (Factor II Mutation)	PTMUD	PT GENE MUT DNA	81240	Buffy Coat from Lavender or 3 mL Whole Blood	Lavender Top Vac	Clinical Molecular Biology, RIH	Negative	Floresent Probe	R= 5-10 days; set up Tuesdays	Stable for 4 days refrigerated. Test set up on Tuesdays.
PROTHROMBIN TIME (PT)	PT	PT w INR	85610	2.7 mL blood	Blue Top Vac	Coagulation	6 mos.-Adult: 9.5 - 12.5 sec	Clottable	R = < 4 hrs. S = 45 min	Critical Values : INR ≥ 5.0 The tube must contain at least 2.7 mL of blood to ensure accuracy.
PROTOPORPHYRIN, FREE ERYTHROCYTE	BPFEF	FREE ERYTHROCYTE PROTOPORPHRIN	84202	1 mL blood Whole Blood Required	Green Top Vac	Toxicology, RIH	0-35 ug/dL	Hemato-Fluorometry	R = M-Sat S = 90 min	FEP may be requested with blood lead levels.
PROZAC (Fluoxetine)	FLUOX	FLUOXETINE AND NORFLUOXETINE	82491	10 mL blood (Min.) 4 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic range: The total of Fluoxetine and Norfluoxetine : 300 - 1150 ng/mL	High Performance Liquid Chromatography	R = Tu & F S = 8 hrs.	Toxic: Total >2000 ng/mL Norfluoxetine is performed on all requests.
PSA	PSA	PSA DIAGNOSTIC	84154	5 mL blood	Red Top with Gel (Gold)	Chemistry, Core	0-4.0 ng/mL	Chemiluminescence	R = M - Sat.	Draw before digital rectal examination or biopsy procedure. Upon receipt in lab, serum must be refrigerated.
PSA FREE	PSAF	PSA FREE	84153 84154	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Chemiluninesence	R = Next day M-F	Sent out. Both a total and free PSA will be performed with the ordering of this assay. Freeze serum immediately after centrifugation. If sample is from Outreach, it must be transported on ice after centrifugation.
PSA POST PROSTATECTOMY ULTRASENSITIVE	PPSA	PSA POST PROSTATECTOMY	84153	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Immunochemi-luminesence		
PSA SCREENING	PSASN	PSA SCREENING TOTAL	G0103	5 mL blood	Red Top with Gel (Gold)	Chemistry, Core	0-4.0 ng/mL	Chemiluminescence	R = M - Sat.	Draw before digital rectal examination or biopsy procedure. Upon receipt in lab, serum must be refrigerated.
PSEUDOEPHEDRINE	SUDA	SUDAFED	82491	5 mL blood (Min.) 3 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 500- 770 ng/mL	Gas Chromatography/ Mass Spectrometry	R = Weekly	Toxic: > 1900 ng/mL
PSITTACOSIS AB (Chlamydia Group Ab)			86729	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Complement Fixation	R = 3-5 days	Sent out.
PT3										See Proteinase 3 Ab
PTH Parathyroid Hormone, Intact	PTH	PTH	83970 82310	5 mL blood	Lavender Top Vac* (See Comments)	Chemistry, Core	10-65 pg/mL	Chemiluminesence	R = M - F	* A green top vacutainer with gel is required for the Calcium determination (CPT 82310). A calcium will be performed and billed on all requests for pTH.

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
PTH RELATED PROTEIN	PTH RP	PTH RELATED PROTEIN	83519	6 mL blood	**Special Tube** Sodium Heparin	Reference Lab (Quest)	See Report	IRMA	R = 5-7 days	** From Outreach : Call 34960 for the tube. ** At TMH : Call 34216 for tube. ** At RIH : Call 46108 or 45886. Sent out.
PYRILINKS D, FREE Urine	UPYRI	NOT ORDERABLE	82523	10 mL urine	Clean Urine Container No Preservative	Reference Lab (Quest)	See Report	Chemiluminescence	R = 5-7 days	Sent out. No preservatives added and sample must be refrigerated during transport.
PYRUVATE	PYR	PYRUVATE	84210	5 mL blood ON ICE	Special tube obtained from Phlebotomy. Sodium fluoride/potassium oxalate	Toxicology, RIH	0.03 - 0.08 mMol/L	Oxidation of NADH	R = Weekly	Draw and immediately plac on ice. Special handling instructions for whole blood once sample is received in laboratory.
Q FEVER IgG AND IgM SCREEN with REFLEX	QFIM	Q FEVER IgG and IgM Scrn w Reflex	86638 x4	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	IFA	R = 3-5 days	Test includes measurements for both Phase I and II for both IgG and IgM.
Quantiferon - TB Gold	QUANT	QUANTIFERON TB GOLD	86480	3 mL Blood	Special Tubes (3) obtained from Sendout Lab	Reference Lab (Quest)	See Report		R = 3-5 days	<b>Special Tubes and Handling:</b> The test must be booked as the tubes are not routinely available at draw stations. Test requires 3 distinct tubes which are available from the Sendout Lab at either RIH or TMH. Once the samples are collected, they must be sent to the laboratory immediately. Once received in the lab, please follow special handling guidelines.
Quantative BAL Culture QUINAGLUTE	CXBQT QUIN	BAL QUANT CULT/GS QUINIDINE LEVEL	87071	Bronchial Lavage	Sterile leakproof container	Microbiology	Mixed Respiratory Flora	Quantative bacterial culture including yeast	R= 2 days	Pathogens are reported out in quantities equal to or greater than 10,000cfu/mL See Quinidine
QUINIDINE	QUIN	QUINIDINE LEVEL	80194	5 mL blood (Min) 3 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Immunoassay	R = 2-3 days	Sent out.
RABIES ANTIBODY TITER	RABIE	RABIES TI	86790	5 mL Blood	Red Top Vac	Reference Lab (Kansas State)	See Report	Serum Neutralization & Fluorescent Antibody	27 - 30 days	Once sample is received in lab, serum should be frozen and sent to reference lab frozen.
RAJI CELL	ICRAJ	IMMUNE COMPLEX BY RAJI CELL	86332 X2	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	EIA	R = 5-7 days	Sent out.
RAPAMYCIN (Sirolimus)	SIR	SIROLIMUS2	80195	3 mL Blood Whole Blood	Lavender Top Vac	Toxicology, RIH	Therapeutic Range: 15 ng/mL first yr; 5-10 ng/mL after first year	Chemiluminescent Microparticle Immunoassay (CMIA)	R = M,W,F S =3 hrs.	Toxic: > 25.0 ng/mL Call Toxicology @ 444-5858 to arrange for a Stat
RAPID INFLUENZA PCR	RFLUP	RAPID INFLUENZA PCR	87502	NP Flocked Swab	Viral Transport Media	Microbiology	Negative	PCR	R= 2-5 hrs	At RIH, Collection kits available from Central @ 444-6107 or Virology @ 444-5655. At TMH, they are available from Microbiology @ 793-4235. Viruses tested for: Flu A and Flu B
RAPID PLASMA REAGIN (RPR) See Comments for Reflexive Rule	RPR	RPR QUAL	86592	5 mL blood (Min) 3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Non-reactive	Flocculation	R = M-F	If RPR is reactive, RPR Quantitative (CPT 86593) and Fluorescent Treponema Antibody (FTA) (CPT 86781) are added and charged.
Rapid Strep Screen	RSTRA	THROAT RAPID STREP A ANTIGEN	87430	Throat swab	Copan Double Swab	Microbiology	Negative	Antigen screen	R/S = 2 hr.	In Pediatric patients, a negative result will automatic reflex to a Strep DNA Probe.
RAST LATEX	LATEX	ALLERGEN LATEX	86003	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	RAST	R = 4-6 days	Sent out.
RAST Misc. testing not orderable in system	RASAM	NOT ORDERABLE	86003	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	RAST	R = 4-6 days	Sent out. To be used for allergens where immunocap is not available.
RBC - FREE PROTOPORPHYRIN										See FEP Free Erythrocyte Protoporphyrin

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
RBC FOLATE	FOLRB	FOLATE RBC	82747	3 mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Chemistry, Core	130 - 1000 ng/mL	Chemiluminescence	R = M-Sat	Once sample has been received by lab, it should be frozen if it will not be performed on the same day the lab receives it.
RBC MAGNESIUM	RBCM1	RBC MAGNESIUM SO	83735	3 mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Reference Lab (Quest)	See Report			
Rectal Chlamydia Probe	RECT	RECTAL CHLAMYDIA PROBE	87491	Rectal swab	Gen - Probe Collection Kit available from Stores <b>Specimen must be placed in tube prior to delivery to laboratory.</b>	Molecular Microbiology Coro	Negative	Transcription Mediated Amplification (TMA)	R = M-F	Critical Value: Positive results on patients <14. Blue swab should be submitted in Gen-Probe collection kit for analysis. (Silver foil topped containers)
Rectal CPE Screen	CXCPE	RECTAL CPE SCRIN	87081	Rectal swab	Copan Double Swab	Microbiology	Negative	Screen for CPE	R = 48 hrs S = NA	The first incidence of a positive result is called, Inpatients only.
Rectal Gonorrhoea Probe	REGC	RECTAL GONORRHEA PROBE	87591	Rectal swab	Aptima Collectin Kit available from Stores <b>Specimen must be placed in tube prior to delivery to laboratory.</b>	Molecular Microbiology Coro	Negative	Transcription Mediated Amplification (TMA)	R = M-F	Critical Value: Positive results on patients <14. Blue swab should be submitted in Gen-Probe collection kit for analysis. (Silver foil topped containers)
Rectal Group A Strep Screen	CXGAL	RECTAL GROUP A STREP SCREEN	87081	Rectal swab	Copan Double Swab	Microbiology	Negative	Screen for Group A Strep	R = 48HRS S = N/A	
Rectal Trichomonas Probe	RECTV	RECTAL TRICHOMONAS PROBE	87798	Rectal swab	Gen - Probe Collection Kit available from Stores <b>Specimen must be placed in tube prior to delivery to laboratory.</b>	Molecular Microbiology Coro	Negative	Transcription Mediated Amplification (TMA)	R = M-F	Critical Value: Positive results on patients <14. Blue swab should be submitted in Gen-Probe collection kit for analysis. (Silver foil topped containers)
Rectal Viral Culture	CXVIR	RECTAL VIRAL CULT	87252	Rectal swab	Copan swab placed into UTM	Virology, RIH	Negative	Spin amplified detection for Adenovirus	R =48 hours	At RIH, UTM supplied by Central 444-6107 At TMH, UTM supplied by Microbiology 793-4235
Rectal VRE Screen	CXVRE	RECTAL VRE SCRIN	87081	REC SWAB	Copan Double Swab	Microbiology	Negative	Screen for VRE	R = 48HRS S = N/A	The first incidence of a positive result is called, Inpatients only.
REDUCING SUBSTANCES Fecal	SREDS	FECAL RED SUB	84376	Stool - 10 grams	Clean plastic container	Reference Lab (Quest)	See Report	Benedict's Solution	R = 3 - 4 days	<b>Sample should be frozen immediately by the lab.</b> The sample only has a room temperature stability of 24 hours
RENIN STUDIES*	RENRE	NOT ORDERABLE	84244X4	10 mL blood X4	4 Lavender Top Vac	Reference Lab (Quest)	See Report	Angiotensin-1, Generation, RIA	R = 3-5 days	Sent out. For use with Vascular Special Procedures. Avoid refrigeration, spin at room temperature and freeze plasma.
RENIN ACTIVITY	RENIN	RENIN ACTIVITY	84244	4 mL blood	Lavender Top Vac	Reference Lab (Esoterix)	See Report	RIA	R = 3-5 days	Sent out. Sample should be sent to the lab at room temperature and spun immediately upon receipt. Freeze plasma in plastic aliquot tube.
RESPIRATORY SYNCYTIAL VIRUS ANTIBODY (RSV)	RSVAB	RSV AB	86756	3 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report		R = 5-7 days	

