

Chemistry / Special Chemistry	Priority 1 <i>(called 24 hrs, 7 days)</i>			Priority 2 <i>(office hours, 7 days)</i>			
	Analyte	Age	Low	High	Age	Low	High
Ammonia [umol/L]	≤18 y		>200				
Amylase [U/L]				All		≥300	
Bilirubin, total [mg/dL]	≤2 y		≥15.0				
Calcium, total [mg/dL]	All	≤6.0	≥13.0				
Calcium, ionized [mg/dL]	All	≤3.2	>6.9				
CK-MB				All		>positive cutoff value (varies with assay)	
CK [U/L]	≤18 y					≥1000	
	>18 y					≥6000	
Creatinine [mg/dL]				All		≥8.00	
Galactose, urine [mg/dL]	≤2 y					>70	
Galactose-1-Phosphate [mg/dL]	≤2 y					>5.0	
Glomerular Basement Membrane Ab IgG, (Bioplex) [AI]	All		≥1.0				
Glomerular Basement Membrane Ab IgG, (Inova) [Units]	All		>20				
Glucose, serum [mg/dL] <i>* Glucose results are flagged P1-P2 regardless of ordered test (OGTT, random glucose, serum or plasma). When results are called to the client, the report title of the test result should be made known to the client.</i>	All	<40	≥500	All		400-499	
Glucose, CSF, [mg/dL]	All	<30					
Lipase [U/L]				All		≥180	
Magnesium, serum or plasma [mg/dL]	All	≤1.0	≥6.1				
Phosphate (as phosphorus), serum or plasma [mg/dL]	All	≤1.0					
Potassium, serum or plasma [mmol/L]	All	≤2.7	≥6.2				
Sodium, serum or plasma [mmol/L]	All	≤120	≥160				
Transferrin, Beta-2				All		Positive (Detected)	
Troponin (I or T) [ng/mL]	All		Positive >cutoff value				
TSH [mIU/L]				≤1 y		≥50.00	
Uric Acid [mg/dL]				All		>14.0	
Viscosity, serum [relative to water]	All		≥3.0				

## Priority Value Tables by Testing Department

Hematology / Coagulation / Urinalysis	Priority 1 (called 24 hrs, 7 days)			Priority 2 (office hours, 7 days)		
	Analyte	Age	Low	High	Age	Low
Hemoglobin [g/dL]	≤12 y	<7.0	≥22.5	≤12 y	7.0–8.9	
	>12 y	≤6.0	≥22.5	>12 y	6.1–7.0	
WBC, absolute number [/uL]				All	<1,000	
Neutrophils, absolute number [/uL]	All	<400		All		>30,000
Blasts, absolute number [/uL]	All		≥50,000 (any patient)	All		>0 (new patient)
Cerebrospinal fluid (CSF)	All	Any abnormal per local Medical Director				
Malaria parasites or other organisms (Babesia, Ehrlichia, Trypanosomes etc.) [also appears in Microbiology section]	All	Positive for <i>P. falciparum</i> or unspeciated Plasmodium sp. that is possible <i>P. falciparum</i>		All	Positive for blood parasites other than <i>P. falciparum</i>	
Platelet Count, absolute number [/uL]	All	<20,000	≥2,000,000			
Partial Thromboplastin Time (aPTT) [sec.]	All		≥90			
Prothrombin Time - International Normalized Ratio (PT-INR)	All		≥8.0	All		5.0–7.9
ADAMTS13 Activity reflex to Inhibitor (Von Willebrand Factor Protease Cleaving Activity) [%]	All	≤30				
Coagulation Factor VIII, IX and XI Inhibitor [Bethesda Unit]				All		>2
Coagulation Factor XIII, Activity [%]				All	<20	
Coagulation Factors VIII & IX, Activity [%]				All	<5	
Cryoglobulin [%]				All		≥ 3
Fibrinogen Clotting Activity, Clauss [mg/dL]				All	<50	
Heparin [IU/mL]				All		>2.0
Heparin-Induced Platelet Antibody				All		Positive
Serotonin Release Assay [%]				All		≥20

