



HSHS
St. Elizabeth's
Hospital



LABORATORY TEST MENU

Thank you for choosing HSHS St. Elizabeth's Hospital Laboratory. This catalog contains information pertaining to the most commonly ordered laboratory tests. This laboratory has several resources to obtain services for laboratory testing not contained in this catalog. Use the following contact information to receive the most up to date information.

Medical Director: Dr. Dolph Haege, M.D.

Laboratory Director: Justin Cox, MLS (ASCP), MBA

Contact Information:

Address: **HSHS ST. ELIZABETH'S HOSPITAL LABORATORY DEPARTMENT**
One St. Elizabeth Blvd
O'Fallon, IL 62269
Telephone (618) 234-2120 EXT. 21650
Fax: (618) 222-4612

Hours of operation:	Inpatient:	Sunday-Saturday	24 Hours
	Outpatient:	Monday-Friday	0600-1750
		Saturday	0800-1200



This clinical laboratory strives to use the most current instrumentation and technology available. Due to the differences among manufacturers and methods, similar test assay results performed at other institutions may not be comparable. Please consider these differences when reviewing patient results as this may play a crucial role in the diagnosis and care of the patient.



STAT ELIGIBLE- Results post within a one-hour turn-around-time.



ROUTINE-Most results post in 2-4 hours.

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
ABG COMPLETE ARTERIAL BLOOD GASSES	Collect blood into a plain syringe for immediate testing at the patient's bedside. A lithium heparin anticoagulant syringe may also be used.	Immediately remove any air drawn into the syringe. Mix the sample for 20 – 30 seconds by rolling the syringe vigorously between the palms in two different directions. Note: if not tested immediately, remix the sample before testing.	STAT ELIGIBLE	Respiratory
			EXPECTED VALUE Ph: 7.35-7.45 PaCO ₂ : 35-45 mmHg PaO ₂ : 80 – 100 mmHg O ₂ Sat.: 95-100% THb: 12-16-female/14-18-Males O ₂ CT: 15-22% COHb: ≤3.0% MetHb: 0.4-1.5%	
ABG / CAPILLARY BLOOD GASES ARTERIAL BLOOD GASSES	Collect blood into a plain syringe for immediate testing at the patient's bedside. a. A lithium heparin anticoagulant syringe may also be used.	Immediately remove any air drawn into the syringe. Mix the sample for 20 – 30 seconds by rolling the syringe vigorously between the palms in two different directions. Note: if not tested immediately, remix the sample before testing.	STAT ELIGIBLE	RESP -POC
			EXPECTED VALUE Ph cp: 7.35-7.45 PcpCO ₂ : 37-43 mmHg PcpO ₂ : 80 – 100 mmHg O ₂ Sat.: (Calculated) >90%	
ABG/ ELECTROLYTES WITH GLUCOSE and LACTATE ARTERIAL BLOOD GASSES	Collect blood into a plain syringe for immediate testing at the patient's bedside. a. A lithium heparin anticoagulant syringe may also be used.	Immediately remove any air drawn into the syringe. Mix the sample for 20 – 30 seconds by rolling the syringe vigorously between the palms in two different directions. Note: if not tested immediately, remix the sample before testing.	STAT ELIGIBLE	Respiratory
			EXPECTED VALUE Na ⁺ 135.0 – 145.0 mmol/L K ⁺ 3.5 – 5 mmol/L Ca ⁺⁺ 1.05 – 1.3 mmol/L Glu 74 – 106 mg/dL Lac <2.2	
ABG/ FETAL BLOOD	Collect blood into a plain syringe for	Immediately remove any air drawn into the	STAT ELIGIBLE	Respiratory

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
GASES (CORD SAMPLES) ARTERIAL BLOOD GASSES	immediate testing at the patient's bedside. a. A lithium heparin anticoagulant syringe may also be used.	syringe. Mix the sample for 20 – 30 seconds by rolling the syringe vigorously between the palms in two different directions. Note: if not tested immediately, remix the sample before testing.	EXPECTED VALUE Umbilical Artery: pH: 7.18 – 7.38 PCO ₂ : 12 – 66 MMHG PO ₂ : 6 – 30 mmHg HCO ₃ : 17 – 26 mEq/L Umbilical Vein: pH: 7.25 – 7.45 PCO ₂ : 27 - 49 mmHg PO ₂ : 17 - 41 mmHg HCO ₃ : 16 - 27 mEq/L	
BLOOD GAS, MIXED VENOUS ARTERIAL BLOOD GASSES	Collect blood into a green top tube, plain syringe or lithium heparin syringe.	Immediately remove any air drawn into the syringe. Mix the tube or syringe for 20 – 30 seconds by inverting the tube or rolling the syringe. Note: if not tested immediately, remix the sample before testing.	STAT ELIGIBLE	Respiratory
BLOOD GAS, VENOUS, W/	Collect blood into a green top tube, plain syringe or lithium heparin	Immediately remove any air drawn into the syringe. Mix the tube or syringe for 20 – 30	STAT ELIGIBLE	Respiratory

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
LACTATE	syringe.	seconds by inverting the tube or rolling the syringe. Note: if not tested immediately, remix the sample before testing.	EXPECTED VALUE pHV 7.32-7.42 PCO2 40-50 PO2 30-50 cLac <=12 ctHb 12-18 FO2Hb 65-100 FCOHb <=3 FMetHb <=3 ctO2c 11-16	
ABO/RH BLOOD GROUP (Type)	EDTA or plain red top tube stored at 2-8°C.	If applicable: Write patient's full name, date of birth, medical record number and blood band sticker on the sample.	STAT ELIGIBLE	Transfusion Medicine
			EXPECTED VALUE N/A	
ABSOLUTE NEUTROPHIL	Correctly filled 4 mL EDTA Lavender	Specimen cannot be clotted.	STAT ELIGIBLE	Hematology
			EXPECTED VALUE 1.7-8.0 x10 ³	
ACETAMINOPHEN	4 mL GREEN PST or RED/ SST serum or plasma (sodium or lithium heparin).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection	STAT ELIGIBLE	Chemistry
			Therapeutic Range :10-30.0 µg/ml Toxic: >200 µg/ml	
ACETONE B-Ketones in Blood Using Abbott Meter	Use only fresh whole blood samples -- Capillary Blood Sample: 1. Sampling site is clean and dry before lancing. 3. Collect the capillary blood using a lancing device and an appropriate technique. • 4. Apply a drop of blood to the target area at the end of the test strip. Allow the entire target		STAT ELIGIBLE	POC
			EXPECTED VALUE A normal result is < 0.6 mmol/L	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
	<p>•area to fill with blood. Blood can be collected in a capillary tube coated with heparin or EDTA , and •then be applied to the test strip within 30 minutes of collection.</p> <p>Venous Blood Sample: 1. Collect the venous blood tube containing heparin or EDTA. 3. Make •sure that the tube is filled to the stated volume. Do not under fill. Do not use collection tubes that contain fluoride or oxalate. 4. From an intravenous line, clear the line and draw into a heparinized syringe. Use the sample within 30 minutes of collection.</p> <p>Arterial Blood Sample: Clear the arterial line and draw a blood sample into a heparinized syringe 2. Use the sample within 30 minutes of collection.</p> <p>Neonatal Capillary Blood Sample (heel stick): Collect the capillary blood using a lancing device and an appropriate technique. 4. Apply a drop of blood to the target area at the end of the test strip. Allow the entire target • area to fill with blood. 5. The blood can be collected in a capillary tube coated with heparin or EDTA.</p>		Critical value is greater than 1.4 mmol/L	
ALBUMIN	4 mL GREEN PST or RED/ SST serum or plasma (sodium or lithium heparin).	Serum and plasma can be collected using recommended procedures for collection of diagnostic blood specimens by venipuncture.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE 3.4–5.0 g/dL [34–50 g/L]	
ALBUMIN/GLOBULIN RATIO, A/G ratio	4 mL GREEN PST or RED/ SST serum or plasma (sodium or lithium heparin).	Serum and plasma can be collected using recommended procedures for collection of diagnostic blood specimens by venipuncture.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE 1.0-2.0 unit RATIO	
ALBUMIN, FLUID	Cup, syringe, vacuum bottle, clean, dry, and clearly labeled container. (dependent on specimen and collection method)	REFRIGERATE Cap tight and double bagged	EXPECTED VALUE 3.4–5.0 g/dL [34–50 g/L]	SJS Lab send out
			EXPECTED VALUE Depends on Source	
ALCOHOL, ETHYL	4 mL GREEN PST Or RED/ SST (sodium heparin, lithium heparin, EDTA, sodium fluoride/potassium oxalate).	Use non-alcohol germicidal solution to cleanse the skin. The tube should be filled and stored refrigerated until analyzed. Specimens may be stored tightly closed and refrigerated at 2–8 °C for up to 3 days Freeze for longer storage.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE <0.3 g/dl	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
ALKALINE PHOSPHATASE (ALP)	4 mL GREEN PST or RED/ SST serum and plasma (lithium heparin). which are turbid must be clarified by centrifugation prior to testing.	Serum: Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 8 hours at room temperature, 7 days at 2 – 8 °C and 6 months when frozen at -20 °C or colder. Avoid repeated freezing and thawing.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE 50-136 U/L	
α-FETOPROTEIN MATERNAL SERUM SCREEN, (ALPHA- FETOPROTEIN)	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum and lithium heparinized plasma.	Samples stored at 4 °C and analyzed within one week. Samples stored frozen at -20 °C or colder for 10 months.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE 0.5- 8.0 ng/ml	
ALANINE AMINOTRANSFERASE (ALT)	4 mL GREEN PST or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	Serum: Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 7 days at 2 – 8 °C, frozen for 1 month at -20 °C or colder. Avoid repeated freezing and thawing.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE Females:14 – 55 U/L Males: 16 – 60 U/L	
AMMONIA	Correctly filled 4 mL EDTA Lavender Recommended specimen type(s): Plasma (Lithium heparin or EDTA.	The tube should be filled, stored tightly capped on ice and centrifuged without delay. Samples should be analyzed within 30 minutes of collection and are stable for 2 hours at 2 – 8°C.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE 11 – 32 µmol/L	
AMYLASE	4 mL GREEN PST or RED/ SST Recommended specimen types: serum, plasma (lithium heparin). Tubes containing EDTA, citrate and oxalate may inhibit amylase activity and should not be used.	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 7 days at room temperature and six months at 2 to 8 °C, longer if frozen at -20 °C or colder.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE 25–115 U/L	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
AMYLASE, Fluid	Cup, syringe, vacuum bottle, clean, dry, and clearly labeled container. (dependent on specimen and collection method)	REFRIGERATE Cap tight and double bagged	Routine	SJS Lab send out
			EXPECTED VALUE Source Dependent	
AMYLASE, URINE- 24- Hour Urine	Aliquot of a well-mixed 24-hour urine collection in a Clean, dry, and clearly labeled container	Urine amylase is unstable in acid urine. Adjust urine to a pH of 7.0 then store refrigerated. Albumin must be added to all urine specimens to maximize amylase activity. The final albumin concentration in urine should be at least 3.0 g/dL (30 g/L).	Routine	Chemistry
	Patient Preparation: SEE URINE Chemistry- 24 hour for detailed collection instructions.		EXPECTED VALUE Urine 59–401 U/24 hour	
AMYLASE/ CREATININE RATIO- AMYLASE-Blood CREATININE-Blood AMYLASE-Urine CREATININE-Urine	Blood-4 mL GREEN PST Or RED/ SST Serum/ Plasma (lithium heparin Urine- Clean, dry, and clearly labeled container	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 7 days at room temperature and six months at 2 to 8 °C, longer if frozen at -20 °C or colder.	Routine	Chemistry
			EXPECTED VALUE Amylase/Creat. Ratio=2.0 – 5.0 mg/dl	
ANA- ANTINUCLEAR ANTIBODY	SST Or Gold/ RED Minimum 1 ML serum	Specimen Stability Room temperature: 4 days Refrigerated: 7 days Frozen: 30 days Gross hemolysis • Grossly lipemic • Microbial contamination may interfere	4 Days	Reference send out
			EXPECTED VALUE ANA Screen Negative ANA titer=<1:40 Negative 1:40- 1:80 Low >1:80 High	
ANION GAP	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 3 days at 20 – 25 °C, 7 days at 2 – 8 °C. For longer storage, specimens may be frozen at -20 °C or colder for 1 month. Hemolyzed samples should not be used.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE 8.0-20.0 mmol/L	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
ANTI-XA, Heparin LMW	Fill 90-100%-2.7 mL Light blue top (Na Citrate)	Freshly drawn venous blood collected into a sodium citrate tube that must be at least 90% full. Short draws or clotted specimens MUST be redrawn. Test within 4 hours of collection or within 24 hours the plasma must be removed and frozen.	STAT ELIGIBLE	Coagulation
			EXPECTED VALUE LMW XA = 0.3- 0.5 IU/mL Critical Value: LMW XA = ≥ 2.00 IU/mL	
ANTI-XA, Heparin UNF,	Fill 90-100%-2.7 mL Light blue top (Na Citrate)	Freshly drawn venous blood collected into a sodium citrate tube that must be at least 90% full. Short draws or clotted specimens MUST be redrawn. Test within 4 hours of collection or within 24 hours the plasma must be removed and frozen.	STAT ELIGIBLE	Coagulation
			EXPECTED VALUE UNF XA = 0.0- 0.4 IU/mL Critical Value: UNF XA = ≥ 0.8 IU/mL	
ANTIBODY IDENTIFICATION & TITER	Correctly filled 4 mL EDTA Lavender	Antibody identification must be positive for a titer to be performed.	24 HOURS	Transfusion Medicine
			EXPECTED VALUE N/A	
APTT -PARTIAL THROMBOPLASTIN TIME, ACTIVATED	Fill 90-100%-2.7 mL Light blue top (Na Citrate) Short draws or clotted specimens MUST be redrawn.	Testing done < 4 hours of collection. Keep tube at room temperature, do not open, do not spin.	STAT ELIGIBLE	Coagulation
			EXPECTED VALUE 25.1-36.5 seconds	
ASPARTATE AMINOTRANSFERASE (AST)	4 mL GREEN PST or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 3 days at 20 – 25 °C, 7 days at 2 – 8 °C. For longer storage, specimens may be frozen at -20 °C or colder for 1 month. Hemolyzed samples should not be used.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE 15–37 U/L	
BASIC METABOLIC PANEL BMP	4 mL GREEN PST Or RED/ SST	Complete clot formation before centrifugation. Serum or plasma should be	STAT ELIGIBLE	Chemistry