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
Respiratory Culture and gram stain	CXSPT CXBRO CXBRS CXCF	Order by specimen source	87205 87070	Sputum (first morning preferred), Bronch Wash, Bronch Brush Specify site	Sterile leakproof	Microbiology	mixed respiratory flora	Bacterial Culture, including yeast, gram stain	R = 2 days, CF patients, 3 days S = 2 HRS.	The gram stain is used to determine the suitability of sputum for culture, and a culture credit is generated if the specimen is found to be unsatisfactory for further processing. Superficial specimens (epithelial ≥ polys) will not be processed. Unit notified.
Respiratory Viral Panel (RVP)	RVP	RESPIRATORY VIRAL PANEL (RVP)	87633	Nasal-pharyngeal (NP) swab	Nasal-pharyngeal (NP) swab placed in UTM and bronch specimens	Virology, RIH	Negative	PCR	24 hours during Respiratory season	At RIH, Collection kits available from Central @ 444-5886 or Virology @ 444-5655. At TMH, they are available from Microbiology @ 793-4235. Viruses tested for: RSV, Flu A (non-specific, probable H1N1), Flu A (H1), Flu A (H3), Flu B, Para 1, 2, 3 and 4 Metapneumovirus, Enterovirus/Rhinovirus, Adenovirus and Corona Virus.
RESTORIL (TEMAZEPAM)	TEMAZ	TEMAZEPAM	80154	5 mL blood (Min)3 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 0.4-0.9 ug/mL	HPLC	R = Weekly S = 8 hrs	Toxic: >5.0 ug/mL
RETICULOCYTES See Comments for Required Testing	RETIC	RETIC LAB	85045	3 mL blood	Lavender Top Vac	Hematology	% = 0.5% - 2.2% Absolute = 25-100 K/uL (Adults)	Automated / Manual	R = 1 hour S = 30 min	Critical Values : Retics - 0% in anemia (First incidence only) Requires RBC, if not ordered, one will be reflexively ordered.
RETINOL BINDING PROTEIN (RBP)	RBP	RETINOL BINDING PROTEIN	83883	5 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	2-6 mg/dL	Nephelometry	R = M - F	
REVERSE T3	RT3	REVERSE T3	84482	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	RIA	R = 3-5 days	Sent out.
RHEUMATOID FACTOR	RF	RHEUMATOID FACTOR	86431	3.0 mL blood (Min) 1 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	< 20 IU/MI	Nephelometry	R = M - F	
RIBOSOMAL P PROTEIN AB	RIBOP	RIBOSOMAL P PROTEIN AB	86318	3 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	EIA	R = 5-7 days	Sent out.
RICKETTSIAL AB PANEL	RICKE	RICKETTSIAL AB PANEL	86757x4	5 mL Blood	Red Top Vac	Reference Lab (Quest)	See Report	Immunofluorescence		Sent out. Includes both IgG and IgM to both Typhus and RMSF
RISTOCETIN CO FACTOR (Risto Co-factor)	RST2	RISTO CO-FACTOR	85245	9.0 mL blood	2 Blue Top Vac	Coagulation, RIH	> 55%	Elisa	R = 1 week S = 2 hr.	This test is performed as part of a Von Willebrand's Disease screen. See WWF Screen. The test can also be ordered individually.
RITALIN (METHYLPHENIDATE)	RITAL	RITALIN METHYLPHENIDATE	80299	5 mL blood	Red Top Vac	Reference Lab (Quest)	5-20 ng/mL	GC -Nitrogen Phosphorus Detection and Mass Spectrometry	R = 3-5 days	Sent out. Must be shipped frozen.
RNA POLYMERASE III AB	not orderable	NOT ORDERABLE	83520	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Immunoassay		
RNP Extractable Nuclear Antigen (ENA) Ribonuclear Protein	RNP	EXT NCLR ANTG (ENA) RNP	86235	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Negative : < 20 Units Weak Pos: 20-39 Mod Pos: 40-80 Strong Pos: ≥80	Enzyme Immunoassay	R = Weekly	
Rocky Mountain Spotted Fever IgG & IgM	RICKE	Rocky Mt Spotted Fever	86255x4	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report			Sent out. Includes both IgG and IgM to both Typhus and RMSF
ROHYPNOL (Flunitrazepam)	FLUNI	FLUNITRAZEPAM	80154	10 mL Blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 10.0 - 52.0 ng/mL	High Performance Liquid Chromatography	R = Weekly	Toxic = >100 ng/mL
Rotavirus	RROTA	STOOL ROTAVIRUS ELISA	87425	Stool	Sterile leakproof container	Virology, RIH	Negative	E.I.A. Test for Antigen	R = 24 hrs S = N/A	Test performed Monday - Friday

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
RPR (RAPID PLASMA REAGIN) See Comments for Reflexive Rule	RPR	RPR QUAL	86592	5 mL blood (Min) 3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Non-reactive	Flocculation	R = M-F	If RPR is reactive, RPR Quantitative (CPT 86593) and Fluorescent Treponema Antibody (FTA) (CPT 86781) are added and charged.
RSV ANTIBODY										See Respiratory Syncytial Virus Ab
RUBELLA IMMUNITY SCREEN (IgG)	RUBEL	RUBELLA SCREEN	86762	5 mL blood (Min) 3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	< 5 IU/mL Non Immune 5 - <10 IU/mL Equivocal 10 or greater - Immune	Chemiluminescence	R = M - F	Test to screen for immunity to Rubella Virus. A titer of >10 IU/mL is consistent with immunity to Rubella virus.
RUBELLA IGM	RUBM	RUB IGM	86762	5 mL blood (Min) 3 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report		R = 5-7 days	
RUBEOLA IgG ANTIBODY Titer	MEAG	MEASLES IGG	86765	3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	< 0.900 Negative 0.91 - 1.09 Equivocal ≥1.10 Positive Measured in REV (Relative Elisa Values)	Enzyme Immunoassay	R = M,W,F	Detectable levels of 1.10 or greater is consistent with immunity to measles.
RUBEOLA IgM ANTIBODY Titer	MEAM	MEA IGM AB	86765	3 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Immunofluorescence		Sent Out.
SACCHAROMYCES CEREVISIAE ANTIBODIES IgA and IgG	SACAB	SACCHAROMYCES IGA AND IGG	86671x2	5 mL Blood	Red Top Vac	Reference Lab (Quest)	See Report	ELISA		Sent out.
SALICYLATE	SALIC	SALICYLATE LEVEL	80196	5 mL blood (Min) 3 mL blood	Green Top Vac with Gel (Mint)	Chemistry	Therapeutic Range: 15.0 - 30.0 mg/dL	Colorimetric	R = 4 hrs. S = 1 hr.	Critical : >40.0 mg/dL (First incidence only) Monitoring not needed, except if overdose suspected, then any timing information provided will be useful.
SALMONELLA FEBRILE AGGLUTININS PANEL	SALAB									See Febrile Agglutinins
SCHISTOSOMIASIS AB	SCHT	SCHISTOSOM	86317	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	ELISA	R = 5-7 days	Sent out.
SCL-70 Extractable Nuclear Antigen (ENA) SCL-70	SCL70	EXT NCLR ANTG (ENA) SCL-70	86235	3 mL blood (Min) 1.0 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Negative : < 20 Units Weak Pos: 20-39 Mod Pos: 40-80 Strong Pos: ≥80	Enzyme Immunoassay	R = Weekly	
Scotch Tape Test	PINW	PARASIT ID PINWORM TAPE TEST	87172	Paddle collection kits or CLEAR Scotch tape on slides.No Frosted Tape!	Slide in envelope	Microbiology	Negative	Light Microscopy	R = 24 - 48 hrs.	Forwarded to State Lab. Press sticky side scotch tape to perianal area with tongue depressor (best done pre-bathing in early A.M) Remove tape and place on glass slide sticky side down. Cover with a second slide and transport in envelope to avoid contamination. M - F.
SECOBARBITAL	SECO	SECOBARBITAL	82491	5 mL blood (Min) 3 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 1.0 - 2.2 ug/mL	Gas Chromatography	R = M-Sat S = 6 hrs.	Toxic: >5.0 ug/mL
SED RATE WESTERNGREN	ESR	SED RATE or ESR	85651	3 mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Hematology	M: 0-10 mm/hr F: 0-20 mm/hr	Vesmatic Easy	R/S =60 min	
SELENIUM Tissue	TSE	T SELENIUM	80103 84255	Biopsy	Plastic Tube	Toxicology, RIH	0.1-0.7 ug/g dry weight	Fluorometric	R = Tu	Do not add liquid to container.
SELENIUM Blood	SE	SELENIUM	84255	5 mL blood (Min) 3 mL blood	Dark / Royal Blue Vac with Heparin	Toxicology, RIH	Ambulatory: 90-155 ug/L Surgical: 65-145 ug/L	Fluorometric	R = Tu	<b>Send as Whole Blood.</b> Zinc and Copper determination may be performed on same sample.
SELENIUM Urine 24 HR	USE	U SELENIUM 24HR	84255	24 hr urine	Clean plastic (2 L) urine container with 25 mL 6N HCL (Ped): 3-5 mL 6N HCL	Toxicology, RIH	0-300 ug/L	Fluorometric	R = Tu	Refrigerate sample during collection. Preservative should be added prior to collecting sample.
SELENIUM-Urine Random urine	USER	U SELENIUM RANDOM	84255	Random urine	Clean plastic (100 mL) urine container	Toxicology, RIH		Fluorometric	R = Tu	