Infectious Agents	Priority 1 <i>(called 24 hrs, 7 days)</i>		Priority 2 <i>(office hours, 7 days)</i>	
Analyte	Age	Result	Age	Result
<i>Aspergillus galactomannan</i> antigen, serum, CSF or bronchoalveolar lavage	All	Positive CSF	All	Positive
<i>Bacillus anthracis</i> , culture, antigen or nucleic acid detection	All	Positive		
Bacterial meningitis antigens, CSF	All	Detected		
<i>Bordetella pertussis</i> , culture, antigen or nucleic acid detection			All	Positive
<i>Bordetella parapertussis</i> , culture, antigen or nucleic acid detection			All	Positive
<i>Brucella</i> sp., culture, antigen or nucleic acid detection	All	Positive		
<i>Chlamydia trachomatis</i> , culture, nucleic acid or antigen test			<13 y	Positive
<i>Clostridium difficile</i> toxin A/B and GDH Antigen are both positive, or positive PCR, cytotoxicity assay or toxigenic culture (Note: non-toxigenic strains will not be called)			All	Detected
<i>Corynebacterium diphtheriae</i> , nasopharynx culture	All	Positive		
<i>Cryptococcus</i> antigen, serum or CSF	All	Detected		
Culture: blood, CSF, any tissue or sterile body fluid (excluding urine)	All	PRELIM: positive any organism	All	FINAL: positive any organism
<i>E coli</i> O157, culture, stool			All	Positive
<i>Enterobacteriaceae</i> isolates (other than <i>Proteus</i> , <i>Providencia</i> and <i>Morganella</i> )			All	Resistant to both Carbapenem and 3 <sup>rd</sup> gen. cephalosporin
<i>Francisella tularensis</i> , culture, antigen or nucleic acid detection	All	Positive		
Gram or other stain of direct specimen or antigen detection (blood, CSF, sterile tissue or body fluids)	All	Detected		
Nucleic acid detection , [excluding genotyping and viral loads] (in CSF or sterile body fluid)	All	Positive for HSV or VZV	All	Positive for other microorganisms
<i>Histoplasma</i> , <i>Blastomyces</i> , <i>Coccidioides</i> , <i>Paracoccidioides</i> , <i>Cryptococcus neoformans</i> or <i>Cryptococcus gattii</i> isolated and/or detected by microscopy, antigen or nucleic acid detection	All	Positive on blood or CSF	All	Positive
<i>Legionella</i> sp., culture, nucleic acid, or antigen test			All	Positive
Malaria parasites or other blood parasites (e.g., <i>Babesia</i> , <i>Trypanosomes</i> , etc.) Antigen or nucleic acid detection, culture, or microscopy	All	Positive for <i>P. falciparum</i> or unspicated Plasmodium sp. that is possible <i>P. falciparum</i>	All	Positive for blood parasites other than <i>P. falciparum</i>
MRSA culture			All	Detected (patients in extended care or hospital setting)
MRSA nucleic acid detection			All	Detected
Mucormycosis/Zygomycosis (lung tissue or sinonasal area)	All	Positive		
<i>Mycobacteria</i> stain or direct specimen nucleic acid test for <i>M tuberculosis</i> , initial detection			All	Positive