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
Glucose, BUN, Creatinine, Sodium, Potassium, Chloride, CO ₂ , Calcium, Anion Gap BUN/Creat Ratio, GFR, GFRAA	Recommended specimen types: serum and plasma (lithium heparin).	separated from cells within two hours of collection and are stable for 3 days at 20 – 25 °C, 7 days at 2 – 8 °C. For longer storage, specimens may be frozen at -20 °C or colder for 1 month. Hemolyzed samples should not be used.	EXPECTED VALUE See individual analyte	
β-HUMAN CHORIONIC GONADOTROPIN QUALITATIVE, (β-hCG, BHCG, Pregnancy Test)	Clean, dry, and clearly labeled container	First morning urine	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE Negative	
β-HUMAN CHORIONIC GONADOTROPIN QUANTITATION, (β-hCG, BHCG, NON- PREG.) 	Recommended specimen types: Serum or plasma samples (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 3 days at 20 – 25 °C, 7 days at 2 – 8 °C. For longer storage, specimens may be frozen at -20 °C or colder for 1 month.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE Non-pregnant females, ages 18–62: 1 – 3 mIU/mL [IU/L] Adult males, ages 19–67: ≤ 1 mIU/mL [IU/L] Tumor marker-≤ 3.0	
BETKE-KLEIHAUER (Rosette, Fetal Maternal Hemorrhage)	Correctly filled 4 mL EDTA Lavender	Maternal blood collected with EDTA. Samples should be stored at 2-8 °C until assayed and are stable for 14 days	2 HOURS	Hematology
			EXPECTED VALUE None Seen	
BILIRUBIN, FLUID	Cup, syringe, vacuum bottle, clean, dry, and clearly labeled container. (dependent on specimen and collection method)	REFRIGERATE Cap tight and double bagged Protect from light	Routine	SJS Lab send out
			EXPECTED VALUE Source Dependent	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
BILIRUBIN, DIRECT	4 mL GREEN PST or RED/ SST Recommended specimen types: serum and plasma (lithium heparin and EDTA).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection Bilirubin is extremely photosensitive. Protect sample from both daylight and fluorescent light to avoid photodegradation. Samples should be stored at 4 °C and analyzed within 5 days.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE 0–0.2 mg/dL	
BILIRUBIN, INDIRECT	4 mL GREEN PST or RED/ SST Recommended specimen types: serum and plasma (lithium heparin and EDTA).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection. Bilirubin is extremely photosensitive. Care should be taken to protect sample from both daylight and fluorescent light to avoid photodegradation. Samples stored at 4 °C and analyzed within 5 days. Samples may be frozen at -20 °C or colder for up to 6 months.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE 0.0-0.9 MG/DL	
BILIRUBIN, TOTAL	4 mL GREEN PST or RED/ SST Recommended specimen types: serum and plasma (lithium heparin and EDTA).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection. Bilirubin is extremely photosensitive. Care should be taken to protect sample from both daylight and fluorescent light to avoid photodegradation. Samples stored at 4 °C and analyzed within 5 days. Samples may be frozen at -20 °C or colder for up to 6 months.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE 0.2–1.0 mg/dL [3–17 µmol/L] <1 day 0.1-5.1 g/dl 2 days 0.1-7.2 mg/dl 3 days 0.1-10.3 mg/dl 6 days 0.2-0.8 mg/dl 15 days 0.2-0.8 mg/dl 10 years 0.2-1.1 mg/dl 20 years 0.2-1.2 mg/dl	
BLOOD FILM EXAMINATION (Smear)	Correctly filled 4 mL EDTA Lavender	Whole blood not clotted.	STAT ELIGIBLE	Hematology
			EXPECTED VALUE N/A	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
BLOOD GROUP (Type) and PRENATAL ANTIBODY SCREEN	Correctly filled 4 mL EDTA Lavender	If applicable: Write patient's full name, date of birth, medical record number and blood band sticker on the sample.	STAT ELIGIBLE	Transfusion Medicine
			EXPECTED VALUE Antibody screen=negative	
BLOOD GROUP AND ANTIBODY SCREEN (Type and Screen)	Correctly filled 4 mL EDTA Lavender	If applicable: Write patient's full name, date of birth, medical record number and blood band sticker on the sample.	STAT ELIGIBLE	Transfusion Medicine
			EXPECTED VALUE Antibody screen=negative	
BLOOD GROUP AND ANTIBODY SCREEN, CROSSMATCH	Correctly filled 4 mL EDTA Lavender	If applicable: Write patient's full name, date of birth, medical record number and blood band sticker on the sample.	STAT ELIGIBLE	Transfusion Medicine
			EXPECTED VALUE Antibody screen=negative Crossmatch=compatible	
BLOOD UREA NITROGEN (BUN)	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum, plasma (lithium heparin)	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection. Blood urea nitrogen is stable in separated serum or plasma at room temperature for 3-5 days, 7 days at 4 °C and indefinitely at -20 °C.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE 7-18 mg/dL	
BNP---NT-Pro BNP N- Terminal Pro-B-Type Natriuretic Peptide	4 mL GREEN PST	Samples are stable for three days when stored at 20 – 25 °C or at 2 – 8 °C or for 12 months when frozen at -20 °C or below. Repetitive freezing and thawing of specimens should be avoided.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE < 75 years: <125 pg/mL ≥ 75 years: <450 pg/mL	
BODY FLUID CHEMISTRY BATTERY-Glucose,	Cup, syringe, vacuum bottle, clean, dry, and clearly labeled container. (dependent on specimen and	REFRIGERATE Cap tight and double bagged	Routine	SJS Lab send out

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
Urea Nitrogen, Albumin, AST, Alk. Phos., Calcium, Cholesterol, Uric Acid, Glucose, LDH, Total Bilirubin, Total Protein, Phosphorus	collection method)		EXPECTED VALUE See individual analyte Source dependent	
CALCIUM	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum, plasma (lithium heparin, sodium heparin), urine. months.	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection. Serum or plasma should be analyzed promptly or stored at 4 °C for several days. Samples may be frozen at -20 °C for 6 months.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE 8.5-10.1 mg/dL Critical <6.0 - >13.0 mg/dl	
CALCIUM, IONIZED	Collect blood into a green top tube, plain syringe or lithium heparin syringe	Immediately remove any air drawn into the syringe. Mix the sample for 20 – 30 seconds by rolling the syringe vigorously between the palms in two different directions. if not tested immediately, remix the sample before testing.	STAT ELIGIBLE	Respiratory
			EXPECTED VALUE 1.1 - 1.3 mmol/L	
CALCIUM, 24- hour Urine	Aliquot of a well-mixed 24-hour urine collection in a Clean, dry, and clearly labeled container	Urine specimens should be collected in 20–30 mL of 6M HCL per 24-hour specimen (1–2 mL for a random specimen) to prevent calcium salt precipitation.	24 HOURS	SJS Lab send out
	Patient Preparation: SEE URINE Chemistry- 24 hour for detailed collection instructions		EXPECTED VALUE 100–321 mg/24 hours	
CARBAMAZEPINE (Tegretol)	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum or plasma (lithium heparin).	Note last dose Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE 4.0 – 12.0 µg/mL Therapeutic concentrations vary significantly depending on the individual patient and on the use of other drugs with carbamazepine.	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
CARDIAC PROFILE (CK, CKMB, TROPONIN I)	4 mL GREEN PST or RED/ SST Recommended specimen types: serum, plasma (lithium and sodium heparin)		STAT ELIGIBLE	Chemistry
			EXPECTED VALUE See individual analyte	
CBC--COMPLETE BLOOD COUNT W/ DIFFERENTIAL- WBC, RBC, HGB, HCT,MCV, MCH, MCHC, RDW, PLT, MPV, Neut %, Baso %, Eos %, Lymph %, Mono %, Imm gran%	Correctly filled 4 mL EDTA Lavender Short draws or clotted specimens MUST be redrawn.	Testing done <24 hours-REFRIGERATE	STAT ELIGIBLE	Hematology
			EXPECTED VALUE Normal value vary by age and sex, call the lab for correct normal values.	
CBC--COMPLETE BLOOD COUNT WITHOUT DIFFERENTIAL	Correctly filled 4 mL EDTA Lavender Short draws or clotted specimens MUST be redrawn.	Testing done <24 hours-REFRIGERATE	STAT ELIGIBLE	Hematology
			EXPECTED VALUE Normal values vary by age and sex, call the lab for correct normal values	
CEA-- CARCINOEMBRYONI C ANTIGEN 	Recommended specimen types: serum and plasma (lithium and sodium heparin). Samples and controls stabilized with sodium azide cannot be used.	Samples should be stored at 4 °C and analyzed within one week. For longer storage, samples may be frozen at -20 °C or colder for 4 months.	Routine	Chemistry
			EXPECTED VALUE 0.0 – 3.0 ng/mL [µg/L]	
CELL COUNT, BODY FLUID	Cup, syringe, vacuum bottle, clean, dry, and clearly labeled container. (dependent on specimen and collection method)	REFRIGERATE Cap tight and double bagged	STAT ELIGIBLE	Hematology
			Source dependent	
CHLORIDE	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum, plasma (lithium and sodium heparin).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE 100-108 mmol/L	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
CHLORIDE 24-HOUR URINE	Aliquot of a well mixed 24-hour urine collection in a Clean, dry, and clearly labeled container Patient Preparation: SEE URINE Chemistry- 24 hour for detailed collection instructions	Twenty-four-hour urine collection for chloride should be made without preservatives. Store at 2–8 °C or frozen for delayed analysis	24 HOURS	SJS Lab send out
			EXPECTED VALUE 110–250 mmol/24 hour	
CHLORIDE, Urine	Clean, dry, and clearly labeled container	REFRIGERATE Cap tight and double bagged	Routine	SJS Lab send out
			EXPECTED VALUE 10 – 330 mmol/L	
CHOLESTEROL	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum and plasma (lithium heparin). Patient Preparation: Physician may request 8-12 hour fast.	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and is stable for 5–7 days at 4 °C, 3 months at -20 °C, and years at -70 °C.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE <200 mg/dL [5.2 mmol/L] Desirable 200–240 mg/dL [5.2–6.2 mmol/L] Borderline >240 mg/dL [6.2 mmol/L] High Risk	
CHOLESTEROL, BODY Fluid	Cup, syringe, vacuum bottle, clean, dry, and clearly labeled container. (dependent on specimen and collection method)	REFRIGERATE Cap tight and double bagged	Routine	SJS Lab send out
			EXPECTED VALUE Source dependent	
CKMB, CREATINE KINASE-MB ISOENZYME (Creatine Kinase MB)	4 mL GREEN PST or RED/ SST Recommended specimen types: serum, plasma (lithium and sodium heparin). Samples and controls stabilized with azide cannot be used.	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and stored at room temperature for 12 hours, at 4 °C for 3 days and at -20 °C for 1 month.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE 0.5-3.6 U/L	
C. DIFF QUIK CHEK COMPLETE	Raw, unformed stool sent in a clean airtight, leak-proof container.	Testing specimens as soon as possible is recommended (within 24 hours). Store specimens at 2-8°C for up to 72 hours prior to testing. Specimens can be stored frozen (≤ - 10°C) for periods longer than 72 hours.	Routine	Microbiology
			EXPECTED VALUE Negative	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
		Freezing and thawing multiple times may result in loss of specimen activity due to toxin degradation.		
CLOSTRIDIUM DIFFICILE MOLECULAR ASSAY DNA	5-gram LIQUID stool ONLY, Fresh or preserved in Cary Blair media	REFRIGERATE	Day Shift Only, 24-hour	Microbiology
			EXPECTED VALUE Negative	
CO2- CARBON DIOXIDE	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	Complete clot formation before centrifugation. Centrifugation of the blood in the unopened tube. Total carbon dioxide concentration may be decreased by 6 mmol/L when uncapped specimens are exposed to the air for one hour. Underfilling of vacutainers may account for low total carbon dioxide results of up to 3 mmol/L.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE 21-32 mmol/L	
CMP- COMPREHENSIVE METABOLIC PANEL Glucose, BUN, Creatinine, Sodium, Potassium, Chloride, CO2, Calcium, Total Bilirubin, Total Protein, Albumin, AST, ALT, Alk. Phosphatase, Anion Gap BUN/Creat. Ratio, GFR, GFRAA	4 mL GREEN PST or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE See individual analyte	
CORTISOL- A.M./P.M	Serum/ RED/ SST	Always keep tubes stoppered and upright. Do not use samples that have been stored at	Timed	Chemistry

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
		room temperature for longer than 8 hours. Tightly cap and refrigerate specimens at 2–8°C for 8 hours. Freeze samples -20°C for 48 hours. Freeze samples only once and mix thoroughly after thawing.	EXPECTED VALUE Cortisol AM 4-20 µg/dL Cortisol PM 2.0-17.0 µg/dL	
CORTISOL- 24-hour Urine	Aliquot of a well mixed 24-hour urine collection in a Clean, dry, and clearly labeled container	Collect urine into a clean container that has either no preservative or 10 grams of boric acid per liter of urine. Tightly cap and refrigerate specimens at 2–8°C for 8 hours. If the assay is not completed within 48 hours, freeze samples at or below -20°C. Urine specimens can remain frozen for up to 1 month in non-frost-free freezers	Routine	Chemistry
	Patient Preparation: SEE URINE Chemistry- 24 hour for detailed collection instructions		EXPECTED VALUE Cortisol, Free, 24-Hour Urine Adult- 4.0-50.0 mcg/24 Pediatric- Varies by age	
CORTROSYN STIMULATION TEST (ACTH STIMULATION COSYNTROPIN) 	RED/ SST	A baseline cortisol will be collected	Routine	Chemistry
	Patient Preparation: INPATIENT CORTROSYN STIMULATION TEST 1. Nursing service will administer 0.25 mg/ml of Cortrosyn IV Push intramuscularly. 3. 30-minute (CRT30) & 60-minute (CRT60) minute cortisols as timed draws. B. OUTPATIENT CORTROSYN STIMULATION TEST 1. Draw a baseline (serum) specimen for a cortisol level prior to the injection of Cortrosyn. 2. Infusion Services will administer 0.25 mg/ml Cortrosyn intramuscularly 3. 30-minute (CRT30) & 60-minute (CRT60) cortisols as timed draws		EXPECTED VALUE A rise from the baseline 7 µg/dL to 10 µg/dL of cortisol, reaching at least 18 µg/dL at 60 minutes post stimulation rules out primary adrenal insufficiency and suggests adrenal suppression is minimal.	
CREATINE KINASE	4 mL GREEN PST	Complete clot formation before	STAT ELIGIBLE	Chemistry