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
SEROTONIN	SETO	SEROTONIN LEVEL	84260	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	HPLC, Fluorescence detection	R = 3-5 days	Sent out. Spin, separate and freeze within 2 hours of sample collection.
SERUM FOLATE	FOLAT	FOLATE SERUM	82746	5 mL blood	Red Top with Gel (Gold)	Chemistry, Core	2.6-20.0 ng/mL	Chemiluminescence	R = M - Sat.	
SERUM PROTEIN ELECTROPHORESIS See Comments for Reflexive Rules	SPEP	SPEP**	84165	5 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	TP = 6.3-8.3 g/dL Alb = 3.54-5.04 g/dL Alpha 1 = 0.10-.25 g/dL Alpha 2 = 0.57-1.04 g/dL Beta = 0.61-1.17 g/dL Gamma = 0.50-1.5 g/dL	Electrophoretic Separation of Proteins (SPE)	R = 5-7 days	If a new or cryptic paraprotein band and/or when there are changes to a previous known monoclonal, then an IFE (CPT 86334) and a Total Immunoglobulin Levels (IgG, IgM, IgA) (CPT 82784) are performed and charged. <b>If indicated, free Kappa/Lambda light chain ratio will be reflexed and charged.</b>
SERUM VISCOSITY	VISCO	VISCOSITY								See Viscosity Serum
SEX HORMONE BINDING GLOBULIN	SEXG	SEX HORMONE BINDING GLOB	84270	5 mL blood; (Min) 1 mL blood	Red Top with Gel (Gold)	Chemistry, Core	Males: Ages 21-55 17.3-65.8 nmol/L Females: Premenopausal 21 - 47 27.8 - 146.0 nmol/L Post menopausal 42-89 12.0 - 166.0 nmol/L	Chemiluminescence	R = M - F	This may be ordered individually or is included in both Bioavailable and Free Testosterone groups
SGOT (AST) Serum Glutamic Oxalacetic Transaminase										See AST
SGPT (ALT) Serum Glutamic pyruvic Transaminase										See ALT
SICKLE CELL PREPARATION See Comments for Reflexive Rule	SICK	SICKLE CELL	85660	3 mL blood	Lavender Top Vac	Special Hematology, RIH		Solubility	R = < 8 hrs. S = 3 hrs.	A positive result in a previously unknown patient is considered a critical. Reflexive Rule: If positive, Hemoglobin Electrophoresis (CPT 83020) and RBC Morphology (CPT 85008) are performed and charged. A CBC no Diff (CPT 85027) is reflexively ordered and billed when the Hemoglobin Electrophoresis is ordered. Routines performed in Sp. Heme, RIH, M-F until 4 PM. After hours Stats performed in Main Heme, RIH.
SIDEROBLAST STAIN			88313	Bone marrow smear	Bone Marrow	Special Hematology, RIH		Cytochemical	R = 24 hrs.	
SINEQUAN (Doxepin)	DOX	DOXEPIN AND DEMETHYLDOXEPIN	80166	10 mL blood (Min) 5 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic range: Doxepin + Desmethyldoxepin : 110-250 ng/mL	High Performance Liquid Chromatography	R = Tu & F S = 8 hrs.	Toxic: >500 ng/mL Desmethyldoxepin is performed on all requests for Doxepin. Performed Tu & F P.M
SINGLE STRAND DNA ANIBODY (IGG)	SSDNA	SINGLE STRAND DNA ANTIBODY	86226	3 mL Blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report	EIA		Send out as frozen serum.
SIROLIMUS (Rapamycin)	SIR	SIROLIMUS2	80195	3 mL Blood <b>Whole Blood</b>	Lavender Top Vac	Toxicology, RIH	Therapeutic Range: 15 ng/mL first yr; 5-10 ng/mL after first year	8-Chemiluminescent Microparticle Immunoassay (CMIA)	R = M,W,F S =3 hrs.	Toxic: > 25.0 ng/mL Call Toxicology @ 444-5858 to arrange for a Stat
SKIN ANTIBODIES	EPIDE		86256	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report		3-5 days	Also known as Skin antibodies, Pemphigoid antibodies and Skin basement membrane antibodies.
Skin Fungal Culture and smear	CXFNS	SKIN FUNGAL CULT AND SMEAR	87102 87206	Skin Scrapings, Scalp, Hair or Nails	Sterile leakproof Container	Microbiology	Negative	Culture for yeast and mold. Smear: calcaflour	R = 4 weeks S = N.A.	
Skin Surface Herpes Culture	CXHSK	SKIN SURFACE HERPES CULTURE	87252	Skin, mucosal. Can be multiple sites	Copan swab placed into UTM	Virology, RIH	Negative	Cell Culture for Herpes	R = 7 days S = NA	At RIH, UTM is available from Central, 444-6107. At TMH UTM supplied by Microbiology 793-4235 Varicella Culture done by request, TAT = 14 days

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
Skin Vesicle Culture	CXVES	SKIN VESICLE CULT FOR HSV	87252	Vesicle scrapings	Copan swab placed into UTM	Virology, RIH	Negative	Cell Culture for Herpes	R = 7 days S = N/A	At RIH, UTM is available from Central, 444-6107. At TMH UTM supplied by Microbiology 793-4235 Varicella Culture done by request, TAT = 14 days
SM ANTIBODY	SM	EXT NCLR ANTG (ENA) SM								See Anti-Smith Extractable Nuclear Antigen
SMA 7	GBCL1	Glu BUN Cr Electrolytes		5 mL Blood	Green Top Vac with Gel (Mint)	Chemistry	See Individual components	See Individual Components	R = 4 hrs S = 1 hr.	Group contains Glucose, BUN, Creatinine, Sodium, Potassium, Chloride, CO2, and Anion Gap.
SMOOTH MUSCLE ANTIBODY	non-orderable	non-orderable	86256					Indirect Immunofluorescence (IFA)	R = once a week	Non-orderable, Will be reflexed if the Anti Smooth Muscle Actin Ab is greater than 20.
SODIUM ( Na )	NA	NA	84295	4 mL blood	Green Top Vac with Gel (Mint)	Chemistry	135-145 mEq/L	Indirect ISE	R = 4 hours S = 1 hr.	Critical Values : Sodium > 150 mEq/L Sodium < 125 mEq/L
SODIUM 12hr Urine	UNA12	U SODIUM 12HR	84300	12 hr urine	Clean plastic (2 L) urine container	Chemistry		Indirect ISE	R = daily	Refrigerate specimen during collection.
SODIUM 24hr Urine	UNA24	U SODIUM 24HR	84300	24 hr urine	Clean plastic (2 L) urine container	Chemistry		Indirect ISE	R = daily	Refrigerate specimen during collection.
SODIUM Random Urine	UNAR	U SODIUM RANDOM	84300	Random spec	Clean plastic (100 mL) urine container	Chemistry		Indirect ISE	R = daily	
SOLUBLE IL2 RECEPTOR	VSOL	SOLUBLE IL2 RECEPTOR	84238	3 mL Blood	Red Top Vac	Reference Lab (Viracor)	See Report		R = 1 Week	
SOLUBLE LIVER ANTIGEN AUTOANTIBODY	SOLIV	SOLUBLE LIVER AUTOANTIBODY	83520	5 mL blood	Red Top with Gel (Gold) Vac	Reference Lab, (Quest)	See Report	ELISA		Sent out
SOMATOMEDIN-C (IGF-1)										See IGF-1
SOMATOSTATIN	SOMA	SOMATOSTATIN	84307	10 mL blood ON ICE.	2 Lavender Top Vac	Reference Lab (Quest)	See Report	RIA	R = 5-10 days	Sent out. <b>Upon receipt in lab, sample must be spun and frozen immediately.</b>
SPEP (Serum Protein Electrophoresis) See Comments for Reflexive Rules	SPEP	SPEP**	84165	5 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	TP = 6.3-8.3 g/dL Alb = 3.54-5.04 g/dL Alpha 1 = 0.10-.25 g/dL Alpha 2 = 0.57-1.04 g/dL Beta = 0.61-1.17 g/dL Gamma = 0.50-1.5 g/dL	Electrophoretic Separation of Proteins (SPE)	R = 5-7 days	If a new or cryptic paraprotein band and/or when there are changes to a previous known monoclonal, then an IFE (CPT 86334) and a Total Immunoglobulin Levels (IgG, IgM, IgA) (CPT 82784) are performed and charged. <b>If indicated, free Kappa/Lambda light chain ratio will be reflexed and charged.</b>
SPINAL FLUID										See individual test procedures. See also CSF listings
SPONTANEOUS NBT	SNBT	NOT ORDERABLE	86384	Finger Stick		Special Hematology, RIH	NBT < 5% Endo Stimulation > 25%	Cytochemical		Schedule by calling x 4-8342.
SPUTUM - TUMOR CELLS						Cytology				See Cytology Section.
Sputum AFB Culture and smear	CXAFB	SPUTUM AFB CULTURE/SM	87116 87206	Sputum (see comments), Bronch Wash, Bronch Brush Specify site	Sterile leakproof container	Microbiology	Negative	Semiautomated detection and smear	R=6 Weeks S=N/A	Critical Value: Positive 3 sputum specimens received within a 24 hour period, 2 of which should be 1st morning collections is recommended.
Sputum Culture and gram stain	CXSPT	SPUTUM CULT AND GS	87205 87070	Sputum (first morning preferred), Bronch Wash, Bronch Brush Specify site	Sterile leakproof container	Microbiology	Mixed Respiratory flora	Bacterial Culture, including yeast, gram stain	R=48 hrs S= N/A	The gram stain is used to determine the suitability of sputum for culture, and a culture credit is generated if the specimen is found to be unsatisfactory for further processing. Superficial specimens (epithelial ≥ polys) will not be processed. Unit notified.



TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
Sputum Cystic Fibrosis Culture and gram stain	CXCF	SPUTUM C FIBROSIS CULT AND GS	87070 87205	Sputum OR Throat	Sterile leakproof container or copan double swab	Microbiology	mixed respiratory flora	Bacterial culture including yeast and gram stain	R = 72HRS S = N/A	Gram stain not performed on throats.
Sputum Fungal Culture and smear	CXFUS	SPUTUM FUNGAL CULTURE/SMEAR	87102 87206	Sputum (first morning preferred), Bronch Wash, Bronch Brush Specify site	Sterile leakproof	Microbiology	Negative	Culture for yeast and mold. Smear: calcoflour	R = 4 weeks S = N.A.	Correlated with Respiratory Culture.
Sputum Legionella Culture	CXLEG	SPUTUM LEGIONELLA CULT	87081	Sputum (first morning preferred), Bronch Wash, Bronch Brush Specify site	Sterile leakproof container	Microbiology	Negative	Culture for Legionella	R = 2 weeks S = N.A.	Legionella Urinary Antigen test is preferred.
Sputum PCP DFA	DFPCP	SPUTUM INDUCED PCP DFA	87281	Induced Sputum only	Sterile leakproof container	Virology, RIH	Negative	DFA Stain	R = 4 hrs. S = 2 hr.	Critical Value: Positive. Available M-F, AM shift only.
Sputum Viral Cultue	CXVIR	SPUTUM VIRAL CULT	87252	Sputum	Sterile Leakproof container	Virology, RIH	Negative	Spin amplified detection for Influenza A, B, Para I, II, III, RSV, Adenovirus and HSV I & 2	R =48 hours S = N/A	
SSA Extractable Nuclear Antigen (ENA) SSA	SSA	EXT NCLR ANTG (ENA) SSA	86235	3 mL blood (Min) 1.0 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Negative : < 20 Units Weak Pos: 20-39 Mod Pos: 40-80 Strong Pos: ≥80	Enzyme Immunoassay	R = Weekly	Also known as Anti-RO
SSB Extractable Nuclear Antigen (ENA) SSB	SSB	EXT NCLR ANTG (ENA) SSB	86235	3 mL blood (Min) 1.0 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Negative : < 20 Units Weak Pos: 20-39 Mod Pos: 40-80 Strong Pos: ≥80	Enzyme Immunoassay	R = Weekly	Also known as Anti-LA
ST. LOUIS ENCEPHALITIS VIRUS Titers	ARIM1	ARBOVIRUS IGM AB PANEL	86651 86652 86653 86654	5 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report		R =14 days	Includes St. Louis, EEE, WEE and CAE. Sent to Focus via Quest
STONE RENAL	CALCU	CALCULUS	82355	Calculus	Plastic container	Reference Lab (Quest)	See Report	Chemical	R = Weekly	Indicate source of stone. Sent out.
Stool C Difficile Toxin PCR	CDPCR	STOOL C DIFFICILE TOXIN PCR	87324	Stool	Clean container only. <b>No Preservative</b>	Virology, RIH	Negative	PCR	R = 24 hrs.	Formalin stool unacceptable. Clean vial only. The first incidence of a positive result is treated as a critical. Positives not repeated for 7 days. Inpatient orders within 3 days of a negative result will be canceled by SMS.
Stool Culture	CXSTO	STOOL CULT SALM SHIG CAMPY	87045 87046	Stool	Carey Blair Transport Medium available from Stores Item#115532	Microbiology	mixed fecal flora	Stool culture for Salmonella, Shigella, Campylobacter	R = 2 days S = N.A.	<b>All enteric pathogens on Inpatients are critical values.</b> Stools routinely cultured for Salmonella, Shigella, and Campylobacter only. Other pathogens such as E. coli 0157, Yersinia, Vibrio etc. should be ordered separately. Stool culture may be ordered once / day for up to 3 consecutive days, after the third hospital day, authorization is required. <b>For diagnosis of gastroenteritis, a sample should be submitted on 3 consecutive days.</b>
STOOL CYCLOSPORA ISOSPOORA STN	SCYCLO	CYCLOSPORA/ISOSPOORA STN	87206	Stool	Total Fix Vial	Reference Lab (Quest)	Negative	Smear	R = 72 hrs. S = N/A	Sent out. Refrigerate sample.