Infectious Agents	Priority 1 <i>(called 24 hrs, 7 days)</i>		Priority 2 <i>(office hours, 7 days)</i>	
Analyte	Age	Result	Age	Result
<i>Mycobacteria</i> culture, all sp., initial detection and final identification			All	Positive
<i>Mycobacteria tuberculosis</i> , susceptibilities, resistant to 2 or more drugs			All	Resistant ≥2
<i>Neisseria gonorrhoeae</i> , culture or nucleic acid detection			<13y	Positive
<i>Nocardia</i> species			All	Positive
Norovirus – Antigen or nucleic acid detection			All	Positive
<i>Pneumocystis jiroveci (carinii)</i> , stain, antigen or nucleic acid detection			All	Positive
Respiratory syncytial virus (RSV), culture, antigen or nucleic acid detection			≤3 y	Positive
Rotavirus, antigen test			All	Positive
Shiga Toxin, EIA or nucleic acid detection			All	Detected
Stool Culture, <i>Shigella</i> sp., <i>Listeria</i> sp., <i>Salmonella</i> sp., <i>Campylobacter</i> sp., <i>Vibrio</i> sp., and/or <i>Yersinia enterocolitica</i>			All	Positive
Streptococcus, Group A, wound culture			All	Positive
Streptococcus, Group B, culture or nucleic acid detection			<1 y	Positive
<i>Ureaplasma urealyticum</i> , culture, respiratory			<1 y	Positive
Vancomycin Intermediate or Resistant <i>Staphylococcus aureus</i> (VISA or VRSA)			All	Vancomycin I or R
Vancomycin Resistant Enterococcus (VRE) culture or nucleic acid detection			All	Detected
West Nile virus IgM, CSF	All	Positive		
<i>Yersinia pestis</i> , culture, antigen or nucleic acid detection	All	Positive		

## Priority Value Tables by Testing Department

TDM / Toxicology		Priority 1 <i>(called 24 hrs, 7 days)</i>			Priority 2 <i>(office hours, 7 days)</i>		
Analyte		Age	Low	High	Age	Low	High
Acetaminophen	[mg/L]	All		≥50			
Acetone	[mg/dL]	All		≥50			
Amitriptyline + Nortriptyline, total	[mcg/L]	All		≥1000	All		600–999
Amobarbital	[mg/L]	All		≥20.0			
Arsenic, blood	[mcg/L]				All		>60
Butalbital	[mg/L]	All		>10.0			
Cadmium, 24hr urine	[mcg/L]	All		>10.0			
Cadmium, blood	[mcg/L]	All		≥30.0	All		10.0–29.9
Caffeine	[mg/L]	All		≥50.0	<1 y		40.0–49.9
Carbamazepine, total	[mg/L]	All		≥20.0			
Carboxyhemoglobin	[% of total Hgb]	All		≥20			
Chlorpromazine	[ng/mL]	All		≥750			
Chlorpromazine	[ng/mL]	All		≥750			
Clomipramine and Metabolite, total	[ng/mL]	All		≥600			
Clozapine	[ng/mL]	All		≥900			
Cobalt, blood	[mcg/L]	All		≥400			
Cobalt, urine	[mcg/L]				All		≥250
Cyanide	[mg/L]	All		≥1.0	All		0.5–0.9
Cyclosporine, trough	[mcg/L]	All		≥600	All		400–599
Desethylamiodarone	[mcg/mL]	All		>2.5			
Desipramine	[mcg/L]	All		≥600			
Diazepam and Nordiazepam, total	[mg/L]	All		≥3.0			
Digoxin	[mcg/L]	All		≥3.0			
Disopyramide	[mg/L]	All		≥7.0			
Doxepin + Nordoxepin, total	[mcg/L]	All		≥600			
Ethanol	[mg/dL]	All		≥250			
Ethosuximide	[mg/L]	All		≥150			
Ethylene glycol	[mg/L]	All		≥100			
Flecainide	[mg/L]	All		≥1.0			
Fluphenazine	[mcg/L]	All		≥50			
Haloperidol, serum	[ng/mL]				All		>20
Ibuprofen	[mg/L]	All		≥100			
Imipramine or Desipramine, total	[mcg/L]	All		≥600			
Isopropanol	[mg/dL]	All		≥50			
Lead, 24hr urine	[mcg/L]				All		≥120
Lead, blood	[mcg/dL]	<18 y		≥45	<6 y		20–44
Levetiracetam, peak	[mg/L]				All		>70
Levetiracetam, trough	[mg/L]				All		>37
Lidocaine	[mg/L]	All		≥6.0			
Lithium	[mmol/L]	All		≥2.0			
Meconium Drug Testing (confirmation)		All		Positive			
Mephobarbital	[mg/L]	All		≥60.0			
Mercury, urine, 24 hr	[mcg/L]	All		≥150			
Mercury, urine, random	[mcg/g creatinine]	All		≥150			