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
(CK)	Or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	centrifugation. Serum or plasma separated from cells within two hours of collection and are kept at 2 – 8 °C and analyzed within 7 days. frozen at -20 °C or colder up to 29 days. Minimum Sample Volume: 5.9 µL	EXPECTED VALUE Males: 35 – 232 U/L Females: 21 – 215 U/L	
C-REACTIVE PROTEIN	4 mL GREEN PST Or SST Recommended specimen types: serum or heparinized plasma.	Complete clot formation before centrifugation. Serum or plasma separated from cells within two hours of collection. Samples should be as fresh as possible (stored for no more than seven days at 2 - 8 °C) or stored frozen -20 °C for up to eight months if they are frozen within 24 hours after collection and if repeated freeze-thaw cycles are avoided.	Routine	Chemistry
			EXPECTED VALUE Less than 0.29 mg/dL [3.00 mg/L] for healthy adults. CRP is a nonspecific marker and different reference ranges apply depending on the clinical indication.	
C-REACTIVE PROTEIN-HIGH SENSITIVITY	4 mL GREEN PST Or SST Recommended specimen types: serum and plasma (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma separated from cells within two hours of collection. Samples should be as fresh as possible - stored for no more than seven days at 2 - 8 °C or stored frozen -20 °C for up to eight months if they are frozen within 24 hours after collection.	Routine	Chemistry
			EXPECTED VALUE less than 0.30 mg/dL for healthy adults. The reference intervals are affected by many factors that may differ for each population studied.	
CREATININE	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and is stable for 24 hours at room temperature, 7 days at 2—8° C. frozen for up to 3 months at -20° C or colder.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE 0.55-1.02 mg/dl 0.600 – 1.30 mg/dL [62 – 115 µmol/L] Critical >5.0 mg/dl	
CREATININE, Urine	2 ml Clean, dry, and clearly labeled container	Specimens previously preserved with 6N HCl or Boric Acid are acceptable. Urines (random or 24 hour collections) should be stored at 2— 8° C and analyzed within 4 days. Freeze for longer storage.	Routine	Chemistry
			EXPECTED VALUE Female 28-117 mg/dl Male 39-259 mg/dl Amylase/Creat. Ratio=2.0 – 5.0	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
			mg/dl	
CREATININE, 24-Hour Urine	Aliquot of a well mixed 24 hour urine collection in a Clean, dry, and clearly labeled container Patient Preparation: SEE URINE Chemistry- 24 hour for detailed collection instructions	Specimens previously preserved with 6N HCl or Boric Acid are acceptable. b. Urines (random or 24 hour collections) should be stored at 2— 8° C and analyzed within 4 days. Freeze for longer storage.	24 HOURS	Chemistry
			EXPECTED VALUE Female 11.0-20.0 mg/kg/24 hour Male 14.0-26.0 mg/kg/24 hour	
CREATININE CLEARANCE- Creat. Urine, Creat. Blood, Body Surface area NO SEO Policy	Aliquot of a well mixed 24 hour urine collection in a Clean, dry, and clearly labeled container. 4 mL GREEN PST Or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	Document the height and weight of patient A 24 hour urine specimen is collected A serum specimen is collected anytime during the 24 hours prior to start of collection and up to 24 hours after end of collection period.	24- 48 Hours	Chemistry
			EXPECTED VALUE	
CREATININE, Fluid	Cup, syringe, vacuum bottle, clean, dry, and clearly labeled container. (dependent on specimen and collection method)	REFRIGERATE Cap tight and double bagged	Routine	SJS Lab send out
			EXPECTED VALUE: Source dependent	
CRYSTAL- BODY FLUID Identification	Cup, syringe, vacuum bottle, clean, dry, and clearly labeled container. (dependent on specimen and collection method)	Cap tight and double bagged	Routine	Hematology
			EXPECTED VALUE: Source dependent	
CSF--CEREBRAL SPINAL FLUID-Cell Count	Collected in spinal fluid tubes.	Use physician specified tube for Hematology studies, or use tube #3, per lab protocol. Clotted specimens are not acceptable.	STAT ELIGIBLE	Hematology
			EXPECTED VALUE None seen	
CSF--CEREBRAL SPINAL FLUID-GLUCOSE	Normal procedures for collecting cerebrospinal fluid may be used for samples to be analyzed by this method	Remaining cerebrospinal fluid specimens should be refrigerated or frozen.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE CSF: 40–70 mg/dL	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
CSF--CEREBRAL SPINAL FLUID- PROTEIN	Normal procedures for collecting cerebrospinal fluid may be used for samples to be analyzed by this method.	CSF specimens collected with care to avoid contamination with plasma proteins. Blood present in the CSF invalidates the protein values due to contamination with plasma proteins. Remaining CSF specimens should be refrigerated or frozen.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE CSF: 15 – 45 mg/dL [150 – 450 mg/L]	
CHLAMYDIA OR NEISSERIA GONORRHEA DNA PROBES BY PCR (CT DETECTION TMA RNA) (may use one specimen for CT and GC detection)	<p>Patient Preparation: FEMALES: ENDOCERVIX and MALE URETHRAL SPECIMENS: Use APTIMA Unisex Swab Specimen Collection Kit. Directions for collection are found on the collection kit package. NOTE: Some spermicidal agents and feminine powder sprays interfere and should not be used prior to collection of swab specimens.</p> <p>URINE SPECIMENS: (MALES AND FEMALES) Do not urinate for at least two hours prior to specimen collection. Collect the first 10-50 mL of urine stream into a leak-proof sterile plastic screw-capped container. Refrigerate. Transport in a separate zip-lock bag. Specimens are to be transferred to an APTIMA Urine Collection Kit within 24 hours of initial collection. The collection tube must be filled between the two black lines on the tube. Do not cover the lines with the patient label. Under or overfilled specimens will be rejected. Place specimen in a ziplock bag (one specimen per bag). The specimen may be refrigerated or left at room temperature before being packaged for shipment.</p>		2-4 days	REFERENCE LAB SEND OUT
			EXPECTED VALUE Negative	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
CULTURE, ACID FAST BACILLI	<p>BRONCHIAL WASH: Collect at least 3 mL of bronchial washings into a leak-proof sterile plastic screw-capped container or submit a bronchial brush in a leak-proof sterile plastic screw-capped container with sterile saline Refrigerate.</p> <p>CSF: Collect 1mL CSF (minimum) in a leak-proof sterile plastic screw-capped container. Refrigerate.</p> <p>GASTRIC WASHINGS: Collect 5-10 mL of fasting early morning specimen in a leak-proof sterile plastic screw-capped container, containing 100 mg of sodium carbonate (obtained from the laboratory). Refrigerate.</p> <p>SPUTUM: For routine sputum specimens, collection in the early morning is recommended. The patient should gargle with water before collection. The most suitable specimen is the expectoration obtained after a deep cough. Collect entire specimen in a leak-proof sterile plastic screw-capped container. Three consecutive early morning specimens are recommended. Refrigerate. URINE: Collect first morning urine specimen, up to 50 mL, in a leak-proof sterile plastic screw-capped container. Refrigerate.</p> <p>BONE MARROW: Collect as much specimen as possible in a BD BACTEC MYCO/F – Lytic bottle (supplied by Quest). Transport at room temperature.</p> <p>BODY FLUIDS: Submit at least 10-15 mL in a leak-proof sterile plastic screw-capped container. Transport bloody specimens or specimens likely to clot in a green (heparin) top tube. Refrigerate.</p> <p>TISSUE BIOPSY SAMPLE: Submit tissue in a leak-proof sterile plastic screw-capped container with sterile saline. Refrigerate.</p> <p>SKIN LESION MATERIAL: Submit a biopsy specimen in a leak-proof sterile plastic screw-capped container with sterile saline. Refrigerate.</p> <p>Swabs in transport medium are acceptable only if biopsy material or an aspirate is not obtainable. Refrigerate.</p> <p>CUTANEOUS ULCER: collect biopsy sample from periphery of the lesion or aspirate material from ulcer margin of lesion. If infection was acquired in Africa, Australia, Mexico, South America, Indonesia, New Guinea or Malaysia, note on request as Mycobacterium ulcerans may require prolonged incubation.</p>	<p>Final- 4 weeks</p>	Reference Lab send out.	
			EXPECTED VALUE Source dependent	
CULTURES, AEROBIC	<p>AEROBIC CULTURE SWAB TRANSPORT: 1. The system (Culturette) consists of rayon swabs in a capped plastic tube containing a sponge moistened with modified liquid Stuart’s media. 2. After collection, plunge the swab into the transport medium to prevent drying and cap the tube. Transport refrigerated.</p>	<p>Preliminary-24 hours/ Final-3 Days</p>	Microbiology	
			EXPECTED VALUE	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
			Source dependent	
CULTURE, ANAEROBIC	Specimens from the following sites are acceptable for anaerobic culture when submitted in appropriate anaerobic transport media. Transtracheal aspirations, Suprapubic urines, Genital specimens from cul-de-sac aspiration, cordocentesis, percutaneous aspiration, placenta, fallopian tube, septic abortion, or prostatic or seminal fluid, Surgical specimens, Aspirates from deep wounds or abscesses. Body fluids that are normally sterile. ANAEROBIC TRANSPORT FOR FLUID SPECIMENS: Fluid specimens may be collected in aspirate bottles (ie. pleural fluid), aliquoted into sterile screw-top containers or sent in a capped syringe. Transport at room temperature. ANAEROBIC TRANSPORT FOR TISSUE SPECIMENS: Tissues placed in sterile screw-top containers and hand carried to the Microbiology Lab. Small tissue samples may be moistened with sterile saline. Transport at room temperature. ANAEROBIC TRANSPORT CULTURE SWAB: Submit culture swab specimens only when more suitable fluid aspirates or tissue margins are not obtainable. The anaerobic culture swab transport system (culturette) consists of rayon swabs in a capped plastic tube containing modified Amies gel media. After collection, plunge the swab into the gel transport media to prevent drying and cap the tube. This transport system for aerobic and anaerobic organisms. Transport at room temperature.		Preliminary-24 hours/ Final-5 Days	Microbiology
			EXPECTED VALUE No growth, Source dependent	
CULTURE, BLOOD	Two yellow topped SPS tubes should be collected for each blood culture ordered.	Collect specimens before the administration of antimicrobial agents and without contamination from indigenous microflora. Collect an adequate amount of specimen, using sterile equipment and aseptic technique. Do not draw through catheters or cannulas unless blood cannot be obtained by venipuncture or catheter sepsis is suspected.	Preliminary-24 hours/ Final-5 Days	Microbiology
			EXPECTED VALUE No growth	
CULTURE, BLOOD Verigene Positive blood culture rapid ID/Susceptibility	Positive blood culture vials.		TAT for Verigene 4 hours from gram stain report.	
CULTURE, BODY FLUID W/GRAM	Sterile cup, syringe, vacuum bottle, swab, and clearly labeled container. (dependent on specimen and collection method) Do Not Refrigerate. Call Microbiology prior to		Preliminary-24 hours/ Five	Microbiology

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
STAIN	collection at 618-234-2120 Ext 21214		days	
			EXPECTED VALUE Varies by source	
CULTURE, BONE MARROW W/ GRAM STAIN	Sterile cup, syringe, vacuum bottle, swab, and clearly labeled container.	Transport at room temperature	Preliminary-24 hours/ Final-13 days	Microbiology
			EXPECTED VALUE No growth	
CULTURE, QUANTITATIVE BRONCHIAL ALVEOLAR LAVAGE	5-10 mL of lavage samples from a clinician performed BAL or respiratory therapist collected mini-BAL. No volume will be rejected. Specimens must be submitted in a sterile container with no preservative and transported to the lab as soon as possible after collection. Specimens may be stored at 2-8°C		Preliminary-24 hours/ Final-2 days	Microbiology
			EXPECTED VALUE No Growth	
CULTURE, QUANTITATIVE BRONCHIAL BRUSH	Bronchial brushes received in a sterile tube containing 1.0 mL sterile saline. (Sterile tubes containing 1.0 mL of sterile saline are supplied to the physician by the laboratory		Preliminary-24 hours/ Final-2 days	Microbiology
			EXPECTED VALUE No Growth	
CULTURE, CATHETER TIP	2-3-inch portion of the terminal end of the vascular catheter in sterile container. Use sterile equipment and aseptic technique to collect specimens to prevent the introduction of microorganisms during invasive procedures. Identify the specimen source and/or specific site correctly so that the proper culture media, identification and susceptibility protocols will be used		Preliminary-24 hours/ Final- 3 days	Microbiology
			EXPECTED VALUE No growth	
CULTURE, CSF-- CEREBRAL SPINAL FLUID W/ GRAM STAIN	For microbiological analysis, the second tube drawn should be submitted. Transport at room temperature. Do not refrigerate. Follow standard collection procedures and submit a separate leak-proof sterile screw-capped tube containing at least 1 mL of aseptically collected cerebrospinal fluid.		Preliminary-24 hours/ Final- 5 days	Microbiology
			EXPECTED VALUE No growth	
CULTURE, EAR	EAR: Fluid received in a sterile container or anaerobic transport vial. Culturette		Preliminary-24 hours/ Final- 3 days	Microbiology

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
	containing aerobic or anaerobic transport media.		EXPECTED VALUE Normal Flora	
CULTURE, EYE	EYE: Swabs in Culturette containing appropriate transport media for organisms sought. Inoculated media plates may also be received.		Preliminary-24 hours/ Final- 3 days	Microbiology
			EXPECTED VALUE No growth	
CULTURE, ENVIRONMENTAL	Water cultures are collected in leak-proof sterile plastic screw-capped containers and transported to the laboratory. Run the tap a minimum of 5 minutes before collecting the specimen. Sample volume minimum is 5 ml. Colony counts will be performed.		3 days	Microbiology
			EXPECTED VALUE No growth	
CULTURE, FUNGUS, HAIR, SKIN, NAILS with KOH FUNGUS W/ STAIN	Collect specimen using aerobic culture swab transport system for specimens from the mouth, nasopharynx, ear, eye, wound, vagina, cervix or urethra. Use leak-proof sterile plastic screw-capped containers for respiratory secretions, body fluids, aspirates, tissue, CSF, urine, hair, skin, nail, etc. Submit peripheral blood and bone marrow in a BD BACTEC MYCO/F – Lytic bottle. Transport dermatological and blood specimen tubes at room temperature. Refrigerate all other specimens for fungus cultures.		4 weeks	Microbiology
			EXPECTED VALUE No growth	
CULTURE, GENITAL AND NEISSERIA GONORRHOEAE (GC) W/ GRAM STAIN	Endocervix: Remove excess mucus with a sterile swab and discard. Insert a 2 nd sterile swab into the endocervix and rotate the swab for 15-30 seconds. Male Urethra: Collect specimen 2 hours after urination. Insert a sterile swab 2-4 cm into the urethra and rotate swab for 3-5 seconds. TRANSPORT INSTRUCTIONS: Specimens suspected of containing <i>Neisseria gonorrhoeae</i> (GC) should be collected in Liquid Stuart's Transport media and transported at room temperature. DO NOT REFRIGERATE.		Preliminary-24 hours/ Final- 3 days	Microbiology
			EXPECTED VALUE No growth	
CULTURE, GROUP A STREP	Collect an adequate amount of specimen. Inadequate amounts of specimen may yield false negative results. Utilize appropriate collection devices. Use sterile equipment and aseptic technique to collect specimens to prevent the introduction of microorganisms during invasive procedures. Identify the specimen source and/or specific site correctly so that the proper culture media, identification and susceptibility protocols will be used.		Preliminary-24 hours/ Final-2 days	Microbiology
			EXPECTED VALUE Normal Flora	
CULTURE, GROUP B STREP	Collect an adequate amount of specimen. Inadequate amounts of specimen may yield false negative results. Utilize appropriate collection devices. Use sterile equipment and aseptic technique to collect specimens to prevent the introduction of		Preliminary-24 hours/ Final- 3 days	Microbiology

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
		microorganisms during invasive procedures. Identify the specimen source and/or specific site correctly so that the proper culture media, identification and susceptibility protocols will be used.	EXPECTED VALUE Normal Flora	
CULTURE, NASAL SWABS FOR MRSA SCREEN (SELF COLLECTION)	Using a Liquid Stuarts Culturette, without contaminating the polyester fiber wrapped end, insert the swabs together into your nostril no deeper than one inch (1-2 cm). Stop inserting once the entire head of the swab is inserted into the nostril. Swab the nostril in a circular motion 2-3 times to touch the full perimeter of the nostril. Remove and insert the same swab into the opposite nostril. Immediately hand swabs to lab staff for tube closure and labeling. Refrigerate.		24 hours	Microbiology
			EXPECTED VALUE Normal Flora	
CULTURE, MRSA (Other than Nasal)	Collect an adequate amount of specimen. Inadequate amounts of specimen may yield false negative results. Utilize appropriate collection devices. Use sterile equipment and aseptic technique to collect specimens to prevent the introduction of microorganisms during invasive procedures. Identify the specimen source and/or specific site correctly so that the proper culture media, identification and susceptibility protocols will be used.		24 hours	Microbiology
			EXPECTED VALUE Normal Flora	
CULTURE, NASOPHARYNGEAL	Nasopharyngeal secretions, obtained by aspiration or washings, submitted in leak-proof sterile plastic screw-capped containers are the preferred specimen for culture. Alternate: Obtain specimen using nasopharyngeal swab. Immobilize patient's head and gently insert a nasopharyngeal swab into the nostril following the base of the nasal passage to the nasopharynx area. Rotate, allow swab to remain 20-30 seconds and remove. Submit swab in aerobic swab for Nasopharyngeal culture.		24 hours	Microbiology
			EXPECTED VALUE Normal Flora	
CULTURE, SPUTUM	Collection in the early morning is recommended. The patient should gargle with water before collection. The most suitable specimen is the expectoration obtained after a deep cough. Instruct the patient to avoid adding saliva. Collect specimen in a leak-proof sterile plastic screw-capped container. Refrigerate		Preliminary-24 hours Final-48 hours	Microbiology
			EXPECTED VALUE Normal Flora	
CULTURE, THROAT ALL ORGANISMS	Throat cultures should be collected under direct visualization with an aerobic culture swab transport system. Vigorously swab both tonsillar areas, the posterior pharynx and any areas of inflammation, ulceration, exudation or capsule formation. The tongue should be depressed with a tongue blade to minimize contamination of the swab with oral secretions. Refrigerate		Preliminary-24 hours Final- 2 days	Microbiology
			EXPECTED VALUE Normal Flora	
CULTURE, TISSUE W/ GRAM STAIN	Collect an adequate amount of specimen. Utilize appropriate collection devices. Use sterile equipment and aseptic technique to collect specimens to prevent the introduction of microorganisms during invasive procedures. Identify the specimen		Preliminary-24 hours Final- 3 days	Microbiology