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
Stool E Coli O157H7 Culture	CXECO	STOOL E COLI O157H7 CULT	87046	Stool	Carey Blair Transport Medium available from Stores Item#115532	Microbiology	Negative	Culture to R/O EC O157 only	R= 48 HRS S= N.A.	This is performed on request, automatically performed on Bloody specimens
STOOL FECAL LEUKOCYTE STAIN	FECAL	STOOL FECAL LEUKOCYTE STAIN	87205	Stool	Sterile leakproof	Hematology	No wbc	Microscopic exam	R = 4 hrs. S = N/A	
Stool Giardia Cryptosporidium EIA	GIARD	STOOL GIARDIA AND CRYTO AG	87272	Stool	Total Fix	Molecular Microbiology Coro	Negative	EIA test for antigen	R = M-F	Collection kits available in Stores. Item #119480
STOOL OVA AND PARASITE SCREEN										See Ova and Parasites
Stool Rotavirus	RROTA	STOOL ROTAVIRUS ELISA	87425	Stool	Sterile leakproof container	Virology, RIH	Negative	E.I.A. Test for Antigen	R = 24 hrs S = N/A	During Rotavirus season, available 7 days a week, otherwise available M - F
Stool Vibrio Culture	CXVIB	STOOL VIBRIO CULT	87046	Stool	Carey Blair Transport Medium available from Stores Item#115532	Microbiology	Negative	Culture to R/O Vibrio only	R = 48HRS S = N/A	
Stool Viral Culture	CXVIR	STOOL VIRAL CULT	87252	Stool	Sterile leakproof container	Virology, RIH	Negative	Spin amplified detection for Adenovirus	R = 48 hrs S = N/A	
Stool Yersinia Culture	CXYER	STOOL YERSINIA CULT	87046	Stool	Carey Blair Transport Medium available from Stores Item#115532	Microbiology	Negative	Culture to R/O Yersinia only	R = 48HRS S = N/A	
Strep Antigen (Rapid Strep)	RSTRA	THROAT RAPID STREP A ANTIGEN	87430	Throat swab	Copan Double Swab	Microbiology	Negative	Antigen screen	R/S = 2 hr.	
STREPTOLYSIN - O	ASO	ANTI STREPTOLYSIN O TITER	86060	5 mL blood (Min)1 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	0-5 yrs= <125 IU/mL 5-20 yrs= <250 IU/mL 20+ over= <125 IU/mL	Nephelometry	R = M - F	
STRONGYLOIDS	STRON	STRONGYLOIDS	86682	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Enzyme Linked Immunosorbent Immunoassay	R = 10-15 days	Sent out.
SUBSTANCE P	SUBP	SUBSTANCE P	83520	10 mL blood (10 hr fasting)	Red Top Vac x2	Reference Lab (Quest)	See Report	EIA	R = 3-5 days	Sent out. Freeze serum in two distinct tubes as soon as possible.
SUDAN BLACK B			88319	Peripheral blood or bone marrow	Bone Marrow Syringe or Lavender Top Vac	Special Hematology, RIH		Cytochemical	R = 24 hrs.	
SULFONAMIDES	SULAM	SULFONAMIDE LEVEL	84311	5 mL blood (Min) 3 mL blood	Red Top Vac	Reference Lab, (AML)	See Report	Colorimetric	R = 2-3 days	Toxic > 20 mg/dL
SULFONYL UREA SCREEN	SULF	SULFONYL	82491	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	HPLC	R = 7-10 days	Includes: Chlorpropamide, Tolazamide, Tolbutamide, Glipizide, Glyboride, Acetohexamide. Sent out.
SWEAT TEST (IONTOPHORESIS)			82435	Sweat	Collected by Lab	Chemistry, RIH	Reported as mEq/L of Chloride Normal : 0-40 Gray area : 41-70 Abnormal : > 70	Pilocarpine Induced Sweat. Shales & Shales titration.		Schedule by calling Chemistry, RIH 444-5886
SYNOVIAL CRYSTAL ANALYSIS	SYCRY	SYNOVIAL CRYSTALS	89051 89060	Synovial fluid	Lavender Top Vac	Urinalysis		Chamber Count, Cytospin, Wright's Stain	R = < 5 hrs. S = 1 hr.	A cell count, differential and a crystal analysis will be performed on all synovial crystal analysis requests.
SYNOVIAL FLUID ANALYSIS	SYALY	SYNOVIAL ANALYSIS	89051 89060	Synovial fluid	Lavender Top Vac	Urinalysis		Chamber Count, Cytospin, Wright's Stain	R = < 5 hrs. S = 1 hr.	A cell count, differential and a crystal analysis will be performed on all synovial fluid analysis requests.

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
T Cell Antigen Receptor Beta Gene Rearrangement by PCR (TCR beta by PCR)	TCRBP	TCR B PCR	81340 G0452	3 mL <b>whole blood</b> or tissue biopsy	Lavender Top Vac	Clinical Molecular Biology, RIH	Negative	PCR	R = 2-4 days	Test performed M - F. See CSF or Bone Marrow IgH PCR, if applicable.
T Cell Antigen Receptor Gamma Gene Rearrangement by PCR (TCR gamma by PCR)	TCRGP	TCR G PCR	81342 G0452	3 mL <b>whole blood</b> or tissue biopsy	Lavender Top Vac	Clinical Molecular Biology, RIH	Negative	PCR	R = 2-4 days	Test performed M - F. See CSF or Bone Marrow IgH PCR, if applicable.
T Cell Panel Limited (Markers CD3, CD4, CD8)	TCELP	T CELL CD4 PANEL	86359 86360	3 mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Special Hematology, RIH		Flow Cytometry	R = < 24 hrs.	Tests Performed -Th : 8:00 AM -4:00 PM Fri.: 8:00 AM - 1:00 PM <b>Samples must not be collected after 9 AM on Fridays @ TMH and 11 AM @ RIH. Samples must be received in the Special Hematology lab at RIH by Noon.</b> <b>Client must order CBC/Diff also to have T Cell Panel performed. CBC billed separately.</b>
T Cell Panel (Markers CD3, CD4, CD8, CD19, CD56)	TCELL	T CELL COMPLETE PANEL	86355 86357 86359 86360	3 mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Special Hematology, RIH		Flow Cytometry	R = < 24 hrs.	Tests Performed -Th : 8:00 AM -4:00 PM Fri.: 8:00 AM - 1:00 PM <b>Samples must not be collected after 9 AM on Fridays @ TMH and 11 AM @ RIH. Samples must be received in the Special Hematology lab at RIH by Noon.</b> <b>Client must order CBC/Diff also to have T Cell Panel performed. CBC billed separately.</b>
T3 TOTAL	T3	T3 TOTAL	84480	4 mL blood	Red Top with Gel (Gold)	Chemistry, Core	80-180 ng/dL	Chemiluminescence	R = M-Sat	
T3 UPTAKE	T3UPQ	T3 UPTAKE SO	84479	4 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report	Immunoassay	2-3 days	
T4 TOTAL	T4	T4 TOTAL	84436	4 mL blood	Red Top with Gel (Gold)	Chemistry, Core	4.5-10.9 µg/dL	Chemiluminescence	R = M - Sat	Critical Values : > 18.0 ug/dL 2.0 ug/dL T4 T4 <
TACROLIMUS (FK506) ( Prograf )	TAC1	TACROLIMUS2	80197	3mL blood <b>Whole Blood required</b>	Lavender Top Vac	Toxicology, RIH	Therapeutic Range: 5.0 - 20.0 ng/mL	Chemiluminescent Microparticle Immunoassay (CMIA)	R = M - Sat. S = 3 hrs	Call Toxicology @ 444-5858 to arrange for a Stat.
TARTRATE RESISTANT ACID PHOSPHATASE (TRAP)			88319	Bone Marrow or EDTA Blood		Special Hematology, RIH		Cytochemical	R = 24 hrs.	Call x 4-8342 to schedule.
TB Culture and smear	CXAFB	See AFB order options based on specimen source	87116 87206	Fluid, tissue, or abscess only	Sterile leakproof container	Microbiology	Negative	Semiautomated detection and smear	R=6 Weeks S=N/A	Swab specimens will be rejected. Tissues should be received in a sterile cup with a drop of sterile saline
TBG by RIA (Thyroxine Binding Globulin)	TBG	THYROXINE BINDING GLOBIN	84442	5 mL blood (Min) 2 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	RIA	R = 3-5 days	Sent out.
TCR B PCR T Cell Receptor Beta Gene Rearrangement by PCR	TCRBP	TCR B PCR	83898 83890 83894 83912	3 mL <b>whole blood</b> or tissue biopsy	Lavender Top Vac	Clinical Molecular Biology, RIH	Negative	PCR	R = 2-4 days	Test performed M - F. See CSF, Body Fluid or Bone Marrow IgH PCR, if applicable.
TCR G PCR T Cell Receptor Gamma Gene Rearrangement by PCR	TCRGP	TCR G PCR	83898 83890 83894 83912	3 mL <b>whole blood</b> or tissue biopsy	Lavender Top Vac	Clinical Molecular Biology, RIH	Negative	PCR	R = 2-4 days	Test performed M - F. See CSF or Bone Marrow IgH PCR, if applicable.
TdT Stain			88347	Bone marrow or EDTA Blood	Bone Marrow or Lavender Top Vac	Special Hematology, RIH	Negative	Flow Cytometry	R = 24 hrs.	