## Priority Value Tables by Testing Department

TDM / Toxicology	Priority 1 <i>(called 24 hrs, 7 days)</i>			Priority 2 <i>(office hours, 7 days)</i>		
	Analyte	Age	Low	High	Age	Low
Methanol [mg/dL]	All		≥5			
Methemoglobin [% of total Hgb]	All		≥70.0			
Methotrexate at 24 h [μmol/L]	All		≥5.00			
Methsuximide, as Normethsuximide [mg/L]	All		>40.0			
Mexiletine [mg/L]	All		≥5.0	All		2.0–4.9
Mycophenolic Acid [mcg/mL]	All	<0.5		All	0.5–1.0	>3.5
Mycophenolic Acid Glucuronide [mcg/mL]				All	<35.0	
Nortriptyline [mcg/L]	All		≥500			
Phenobarbital [mg/L]	All		≥60.0			
Phenytoin [mg/L]	All		≥40.0			
Phenytoin, free [mg/L]	All		>3.0			
Primidone [mg/L]	All		>15.0			
Procainamide [mg/L]	All		≥14.0			
Procainamide + NAPA, total [mg/L]	All		>30.0			
Propafenone [mg/L]	All		>2.0			
Protriptyline [mcg/L]	All		>500			
Quinidine [mg/L]	All		≥10.0			
Salicylates [mg/L]	All		≥400			
Sirolimus (Rapamycin) [mcg/L]	All	<3.0		All		≥35.0
Tacrolimus (FK 506) [mcg/L]	All	<3.0		All	3.0–4.9	>20.0
Thallium, blood [mcg/L]	All		≥80			
Thallium, urine, 24 hr [mcg/L]	All		≥200			
Theophylline [mg/L]	<6 m		>10.0			
Theophylline [mg/L]	≥ 6 m		≥40.0			
Valproic Acid [mg/L]	All		≥150.0			
Vancomycin, peak [mg/L]	All		≥80.0			
Vancomycin, random [mg/L]	All		≥80.0			
Vancomycin, trough [mg/L]	All		≥80.0			