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
	source and/or specific site correctly so that the proper culture media, identification and susceptibility protocols will be used.		EXPECTED VALUE Normal Flora	
CULTURE, URINE	<p>FEMALE – CLEAN VOID: a thorough cleansing of the periurethral area is essential. Wash the area from the front to the back with a towelette. Lean slightly forward so the urine flows directly down without running along the skin. After voiding the first portion of urine, place a leak-proof sterile plastic screw-capped container under the stream of urine and collect the remainder of the urine. Refrigerate.</p> <p>MALE – CLEAN VOID: Wash penis tip thoroughly using a towelette. After voiding the first portion, place a leak-proof sterile plastic screw-capped container under the stream of urine and collect the remainder of the urine. Refrigerate.</p> <p>INDWELLING CATHETER: Select a puncture site 1-2 inches distal to the catheter tube entry point and clamp below the puncture site. Cleanse the puncture site with 70% alcohol. Aspirate approximately 5mL of urine with a sterile needle and syringe. Transfer directly into a leak-proof sterile plastic screw-capped container. Refrigerate. A specimen obtained from a Foley catheter tips or collection bag is not suitable for analysis and will not be accepted for culture. Cystoscopy- follow standard collection procedures and obtain the specimen by aspiration. Refrigerate.</p> <p>Suprapubic aspirates- if anaerobic culture is desired it must be transported in an anaerobic transport vial, (room temperature)</p>		Preliminary-24 hours Final- 2 days	Microbiology
			EXPECTED VALUE No growth	
CULTURE, VIRAL	<p>NASOPHARYNGEAL: Insert flexible wire-shafted Dacron™ swab into nostril to the posterior nasopharynx. Hold in place 5-10 seconds. Gently rotate and withdraw. Place the swab in a vial of Viral Transport Media. Break off excess shaft and cap tightly. Specimens may be held at room temp. (15 - 25°C) for up to 4 hours, refrigerated (2 - 8°C) for up to 3 days and frozen (≤15°C or ≤ - 70°C) for up to 30 days. Transport separately in biohazard zip-lock bag to Lab within an hour of collection.</p> <p>Quest testing: Include specimen source and the type of infection/virus expected on the test request form. Liquid specimens are not to be submitted in VCM. Specimens delivered to the laboratory within 2 hours of collection and no later than 1 day. Refrigerate within 1 hour of collection. Transport in separate zip-lock bag. VCM Cervical, Nasopharyngeal and Lesion (other) media provided by Quest</p> <p>BIOPSY/AUTOPSY TISSUE: Place 1 gram of tissue in vial of VCM. Cap tightly. Refrigerate.</p> <p>BLOOD/ BONE MARROW: Collect sodium heparin (green top tube). Refrigerate.</p> <p>BRONCHOALVEOLAR LAVAGE: Submit 5-10 mL in a sterile screw capped</p>		Source dependent	Reference Lab send out.
			EXPECTED VALUE Source dependent	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
	container. Refrigerate. CONJUNCTIVA: Use a small wire-shafted Dacron™ swab, thoroughly swab the inner surface of the lower eye lid and collect mucus membrane cells. Place the swab in a vial of VCM. Break off excess and cap tightly. Refrigerate. Or use VCM Lesion transport kit (frozen) ENDOCERVIX: Use a sterile swab to remove mucus and exudate from the endocervix and discard. Insert a 2nd sterile swab and collect cells from the endocervical transitional zone. Rotate swab for 10- 20 seconds. Withdraw the swab without touching vaginal surfaces. Place swab in vial of VCM. Break off tip of swab to fit in VCM tube and cap tightly. Refrigerate. Or use VCM Cervical transport kit (frozen). FLUIDS: CSF, bronchial lavage, nasal wash, nasal aspirate, throat wash, sputum, pleural, peritoneal, joint, etc. Submit 2 mL or more of undiluted specimen in leak-proof sterile screw-capped container. Refrigerate. LESION: Rupture the vesicle, use a Dacron™ swab to collect fluid and cells from base of lesion. Place swab in vial of VCM. Break off excess and cap tightly. Refrigerate.			
CULTURE, VIRAL CONTINUED	RECTAL/STOOL: a. Insert a Dacron™ swab into the anal orifice 3-5 cm past the anal sphincter. b. Rotate the swab, withdraw and place in a vial of VCM Culture Transport Media. Break off tip of swab shorter than the length of the VCM media transport tube and cap tightly. Refrigerate. c. Alternatively, collect feces in a clean dry container. Insert swab into stool. Place swab in a vial of VCM Culture Transport Media. Break off tip of swab shorter than the length of the VCM media transport tube and cap tightly. Refrigerate. THROAT: a. Using a Dacron™ swab, vigorously swab the tonsil area and the back of the pharynx. b. Place the swab in a vial of VCM Culture Transport Media. Break off tip of swab shorter than the length of the VCM media transport tube and cap tightly. Refrigerate. URINE: a. Collect a clean-voided urine specimen in a leak-proof sterile plastic screw-capped container. b. First morning urine is preferred. Refrigerate. URETHRA: a. Patient should not have urinated for at least 1 hour. Insert a small wire shafted Dacron™ swab 2-4 cm into the endourethra and rotate. Wait 1-2 seconds and withdraw the swab. b. Place the swab in a vial of VCM Culture Transport Media. Break off excess and cap tightly. Refrigerate.			
CULTURE, VRE VANCOMYCIN RESISTANT ENTEROBACTERIACEAE	Collect an adequate amount of specimen. Inadequate amounts of specimen may yield false negative results. Utilize appropriate collection devices. Use sterile equipment and aseptic technique to collect specimens to prevent the introduction of microorganisms during invasive procedures. Identify the specimen source and/or specific site correctly so that the proper culture media, identification and susceptibility	Preliminary-24 hours/ Final- ≥72 hours EXPECTED VALUE No growth		Microbiology

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
	protocols will be used.			
CULTURE, WOUND W/ GRAM STAIN	Collect an adequate amount of specimen. Inadequate amounts of specimen may yield false negative results. Utilize appropriate collection devices. Use sterile equipment and aseptic technique to collect specimens to prevent the introduction of microorganisms during invasive procedures. Identify the specimen source and/or specific site correctly so that the proper culture media, identification and susceptibility protocols will be used.		Preliminary-24 hours/ Final- ≥72 hours	Microbiology
			EXPECTED VALUE No Growth-Varies by source	
CYTOLOGY/ HISTOLOGY GENERIC	Sterile cup, syringe, vacuum bottle, swab, clearly labeled container. (dependent on specimen and collection method). Contact Cytology/Histology for specific information.		Frozen section- 20 mins.	Cytology/ Histology
			EXPECTED VALUE: Source dependent	
D- DIMER, HS	Fill 90-100%-2.7 mL Light blue top (Na Citrate)	Short draws or clotted specimens MUST be redrawn. Testing must be done within 4 hours of collection.	STAT ELIGIBLE	Coagulation
			EXPECTED VALUE 0-499 ng/ml	
DEXAMETHASONE SUPPRESSION TESTS	Draw one RED/ SST SERUM	8:00 a.m. the following day.	Timed	Chemistry
	 Patient Preparation: Instruct the patient to fast 10-12 hours before the morning blood draw. For inpatients- Give dexamethasone at 11:00 p.m. For outpatients: 1. They should obtain the dexamethasone through a commercial pharmacy. 2. Take the dexamethasone at 11:00 p.m.		EXPECTED VALUE ≤5.0 mg/dl	
DIGOXIN (Lanoxin)	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	Note last dose. Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2—8° C. frozen for up to 3 months at -20° C or colder.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE 0.8-2.0 ng/dl	
DILANTIN/	4 mL GREEN PST	Note last dose. Complete clot formation	STAT ELIGIBLE	Chemistry

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
PHENYTOIN	Or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temp., 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	EXPECTED VALUE 10.0-20.0 mcg/ml	
DIRECT BILIRUBIN	4 mL GREEN PST or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma separated from cells within two hours of collection. Bilirubin is extremely photosensitive. Protect sample from both daylight and fluorescent light to avoid photodegradation. Samples stored at 4 °C and analyzed within 5 days.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE 0.0-.020 mg/dl	
DIRECT ANTIGLOBULIN TEST (DAT, Coombs Test, Direct Coombs)	Correctly filled 4 mL EDTA Lavender Cord Blood		STAT ELIGIBLE	Transfusion medicine
			EXPECTED VALUE Negative	
DRUG SCREEN, Urine Amphetamine, Barbiturate, Ecstasy Benzodiazepine, Cannabinoid, PCP Cocaine, Opiates, Methadone, PCP, Propoxyphene, Creatinine	Clean, dry, and clearly labeled container	REFRIGERATE Cap tight and double bagged	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE Negative	
ELECTROLYTES Sodium, Potassium, Chloride, CO ₂ , Anion Gap	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma separated from cells within two hours of collection.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE See individual analyte	
ELECTROLYTES (Urine-Sodium, Potassium, Chloride)	Clean, dry, and clearly labeled container	REFRIGERATE Cap tight and double bagged	Routine	SJS Lab send out
			EXPECTED VALUE See individual analyte	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
EOSINOPHIL COUNT, Urine/Nasal/Sputum	Clean, dry, and clearly labeled container	REFRIGERATE Cap tight and double bagged	Routine	Hematology
			EXPECTED VALUE: None Seen	
ERYTHROCYTE SEDIMENTATION RATE (ESR)	Correctly filled 4 mL EDTA Lavender	Short draws or clotted specimens MUST be redrawn. Stable 24 hours	STAT ELIGIBLE	Hematology
			EXPECTED VALUE Female <50 YO= <20 mm/hour Female >50 YO= <30 mm/hour Male <50 YO= <15 mm/hour Male >50 YO= <20 mm/hour	
ESTRADIOL	Serum, lithium and/or sodium heparin and EDTA plasma. Samples and controls stabilized with sodium azide cannot be used.	Complete clot formation before centrifugation. Serum or plasma separated from cells within two hours of collection.	Routine	Chemistry
			EXPECTED VALUE Males- <11 – 52.5 pg/ml Females vary depending on cycle status.	
ETHANOL, BLOOD ALCOHOL	4 mL GREEN PST Or RED/ SST (sodium heparin, lithium heparin, EDTA, sodium fluoride/potassium oxalate).	Use non-alcohol germicidal solution to cleanse the skin. The tube should be filled and stored refrigerated until analyzed. Specimens may be stored tightly closed and refrigerated at 2–8 °C for up to 3 days following collection. After 3 days, specimens should be stored frozen.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE <0.3 g/dl	
FERRITIN	4 mL GREEN PST or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	Routine	Chemistry
			EXPECTED VALUE 8.0-388.0 ng/ml	
FETAL MATERNAL HEMORRHAGE (Rosette, Betke-Kleihauer)	Maternal blood collected in Correctly filled 4 mL EDTA Lavender	Maternal blood collected with EDTA. Samples should be stored at 2-8 °C until assayed and are stable for 14 days	2 hours	Hematology
			EXPECTED VALUE None seen	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
FETAL FIBRONECTIN	Cervicovaginal sample	Specimen will be collected by nursing with the Cytoc Collection Kit and sent to the lab. Specimens are tested ASAP after receipt in the lab.	STAT ELIGIBLE	Hematology
			EXPECTED VALUE Negative	
FIBRINOGEN-QFA	Fill 90-100%-2.7 mL Light blue top (Na Citrate)	Short draws or clotted specimens MUST be redrawn.	STAT ELIGIBLE	Coagulation
			EXPECTED VALUE 200-393 mg/dl	
FLU + SARS ANTIGEN	Patient Preparation: Nursing will collect all nasopharyngeal swab samples. Specimens must be properly labeled and may be sent in the original packaging or sent down in a sterile saline container. Visually bloody samples should not be used.		STAT ELIGIBLE	Serology
			EXPECTED VALUE Negative	
FLUID, CELL COUNT	Cup, syringe, vacuum bottle, clean, dry, and clearly labeled container. (dependent on specimen and collection method)	REFRIGERATE Cap tight and double bagged	STAT ELIGIBLE	Hematology
			EXPECTED VALUE: Source dependent	
FLUID, GRAM STAIN	Sterile cup, syringe, vacuum bottle, swab, and clearly labeled container. (dependent on specimen and collection method)	Call Microbiology prior to collection at 618-234-2120 Ext 21214	Stat- <60 minutes, Routine- <24 hours	Microbiology
			EXPECTED VALUE: Source dependent	
FOLIC ACID	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	Routine	Chemistry
			EXPECTED VALUE 3.1-17.5 ng/ml	
FOLLICLE STIMULATING HORMONE (FSH)	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	Routine	Chemistry
			EXPECTED VALUE 0.7-10.8 mIU/ml	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
FREE T3 TRIIODOTHYRONINE FREE	4 mL GREEN PST Or RED/SST Recommended specimen types: serum and plasma (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	Routine	Test sent from SEO to SJB
			EXPECTED VALUE 0.76-1.46 ng/ml	
FREE T4 THYROXINE, FREE	4 mL GREEN PST Or RED/SST Recommended specimen types: serum and plasma (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	STAT ELIGIBLE	Test sent from SEO to SJB
			EXPECTED VALUE Adult Population: 0.76–1.46 ng/dL	
GAMMA-GLUTAMYL TRANSFERASE (GGT)	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	Routine	Chemistry
			EXPECTED VALUE 5.0-55.0 U/L	
GENTAMICIN, PEAK	4 mL GREEN PST or RED/SST Recommended specimen types: serum and plasma (lithium heparin).	Note last dose COLLECTION TIME DEPENDS ON ROUTE OF ADMINISTRATION	Timed	Chemistry
			EXPECTED VALUE 4.0-8.0 mcg/ml	
GENTAMICIN	4 mL GREEN PST or RED/SST Recommended specimen types: serum and plasma (lithium heparin).	Note last dose Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE N/A	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
GENTAMICIN, TROUGH	4 mL GREEN PST or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	Collect just prior to next dose	Timed	Chemistry
			EXPECTED VALUE 0.5-2.0 mcg/ml	
GFR- GOMERULAR FILTRATION RATE GFR AFRICAN AMERICAN	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE GFR=>60 ML/MIN/1.73 M2 GFRAA=>60=No longer used	
GI PANEL -PCR BIOFIRE	Cary Blaire Transport Media (at least .2 mL)	Test as soon as possible, Store at room temp. or refrigerated for up to 4 days.	24-48 Hours	Microbiology
	ORGANISMS IDENTIFIED -Campylobacter (C. jejuni/C. coli/C. upsaliensis) Clostridium difficile toxin A/B Plesiomonas shigelloides Salmonella Vibrio (V. parahaemolyticus/V. vulnificus/V. cholerae), Vibrio cholerae, Yersinia enterocolitica, Enteroaggregative Escherichia coli , Enteropathogenic Escherichia coli Enterotoxigenic Escherichia coli Shiga-like toxin- producing Escherichia coli, E. coli O157 serogroup, Shigella/ Enteroinvasive Escherichia coli, Cryptosporidium Cyclospora cayetanensis Entamoeba histolytica, Giardia lamblia, Adenovirus F 40/41 Astrovirus, Norovirus GI/GII, Rotavirus A, Sapovirus (Genogroups I, II, IV, and V)		EXPECTED VALUE Interpretations section provides a complete list of the test results. Possible results for each organism include Detected, Not Detected, N/A, and Invalid	
GLUCOSE-6- PHOSPHATE DEHYDROGENASE (G6PD)	Correctly filled 4 mL EDTA Lavender	Specimen Stability Room temperature: 48 hours Refrigerated: 7 days Frozen: Unacceptable Short draws or clotted specimens MUST be redrawn.	Reference lab dependent	Reference send out
	Or EDTA (royal blue-top) tube		EXPECTED VALUE 7.0-20.5 U/g Hgb	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
GLUCOSE, BODY FLUID	Cup, syringe, vacuum bottle, clean, dry, and clearly labeled container. (dependent on specimen and collection method)	REFRIGERATE Cap tight and double bagged	2-4 hours	SJS Lab send out
			EXPECTED VALUE: Source dependent	
GLUCOSE, Fasting	4 mL GREEN PST or RED/ SST Serum, plasma (lithium heparin, sodium heparin, sodium fluoride)	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE 70-99 mg/dl ---- Diabetes Association (ADA) criteria for the diagnosis of diabetes: 1. Symptoms of diabetes and a random glucose \geq 200 mg/dL OR Fasting glucose \geq 126 mg/dL 2. Impaired fasting glucose (IFG), a fasting glucose between 100 and 125 mg/dL [5.6–6.9 mmol/L], is defined by the ADA as a category at risk for future diabetes and cardiovascular disease.	
GLUCOSE GESTATION SCREEN 1 Hour- 50 gram	4 mL GREEN PST or RED/ SST Serum, plasma (lithium heparin, sodium heparin, sodium fluoride)	No fasting is required.	Timed	Chemistry
			EXPECTED VALUE less than 140 mg/dl	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
	plasma should be separated from cells within two hours of collection.			
GLUCOSE TOLERANCE -2-HOUR	4 mL GREEN PST or RED/ SST Serum, plasma (lithium heparin, sodium heparin, sodium fluoride)	Collect a fasting blood specimen to get a valid glucose result. DO NOT administer the dextrose drink if the patient's glucose is >126 mg/dL. Cancel the test and contact the ordering provider. If the fasting glucose is <126 mg/dl proceed with GTT. Give the patient the standard glucose solution: 75g for non-pregnant adults 100g for pregnant women, 1.75 g/kg ideal body weight up to 75 grams for children. The patient must drink the solution within 5 minutes. Start timing from when the patient begins to drink the solution. Blood samples are drawn at appropriate intervals, 1 hour and 2 hours for a 2-hour GTT. Actual draw time should be ± 5 minutes. Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection.	Timed	Chemistry
	Patient Preparation: Fasting for at least 8 hours is required. Instruct patient to wait in the waiting area and refrain from smoking, consuming any food or liquids, except for water during the test.		EXPECTED VALUE less than 140 mg/dl	
GLUCOSE TOLERANCE, 2-HOUR POST PRANDIAL	4 mL GREEN PST or RED/ SST Serum, plasma (lithium heparin, sodium heparin, sodium fluoride)	Follow the preparation as stated above. The patient must drink the solution within 5 minutes. Start timing (two-hour timer) from when the patient begins to drink the solution. Actual draw time should be 2 hours ± 5 minutes.	Timed	Chemistry
	Patient Preparation: Fasting for at least 8 hours is required. Instruct patient to wait in the waiting area and refrain from smoking, consuming any food or liquids, except		EXPECTED VALUE less than 140 mg/dl	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
	for water during the test.			
GLUCOSE TOLERANCE, 3-HOUR	4 mL GREEN PST or RED/ SST Serum, plasma (lithium heparin, sodium heparin, sodium fluoride)	Collect a fasting blood specimen and perform the glucose test to get a valid glucose result. DO NOT administer the dextrose drink if the patient's glucose is >126 mg/dL. Cancel the test and contact the ordering provider. If the fasting glucose is <126 mg/dl proceed with GTT. Give the patient the standard glucose solution: 75g for non-pregnant adults 100g for pregnant women 1.75 g/kg ideal body weight up to 75 grams for children. The patient must drink the solution within 5 minutes. Start timing from when the patient begins to drink the solution. Blood samples are drawn at appropriate intervals, 1, 2, and 3 hours for a 3-hour GTT. Actual draw time should be ± 5 minutes.	Timed	Chemistry
	Patient Preparation: Fasting for at least 8 hours is required. Instruct patient to wait in the waiting area and refrain from smoking, consuming any food or liquids, except for water during the test.		EXPECTED VALUE N/A	
GLUCOSE, Urine- Random	Cup, syringe, vacuum bottle, clean, dry, and clearly labeled container. (dependent on specimen and collection method)		Routine	
			EXPECTED VALUES Urine (random): 6–20 mg/dL	
GLUCOSE, Urine 24 hours	Aliquot of a well mixed 24 -hour urine collection in a Clean, dry, and clearly labeled container	Patient Preparation: SEE URINE Chemistry-24 hour for detailed collection instructions	EXPECTED VALUES Urine: 70-99 mg/dl 24-Hours	
GC DETECTION TMA RNA (may use one	"Dirty urine" placed in urine Aptima tube (obtain from lab, call for	Large white swab is used to clear mucous for females. After mucous removed, collect	5-7 days	REFERENCE LAB SEND