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
TEGRETOL (Carbamazepine)	CARBA	TEGRETOL LEVEL	80156	5 mL blood	Green Top Vac with Gel (Mint)	Chemistry	Therapeutic Range: 8-12 ug/mL single drug 4-8 ug/mL multiple drug	PETINIA	R = 4 hrs. S = 1 hr.	Critical Value: > 15 ug/mL. First Incidence only Carbamazepine Peak : 1 - 5 hours Trough : immediately before next dose represents the most reliable value for dose rate adjustments.
TEICHOIC ACID AB Qualitative	TEICA	TEICHOIC ACID	86329	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Immunodiffusion	R = 5-7 days	Sent out.
TEMAZEPAM	TEMAZ	TEMAZEPAM	80154	5 mL blood (Min) 3 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 0.4-0.9 ug/mL	High Performance Liquid Chromatography	R = Weekly S = 8 hrs.	Toxic >5.0 ug/mL
TESTOSTERONE, BIOAVAILABLE										See Bioavailable Testosterone
TESTOSTERONE (FREE)										See Free Testosterone
TESTOSTERONE (TOTAL)	TSTOS	TESTOSTERONE TOTAL	84403	5 mL blood	Red Top with Gel (Gold)	Chemistry, Core	Adult male: 270 - 1070 ng/dL Adult female: 14-76 ng/dL	Chemiluminescence	R = M-Sat	This may be ordered individually or is included in both Bioavailable and Free Testosterone groups
TETANUS TITER (Anti-Toxoid)	TETAN	TETANUS TI	86774	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	EIA	R = 5-7 days	Sent out.
TFT TSH Reflex Panel See Comments for Reflexive Rule	TSHR3	3rd GN TSH REFLEX	84443 84439* 84430*	4 mL blood	Red Top with Gel (Gold)	Chemistry, Core	0.35 - 5.5 uIU/mL	Chemiluminescence	R = M - Sat	Reflexive Rule : If 3rd Gen TSH <0.35 uIU/mL , then Free T4 and Total T3 will be ordered and billed. If 3rd Gen TSH > 5.5 uIU/mL, Free T4 will be ordered and billed.
TG (THYROGLOBULIN)										See Thyroglobulin
THALLIUM 24 HR URINE	UTL	U THALLIUM 24HR	83018	24 hr urine	Clean plastic (2 L) urine container with 25 mL 6N HCL (Ped): 3-5 mL 6N HCL	Toxicology, RIH	0 - 10 ug/24 hr.	Atomic Absorption	R = Fri. (Biweekly)	Refrigerate sample during collection. Preservative should be added prior to collecting sample.
THALLIUM RANDOM URINE	UTLR	U THALLIUM RANDOM	83018	Random urine	Clean plastic (100 mL) urine container	Toxicology, RIH		Atomic Absorption	R = Fri. (Biweekly)	
THEOPHYLLINE (Aminophylline)	THEO	THEOPHYLLINE	80198	5 mL blood	Green Top Vac with Gel (Mint)	Chemistry	Therapeutic range: 10-20 ug/mL	PETINIA	R = 4 hrs. S = 1 hr.	Critical: > 30 ug/mL (First incidence only) Once dosing intervals have been consistent for 48 hours, peak serum levels should be obtained 2 hours after the administration of rapid release formulations or 4 hours after slow release formulations.
Thermoactinomyces Vulgaris Ab	THERM	THERMOPHILE PANEL	86331	3 mL Blood	Red Top Vac	Reference Lab (Quest)	See Report		R = 14 days	
THIAMINE (Vitamin B1)	VITB1	VIT B1	84425	3 mL blood Protect from light	Lavender Top Vac	Reference Lab (Quest)	See Report	HPLC	R = T & Th	Sent out. Freeze sample and protect from light.
THIOCYANATE	SCN	THIOCYANATE	84430	5 mL blood (Min) 3 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: Nitroprusside Therapy: 5.5 - 29.0 ug/mL Non-smoker: 0-3 ug/mL Smoker: 6-9 ug/mL	Spectrophotometry	R = M-Sat S = 3 hrs.	Toxic: > 100 ug/mL.
THIORIDAZINE (Mellaril)	TRZNE	THIORIDAZINE	84022	5 mL blood (Min) 3 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 100-2600 ng/mL	High Performance Liquid Chromatography	R = Tu & F S = 8 hrs.	Toxic: > 5,000 ng/mL
THIOXIXENE	THIOX	THIOXIXENE	82491	10 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	HPLC	R = 7-9 days	Sent out.
THORAZINE (CHLORPROMAZINE)	CPROM	CHLORPROMAZINE	84022	5 mL blood (Min) 3 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic range: 10-500 ng/mL.	High Performance Liquid Chromatography	R = Tu & F S = 8 hrs.	Toxic: >1,000 ng/mL

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
Throat Chlamydia Probe	THRCT	THROAT CHLAMYDIA PROBE	87491	Throat swab	Gen - Probe Collection Kit available from Stores <b>Specimen must be placed in tube prior to delivery to laboratory.</b>	Molecular Microbiology Coro	Negative	Transcription Mediated Amplification (TMA)	R = M-F	Critical Value: Positive results on patients <14. Blue swab should be submitted in Gen-Probe collection kit for analysis. (Silver foil topped containers)
THROAT CULTURE										Replaced by Throat : Group A DNA Probe (direct hybridization).
Throat Gonorrhea Probe	THRCG	THROAT GC PROBE	97591	Throat swab	Gen - Probe Collection Kit available from Stores <b>Specimen must be placed in tube prior to delivery to laboratory.</b>	Molecular Microbiology Coro	Negative	Transcription Mediated Amplification (TMA)	R = M-F	Critical Value: Positive results on patients <14. Blue swab should be submitted in Gen-Probe collection kit for analysis. (Silver foil topped containers)
Throat Group A Strep Probe	GASPR	THROAT GROUP A DNA PROBE	87650	Throat Swab	Copan Double Swab	Molecular Microbiology, Coro	Negative	Direct hybridization	R= 24 hours	Test performed M-F and once during the weekend
Throat Rapid Strep Antigen	RSTRA	THROAT RAPID STREP A ANTIGEN	87430	Throat swab	Copan Double Swab	Microbiology	Negative	Antigen screen	R/S = 2 hr.	
Throat Trichomonas Probe	THRTV	THROAT TRICHOMONAS PROBE	87798	Throat swab	Gen - Probe Collection Kit available from Stores <b>Specimen must be placed in tube prior to delivery to laboratory.</b>	Molecular Microbiology Coro	Negative	Transcription Mediated Amplification (TMA)	R = M-F	Critical Value: Positive results on patients <14. Blue swab should be submitted in Gen-Probe collection kit for analysis. (Silver foil topped containers)
Throat Viral Culture	CXVIR	THROAT VIRAL CULT	87252	Throat Swab	Copan swab placed into UTM	Virology, RIH	Negative	Spin amplified detection for Influenza A, B, Para I, II, III, RSV, Adenovirus and HSV I & 2	R =48 hours S = N/A	At RIH, UTM is available from Central 444-6107 At TMH,UTM supplied by Microbiology 793-4235 During Enterovirus season, TAT will be 5 days. Lab must be notified.
THROMBIN TIME	THROM	THROMBIN TIME	85670	2.7 mL blood	Blue Top Vac	Coagulation	18 - 24 seconds	Clottable	R = < 4 hrs. S = Š 1 hr.	Tube must contain at least 2.7 mL of blood to ensure accuracy.
THYROGLOBULIN	TG	THYROGLOBULIN TG	84432	5 mL blood	Red Top with Gel (Gold)	Chemistry, Core	1 - 35 ng/mL	Immunochemiluminescence	R = Monday	Thyroid Ab (Thyroglobulin autoantibodies) must be performed and is included with all Thyroglobulin requests. Freeze immediately after spinning.
THYROGLOBULIN AUTOANTIBODIES	TGAB	THYROGLOBULIN AUTOANTIBODIES	86800	5 mL blood	Red Top with Gel (Gold)	Chemistry, Core	0 - 60 IU/mL	Immunochemiluminescence	R = M,Th	Freeze immediately after processing.
THYROID PANEL TSH Reflex Panel See Comments for Reflexive Rule	TSHR3	3rd GN TSH REFLEX	84443 84439* 84430*	4 mL blood	Red Top with Gel (Gold)	Chemistry, Core	0.35 - 5.5 uIU/mL	Chemiluminescence	R = M - Sat	Reflexive Rule : If 3rd Gen TSH <0.35 uIU/mL , then Free T4 and Total T3 will be ordered and billed. If 3rd Gen TSH > 5.5 uIU/mL, Free T4 will be ordered and billed.
THYROID STIMULATING HORMONE (3rd Generation)	TSH3G	3RD GN TSH	84443	4 mL blood (Min) 3 mL blood	Red Top with Gel (Gold)	Chemistry, Core	0.350-5.500 µIU/mL	Chemiluminescence	R = M - Sat	
THYROID STIMULATING IMMUNOGLOBULIN (TSI)	TSI	THYROID STIMULATING IMMUNOGLOB	84445	10 mL blood	Red Top Vac	Reference Lab (Quest)	See Report.	In Vitro Bioassay, RIA	R = 3-5 days	Sent out.

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
THYROTROPIN BINDING INIHB IgG	TBII	THYROTROPIN BINDING INIHB IgG		5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report.		R = 5-7 days	Sent out. Set up on Tuesday and Friday mornings.
THYROXIN, FREE	FT4	FREE T4								See Free T4
THYROXINE BINDING GLOBULIN (TBG)										See TBG by RIA
Tissue AFB Culture and Smear	CXAFB	TISSUE AFB CULT AND SMEAR	87116 87206	Tissue	Sterile leakproof container	Microbiology	Negative	Semiautomated detection and smear	R = 6 Weeks S = N/A	Critical Value: Positive Tissues should be received in a sterile cup with a drop of sterile saline
TISSUE Chromosome			88230	3 mm(3) minimum	In sterile saline	Reference Lab (Quest)	Male: 46,XY Female: 46,XX	According to Moorhead et al., 1960		Tissue must be sterile. See Chromosome Study Tissue/Tumor
Tissue CMV Spin Amplified Culture	CXCMT	TISSUE CMV SPIN AMPLIFIED CULTURE	87254	Tissue	Sterile leakproof container	Virology, RIH	Negative	Spin amplified Cell Culture for CMV	R =48 hours S = N/A	Results available 48 hrs, M - F.
Tissue Culture and smear	CXANA	TISSUE ANAER AEROBIC C AND GS	87075 87205	Tissue	Sterile leakproof container	Microbiology	Negative	Aerobic, Anaerobic, Yeast Culture and gram stain	R = 5 DAYS S = N/A	
Tissue Fungal Culture and Smear	CXFUS	TISSUE FUNGAL CULT AND SMEAR	87102 87206	Tissue	Sterile leakproof container	Microbiology	Negative	Culture for yeast and mold. Smear: calcoflour	R = 4 weeks S = N.A.	Tissues should be received in a sterile cup with a drop of sterile saline. Specimens received on swabs are unacceptable
TISSUE METAL ANALYSIS										Call ext. 4-5858 for sample handling.
TISSUE TRANSGLUTAMINASE IgA by EIA	TTG	TISS TRANSGLUTAMINASE BY EIA		5 mL Blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Negative	EIA	R=M,T,Th & F	Negative : <20 Weak Pos. : 20 - 30 Mod. to Strong Pos: >30
Tissue Viral Culture	CXVIR	TISSUE VIRAL CULT	87252	Tissue: Autopsy / biopsy specimens (liver, lymph node), lung tissue	Sterile leakproof container	Virology, RIH	Negative	Spin amplified detection for Influenza A, B, Para I, II, III, RSV, Adenovirus and HSV I & 2	R =48 hours S = N/A	If looking for Enterovirus, the lab must be called and notified.
TITER - ANTIBODY BLOOD BANK			86886	6 mL blood	Pink Plastic Vac	Blood Bank		Tube Test or Gel Test	R = 3-4 hrs.	Critical values for prenatal patients depending on antibody.
TOBRAMYCIN LEVEL	TOBPR TOBPO TOBRA	TOBRA (PRE) TOBRA (POST) TOBRA (RAND)	80200	5 mL blood (Min) 3 mL blood	Green Top Vac with Gel (Mint)	Chemistry, RIH	1-2 ug/mL (Tobra-Pre) 5-10 ug/mL (Tobra-Post)	PETINIA	R = daily	Tobra (Pre) Toxic: > 2 µg/mL Tobra (Post) Toxic: > 10 µg/mL Tobra (Rand) Toxic: > 10 µg/mL Draw blood prior to antibiotic dose. Label "pre". Draw a second sample 40-60 min. after IV administration of antibiotic is finished. Label post.
TOCAINIDE	TOC	TOCAINIDE	82491	5 mL blood (Min) 3 mL blood	Red Top Vac	TOXI	See Report	Gas Chromatography		Sent out.
TOFRANIL (IMIPRAMINE)	IMIP	IMIPRAMINE + DESIPRAMINE	80160 80174	5 mL blood (Min) 3 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range Total: Imipramine plus Desipramine: 150-250 ng/mL	High Performance Liquid Chromatography	R = Tu & F S = 8 hrs.	Toxic: > 500 ng/mL Desipramine is performed and charged on all Imipramines.
TOPAMAX (TOPIRAMATE)	TOPA	TOPAMAX	80201	5 mL Blood	Red Top Vac	Reference Lab (Quest)	See Report	FPI		Sent out
TORCH Titers	See Comments	See Commets	See Individual Assays	Mother: 5 mL blood Infant: 3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core and Reference Lab (Quest)	See Individual Assays	Indirect Immunofluorescence (IFA), Chemiluninescence, and Enzyme Immunoassay	R = once per week	Torch titers should not be ordered as a group, the individual components must be ordered. Torch titers should not be performed w/o blood from the mother. Components include : <b>Toxoplasma:</b> (IgG, IgM), Cytomegalo:(IgG, IgM) <b>Rubella:</b> (IgG, IgM); <b>Herpes Simplex</b> Type I & II IgG and <b>HSV</b> IgM Screen..
TOTAL PROTEIN	TP	TOTAL PROTEIN	84155	4 mL blood	Green Top Vac with Gel (Mint)	Chemistry	6.0 - 8.0 g/dL	Biuret	R = 4 hrs. S = 1 hr.	Critical Values Total Protein <4.0 g/dL or >12.0 g/dL