Genetic Testing	Priority 2WD (office hours, weekdays)
Analyte	Result
Alpha-1 Antitrypsin (AAT) Mutation Analysis	Homozygous positive and positive for z and s
Alpha-Globin Common Mutation Analysis	Positive for 4 alpha globin gene s
Alpha-Globin Gene Deletion or Duplication	Deletion of 4 alpha globin genes
Amniotic fluid open neural tube defect screen	MOM value $\geq$ 2.0 MOM
Ashkenazi Jewish Panel (4, 11, or 18 test)	Homozygous, or Compound Heterozygous, or Not Interpretable
Beta Globin Gene Dosage Analysis	Homozygous, or Compound Heterozygous
Beta-Globin Complete	Homozygous, or Compound Heterozygous
Bloom Syndrome DNA Mutation Analysis	Homozygous, or Compound Heterozygous, or Not Interpretable
CAH (21-Hydroxylase Deficiency) Common Mutations	Homozygous, or Compound Heterozygous
Canavan Disease Mutation Analysis	Not Interpretable
Cystic Fibrosis Gene Deletion or Duplication	Homozygous, or Compound Heterozygous
Cystic Fibrosis Screen	Homozygous, or Compound Heterozygous, or Not Interpretable
Dihydroliipoamide Dehydrogenase Deficiency	Homozygous, or Compound Heterozygous, or Not Interpretable
Dihydropyrimidine Dehydrogenase (DPD) Gene Mutation Analysis	Heterozygous and homozygous positive
Factor V Leiden	Homozygous
Factor XI Mutation Analysis (Ashkenazi Jewish)	Homozygous, or Compound Heterozygous
Familial Dysautonomia Mutation Analysis	Not Interpretable
Familial Hyperinsulinism	Homozygous, or Compound Heterozygous, or Not Interpretable
Familial Mediterranean Fever Mutation Analysis	Homozygous, or Compound Heterozygous
Fanconi's Anemia DNA Mutation Analysis	Homozygous, or Compound Heterozygous, or Not Interpretable
Galactosemia Mutation Analysis	Homozygous, or Compound Heterozygous
Gaucher Disease, DNA Mutation Analysis	Homozygous, or Compound Heterozygous, or Not Interpretable
Glycogen Storage Disease Type Ia Mutation Analysis	Homozygous, or Compound Heterozygous, or Not Interpretable
Joubert Syndrome 2	Not Interpretable
Long Chain Acyl-CoA Dehydrogenase (LCHAD) Mutation Analysis	Homozygous, or Compound Heterozygous
Maple Syrup Disease (MSUD) Mutation Analysis (Ashkenazi Jewish)	Homozygous, or Compound Heterozygous, or Not Interpretable
Maternal Serum Biochemical Screening	MSS Interpretation- Screen positive for ONTD, Down syndrome and/or trisomy 18 or High risk for Down syndrome and/or trisomy 18
Medium Chain Acyl-CoA Dehydrogenase (MCAD) Mutation Analysis	Homozygous, or Compound Heterozygous
Mucopolipidosis Type IV Mutation Analysis	Not Interpretable
Nemalin Myopathy	Homozygous, or Compound Heterozygous, or Not Interpretable
Niemann-Pick Disease Mutation Analysis	Not Interpretable
Phenylketonuria (PKU) Mutation Analysis	Homozygous, or Compound Heterozygous
Prothrombin (Factor II) 20210G>A Mutation Analysis	Homozygous positive
SMA Carrier Screen	SMN1 copies = 0
SMA Diagnostic Test	SMN1 copies = 0
Tay-Sachs Disease Mutation Analysis	Not Interpretable
TPMT Genotype	Intermediate metabolizer, poor metabolizer
Usher Syndrome Type IF	Not Interpretable
Usher Syndrome Type III	Not Interpretable
Walker Warburg Syndrome	Not Interpretable

## Priority Value Tables by Testing Department

Pathology / Hematopathology	Priority 1 <i>(called 24 hrs, 7 days)</i>	Priority 2 <i>(office hours, 7 days)</i>
Ordered Test	Interpretation	Interpretation
Gyn Cytology (Pap)		<ul style="list-style-type: none"> <li>• Herpes changes, if pregnancy indicated in LIS</li> <li>• Adenocarcinoma in situ</li> <li>• Suspicious for malignancy</li> <li>• Positive for malignancy**</li> </ul>
Non-Gyn Cytology		<ul style="list-style-type: none"> <li>• Suspicious for malignancy</li> <li>• Positive for malignancy**</li> </ul>
Hematopathology (including Flow Cytometry, FISH, and Molecular)	<ul style="list-style-type: none"> <li>• First time diagnosis of acute promyelocytic leukemia</li> </ul>	<ul style="list-style-type: none"> <li>• Positive for acute leukemia (initial or recurrence)</li> </ul>
Tissue Biopsy	<ul style="list-style-type: none"> <li>• Frozen section results</li> <li>• Presence of adipose tissue in an endometrial biopsy</li> </ul>	<ul style="list-style-type: none"> <li>• POC without identifiable placental villi or fetal parts</li> <li>• Suspicious for malignancy**</li> <li>• Positive for malignancy**</li> <li>• Significant unexpected surgical pathology findings as determined by pathologist</li> </ul>
		<p><i>** Excluding squamous/basal cell skin carcinomas and/or re-excision of known recently diagnosed malignancy but includes cases in which biopsy is a follow-up to cytology report. It is not intended that pre-malignant conditions such as CIN3, high grade PIN, complex endometrial hyperplasia, etc. be considered "Suspicious for Malignancy" unless the pathologist has made an additional comment to that effect.</i></p>