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
specimen for CT and GC detection)	collection instructions) Unisex Aptima swab system	specimen with blue swab. Males- only blue swab step.		OUT
			EXPECTED VALUE Negative	
GRAM STAIN	Sterile cup, syringe, vacuum bottle, swab and clearly labeled container. (dependent on specimen and collection method)		90 MINS.	Microbiology
			EXPECTED VALUE: Source dependent	
GLYCOSYLATED HEMOGLOBIN (hemoglobin A1C)	Correctly filled 4 mL EDTA Lavender	Short draws or clotted specimens MUST be redrawn. Store 7 days at 2-8 °C, 3 days at 15-30 °C	Routine	Chemistry
			EXPECTED VALUE <5.7 g/dl	
HAPTOGLOBIN	4 mL GREEN PST or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma separated from cells within two hours are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	Routine	Chemistry
			EXPECTED VALUE 30.0-200.0 mg/dl	
HEMATOCRIT	Correctly filled 4 mL EDTA Lavender	Short draws or clotted specimens MUST be redrawn.	STAT ELIGIBLE	Hematology
			EXPECTED VALUES Male: 43.0 - 54.0 % Females: 38.0 -48.0 %	
HEMATOCRIT, BODY FLUID	Cup, syringe, vacuum bottle, clean, dry, and clearly labeled container. (dependent on specimen and collection method)		Routine	Hematology
			EXPECTED VALUE: Source dependent	
HEMOGLOBIN	Correctly filled 4 mL EDTA Lavender	Short draws or clotted specimens MUST be redrawn.	STAT ELIGIBLE	Hematology
			EXPECTED VALUES Male: 14.0 -18.0 g/dl Females: 12.0 – 16.0 g/dl	
HEMOGLOBIN & HEMATOCRIT	Correctly filled 4 mL EDTA Lavender	Short draws or clotted specimens MUST be redrawn.	STAT ELIGIBLE	Hematology
			EXPECTED VALUE	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
			See individual analyte	
HEPARIN-LOW MOLECULAR WEIGHT HEPARIN LEVEL (LMWH)	Fill 90-100%-2.7 mL Light blue top (Na Citrate)	Short draws or clotted specimens MUST be redrawn.	STAT ELIGIBLE	Coagulation
			EXPECTED VALUES 0.3 – 0.5 IU/ml Critical ≥ 2.00 IU/ml	
HEPARIN ANTI- XA- UFH	Fill 90-100%-2.7 mL Light blue top (Na Citrate)	Short draws or clotted specimens MUST be redrawn.	STAT ELIGIBLE	Coagulation
			EXPECTED VALUES 0.00-0.04 IU/ml Therapeutic 0.3-0.79 IU/ml	
HEPATIC (LIVER) PROFILE-Albumin Total Protein, Total/Direct/Indirect Bilirubin, Alk. Phos, AST, ALT, AG ratio	Serum, lithium or sodium heparinized plasma	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	STAT ELIGIBLE	
			EXPECTED VALUE See individual analyte	
HEPATITIS A ANTIBODY, IgM	Serum, potassium EDTA plasma, lithium or sodium heparinized plasma are the only recommended sample types for this assay	Test samples as soon as possible after collecting. Store samples at 2–8°C if not tested within 8 hours of collection. Store primary tube samples at 2–8°C up to 2 days. Always keep samples stoppered and upright.	Routine	Chemistry
			EXPECTED VALUE Non-reactive	
HEPATITIS B CORE AB IgM	Serum, EDTA plasma, lithium or sodium heparinized plasma	Test samples as soon as possible after collecting. Store samples at 2–8°C if not tested within 8 hours of collection. Store primary tube samples at 2–8°C up to 2 days. Always keep samples stoppered and upright.	Routine	Chemistry
			EXPECTED VALUE Non-reactive	
HEPATITIS Bs AB, QUA	Serum is the only specimen type.	Samples may be stored at room temperature or on-board instrument for up to 8 hours. Store samples at 2° to 8°C if not tested within 8 hours of collection. Store samples always stoppered and upright at 2° to 8°C up	Routine	Chemistry
			EXPECTED VALUE Negative	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
		to 14 days		
HEPATITIS B SURFACE ANTIBODY	Serum and plasma (EDTA, lithium heparin, or sodium heparin) are the approve sample types	Store processed specimens at 2–8°C if not tested within 24 hours of collection. Specimens may be stored in primary tubes up to 7 days at 2–8°C.	Routine	Chemistry
			EXPECTED VALUE Non-reactive	
HEPATITIS B SURFACE ANTIGEN	Serum, plasma (EDTA, lithium-heparinized, or sodium-heparinized)	Store samples always stoppered at 2–8°C up to 7 days. Store primary tube samples at 2–8°C up to 7 days. Always keep samples stoppered.	Routine	Chemistry
			EXPECTED VALUE Non-reactive	
HEPATITIS B POST-VACCINE ANTIBODY	SST Or Gold/ RED	Store processed specimens at 2–8°C if not tested within 24 hours of collection.	Routine	REFERENCE LAB SEND OUT
			EXPECTED VALUE >120 mcL	
HEPATITIS C ANTIBODY	Serum, potassium EDTA plasma, lithium or sodium heparinized plasma are the recommended sample types for this assay.	Store samples at 2–8°C if not tested immediately. Store samples always stoppered and upright at 2–8°C up to 7 days. Freeze samples, devoid of red blood cells, at or below -20°C for longer storage	Routine	Chemistry
			EXPECTED VALUE Non-Reactive	
HEPATITIS PANEL, ACUTE- HEP. A IgM, HEP. B SURFACE AG- HEP. B CORE IgM- HEP. C AB, HBSAG Neut.	2 SST (10 mL) Or RED/GOLD	Test samples as soon as possible after collecting. Store samples at 2–8°C if not tested immediately. Store samples always stoppered and upright at 2–8°C up to 7 days. Freeze samples, devoid of red blood cells, at or below -20°C for longer storage.	Routine	Chemistry
			EXPECTED VALUE Non-Reactive	
HEPATITIS PROFILE- HEP. A IgM, HEP. B SURFACE AG/AB- HEP. B CORE Total- HEP. C AB, HBSAG Neut.	2 SST (10 mL) Or RED/ GOLD	Test samples as soon as possible after collecting. Store samples at 2–8°C if not tested immediately. Store samples always stoppered and upright at 2–8°C up to 7 days. Freeze samples, devoid of red blood cells, at or below -20°C for longer storage.	Routine	Chemistry
			EXPECTED VALUE Negative	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
HERPES 1/2	Lesion/Other Swab Cervical- Swab	Genital, Oral Herpes Male and Female 24 hours of collection Do not refrigerate. Must indicate source. Cervical Herpes Female 24 hours of collection Do not refrigerate.	3-5 days	REFERENCE LAB SEND OUT
			EXPECTED VALUE Negative	
HEPARIN INDUCEDOMBOCYTOP ENIA HIT ANTIBODY (ANTI-HEPARIN PF4) PANEL	Fill 90-100%-2.7 mL Light blue top (Na Cit)	Short draws or clotted specimens MUST be redrawn.	STAT ELIGIBLE	Coagulation
			EXPECTED VALUE 0.00-0.99 U/ml	
HELICOBACTER PYLORI Antigen (H. pylori)	Breath or Stool sample- Collect 0.5 mL or 0.5 grams of semi-solid stool or 20 mm diameter solid stool and transfer to properly labeled plastic, leak-proof container	Test may not be suitable for patients with phenylketonuria whose dietary phenylalanine should be restricted. Use of antimicrobials, proton pump inhibitors, or bismuth preparations within two weeks prior to administering the BreathTek™ UBT may cause a false negative result. A positive result is still valid. Do not place stool in preservative, transport media or swab. Watery, diarrheal stool is not acceptable.	Routine	REFERENCE LAB SEND OUT
			EXPECTED VALUE Negative	
HUMAN IMMUNODEFICIENCY VIRUS, HIV 1/2	Human serum and plasma (potassium-EDTA, lithium heparin, sodium heparin	Human serum and plasma (potassium-EDTA, lithium heparin, sodium heparin) B. Complete clot formation should take place before centrifugation. Specimens are processed by centrifugation, typically followed by physical separation of the serum or plasma from the red cells. The centrifugation step may occur up to 24 hours post draw.	24-72 HOURS	Chemistry
			EXPECTED VALUE Negative	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
HSV 1/2 IgM AB, REFLEX TITER	Red Top-Serum	Complete clot formation before centrifugation.	3-5 Days	REFERENCE LAB SEND OUT
			EXPECTED VALUE Negative	
INDIRECT BILIRUBIN	4 mL GREEN PST or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection. Bilirubin is extremely photosensitive. Care should be taken to protect sample from both daylight and fluorescent light to avoid photodegradation. Samples stored at 4 °C and analyzed within 5 days. Samples may be frozen at -20 °C or colder for up to 6 months.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE 0.0-0.9 mg/dl	
INFECTIOUS MONO TEST	The Clearview MONO test is performed using EDTA whole blood from venipuncture or finger stick using standard laboratory procedures. Whole blood is stable stored at 2-8°C for 48 hours. Do not freeze whole blood samples.		STAT ELIGIBLE	Serology
			EXPECTED VALUE Negative	
INFLUENZA A & B	Nasopharyngeal Swab Samples Nursing will collect all nasopharyngeal swab samples. Specimens must be properly labeled and may be sent in the original packaging or sent down in a sterile saline container. Visually bloody samples should not be used. SPECIMEN TRANSPORT AND STORAGE Specimens should be tested as soon as possible after collection		STAT ELIGIBLE	Serology
			EXPECTED VALUE Negative	
IRON	4 mL GREEN PST or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	STAT (In cases of poisoning)	Chemistry
			EXPECTED VALUE Male- 65.0-175.0 mcg/dl Female-50.0-170.0 mcg/dl	
IRON PANEL (Iron saturation, TIBC, Iron)	4 mL GREEN PST or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up	STAT (In cases of poisoning)	Chemistry
			ug/dL % iron sat. =20.0-50.0 % TIBC-	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
		to 3 months at -20° C or colder.		
KETONES-SERUM	RED/ SST	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE <0.6 mmol/L	
KETONES- URINE	Cup, syringe, vacuum bottle, clean, dry, and clearly labeled container. (dependent on specimen and collection method)	REFRIGERATE Cap tight and double bagged	STAT ELIGIBLE	Urinalysis
			EXPECTED VALUE Negative	
KLEIHAUER-BETKE- Rosette, Fetal Maternal Hemorrhage	Correctly filled 4 mL EDTA Lavender	Short draws or clotted specimens MUST be redrawn.	2 hours	Hematology
			EXPECTED VALUE None Seen	
KIDNEY- 24 HOUR STONE RISK	Call lab for collection container	FOLLOW INSTRUCTIONS PROVIDED	5 DAY	REFERENCE LAB SEND OUT
KOH- PREP- POTASSIUM HYDROXIDE	Sterile cup, syringe, vacuum bottle, swab, clean, dry, and clearly labeled container. (dependent on specimen and collection method)		STAT ELIGIBLE	Microbiology
			EXPECTED VALUE: Source dependent	
LACTATE DEHYDROGENASE (LD)	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE Female-84.0-245.0 U/L Male-87.0-241 U/L	
LACTATE DEHYDROGENASE,	Cup, syringe, vacuum bottle, swab, clean, dry, and clearly labeled		Routine	SJS Lab send out

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
Fluid	container. (dependent on specimen and collection method)		EXPECTED VALUE Source dependent	
LACTIC ACID - Venous (Venous Lactate)	Grey top tube- Recommended specimen type: Plasma (sodium fluoride/potassium oxalate).	Blood is best collected without stasis in a container of sodium fluoride/potassium oxalate, or sodium iodoacetate followed by immediate chilling of the specimen and separation of the cells within 15 minutes.	STAT ELIGIBLE	Chemistry
	Patient Preparation: The patient should be fasting and at complete rest		EXPECTED VALUE 0.4 – 2.0 mmol/L	
LACTOSE TOLERANCE TEST (3 HOUR)	SST or green sodium heparin	Brief the patient: 1. Once the drink is consumed, they may drink only water until the end of the test. 2. They will have specimens collected at designated intervals. 3. They should note any usual symptoms during the test and notify the phlebotomist	Timed	Chemistry
	Patient Preparation: The patient is fasting for 12 hours before the lactose is given.		EXPECTED VALUE The blood glucose value should rise 20 mg/dl above the fasting glucose	
LEGIONELLA AG, URINE	Sterile cup, syringe, vacuum bottle, and clearly labeled container. (dependent on specimen and collection method)	REFRIGERATE Cap tight and double bagged	Routine	Test sent from SEO to SJB
			EXPECTED VALUE Negative	
LEAD	3 mL EDTA tan top (obtain from lab or send patient to OP testing)	Collection material such as alcohol swabs should be lead-free. Use powderless gloves. Once washed, fingers must not come into contact with any surface. Clean area for venipuncture with lead-free alcohol swab prior to puncture.	3-5 days	REFERENCE LAB SEND OUT
			EXPECTED VALUE Birth-> 6 years=<3.5 mcg/dl	
LIDOCAINE	Preferred Specimen(s)-1 mL serum collected in a red-top tube (no gel) Alternative Specimen(s)-EDTA	Specimen Stability- Room temperature: 5 days Refrigerated: 7 days	Routine	REFERENCE LAB SEND OUT