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
TOTAL THYROXINE T4										See T4 Total
TOXICARA CANIS AB (Visceral Larvae Migrans)	TOXO	TOXOCARA AB	86682	5 mL blood (Min) 3 mL blood	Red Top Vac (no gel)	Reference Lab (Quest)	See Report	ELISA		Sent out.
TOXOPLASMA IGM Titers	TOXOM	TOXO IGM	86778	5 mL blood (Min) 3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Toxo IgM < 1:8	Indirect Immunofluorescence (IFA)	R = once a week	
TOXOPLASMA IGG Titers	TOXOG	TOXO IGG	86777	5 mL blood (Min) 3 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	Toxo IgG < 1:6	Indirect Immunofluorescence (IFA)	R = once a week	
TRANSCORTIN (Cortisol Binding Glob)										See CBG (Cortisol Binding Globulin)
TRANSFERRIN	TRANS	TRANSFERRIN	84466	5 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	202-336 mg/dL	Nephelometry	R = M - F	
TRANSFERRIN SATURATION	TSAT	NOT ORDERABLE	NA*	NA	NA	Chemistry	15-50%	Calculation	R=Daily	Transferrin Saturation is a calculation utilizing both the Iron and TIBC. If Transferrin Saturation is ordered, both an Iron (83540) and a TIBC (83550) will be performed and billed.
TRANSFUSION REACTION WORK-UP	POSA1	TRANSFUSION REACTION WU RIH		6 mL blood	Pink Plastic Vac	Blood Bank		Gel Test	S = 45-120 min.	Follow instructions on back of transfusion slip.
TRANSPLANT WORKUP- PATIENT BONE Marrow or STEM CELL	HLATP	HLA TRANSPLANT PATIENT	86813 86817 86807	See Comments	Call Blood Bank	Blood Bank sends to RIBC	See Report	See Report	R = 6-12 days	Call Blood Bank for Requisition and tubes. Draw Monday, Tuesday, Wednesday or Thursday only in early AM. Once collected, send samples to the Blood Bank. Phlebotomist must write their first initial and complete last name on label, as with other Blood Bank samples. Keep at Room Temperature.
TRANXENE	TRANX	TRANXENE	80154	5 mL blood (Min) 3 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 0.1-1.5 µg/mL as NORDIAZEPAM	High Performance Liquid Chromatography	R = Weekly S = 8 hrs.	Toxic: > 5 µg/mL
TRAZODONE (Desyrel)	TRAZ	TRAZODONE	82491	5 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 0.8 - 1.6 ug/mL	High Performance Liquid Chromatography	R = Weekly S = 8 hrs.	Toxic: > 5 µg/mL
TREPONEMA AB	TREPA	TREPONEMA AB	86781	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	IFA	R = 2-5 days	Sent to Focus via Quest
TRF CHALLENGE										Call Ext 4-8152 to schedule and for assistance.
TRICHINOSIS AB	TRIAB	TRICHINELLA AB	86784 X3	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Enzyme Linked Immunosorbent Immunoassay	3-5 days	Sent out.
TRIGLYCERIDE	TRIG	TRIGLYCERIDES	84478	4 mL blood	Green Top Vac with Gel (Mint)	Chemistry, Core	Desirable: <150 mg/dL Borderline: 150-199 mg/dL High: >199 mg/dL	Oxidation of L-Alpha- Glycerophosphate @ 37°C	R = Daily	Patient should be fasting 12 hours prior to sample being collected.
TRIIODOTHYRONINE *FREE	FT3	FREE T3								See Free T3
TRIIODOTHYRONINE TOTAL	T3	T3 TOTAL								See T3 Total
TRILEPTAL (Oxcarbazepine)	OXCAR	OXCARBAZEPINE LEVEL	82491	5 mL Blood	Red Top Vac	Reference Lab, (AML)	See Report		R= 5-7 days	
TRIMPRAMINE	TIMP	TRIMPRAMINE	82491	5 mL blood (Min) 3 mL blood	Red Top Vac	TOXI	See Report	High Performance Liquid Chromatography	R = 2-3 days	Toxic: >450 ng/mL
TROPHYRYMA WHIPPLEI DNA BY PCR	WHIPP	WHIPPLE DIS PCR								See Whipples Disease
Troponin I	TROP	TROPONIN I	84484	5 mL blood	Green Top Vac with Gel (Mint)	Chemistry	0-0.15 ng/mL - Negative	Chemiluminesence	R = 2 hrs S = 1 hr	If sample is collected with other routine Chemistry testing, a second Green top tube with gel should be submitted.

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
TRYPsin	TRYP	TRYPsin LEVEL	83519	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report.	RIA	R = 7-10 days	Sent out. Ship Frozen
TRYPsinOGEN	TRYP0	TRYPsinOGEN	83519	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report.	RIA	R = 7-10 days	Sent out. Code 65552 Ship Frozen
TRYPtase	TRYPt	TRYPtase	83519	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report.	Fluorezyme Immunoassay	R = 3-5 days	Sent out.
TRYPtOPHAN	TRP	TRYPtOPHAN	82131	3 mL blood	Green Top Vac	Reference Lab (Quest)	Normal values are age dependent.		R = 2-4 days	
TSH REFLEX TSH Reflex Panel	TSHR3	3rd GN TSH REFLEX	84443 84439* 84430*	4 mL blood	Red Top with Gel (Gold)	Chemistry, Core	0.35 - 5.5 uIU/mL	Chemiluminescence	R = M - Sat	Reflexive Rule : If 3rd Gen TSH <0.35 uU/mL , then Free T4 and Total T3 will be ordered and billed. If 3rd Gen TSH > 5.5 uU/mL, Free T4 will be ordered and billed.
TSH, 3RD GENERATION TSI Thyroid Stimulating Immunoglobulin	TSH3G TSI	3RD GN TSH THYROID STIMULATING IMMUNOGLOB	84443	4 mL blood (Min) 3 mL blood	Red Top with Gel (Gold)	Chemistry, Core	0.350-5.500 uU/mL	Chemiluminescence	R = M-Sat	See Thyroid Stimulating Immunoglobulin
TTG - IgA TULAREMIA	TTG TULAR	TISS TRANSGLUTAMINASE BY EIA		5 mL Blood	Red Top with Gel (Gold)	Clinical Immunology, Core	< 20 units	EIA	R= M,T,Th & F	See Francisella
TYPE and CROSSMATCH See Comments for Reflexive Rule	TSG *RC	TYPE & CROSS WILL BE DELETED FROM SMS : ORDER TYPE AND SCREEN and CROSSMATCH RED CELLS	86900 86901 86850 86920 86921 86922	Adults : 6 mL blood Whole Blood Required Pediatrics : 3 mL blood	Adults : Pink Plastic Vac Pediatrics: lavender or red top vac	Blood Bank	Negative Screen	Gel Test	R = 80-120 min. S = 45-60 min.	Reflexive Rule : A Positive Antibody Screen may reflex an Antibody Identification, Special Typing, and/or a direct Coombs Test (DAT) depending on when the last one was done. Note : Specimen drawn from patient will be held for 72 hours. No blood will be crossmatched nor held on call unless requested within those 72 hours.
TYPE and SCREEN See Comments for Reflexive Rule	TSG	TYPE AND SCREEN RIH TMH	86900 86901 86850	Adults : 6 mL blood Whole Blood Required Pediatrics : 3 mL blood	Adults : Pink Plastic Vac Pediatrics: lavender or red top vac	Blood Bank	Negative Screen	Gel Test	R = 80-120 min. S = 45-60 min.	Reflexive Rule : A Positive Antibody Screen may reflex an Antibody Identification, Special Typing, and/or a direct Coombs Test (DAT) depending on when the last one was done. Note : Specimen drawn from patient will be held for 72 hours. No blood will be crossmatched nor held on call unless requested within those 72 hours.
TYPHUS and ROCKY MOUNTAIN SPOTTED FEVER ANTIBODIES	RICKE	TYPHUS and RMSF IgG and IgM	886757x4	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	IFA	R = 3-5 days	Sent out. Includes both IgG and IgM to both Typhus and RMSF
UNFRACTIONATED HEPARIN ANTI Xa	AXA	ANTI Xa								See Anti Xa
uKnow Peanut Molecular Comp	PEACO	uKnow Peanut Molecular Comp	86003x5	5 mL Blood	Red Top Vac with Gel (Gold)	Reference Lab (Quest)	See Report		R = 3-5 days	
UREA NITROGEN (BUN)	BUN	BUN	84520	4 mL blood	Green Top Vac with Gel (Mint)	Chemistry	6-24 mg/dL	Urease	R = 4 hrs. S = 1 hr.	Call Values: BUN > 65 mg/dL(first time only)
UREA NITROGEN (BUN) 12 hr urine	UUN12	U UREA 12HR	84540	12 hr urine	Clean plastic (2 L) urine container	Chemistry		Urease	R = daily	Refrigerate specimen during collection.
UREA NITROGEN (BUN) 24 hr urine	UUN24	U UREA 24HR	84540	24 hr urine	Clean plastic (2 L) urine container	Chemistry	6 - 14 gm/24 hr	Urease	R = daily	Refrigerate specimen during collection.
UREA NITROGEN (BUN) Random Urine	UUNR	U UREA RANDOM	84540	Random urine	Clean plastic (100 mL) urine container	Chemistry		Urease	R = daily	
UREAPLASMA CULTURE										See Mycoplasma Culture Urogenital



TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
Urethral Chlamydia Probe	URECT	URETHRAL CHLAMYDIA PROBE	87591	Urethral Swab	Gen - Probe Collection Kit available from Stores Specimen must be placed in tube prior to delivery to laboratory.	Molecular Microbiology Coro	Negative	Transcription Mediated Amplification (TMA)	R = M-F	Critical Value: Positive results on patients <14. Blue swab should be submitted in Gen- Probe collection kit for analysis. (Silver foil topped containers)
Urethral Gonorrhea Probe	UREGC	URETHRAL GONORRHEA PROBE	87591	Urethral Swab	Gen - Probe Collection Kit available from Stores Specimen must be placed in tube prior to delivery to laboratory.	Molecular Microbiology Coro	Negative	Transcription Mediated Amplification (TMA)	R = M-F	Critical Value: Positive results on patients <14. Blue swab should be submitted in Gen- Probe collection kit for analysis. (Silver foil topped containers)
Urethra Trichomonas vaginalis Probe	URLTV	MALE URETHRAL TRICH VAGINALIS PROBE	87798	Urethral Swab	Gen - Probe Collection Kit available from Stores Specimen must be placed in tube prior to delivery to laboratory.	Molecular Microbiology Coro	Negative	Transcription Mediated Amplification (TMA)	R = M-F	Critical Value: Positive results on patients <14. Blue swab should be submitted in Gen- Probe collection kit for analysis. (Silver foil topped containers)
URIC ACID	URIC	URIC ACID	84550	4 mL blood	Green Top Vac with Gel (Mint)	Chemistry	M: 3.5-8.5 mg/dL F: 2.6-6.0 mg/dL	Uricase	R = 4 hrs. S = 1 hr.	
URIC ACID 12 hr urine	UUA12	U URIC ACID 12 HR	84560	12 hr urine	Clean plastic (2 L) urine container	Chemistry		Uricase	R = daily	Refrigerate specimen during collection.
URIC ACID 24 hr urine	UUA24	U URIC ACID 24 HR	84560	24 hr urine	Clean plastic (2 L) urine container	Chemistry	0.2 - 2.0 gm/24 hr	Uricase	R = daily	Refrigerate specimen during collection.
URIC ACID Random Urine	UUAR	U URIC ACID RANDOM	84560	Random urine	Clean plastic (100 mL) urine container	Chemistry		Uricase	R = daily	
URINALYSIS Eosinophil	UEOS	U EOSIN	87205	Random urine	Urine specimen (100 mL) container	Urinalysis	0/100 WBC	Cytospin Wright's Stain	R=daily	
URINALYSIS-ROUTINE See Comments for Reflexive Rule	UA	UA	81003	Preferably first A.M specimen	Urine specimen (100 mL) container	Urinalysis	Sp. Gr.: 1.010-1.030 pH: 5.0-8.0 Protein: Negative Glucose: Negative Blood: Negative Ketones: Negative Bile: Negative Uro: 0.1-1.0 E.U./dL Nitrite: Negative Leukocyte: Negative <b>Microscopic Ranges</b> RBC 0-5 Females RBC 0-3 males WBC 0-4 females WBC 0-6 males Casts 0/LPF except Hyaline 0-2 Crystals Absent <b>Epithelial Cells</b> Squamous <1/HPF or <20/LPF Transitional <1/HPF Renal 0-3/HPF	Automated Dip-Stick Reader BMD CUA	R & S = 1 hr.	If sample has a positive protein, blood, nitrite or leukocyte a Microscopic Urinalysis (CPT 81001) is ordered and the original UA is credited. Specimens refrigerated for over 4 hours will be discarded and new ones requested. To request that sperm be noted, you must order Urine Sperm Confirmatory on Invision/Medhost or URSPM on Soft.
URINE Urocytogram						Cytology				See Cytology Section.