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
	(lavender-top) tube, sodium heparin (green-top) tube, or fluoride/oxalate (gray-top) tube	Frozen: 30 days	EXPECTED VALUE 1.5-5.0 mg/L	
LIPASE	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2—8° C. frozen for up to 3 months at -20° C or colder.	Routine	Chemistry
			EXPECTED VALUE 73.0 – 393.0 U/L	
LIPASE, BODY FLUID	Cup, syringe, vacuum bottle, clean, dry, and clearly labeled container. (dependent on specimen and collection method)		Routine	Chemistry
			EXPECTED VALUE: Source dependent	
LIPID PROFILE- HDL, LDL, Triglyceride, Cholesterol, CHOL/HDL Ratio	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2—8° C. frozen for up to 3 months at -20° C or colder.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE See individual analyte CHOL/HDL Ratio=0.0-4.5	
LIPOPROTEIN, HIGH DENSITY (HDL)	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2—8° C. frozen for up to 3 months at -20° C or colder.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE HDL=>40.0 mg/dl	
LIPOPROTEIN, LOW DENSITY (LDL)	4 mL GREEN PST Or RED/ SST Recommended specimen types:	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of	STAT ELIGIBLE	Chemistry

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
	serum and plasma (lithium heparin).	collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.		
	Patient Preparation: None, Physician may request 8-12 hour fast		EXPECTED VALUE <100 mg/mg/dl	
LITHIUM	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum and plasma (SODIUM heparin).	Note last dose Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE 0.6 -1.2 mmol/L	
LIVER (HEPATIC) PROFILE—Total Protein, Albumin, Total Bilirubin, Direct bilirubin, Alk. Phosphatase, AST, ALT, AG Ratio	4 mL GREEN PST Or RED/ SST/GOLD Recommended specimen types: serum and plasma (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE See individual analyte	
LUTEINIZING HORMONE (LH)	4 mL GREEN PST Or RED/ SST/GOLD Recommended specimen types: serum and plasma (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	Routine	Chemistry
			EXPECTED VALUE 1.2-10.6 mIU/ml	
MAGNESIUM	4 mL GREEN PST Or Red/ SST Recommended specimen types: serum, plasma (lithium heparin)	Complete clot formation should take place before centrifugation. Serum or plasma should be physically separated from cells two hours from the time of collection. Magnesium in serum is stable when stored for 7 days at 20-25 °C or 7 days at 2-8 °C. Separated specimens may be stored frozen for up to 12 months at -20 °C or colder.	Routine	Chemistry
			EXPECTED VALUE 1.8 – 2.4 mg/dl Critical: 4.7 mg/dl	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
MAGNESIUM, 24-HOUR URINE	Aliquot of a well mixed 24 -hour urine collection in a Clean, dry, and clearly labeled container Patient Preparation: SEE URINE Chemistry- 24 hour for detailed collection instructions	A 24-hour urine specimen should be collected in a bottle containing 10 mL of 12M hydrochloric acid. Magnesium in urine is stable when stored for 7 days at 20-25 °C or 7 days at 2-8 °C. Separated specimens may be stored frozen for up to 12 months at -20 °C or colder.	24 HOURS	SJS Lab send out
			EXPECTED VALUE Urine: 12–291 mg/24 hour	
MATERNAL SCREEN α-Fetoprotein 	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	Samples stored at 4 °C and analyzed within one week. Samples stored frozen at -20 °C or colder for 10 months.	Routine	Chemistry
			EXPECTED VALUE 0.5- 8.0 ng/ml	
MICROALBUMIN, Urine	Clean, dry, and clearly labeled container. 3..	Second morning urine. First-morning sample for simultaneous albumin and creatinine measurement. Overnight (8-12-hour) collection 1- to 2-hour collection.	Routine	Chemistry
			EXPECTED VALUE Excretion rate: Less than 20 µg/min, Less than 2.0 mg/dl	
MICROALBUMIN, 24-Hour	Aliquot of a well-mixed 24-hour urine collection in a Clean, dry, and clearly labeled container Patient Preparation: SEE URINE Chemistry- 24 hour for detailed collection instructions.	Samples should not be collected: 1. after exertion 2. in the presence of urinary tract infection 3. during acute illness 4. immediately after surgery 5. after an acute fluid load. 6. Specimens should be collected without preservatives.	24 HOURS	Chemistry
			EXPECTED VALUE Less than 30 mg/24 hours	
MONOTEST- Infectious Mononucleosis	The Clearview MONO test is performed using EDTA whole blood from venipuncture or finger stick using standard laboratory procedures. Whole blood is stable stored at 2-8°C for 48 hours. Do not freeze whole blood samples.		STAT ELIGIBLE	Serology
			EXPECTED VALUE Negative	
NEEDLESTICK PANEL, EXPOSED PANEL- Hep. B Surf Antibody, Hep. C Antibody, HIV	RED/ SST-Serum	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	Routine	Chemistry
			EXPECTED VALUE See individual analyte	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
NEEDLESTICK PANEL SOURCE PANEL- Hep. B Surface Antigen, Neutralization, Hep. C Antibody, HIV	RED/ SST-Serum	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	Routine	Chemistry
			EXPECTED VALUE See individual analyte	
OCCULT BLOOD, GASTRIC	GASTRIC: a. Send gastric contents to the laboratory in a leak-proof plastic screw-capped container. b. Do not submit gastric samples on Gastro-Cult™ cards. Refrigerate at 2-8°C for up to 5 day Clean, dry, and clearly labeled container.		24 hours	Microbiology
			EXPECTED VALUE Negative	
OCCULT BLOOD, STOOL	Patient Preparation: STOOL: Collect a stool specimen in a clean dry container. Open the flap of a Hema-screen™ card. Using a wooden stick, spread stool on the test area. Transport at room temperature. May be refrigerated. b. NOTE: The patient should be placed on a red meat-free diet for three (3) days prior to this test, should not take ascorbic acid (vitamin C) in excess of 250 mg per day and should (after consulting with physician) discontinue some oral medications that cause gastrointestinal bleeding and occult bleeding		STAT ELIGIBLE	Microbiology
			EXPECTED VALUE Negative	
ORGANISM ID AND SENSITIVITY	SEE CULTURE SECTION OF THIS CATALOG.		72 hours aerobe/ 5 days anaerobe	Microbiology
			EXPECTED VALUE: Source dependent	
OSMOLALITY	Serum- Red/ SST	Complete clot formation before centrifugation. Serum should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE Male: 275-295 mOsm/kg Female: 270-290 mOsm/kg	
OSMOLALITY, URINE	Clean, dry, and clearly labeled container	REFRIGERATE Cap tight and double bagged	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE Urine: 50-1200 mOsm/kg	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
OVA AND PARASITES--O&P Must request a full O&P, otherwise only a Giardia / Crypto will be performed.	Complete O&P: TotalFix transport media, obtain from lab. For Giardia/ Crypto only, send in raw specimen, no fixative	Recommended at least three specimens, collected at 1-3-day intervals, be submitted for examination. Must be preserved in TotalFix media vial and received within 1 hour of collection.	3-5 days	REFERENCE LAB SEND OUT
	Patient Preparation: Wait 7-10 days after the ingestion Iron salts from antacids, Barium containing compound, Bismuth, Magnesium aluminum compounds, Kaolin (Kaopectate), Antibiotics especially tetracycline, Oil laxatives		EXPECTED VALUE Negative	
PARASITE, MACROSCOPIC EXAM (AKA WORM) Identification	Sterile cup and clearly labeled container. (dependent on specimen and collection method)	Adult worm in plastic screw-capped container	Routine	Microbiology
			EXPECTED VALUE Negative	
PARATHYROID HORMONE, Intact PANEL (PTH, CREAT. PHOS, CA)	Human serum and plasma (lithium heparin, sodium heparin, EDTA) are the recommended specimen types for this assay	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2—8° C. frozen for up to 3 months at -20° C or colder.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE See individual analyte	
PARATHYROID HORMONE, Intact (Intact PTH)	Human serum and plasma (lithium heparin, sodium heparin, EDTA) are the recommended specimen types for this assay	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2—8° C. frozen for up to 3 months at -20° C or colder.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE 18.4-80.1 mc/L	
PARATHYROID HORMONE, INTACT W/ CALCIUM	Human serum and plasma (lithium heparin, sodium heparin, EDTA) are the recommended specimen types for this assay	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2—8° C. frozen for up to 3 months at -20° C or colder.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE See individual analyte	
PENTOBARBITAL	4 mL GREEN PST or RED/ SST	Note last dose Complete clot formation before centrifugation. Serum or plasma	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
	Recommended specimen types: serum and plasma (lithium heparin).	should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.		
PH, BODY FLUID	Cup, syringe, vacuum bottle, clean, dry, and clearly labeled container. (dependent on specimen and collection method)	REFRIGERATE Cap tight and double bagged	Routine	Urinalysis
			EXPECTED VALUE: Source dependent	
PH, STOOL	Screw-capped container	REFRIGERATE Cap tight and double bagged	Routine	Urinalysis
			EXPECTED VALUE N/A	
PH, URINE	Clean, dry, and clearly labeled container	REFRIGERATE Cap tight and double bagged	Routine	Urinalysis
			EXPECTED VALUE First morning = pH 5 to 6, Random= pH 4.8 to pH 7.5.	
PHENOBARBITAL	4 mL GREEN PST or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	Note last dose Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE 15.0-40.0 mcg/ml	
PHENYTOIN/ DILANTIN	4 mL GREEN PST or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	Note last dose Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE 10.0-20.0 mcg/ml	
PHOSPHORUS, INORGANIC PHOSPHATE	4 mL GREEN PST or RED/ SST Recommended specimen types:	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE 2.5 – 4.9 mg/dl	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
	serum and plasma (lithium heparin).	temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	Critical: < 1.0 or >9.0 mg/dl	
PHOSPHORUS, URINE 24 HOUR	Aliquot of a well -mixed 24-hour urine collection in a Clean, dry, and clearly labeled container	Collection of 24-hour urine specimen in a container with 10 to 20 mL of 6M HCl. If preservatives are not used during collection, acidify the sample to below pH 3.0 before analysis.	24 HOURS	SJS Lab send out
	Patient Preparation: SEE URINE Chemistry- 24 hour for detailed collection instructions		EXPECTED VALUE Urine: 0.4–1.3 g/24hour [12–42 mmol/24 hour]	
PINWORM PREP	Patient Preparation: A pinworm collection kit is a plastic tube with a paddle attached to the lid and is available from the laboratory. The paddle has a sticky side placed against the perirectal area in the early morning before the patient gets out of bed and moves around. Replace the inoculated paddle into the tube and cap. It is recommended to collect one specimen on three consecutive days. Transport at room temperature.		Routine	Microbiology
			EXPECTED VALUE Negative	
PKU / NEWBORN SCREEN=	The Illinois panel: amino/urea cycle disorders, biotinidase deficiency, congenital adrenal hyperplasia, congenital hypothyroidism, cystic fibrosis, fatty acid oxidation disorders, galactosemia, lysosomal storage disorders, organic disorders, phenylketonuria, severe combined immune deficiency, sickle cell disease, hearing loss and critical congenital heart disease. Specimen filter requisition (supplied by the IDPH) UPS mailer envelope, and UPS shipping label, Heel lancet, Gauze and Alcohol wipes, Band-Aid Collection and processing of neonatal screens is critically important. For a valid screen, the infant must be at least 24 hours old. (There is no upper age limit for the test.) The nursing staff will collect the neonatal screen before the infant leaves the hospital. If the infant leaves the hospital before he/she is 24 hours old, a second neonatal screen must be collected and sent to the IDPH laboratory within 21 days.		Infant must be at least 24 hours	Reference Send out
			EXPECTED VALUE Results vary by infant age and test ordered.	
PLATELET COUNT	Correctly filled 4 mL EDTA Lavender	Short draws or clotted specimens MUST be redrawn.	STAT ELIGIBLE	Hematology
			EXPECTED VALUE 130-400 x10 ³ /mcl	
PLATELET FUNCTION	Fill 90-100%-2.7 mL Light blue top	Short draws or clotted specimens MUST be	STAT ELIGIBLE	Hematology

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
ASSAY Platelet Function Analysis (PFA, PFA-100, Closure Time)	(Na Citrate)	redrawn.	EXPECTED VALUE EPI-80-184 seconds ADP-56-102 seconds	
POINT of CARE: POC ACT	A plain syringe	Immediately remove any air drawn into the syringe. Mix the sample for 20 – 30 seconds by rolling the syringe vigorously between the palms in two different directions. if not tested immediately, remix the sample before testing.	STAT ELIGIBLE	POC
			EXPECTED VALUE 74-125 SECONDS	
POINT of CARE: POC CREATININE	Collect blood into a green top tube, plain syringe or lithium heparin syringe	Immediately remove any air drawn into the syringe. Mix the sample for 20 – 30 seconds by rolling the syringe vigorously between the palms in two different directions. if not tested immediately, remix the sample before testing.	STAT ELIGIBLE	POC
			EXPECTED VALUE 0.6 - 1.3 mg/dL	
POINT of CARE: POC GLUCOSE	Collect blood into a green top tube, plain syringe or lithium heparin syringe	Immediately remove any air drawn into the syringe. Mix the sample for 20 – 30 seconds by rolling the syringe vigorously between the palms in two different directions. if not tested immediately, remix the sample before testing.	STAT ELIGIBLE	POC
			EXPECTED VALUE 70 – 105 mg/dL	
POINT of CARE: POC HEMATOCRIT	Collect blood into a green top tube, plain syringe or lithium heparin syringe	Immediately remove any air drawn into the syringe. Mix the sample for 20 – 30 seconds by rolling the syringe vigorously between the palms in two different directions. if not tested immediately, remix the sample before testing.	STAT ELIGIBLE	POC
			EXPECTED VALUE 38 – 51 %	
POINT of CARE: POC	Collect blood into a green top tube,	Immediately remove any air drawn into the	STAT ELIGIBLE	POC

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
IONIZED CALCIUM	plain syringe or lithium heparin syringe	syringe. Mix the sample for 20 – 30 seconds by rolling the syringe vigorously between the palms in two different directions. if not tested immediately, remix the sample before testing.	EXPECTED VALUE 1.1 - 1.3 mmol/L	
POINT of CARE: POC POTASSIUM	Collect blood into a green top tube, plain syringe or lithium heparin syringe	Immediately remove any air drawn into the syringe. Mix the sample for 20 – 30 seconds by rolling the syringe vigorously between the palms in two different directions. if not tested immediately, remix the sample before testing.	STAT ELIGIBLE	POC
			EXPECTED VALUE 3.5 - 4.9 mmol/L	
POINT of CARE: POC SODIUM	Collect blood into a lithium heparin green top tube, plain syringe or lithium heparin syringe.	Immediately remove any air drawn into the syringe. Mix the sample for 20 – 30 seconds by rolling the syringe vigorously between the palms in two different directions. if not tested immediately, remix the sample before testing.	STAT ELIGIBLE	POC
			EXPECTED VALUE 138 – 146 mmol/L	
POINT of CARE: POC PROTIME	Specimen: 8 mcL drop capillary whole blood applied directly to the CoaguChek XS PT Test strip from the puncture site of the fingertip.		STAT ELIGIBLE	POC
			EXPECTED VALUE PT=9.6-12.2 seconds INR=0.8-3.5	
POTASSIUM	4 mL GREEN PST or RED/ SST Recommended specimen types: serum and plasma (lithium heparin). Avoid hemolysis.	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temp., 7 days at 2–8° C, 3 months at -20° C or colder.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE 3.5-5.1 mmol/L	
POTASSIUM-	Aliquot of a well mixed 24- hour urine collection in a Clean, dry, and clearly labeled container	Twenty-four-hour urine collection for potassium should be made without preservatives. Store at 2–8 °C or frozen for delayed analysis	24 HOURS	SJS Lab send out

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
24 HOUR URINE	Patient Preparation: SEE URINE Chemistry- 24 hour for detailed collection instructions		EXPECTED VALUE 25-125 mmol/24 hour	
POTASSIUM-URINE	Clean, dry, and clearly labeled container	REFRIGERATE Cap tight and double bagged	Routine	Lab send out
			EXPECTED VALUE Negative	
PROCALCITONIN	Human plasma (lithium heparinate)	The plasma separated can be stored at 2 - 8°C in stoppered tubes for up to 48 hours. Freeze at -25 + 6°C. for up to Six months	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE <0.5 ng/mL= low risk >2 ng/mL high risk of severe sepsis and/or septic shock	
PROGESTERONE	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection And are stable for 24 hours at room temperature, 7 days at 2—8° C. frozen for up to 3 months at -20° C or colder.	Routine	Chemistry
			EXPECTED VALUE 0.0 – 1.9 ng/ml	
PROLACTIN	Recommended specimen types: serum, lithium and/or sodium heparin and EDTA plasma. B. Samples and controls stabilized with sodium azide cannot be used.	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temp., 7 days at 2—8° C. 3 months at -20° C or colder.	Routine	Chemistry
			EXPECTED VALUE 2.5 -17.4 ng/ml	
PROSTATIC SPECIFIC ANTIGEN, FREE PSA 	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum and plasma (lithium heparin). Samples and controls stabilized with sodium azide cannot be used	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2—8° C. frozen for up to 3 months at -20° C or colder.	24 HOURS	Chemistry
			EXPECTED VALUE <4.0 ng/ml	
PROSTATIC SPECIFIC ANTIGEN, PSA, FREE & TOTAL	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum and plasma (lithium heparin). Samples and controls stabilized with	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2—8° C. frozen for up	24 HOURS	Chemistry
			EXPECTED VALUE See individual analyte	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
	sodium azide cannot be used	to 3 months at -20° C or colder.		
PROSTATIC SPECIFIC ANTIGEN, PSA, SCREEN 	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum and plasma (lithium heparin). Samples and controls stabilized with sodium azide cannot be used	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2—8° C. frozen for up to 3 months at -20° C or colder.	24 HOURS	Chemistry
			EXPECTED VALUE <4.0 ng/ml	
PROSTATIC SPECIFIC ANTIGEN, PSA, TOTAL 	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum and plasma (lithium heparin). Samples and controls stabilized with sodium azide cannot be used	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2—8° C. frozen for up to 3 months at -20° C or colder.	24 HOURS	Chemistry
			EXPECTED VALUE <4.0 ng/ml	
PROTEIN, TOTAL,	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2—8° C. frozen for up to 3 months at -20° C or colder.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE Adult- 6.4 – 8.2 g/dl	
PROTEIN, 24- HOUR URINE	Aliquot of a well-mixed 24-hour urine collection in a Clean, dry, and clearly labeled container	Random urine specimens may be used but timed 24-hour specimens are preferred. No preservative is required during 24-hour collection, urine aliquots should be stored at 2 – 4 °C or frozen.	Timed	Chemistry
	Patient Preparation: SEE URINE Chemistry- 24 hour for detailed collection instructions		EXPECTED VALUE < 149.1 mg/day	
PROTEIN, Urine Random	Recommended specimen types: urine. Specimens stored at 4 °C with no additives are stable for at least three days.	Random urine specimens may be used but timed 24-hour specimens are preferred. No preservative is required during 24-hour collection, but thereafter urine aliquots should be stored at 2 – 4 °C or frozen.	Routine	Chemistry
			Urine: < 11.9 mg/dL	
PROTEIN TOTAL,	Cup, syringe, vacuum bottle, clean,	REFRIGERATE	Routine	Chemistry

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
Fluid	dry, and clearly labeled container. (dependent on specimen and collection method)	Cap tight and double bagged	EXPECTED VALUE: Source dependent	
PROTIME-INR Prothrombin Time/International Normalized Ratio (PT/INR)	Fill 90-100%-2.7 mL Light blue top (Na Citrate)	Short draws or clotted specimens MUST be redrawn. Testing done < 24 hours of collection. Keep tube at room temperature, do not open, do not spin.	STAT ELIGIBLE	Coagulation
			EXPECTED VALUE: PT-10.2-12.9 seconds INR-Critical Value is an INR ≥ 5.0.	
RAPID STREP A SCREEN	Using the Swab and a tongue depressor, collect the specimen by holding the patient's tongue down with the tongue depressor and rubbing the swab on the tonsils or any areas of inflammation. Signs of inflammation include pus drainage or redness in the back of the throat. Avoid contact with the tongue and sides of the mouth with the swab. It is recommended that swab specimens be processed as soon as possible after collection, however if a transport system swab is used it is stable for up to 24 hours.		STAT ELIGIBLE	Serology
			EXPECTED VALUE Negative	
RED BLOOD CELL COUNT	Correctly filled 4 mL EDTA Lavender	Short draws or clotted specimens MUST be redrawn.	STAT ELIGIBLE	Hematology
			EXPECTED VALUE Male: 4.70-6.10 x10 ⁶ /mcl Female: 4.20-5.40 x10 ⁶ /mcl	
RENAL (Kidney) FUNCTION PANEL Glucose, BUN, Creat., Sodium, Potassium, Chloride, CO ₂ , Calcium, Albumin, Phosphorus, Anion Gap, BUN/Creat Ratio, GFR, GFAA	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum and plasma (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE See individual analyte	
RESPIRATORY SYNCYTIAL VIRUS (RSV)	Submit nasopharyngeal secretions, obtained by aspiration or washings, in a leak-proof sterile plastic screw-capped container. Refrigerate. Obtain specimen using nasopharyngeal swabs. Immobilize the patient's head and insert a nasopharyngeal swab into the nostril to the posterior nares. Rotate and remove. Submit swab in a 2.5 mL sterile glass saline tube obtained from the laboratory. Refrigerate		STAT ELIGIBLE	Serology
			EXPECTED VALUE Negative	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
RESPIRATORY PANEL 2.1 Biofire®	Nasopharyngeal Swab (NPS) collected according to standard technique and immediately placed in up to 3 mL of transport media.	Place specimens in separate biohazard bag, one specimen per bag. Specimens should be tested as soon as possible. If storage is required, specimens can be held: • At room temperature for up to 4 hours (15-25 °C) • Refrigerated for up to 3 days (2-8 °C) • Frozen (≤ -15 °C or ≤ -70 °C) (for up to 30 days)	STAT ELIGIBLE	Microbiology
			EXPECTED VALUE None detected	
RETICULOCYTE COUNT	Correctly filled 4 mL EDTA Lavender	Short draws or clotted specimens MUST be redrawn.	STAT ELIGIBLE	Hematology
			EXPECTED VALUE 0.8-2.1 %	
RHOGAM WORK-UP, RH IMMUNE GLOBULIN ANTEPARTUM, RhD	An EDTA tube should be collected no sooner than 1 hour after delivery of all products of conception to allow the fetal blood to mix thoroughly in the maternal circulation. The sample should be collected as soon as possible thereafter.		STAT ELIGIBLE	Transfusion Medicine
			EXPECTED VALUE Negative- 1 vial needed	
RHEUMATOID FACTOR	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum or lithium heparinized plasma	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and 24 hours at room temp., 7 days at 2—8° C. 3 months at -20° C or colder.	24 HOURS	Chemistry
			EXPECTED VALUE Negative	
RUBELLA, IgG	Serum, Heparinized Plasma, EDTA Plasma	Test samples as soon as possible after collecting. Store samples at 2–8°C up to 7 days. Specimens may be stored on the clot. H. Freeze samples, devoid of red blood cells, at or below -20°C for longer storage.	Routine	Chemistry
			EXPECTED VALUE < 5.0 IU/mL = negative ≥ 5.0 IU/mL and ≤9.9 IU/mL = equivocal ≥10.0 IU/mL = positive for IgG antibodies to rubella virus	
RUBEOLA IMMUNE STATUS	Red top	Serum-Room temperature: 4 days Refrigerated: 7 days Frozen: 30 days	24 HOURS	Reference send out
			EXPECTED VALUE >16.49 Consistent with	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
			immunity	
SALICYLATE	RED/ SST Recommended specimen types: serum	Complete clot formation before centrifugation. Separate serum from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. 3 months at -20° C or colder.	STAT ELIGIBLE	Chemistry
			Therapeutic Range: 2.8 – 20.0 mg/dL [0.20 – 1.45 mmol/L] Toxic ≥ 30	
SARS --SOFIA SARS ANTIGEN	Nasopharyngeal Swab--Use the swab provided in the kit or a nylon flocked swab. Both nostrils must be swabbed. Carefully insert the swab into the first nostril. Keep the swab near the septum floor of the nose while gently pushing the swab into the posterior nasopharynx. Rotate the swab several times then remove it from the nasopharynx. Repeat on the second nostril. Place the inoculated swab into a sterile non-additive transport tube. DO NOT return the swab to the original wrapper. No Viral Transport Media (VTM) permitted. Test samples as soon as possible after collection. Swabs are stable for up to 48-hours at room temperature or 2° to 8°C.		STAT ELIGIBLE	Serology
			EXPECTED VALUE Negative	
SARS--SOFIA 2 FLU + SARS ANTIGEN FIA	Nasopharyngeal Swab Samples Nursing will collect all nasopharyngeal swab samples. Specimens must be properly labeled and may be sent in the original packaging or sent down in a sterile saline container. Visually bloody samples should not be used.		STAT ELIGIBLE	Serology
			EXPECTED VALUE Negative	
SCABIES, ORGANISM ID	Scrape the infected skin with a sharp scalpel and a drop of mineral oil by pinching the fold of skin and scraping the crest of the fold several times in the same direction. 2. Place the scrapings onto a glass slide containing mineral oil. Coverslip and place the slide into a slide holder. 3. Transport at room temperature		24 Hours	Microbiology
			EXPECTED VALUE Negative	
SEMEN ANALYSIS, COMPLETE	Clean, dry, and clearly labeled container	Close to body temperature Cap tight and double bagged	Routine	Hematology
	Patient Preparation: By appointment only. Call the lab for collection instructions.		EXPECTED VALUE Sperm Conc. ≥20 M/ml Morph. Normal forms ≥30%	
SEMEN ANALYSIS - Post Vasectomy	Clean, dry, and clearly labeled container	Close to body Temperature Cap tight and double bagged	Routine	Hematology
	Patient Preparation: By appointment only. Call the lab for collection instructions.		EXPECTED VALUE None seen	
SEMEN--SPERM WASHING	Clearly labeled Sterile cup	Close to Body temperature Cap tight and double bagged	STAT ELIGIBLE	Hematology

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
	Patient Preparation: By appointment only. Call the lab for collection instructions.		EXPECTED VALUE Patient dependent	
SICKLE CELL TEST	Correctly filled 4 mL EDTA Lavender	Short draws or clotted specimens MUST be redrawn.	STAT ELIGIBLE	Hematology
			EXPECTED VALUE Negative	
SODIUM	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum or lithium heparinized plasma	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE 136-145 mmol/L	
SODIUM, 24-hour Urine	Aliquot of a well-mixed 24-hour urine collection in a Clean, dry, and clearly labeled container	Twenty-four-hour urine collection for sodium should be made without preservatives. Store at 2–8 °C or frozen for delayed analysis	24 HOURS	SJS Lab send out
	Patient Preparation: SEE URINE Chemistry- 24 hour for detailed collection instructions		EXPECTED VALUE Urine (40–220 mmol/24 hour)	
SPECIFIC GRAVITY, URINE	Clean, dry, and clearly labeled container	REFRIGERATE Cap tight and double bagged	STAT ELIGIBLE	Urinalysis
			EXPECTED VALUE 1.010-1.025	
STOOL, CLOSTRIDIUM DIFFICILE	C. Diff AG/Toxin and DNA Molecular. Collect in clean dry container and transfer to a leak-proof screw-capped container. Transport separately in biohazard zip-lock bag. Aliquoting of specimens should be performed separately. Aliquots may not be returned to the original container. b. Submit a liquid stool to the lab within 2 hours if not refrigerated. Store at room temp (21-27 °C) within two hours of collection (see Rejection Criteria above). c. Store for up to 24 hours or 3 days refrigerated (2-8°C). d. Specimens that will not be tested within these time frames must be frozen immediately upon receipt and stored at ≤-20°C for seven days prior to testing. Specimens may be frozen and thawed once. e. Patients should be over 6 months in age, have a history of antibiotic therapy and significant diarrhea.		24 hours	Microbiology
			EXPECTED VALUE Negative	
STOOL for LACTOFERRIN, White	Collect fecal specimens in a clean, airtight container with no preservatives. Specimens should be stored at 2-8°C or room temperature for up to 2 weeks from time of		STAT ELIGIBLE/ 24 hours	Microbiology

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
Blood Cell	collection then stored frozen at -20°C or lower.		EXPECTED VALUE Negative	
STREP A, RAPID	Collect the throat swab specimen with the sterile rayon swab. Do not use calcium alginate, cotton-tipped or wooden shaft swabs. Swab specimens may be stored at room temperature or refrigerated for up to 72 hours prior to testing.		STAT ELIGIBLE	Revogene
			EXPECTED VALUE Negative	
Streptococcus Pneumoniae Screen	Levofloxacin and Oxacillin disks are used to screen Streptococcus pneumoniae isolates from respiratory sources including, throat, eyes, ears and nose for levofloxacin and penicillin susceptibility (oxacillin result used) respectively.		24-72 HOURS	Microbiology
			EXPECTED VALUE Negative	
SYPHILIS IGG ANTIBODY	Human serum and plasma (EDTA, lithium-heparin, sodium-heparin, citrate).	Complete clot formation before centrifugation. Separate serum or plasma from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	Routine	Chemistry
			EXPECTED VALUE Negative	
TB QUANTIFERON	Call lab for tubes	DO NOT REFRIGERATE DO NOT SPIN	2 Days	REFERENCE LAB SEND OUT
			EXPECTED VALUE Negative	
TESTOSTERONE (Total, MS, Free Testosterone, Bioavailable Sex Hormone Binding Globulin (SHBG)	Serum collected in a red-top tube (no gel)	Room temperature: 7 days Refrigerated: 21 days Frozen: 60 days	Routine	REFERENCE LAB SEND OUT
Albumin) 			EXPECTED VALUE See Laboratory Report	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
THINPREP, FEMALE 	CERVIX: a. Use the APTIMA Specimen Transfer Kit (green tube). 1 mL of ThinPrep specimen is placed in the APTIMA Tube. b. Place specimen in a ziplock bag (one specimen per ziplock). The specimen may be refrigerated or left at room temperature before being packaged for shipment. Thin layer preparations of body cavity fluids are made on the T2000 processor for the detection of cancer cells.		Specimens shipped everyday, Monday through Friday.	Cytology
			EXPECTED VALUE None seen	
THEOPHYLLINE (Aminophylline, Slophylline, Tedral)	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum or lithium heparinized plasma	Note last dose Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	STAT ELIGIBLE	Chemistry
			Therapeutic Range 10-20 µg/ml Toxic Range >20 µg/ml	
THERAPEUTIC PHLEBOTOMY	Patient Preparation: Due to necessary monitoring of the patient throughout the procedure, therapeutic phlebotomies are performed by appointment only. Patients more than 10 minutes late may have to be rescheduled. The attending provider assumes responsibility for the decision to request that therapeutic phlebotomy be performed on the patient if diagnosis, symptoms and preset criteria have been met prior to initiating the request. The physician will determine criteria for the phlebotomy and the laboratory will perform required testing to ensure that patient meets these requirements. Example: Perform phlebotomy (450 mL) if patient's hematocrit is greater than 48%. Laboratory will perform testing and if criteria are met the phlebotomy will be performed as ordered. General qualifications for blood donation: <ol style="list-style-type: none"> 1. Patient must weigh at least 110 lbs. 		Routine	Phlebotomy