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
Urine AFB Culture and smear	CXAFB	URINE AFB CULT AND SMEAR	87116 87206	Urine	Sterile leakproof container	Microbiology	Negative	Semiautomated detection and smear	R=6 Weeks S=N/A	Critical Value: Positive
Urine Chlamydia Probe	URICT	URINE CHLAMYDIA PROBE	87491	Urine	Gen - Probe Collection Kit available from Stores <b>Specimen must be placed in tube prior to delivery to laboratory.</b>	Molecular Microbiology Coro	Negative	Transcription Mediated Amplification (TMA)	R = M-F	Critical Value: Positive results on patients <14. Blue swab should be submitted in Gen-Probe collection kit for analysis. (Silver foil topped containers)
Urine CMV Spin Amp Culture	CXCMU	URINE CMV SPIN AMP CULT	87254	Urine	Sterile leakproof container	Virology, RIH	Negative	Spin Amplified Cell Culture for CMV	R =48 hours S = N/A	Results available 48 hours. Test performed M - F.
URINE Condyloma						Cytology				See Cytology Section.
Urine Culture	CXURN	URINE CULT	87086	Urine	Sterile leakproof container	Microbiology	Negative	Bacterial culture including yeast with colony count	R = 24-48 hrs S = N/A	Indicate specific source i.e. Clean catch, foley, straight cath, etc.
Urine Fungal Culture and smear	CXFUS	URINE FUNGAL CULT AND SMEAR	87102 87206	Urine	Sterile leakproof /container	Microbiology	Negative	Culture for yeast. Smear: calcoflour	R = 1 wk S = N/A	If not received within 2 hours or no collection time noted, smear will not be performed
Urine Gonorrhea Probe	URIGC	URINE GONORRHEA PROBE	87591	Urine	Gen - Probe Collection Kit available from Stores <b>Specimen must be placed in tube prior to delivery to laboratory.</b>	Molecular Microbiology Coro	Negative	Transcription Mediated Amplification (TMA)	R = M-F	Critical Value: Positive results on patients <14. Blue swab should be submitted in Gen-Probe collection kit for analysis. (Silver foil topped containers)
Urine Protein Creatinine Ratio	UTPCR	U Protein Creat Ratio		Urine	Urine specimen container	Chemistry				Both a Random Urine Protein and Random Urine Creatinine will be performed to obtain the ratio.
URINE PROTEIN ELECTROPHORESIS (UPEP) See Comments for Reflexive Rules	UPEP	U PROTEIN ELECTROPHORESIS	84165	Random urine	Urine specimen container	Clinical Immunology, Core	No protein detected	Electrophoretic Separation of Proteins (SPE)	R = 5-7 days	If a monoclonal protein is detected, an UIFE (CPT 86334) will be performed and charged.
Urine Trichomonas vaginalis Probe	URNTV	URINE TRICH VAGINALIS PROBE	87798	Urine	Gen - Probe Collection Kit available from Stores Specimen must be placed in tube prior to delivery to laboratory.	Molecular Microbiology Coro	Negative	Transcription Mediated Amplification (TMA)	R = M-F	Critical Value: Positive results on patients <14. Blue swab should be submitted in Gen-Probe collection kit for analysis. (Silver foil topped containers)
URINE Tumor Cells						Cytology				See Cytology Section.
Urine Viral Culture	CXVIR	URINE VIRAL CULT	87252	Urine	Sterile leakproof Container	Virology, RIH	Negative	Spin amplified detection for Adenovirus	R =48 hours S = N/A	
Vaginal Chlamydia Probe	VAGCT	VAGINAL CHLAMYDIA PROBE	87591	Vaginal Swab	Gen - Probe Collection Kit available from Stores Specimen must be placed in tube prior to delivery to laboratory.	Molecular Microbiology Coro	Negative	Transcription Mediated Amplification (TMA)	R = M-F	Critical Value: Positive results on patients <14. Blue swab should be submitted in Gen-Probe collection kit for analysis. (Silver foil topped containers)

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
Vaginal Gonorrhea Probe VAGINAL SMEAR	VAGGC	VAGINAL GONORRHEA PROBE	87591	Vaginal Swab	Gen - Probe Collection Kit available from Stores Specimen must be placed in tube prior to delivery to laboratory.	Molecular Microbiology Coro	Negative	Transcription Mediated Amplification (TMA)	R = M-F	Critical Value: Positive results on patients <14. Blue swab should be submitted in Gen- Probe collection kit for analysis. (Silver foil topped containers)
Vaginal Trichomonas vaginialis Probe	VAGTV	VAGINAL TRICH VAGINALIS PROBE	87798	Vaginal Swab	Gen - Probe Collection Kit available from Stores Specimen must be placed in tube prior to delivery to laboratory.	Molecular Microbiology Coro	Negative	Transcription Mediated Amplification (TMA)	R = M-F	Critical Value: Positive results on patients <14. Blue swab should be submitted in Gen- Probe collection kit for analysis. (Silver foil topped containers)
VALIUM (Diazepam)	VAL	VALIUM DIAZEPAM AND NORDIAZEPAM	80154 82491	5 mL blood (Min) 3 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic Range: 0.1-1.5 ug/mL	High Performance Liquid Chromatography	R = Weekly S = 8 hrs.	Toxic: > 5 µg/mL Nordiazepam is performed and charged on all requests.
VALPROIC ACID (Depakene)	VALP	VALPROIC	80164	3 mL blood	Green Top Vac with Gel (Mint)	Chemistry	Therapeutic range: 50-100 ug/mL	PETINIA	R = Daily S = 2 hrs.	Critical: >150 ug/mL (First incidence only) VPA Peak depends on how drug was administered. Syrup : 0.5- 1 hour Capsule 1-3 hrs Coated Capsule 2-6 hrs. Trough : immediately before next dose may be the most reliable value for dose related adjustments.
VANCOMYCIN LEVEL	VANTR VANPO VANRA	VANCOMYCIN TROUGH VANCOMYCIN PEAK VANCOMYCIN RANDOM	80202	5 mL blood (Min) 3 mL blood <b>Spin within 4 hrs.</b>	Green Top Vac with Gel (Mint)	Chemistry	15-20 ug/mL (Vanco- Trough) 30-40 ug/mL (Vanco-Peak)	PETINIA	R = Daily	Critical: Trough > 20 µg/mL Critical: Peak >80 ug/mL Critical: Random >80 ug/mL <b>(First incidence only)</b> Vancomycin Peak : 1 hr post infusion Trough : Immediately prior to next dose. <b>Outreach Sites</b> : If you are unable to send to lab within 4 hours, sample must be spun and plasma poured off into transfer tube and sent to the lab.
VAP CHOLESTEROL	VAPC	VAP CHOLESTEROL	83701 84478	5 mL Blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report	Ultracentrifuge with Spectrophotometry	R = 6-10 days	Includes VLDL.
Varicella DFA stain	DFVZV	VESICLE RAPID DFA VARICELLA	87290	Specimen from vesicle inoculated on three well slides	Obtain 3 well slides from Virology, RIH Lab	Virology, RIH	Negative	DFA	R = 4 hrs. S = 2 hrs.	DFHSV and DFVZV must be ordered separately. Results available same day, if received at RIH by 3:00 P.M. M-F
VARICELLA ZOSTER IgG ANTIBODY Titer	VZG	VARICELLA IGG EIA	86787	3.0 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core	< 0.900 Negative 0.91 - 1.09 Equivocal >1.10 Positive INDEX VALUE	EIA	R = M,W,F	Index Value Interpretation: ≤ 0.90 Negative (no previous infection) 0.91-1.09 Equivocal (recommend repeat testing) ≥1.10 Positive (previous or current infection)
VARICELLA ZOSTER IgM ANTIBODY Titer	VZVM	VARICELLA ZOSTER IGM	86787	3.0 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report		R = 3-5 days	
VARICELLA ZOSTER VIRUS by PCR VZV by PCR	VZVPC	VZV PCR	87496	3 mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Clinical Molecular Biology, RIH	Negative	PCR	R = 2-4 days	Test performed M - F See CSF or Body Fluid VZV PCR, if applicable.