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
	<ol style="list-style-type: none"> 2. Patient is 17 years of age or older 3. Hgb is \geq 11 g/dL 4. Hct is \geq33% 5. Donor temperature is not to exceed 99.5° F 6. Pulse is 50-100 beats per minute 7. Blood pressure is >90/50 and <180/100 <p>The following patients must have Medical Director approval prior to donation: Patients with a myocardial infarction within the past 3 months History of unstable angina Hemoglobin and or hematocrit out of acceptable range.</p>		EXPECTED VALUE Physician and Patient dependent	
THYROGLOBULIN (TG, Thyroid Cancer Monitoring) 	Serum-Red Top	Room temperature: 6 days Refrigerated: 7 days Frozen: 28 days	Routine	Reference send out
	Patient Preparation: Dietary supplements containing biotin may interfere in assays and may skew results to be either falsely high or falsely low. For patients receiving the recommended daily doses of biotin, draw samples at least 8 hours following the last biotin supplementation. For patients on mega-doses of biotin supplements, draw samples at least 72 hours following the last biotin supplementation.		EXPECTED VALUE Thyroglobulin Antibody \leq 1 IU/mL Thyroglobulin Athyrotic: <0.1 ng/mL Thyroglobulin, LC/MS/MS Athyrotic: <0.4 ng/mL	
THYROXINE BINDING GLOBULIN (TBG)	Serum	Complete clot formation before centrifugation. Room temperature: 7 days Refrigerated: 7 days Frozen: 28 days	Routine	Reference send out
			EXPECTED VALUE Adult Male=12.7-25.1 mcg/mL Adult Female=13.5-30.9 mcg/mL	
TIBC-TOTAL IRON BINDING CAPACITY	Recommended specimen types: serum and plasma (lithium and/or sodium heparin). Do not use EDTA plasma.	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection. Samples should be stored at 4 °C	Routine	Chemistry
			EXPECTED VALUE 250–450 μ g/dL [44.8–80.6	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
		for up to 7 days and may be frozen at -20 °C for up to 6 months.	µmol/L]1	
TISSUE EXAM BY PATHOLOGIST	Tissue specimen in a sterile cup, no swab		Routine	Histology
			EXPECTED VALUE: Source dependent	
TOBRAMYCIN, PEAK	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum or plasma (lithium heparin).	Note last dose COLLECTION TIME DEPENDS ON ROUTE OF ADMINISTRATION SPIN/ REFRIGERATE	Timed	Chemistry
			Therapeutic Range Trough- 0.5-2.0 µg/ml Peak-4.0-8.0 µg/ml Trough Toxic >2.0 µg/ml E. Peak Toxic >12.0 µg/ml F. Random Toxic >12.0 µg/ml G.	
TOBRAMYCIN, RANDOM	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum or plasma (lithium heparin).	Note last dose Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2—8° 3 months at -20° C or colder.	STAT ELIGIBLE	Chemistry
			Therapeutic Range Random Toxic >12.0 µg/ml	
TOBRAMYCIN, TROUGH	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum or plasma (lithium heparin).	Collect just prior to next dose	Timed	Chemistry
			Therapeutic Range Trough=0.5-2.0 µg/ml Trough Toxic >2.0 µg/ml	
TOTAL/ DIRECT BILIRUBIN	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum or plasma (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection Bilirubin is extremely photosensitive. Protect sample from both daylight and fluorescent light to avoid photodegradation. Samples should be stored	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE *- See Bilirubin, Total for age specific value. Total=0.2–1.0 mg/dL Direct=0–0.2 mg/dL	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
		at 4 °C and analyzed within 5 days.		
TOTAL PROTEIN	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum or plasma (lithium heparin).	Complete clot formation before centrifugation. Separate Serum or plasma from cells within two hours of collection and are stable for 24 hours at room temp., 7 days at 2–8° C. 3 months at -20° C or colder	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE Adult- 6.4 – 8.2 g/dl	
TOTAL T4	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum or plasma (lithium heparin).	Complete clot formation before centrifugation. Separate Serum or plasma from cells within two hours of collection are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder	Routine	Test sent from SEO to SJH
			EXPECTED VALUE Adult: 4.7–13.3 µg/dL Infants (1–23 months) 7.4–14.3 Children (02–12 years) 6.8–12.5 Adolescents (13–20 years) 6.0–11.6	
TRANSFERRIN	Serum, lithium heparinized plasma, sodium heparinized plasma, EDTA plasma or urine	Complete clot formation before centrifugation. Separate Serum or plasma from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	Routine	Chemistry
			EXPECTED VALUE Serum/plasma: 200 – 360 mg/dL Urine: <0.245 mg/dL	
TRANSFUSE CRYOPRECIPITATE	After the patient is banded, Correctly filled 4 mL EDTA Lavender	Blood specimen must be collected, and type and screen must be performed. Verify that the patient has a type and screen performed on current admission	STAT ELIGIBLE	Transfusion Medicine
TRANSFUSE- FRESH FROZEN PLASMA	After the patient is banded Correctly filled 4 mL EDTA Lavender	Blood specimen must be collected, and a type and screen performed. A confirmation ABO/Rh must be tested. The recipient patient must have a type and screen and previous ABO/Rh performed during the current hospital admission	STAT ELIGIBLE	Transfusion Medicine
TRANSFUSE- PLATELETS	After the patient is banded, Correctly filled 4 mL EDTA Lavender	The recipient patient must have a type and screen and previous ABO/Rh performed during the current hospital admission. If not,	STAT ELIGIBLE	Transfusion Medicine

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
		a blood specimen must be collected, and a type and screen performed. A confirmation ABO/Rh must be tested.		
TRANSFUSE- RED BLOOD CELLS	After the patient is banded, correctly filled 4 mL EDTA Lavender	Blood specimen must be collected, and a type and screen performed. A confirmation ABO/Rh must be tested. The recipient patient must have a type and screen and previous ABO/Rh performed during the current hospital admission	STAT ELIGIBLE	Transfusion Medicine
TRANSFUSION REACTION WORK-UP	Pre-transfusion blood sample and Post -transfusion EDTA blood sample		STAT ELIGIBLE	Transfusion Medicine
			EXPECTED VALUE Negative	
TRANSFUSION RELATED ACUTE LUNG INJURY (TRALI)	Pre-transfusion blood sample and Post -transfusion EDTA blood sample		STAT ELIGIBLE	Transfusion Medicine
TRICHOMONAS ANTIGEN (RAPID) and WET PREP	Vaginal secretions are obtained from the posterior fornix using a sterile swab during a speculum examination and placed in BBL Stuarts transport media. a. Specimens should be transported at room temperature. Male urethral swabs may NOT be used in this system. Alternately, in males, a wet prep on sediment from 15 mL of "dirty" voided urine can be used. a. Specimens should be transported at room temperature and received in the lab within an hour of collection. Do Not refrigerate.		STAT ELIGIBLE	Microbiology
			EXPECTED VALUE Negative	
TRIGLYCERIDE	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum or plasma (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE <150 mg/dl	
TRIGLYCERIDE-FLUID	Cup, syringe, vacuum bottle, clean, dry, and clearly labeled container.	REFRIGERATE Cap tight and double bagged	Routine	SJS Lab send out

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
	(dependent on specimen and collection method)		EXPECTED VALUE: Source dependent	
TROPONIN I, HIGH SENS	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum or plasma (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE 42.2–82.3 pg/mL	
TROPONIN, QUANT.	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum or plasma (lithium heparin).	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE 0.045 ng/ml	
TSH-THYROID STIMULATING HORMONE	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum or plasma (lithium heparin)	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE Adult Population: 0.358–3.74 μIU/mL [mIU/L]	
TSH W/REFLEX TO FRT4	4 mL GREEN PST Or RED/SST Recommended specimen types: serum or plasma (lithium heparin)	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE See individual analyte	
TYPE & SCREEN Blood type and unexpected antibody screen	Correctly filled 4 mL EDTA Lavender		STAT ELIGIBLE	Transfusion Medicine
			EXPECTED VALUE Screen=Negative	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
URIC ACID	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum or plasma (lithium heparin	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE Female: 2.6–6.0 mg/dL Male: 3.5–7.2 mg/dL Urine: 250–750 mg/24 hours [0.89–5.89 mmol/24 hours] Random Urine: 37-92 mg/dl	
URIC ACID, FLUID	Cup, syringe, vacuum bottle, and clearly labeled container. (dependent on specimen and collection method)	Cap tight and double bagged	Routine	SJS Lab send out
			EXPECTED VALUE: Source dependent	
URIC ACID, URINE RANDOM	2 ml urine Clean, dry, and clearly labeled container	REFRIGERATE Cap tight and double bagged	Routine	SJS Lab send out
			EXPECTED VALUE Random Urine: 37-92 mg/dl	
URIC ACID, URINE 24 HOUR	Aliquot of a well-mixed 24-hour urine collection in a clean, dry, and clearly labeled container Patient Preparation: SEE URINE Chemistry- 24 hour for detailed collection instructions	REFRIGERATE Cap tight and double bagged	Routine	SJS Lab send out
			Urine: 250–750 mg/24 hours [0.89–5.89 mmol/24 hours]	
URINALYSIS- (Dip) color, clarity, glucose, bilirubin, ketone, specific gravity, blood, urobilinogen, nitrate, leukocyte esterase	15 mL urine, gray urine preserve vacutainer, AND yellow urine vacutainer transport tube Or Sterile cup	CLEAN CATCH PREFERRED REFRIGERATE Cap tight and double bagged	STAT ELIGIBLE	Urinalysis
			EXPECTED VALUE Bili-Ket-Gluc-Bld-Nit-LE= Negative, Ph-5-9 Uro-norm-1.0 mg/dl Sp. Grav=1.015-1.025	
URINALYSIS REFLEX	15 mL urine, gray urine preserve	Clean catch preferred REFRIGERATE	STAT ELIGIBLE	Urinalysis

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
TO CULTURE- Dip + Culture	vacutainer, AND yellow urine vacutainer transport tube Or Sterile cup		EXPECTED VALUE Dip +Culture- no growth	
URINALYSIS WITH MICROSCOPIC/REFLEX TO MICROSCOPIC- Dip + WBC, RBC, Epi cells, Bacteria	15 mL urine, gray urine preserve vacutainer, AND yellow urine vacuum transport tube Or Sterile cup	Clean catch preferred REFRIGERATE Cap tight and double bagged	STAT ELIGIBLE	Urinalysis
			EXPECTED VALUE WBC-0-5 HPF, RBC-0-5 HPF, EPI/Bact- non-seen	
URINE Chemistry- Calcium, Chloride, Potassium, Magnesium, Sodium, Phosphorus, Urea Nitrogen, Uric Acid	2 ml urine Clean, dry, and clearly labeled container	REFRIGERATE Cap tight and double bagged	Routine	SJS Lab send out
			EXPECTED VALUE See individual analyte	
URINE Chemistry- 24- hour Calcium, Chloride, Cortisol, Potassium, Magnesium, Total Protein, Sodium, Phosphorus, Urea Nitrogen, Uric Acid	Patient Preparation: Empty your bladder and flush as usual. This will be the START of the 24-hour collection period. Record the START date and time on the collection container label. 2. If you have an indwelling catheter, START the 24-hour collection period with a fresh empty bag. Transfer the urine from the bag into the collection container every 2 hours during the 24-hour collection period. 3. Collect ALL urine voided during the next 24-hours and add to the collection container. Any urine voided but NOT place in the container will cause the collection to be incomplete and must be started OVER with a new collection container. 4. Keep the collected urine refrigerated or on ice to minimize odors and bacterial growth. 5. 24-hours after the start of the collection, empty your bladder (or bag) into the collection container and record the FINISH date and time on the collection container label.		24 HOURS	SJS Lab send out
			EXPECTED VALUE See individual analyte	
URINE CYTOLOGY 	5ml Urine Cup	Indicate source; 1 ml minimum	Routine	Cytology
			EXPECTED VALUE: Source dependent	
URINE MICROSCOPIC ONLY	Yellow urine vacutainer transport tube Or Sterile cup	Clean catch preferred REFRIGERATE Cap tight and double bagged	STAT ELIGIBLE	Urinalysis
			EXPECTED VALUE WBC-0-5 HPF, RBC-0-5 HPF,	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
			EPI/Bact- non-seen	
URINE UREA NITROGEN	Clean, dry, and clearly labeled container	REFRIGERATE Cap tight and double bagged	Routine	SJS Lab send out.
			EXPECTED VALUE 90-3000 mg/dl	
URINE UREA NITROGEN- 24 HOUR	Aliquot of a well-mixed 24-hour urine collection in a clean, dry, and clearly	Collect a 24-hour urine specimen for urine urea nitrogen measurement. Urine urea nitrogen is stable at 4-8 °C for 4 days or when preserved with thymol to avoid bacterial action.	24 HOURS	SJS Lab send out .
			EXPECTED VALUE 12–20 g/24 hours	
Patient Preparation: SEE URINE Chemistry- 24 hour for detailed collection instructions				
VALPROIC ACID (Depakene, Epival) Valproic Acid, Free (Depakene, Free)	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum or plasma (lithium heparin	Note last dose Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	STAT ELIGIBLE	Chemistry
			Therapeutic Range Therapeutic 50-100 µg/mL Toxic >150 µg/mL	
VANCOMYCIN, PEAK	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum or plasma (lithium heparin	Note Last Dose COLLECTION TIME DEPENDS ON ROUTE OF ADMINISTRATION SPIN/ REFRIGERATE	Timed	Chemistry
			EXPECTED VALUE: Peak therapeutic 25-40 µg/ml Peak: Toxic >40 µg/ml	
VANCOMYCIN, RANDOM LEVEL	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum or plasma (lithium heparin	Note last dose Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or	STAT ELIGIBLE	Chemistry
			EXPECTED VALUE: Random Toxic >40 µg/ml	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
		colder.		
VANCOMYCIN, TROUGH	Recommended specimen types: serum or plasma (lithium heparin)	Collect just prior to next dose	Timed	Chemistry
			EXPECTED VALUE: Trough therapeutic 10-20 µg/ml Trough Toxic >25 µg/ml	
VARICELLA ZOSTER	SST Or Gold/Red	Spin/Refrigerate	4 days	REFERENCE LAB SEND OUT
			EXPECTED VALUE Negative	
VITAMIN A (Retinol)	Serum- Protected from light	Room temperature: 24 hours Refrigerated: 7 days Frozen: 28 days	Routine	REFERENCE LAB SEND OUT
			EXPECTED VALUE: 1-6 Years 20-43 mcg/dL 7-12 Years 26-49 mcg/dL 13-19 Years 26-72 mcg/dL Adult 38-98 mcg/dL	
VITAMIN B 12	4 mL GREEN PST Or RED/ SST Recommended specimen types: serum or plasma (lithium heparin)	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	Routine	Chemistry
			EXPECTED VALUE: 254-1320 pg/ml	
VITAMIN B 12 / FOLATE	4 mL GREEN PST Or SST Recommended specimen types: serum or plasma (lithium heparin)	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	Routine	Chemistry
			EXPECTED VALUE: Vit B 12= 254-1320 pg/ml Folate= 3.1 - 17.5 ng/mL [7.0 – 39.7 nmol/L]	
VITAMIN D (25	4 mL GREEN PST	Complete clot formation before	Routine	Chemistry

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
Hydroxy)	Or RED/ SST Recommended specimen types: serum or plasma (lithium heparin	centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	EXPECTED VALUE: 30-100 ng/mL	
VITAMIN D3 (Vitamin D 1,25, D3)	RED/ SST Recommended specimen types: serum or plasma (lithium heparin	Complete clot formation before centrifugation. Serum or plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or colder.	Routine	Reference send out
			EXPECTED VALUE 1-9 Years 31-87 pg/mL 10-13 Years 30-83 pg/mL 14-17 Years 19-83 pg/mL Adult 18-72 pg/mL	
WHITE BLOOD CELL COUNT AND DIFFERENTIAL	Correctly filled 4 mL EDTA Lavender	Short draws or clotted specimens MUST be redrawn.	STAT ELIGIBLE	Hematology
			EXPECTED VALUE: 4.5-11.0 x 10 ³	
WET PREP TRICHOMONAS RAPID TEST	Vaginal secretions are obtained from the posterior fornix using a sterile swab during a speculum examination and placed in BBL Stuarts transport media. Male urethral swabs may NOT be used in this system. Alternately, in males, a wet prep on sediment from 15 mL of clean voided urine can be used. All collections should be transported at room temperature. Do not refrigerate. Male urines must be received in the lab within an hour of collection.		Stats-< 60 minutes, Routines-<24 hours	Microbiology
			EXPECTED VALUE: Source dependent	
YEAST- VAGINAL-GRAM STAIN	Sterile cup, syringe, swab, and clearly labeled container. (dependent on specimen and collection method)		Stats-< 60 minutes, Routines-<24 hours	Microbiology
			EXPECTED VALUE Negative, Source dependent	
ZINC	2 mL plasma collected in an EDTA or sodium heparin (royal blue-top) tube	Plasma should be separated from cells within two hours of collection and are stable for 24 hours at room temperature, 7 days at 2–8° C. frozen for up to 3 months at -20° C or	Routine	Reference send out
			EXPECTED VALUE ≤5 Months 26-141 mcg/dL	

TEST NAME	SPECIMEN REQUIREMENTS/ VACUUM TUBE SELECTION	SPECIMEN COLLECTION INSTRUCTIONS	TAT	TESTING DEPT.
			EXPECTED VALUE	
		colder.	6-11 Months	29-131 mcg/dL
			12-23 Months	31-120 mcg/dL
			2-3 Years	29-115 mcg/dL
			4-5 Years	48-119 mcg/dL
			6-9 Years	48-129 mcg/dL
			10-13 Years	25-148 mcg/dL
			14-17 Years	46-130 mcg/dL
			Adult	60-130 mcg/dL