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
VASOPRESSIN (Arginine)	AVP	ARGININE VASOPRESSIN	84588	5 mL blood ON ICE (Min) 1.5 mL blood	Lavender Top Vac	Reference Lab (Quest)	See Report.	Extraction, RIA	R = 3-5 days	Sent out.
VERAPAMIL	VERA	VERAPAMIL	82491	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	HPLC	R = 10-15 days	Sent out.
Vesicle Culture for HSV	CXVES	VESICLE CULT FOR HSV	87252	Specimen from vesicle	Copan swab placed into UTM	Virology, RIH	Negative	Cell Culture for Herpes	R = 1 week S = N.A.	UTM supplied by Virology, RIH, 444-5655. Varicella Culture done by request, TAT = 14 days
Vesicle Herpes I and II Stain	DFHSV	VESICLE DFA HERPES I AND II	87274	Specimen from vesicle inoculated on three well slides	Obtain 3 well slides from Virology, RIH Lab	Virology, RIH	Negative	DFA	R = 4 hrs. S = 2 hrs.	DFHSV and DFVZV must be ordered separately. <b>Results available same day, if received at RIH by 3 PM, M-F</b>
VESICLE RAPID DFA VARICELLA	DFVZV	VESICLE RAPID DFA VARICELLA	87290	Specimen from vesicle inoculated on three well slides	Obtain 3 well slides from Virology, RIH Lab	Virology, RIH	Negative	DFA	R = 4 hrs. S = 2 hrs.	DFHSV and DFVZV must be ordered separately. <b>Results available same day, if received at RIH by 3 PM, M-F</b>
Vibrio Culture	CXVIB	STOOL VIBRIO CULT	87046	Stool	Carey Blair Transport Medium available from Stores Item#115532	Microbiology	Negative	Culture to R/O Vibrio only	R = 48HRS S = N/A	See Culture, Stool, Vibrio
VIP (VASOACTIVE INTESTINAL POLYPEPTIDE)	VIP	VASOACTIVE INTEST POLYPEP	84586	10 mL blood ON ICE	Lavender Top Vac x2	Reference Lab (Quest)	See Report.	Extraction, RIA	R = 3-5 days	Sent out.
Viral Culture	CXVIR	Order by specimen source	87252	Nasal Rectal Stool Throat Eye Ear Sputum Lung Tissue Autopsy / Biopsy Pleural Fluid	Copan Swab placed into UTM or Sterile leakproof container	Virology, RIH	Negative	Spin amplified detection for Influenza A, B, Para I, II, III, RSV and Adenovirus HSV I&II will be included on appropriate specimen types	R=48 hrs S= N/A	At RIH, UTM is available from Central 444-6107 At TMH,UTM supplied by Microbiology 793-4235 During Enterovirus season, TAT will be 5 days. Lab must be notified.
VISCOSITY Serum ONLY	VISCO	VISCOSITY	85810	10 mL blood	2 Red Top Vac	Clinical Immunology, Core	1.4-1.8	Measurement of volume of fluid per unit time under a given pressure which passes through a tube of known dimensions.	R = 2 hrs.	Test performed M - F.
VITAMIN A	VITA	VIT A	84590	ON ICE 3 mL blood Protect from light.	Red Top Vac	Reference Lab (Quest)	See Report	High Performance Liquid Chromatography	R = M, W, F	Sent out. Protect from light.
VITAMIN B1 (THIAMINE)	BITB1	VIT B1	84425	3 mL blood ON ICE Protect from light	Lavender Top Vac	Reference Lab (Quest)	See Report	HPLC	R = T & Th	Sent out. Freeze sample and protect from light.
VITAMIN B12	B12	VIT B12	82607	5 mL blood	Red Top with Gel (Gold)	Chemistry Core	211-911 pg/mL	Chemiluminescence	R = M-S	
VITAMIN B12 BINDING CAPACITY, UNSATURATED (TRANSCOBALAMIN)	VITBU	VIT B12 UN	82608	5 mL blood (Min) 2 mL blood	Red Top Vac	Reference Lab (Quest)	See Report.	Radiobinding Assay	R = 3-5 days	Sent out. Serum refrigerated
VITAMIN B2 (Riboflavin)	VITB2	VIT B2	84252	5 mL blood Protect from light. On ice.	Lavender Top Vac Protect from light.	Reference Lab (Quest)	See Report	Enzymatic	R = 3-5 days	Protect from light. Ship to Reference Lab as frozen plasma.
VITAMIN B6 (Pyridoxal Phosphate)	VITB6	VIT B6	84207	5 mL blood ON ICE Protect from light	Lavender Top Vac Protect from light	Reference Lab (Quest)	See Report.	HPLC	R = T & Th	Sent out. Ship Plasma Frozen.

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
VITAMIN C	VITC	VIT C	82180	5 mL blood <b>ON ICE Protect from light</b>	Red Top Vac <b>Protect from Light.</b>	Reference Lab (Quest)	See Report.	Spectrophotometry	R = T & Th	Sent out. Freeze sample and protect from light.
VITAMIN D, 1, 25-Dihydroxy	VD125	VIT D 1 25	82652							See One, 25 Dihydroxyvitamin D
VITAMIN D, 25-Hydroxy	VID3	VIT D 25 OH TOTAL D	82306	5 mL blood	Red Top with Gel (Gold) Vac	Chemistry, Core	Deficiency <20 ng/mL Insufficiency 21-29 Sufficiency 30-100 Toxicity >100 ng/mL	Chemiluminescence	R = M - F	Refrigerate serum. Stable for 5 days.
VITAMIN E	VITE	VIT E CHE	84446	5 mL blood <b>Protect from light</b>	Red Top Vac <b>Protect from Light.</b>	Reference Lab (Quest)	See Report.	High Performance Liquid Chromatography	R = M, W, F	Sent out. Freeze serum aliquot and ship on dry ice. Protect from light.
VITAMIN K1	VITK	VIT K	84597	5 mL blood <b>Protect From Light</b>	Lavender Top Vac <b>Protect From Light</b>	Reference Lab (Quest)	See Report.	HPLC	R = 5-7 days	Sent out. Protect from light and ship plasma frozen on dry ice.
VLDL	VAPC									VLDL is a component of VAP cholesterol.
VOLATILE ALCOHOL SCREEN	VALC	VOLATILE ALCOHOL	82055 84600 84600 82010	5 mL blood	Red Top Vac	Toxicology, RIH	See Report	Gas Chromatography	R = M-Sat	When ordered, an Ethanol, Methanol, Isopropanol and Quantitative Acetone will be performed and billed. If needed Stat on Sunday or on the Night shift, a Toxicologist must be called in to perform.
VMA 24 Hr Urine (Vanillylmandelic Acid)	UVMAA	U VMA ADULT	84585	24 hr urine	Clean plastic (2 L) container with 25 mL 6N HCL (Ped); 3-5 mL 6N HCL	Toxicology, RIH	Adult: 1-10 mg/24 hr	Diazotized P-Nitroaniline	R = Weekly	Preservative should be added to container before sample is collected. Special diet should be maintained for 48 hours prior to the start of the collection. <b>Call 444-5858 for instructions.</b> Refrigerate sample during collection.
VMA/Creat Ratio Children RANDOM URINE	UVMAC	U VMA CHILD	84585	Random urine	Clean plastic (100 mL) urine container 6N HCL added in Lab on receipt.	Toxicology, RIH	VMA/Creat Ratio: 0-1yr: 11-31 µg/mg Cr 1-5 yrs: 5-21 µg/mg Cr 6-10 yrs: 3-15 µg/mg Cr	Diazotized P-Nitroaniline	R = Weekly	Special diet should be maintained for 48 hours prior to the collection. Laboratory will add preservative upon receipt of sample.
VOLTAGE GATED CALCIUM CHANNEL ANTIBODY	VOLT	VOLT GATED CALCIUM IGG	83519	5 mL Blood	Red Top Vac	Reference Lab, (Quest)	See Report	Radiobinding Assay		Sent out. Send Frozen.
VON WILLEBRAND' MULTIMERIC ANALYSIS	VWMUL	VW MULTIMER	85247	4.5 mL blood	Blue Top Vac	Reference Lab, (Quest)	See Report	Electrophoresis	R = 7 days	Sample should be spun, plasma taken off and put into plastic tube. The plasma should be respun and the plasma split between two transport tubes and frozen immediately by lab.
VON WILLEBRAND'S ANTIGEN (VWF:Ag)	VWF AG	VON WILLEBRAND'S ANTIGEN	85246	9.0 mL blood ON ICE	2 Blue Top Vac	Coagulation, RIH	50 - 150%	Elisa Assay	R = 1 week S = 6 hrs.	Component of VWF Screen. See VW Screen
VON WILLEBRAND'S DISEASE SCREEN	VW SCR	VON WILLEBRAND'S SCREEN	85610 85730 85240 85246 85245	13.5 mL blood	3 Blue Top Vac	Coagulation, RIH	See Report	Clottable, Elisa, Platelet Aggregation	R = 1 week S = 6 hrs.	Test panel includes PT, PTT, F-VIII, CBA, VWF Antigen, Ristocetin Co-factor. Outpatients must order tests individually, if needed.
VZV PCR Varicella Zoster Virus by PCR	VZVPC	VARICALLA ZOSTER PCR	87496	3 mL blood <b>Whole Blood Required</b>	Lavender Top Vac	Clinical Molecular Biology, RIH	Negative	PCR	R = 2-4 days	Test performed M - F See CSF or Body Fluid VZV PCR, if applicable.
WEST NILE VIRUS IGG AND IGM	WNV	WEST NILE IGG AND IGM	86788 86789	5 mL Blood	Red Top Vac	Reference Lab (Quest)	See Report	ELISA		Sent out
WEST NILE VIRUS RNA PCR	WNVP	WEST NILE PCR	87798	3 mL Blood	Red Top Vac	Reference Lab (Quest)	See Report	PCR		Sent out
WESTERGREN										See Sed Rate Westergren
WESTERN EQUINE ENCEPHALITIS	ARIM1	ARBOVIRUS IGM AB PANEL	86651 86652 86653 86654	5 mL blood	Red Top with Gel (Gold)	Reference Lab (Quest)	See Report		R =14 days	Includes St. Louis, EEE, WEE and CAE. Sent to Focus via Quest

TEST NAME	LIS ORDER NAME	SMS ORDER NAME	CPT Code	SPECIMEN	CONTAINER	LAB	REFERENCE RANGE	METHOD	Turnaround Time	COMMENTS
WHEAT ANTIBODY (See Anti-Gliadin IgA and IgG)				5 mL blood	Red Top with Gel (Gold)	Clinical Immunology, Core			R = once per week	See Anti-Gliadin IgG and IgA Ab
WHIPPLE'S DISEASE DNA BY PCR (Tropheryma Whipplei)	WHIPP	WHIPPLES DIS PCR	87798	1 gm Tissue or 5 mL CSF or 5 mL Blood (Whole Blood)	Clean sterile container or Lav Top Vac	Reference Lab (Quest)	See Report.	PCR	R = 7-10 days	Sent out. Refrigerate sample. If CSF, must be frozen
WHOOPING COUGH										See Pertussis PCR and Culture
Wound Culture and gram stain	CXWND	WOUND CULT AND GRAM STAIN	87070 87205	Copan Double swab : Indicate Source	Copan Double Swab	Microbiology	No Growth	Aerobic Bacterial Culture including yeast	R = 48 hrs. S = N/A	Indicate anatomical site of wound.
XANAX (ALPRAZOLAM)	APRAZ	XANAX or ALPRAZOLAM	80154	5 mL blood	Red Top Vac	Toxicology, RIH	Therapeutic range: 20-240 ng/mL	High Performance Liquid Chromatography	R = Weekly S = 8 hrs.	Toxic: >240 ng/mL
XYLOSE TOLERANCE	XYL	XYLOSE SERUM	84620							See D-Xylose Tolerance
YERSINIA ANTIBODY (Panel)	YEREN	YERSINIA ENTEROCOLITICA		5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	MAT Microagglutination	R = 3-5 days	Sent out.
Yersinia Culture	CXYER	STOOL YERSINIA CULT	87046	Stool	Carey Blair Transport Medium available from Stores Item#115532	Microbiology	Negative	Culture to R/O Yersinia only	R = 48HRS S = N/A	
ZARONTIN (Ethosuximide)	ETHOS	ETHOSUXIMIDE	80168	5 mL blood	Red Top Vac	Reference Lab (Quest)	See Report	Enzyme Immunoassay (EMIT)	R = 2 - 3 days.	
ZINC	ZINC	ZINC	84630	5 mL blood (Min) 3 mL blood	Dark / Royal Blue Vac with Heparin	Toxicology, RIH	63-147 ug/dL	Atomic Absorption Spectroscopy	R = Th	Send as Whole Blood. Copper and Selenium determination may be performed on same sample.
ZINC Tissue	TZN	T ZINC	80103 82190	Biopsy	Clean plastic container (e.g. urine container)	Toxicology, RIH	0-55 ug/g (dry wt.)	Atomic Absorption Spectroscopy	R = Fri. (Biweekly)	Sample without fixative or preservative.
ZINC Urine (24 HR)	UZN	U ZINC 24 HR	84630	24 hr urine	Clean plastic (2 L) urine container with 25 mL 6N HCL (Ped): 3-5 mL 6N HCL	Toxicology, RIH	300-600 ug/24 hr	Atomic Absorption Spectroscopy	R = Th	Refrigerate sample during collection. Preservative should be added prior to collecting sample.
ZINC Urine (Random)	UZNR	U ZINC RANDOM	84630	Random urine	Clean plastic (100 mL) urine container	Toxicology, RIH		Atomic Absorption Spectroscopy	R = Th	