

For Patients > 30 Days of Age



MUIRLAB®

2/27/2012

For Neonates ≤ 30 Days of Age

Critical Results & Clinically Significant Results

TEST	UNITS	CRITICAL		YES	CLINICALLY SIGNIFICANT	
		YES	Low Critical		High Critical	YES
TRANSFUSION SERVICES						
Hemolytic Transfusion Reaction					✓	
Hemolytic Transfusion Reaction		✓				
MICROBIOLOGY						
Positive Blood Cultures and Pericardial Fluid					✓	
Positive Blood Cultures and Pericardial Fluid					✓	
Positive Urine culture: bacteria/yeast >100,000 cfu/mL					✓	
Positive CSF Gram stain or culture						
Positive CSF Gram stain or culture		✓				
Positive joint fluid or dialysis per gram stain or culture						
Positive joint fluid or dialysis		✓				
Group B strep from L&D					✓	
Group B strep					✓	
Group A strep from non-throat sources					✓	
Group A strep from non-throat sources					✓	
Positive malaria, blood parasite					✓	
Positive malaria, blood parasite					✓	
Positive AFB smear or culture					✓	
Positive AFB smear or culture					✓	
Positive Cryptococcal antigen from CSF					✓	
Positive Cryptococcal antigen from CSF					✓	
Potential Agent of Bioterrorism: B. anthracis, F. tularemia, Brucella, Y. pestis and others					✓	
Potential Agent of Bioterrorism: B. anthracis, F. tularemia, Brucella, Y. pestis and others					✓	
Enteric pathogens: Salmonella, Shigella, Campylobacter and others					✓	
Enteric pathogens: Salmonella, Shigella, Campylobacter and others					✓	

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MICROBIOLOGY (continued)							
Positive Shiga toxin or E. coli O157					✓		
Positive Shiga toxin or E. coli O157					✓		
Multi-Drug resistant organisms: MRSA,ESBL,VRE,GNR					✓		
Multi-Drug resistant organisms: MRSA, ESBL, VRE, GNR					✓		
Positive HSV, VZV & Rotavirus					✓		
Positive HSV, VZV & Rotavirus					✓		
Positive influenza, RSV – Inpatients		✓					
Positive influenza, RSV – Inpatients		✓					
Positive influenza, RSV -- outpatients					✓		
Positive influenza, RSV -- outpatients					✓		
Positive C. difficile toxin					✓		
Positive C. difficile toxin					✓		
Neisseria meningitides from sterile site					✓		
Neisseria meningitides from sterile site					✓		
Positive E. histolytica or Scabies skin scraping					✓		
Positive E. histolytica or Scabies skin scrap					✓		
Positive systemic fungi including Coccidiodes					✓		
Any other significant report at the discretion of microbiologist					✓		
Any other significant report at the discretion of microbiologist					✓		

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CHEMISTRY							
Bilirubin, Total					✓		≥ 12.1
Calcium	mg/dL	✓	≤ 7	≥ 13.0			
Calcium	mg/dL	✓	≤ 6.9 first instance only	≥ 12.1 first instance only			
Carbon Dioxide	mmol/L	✓	≤ 11	≥ 41			
CKMB Relative Index	%				✓		≥ 3.1 outpatients
Creatinine	mg/dL				✓		delta increase ≥ 50% and abnormal within last 24*
Glucose	mg/dL	✓	≤ 50	≥ 450			
Glucose	mg/dL	✓	≤ 39	≥ 181			
Glucose, CSF	mg/dL				✓	≤ 39	
HIV Western Blot					✓		Positive
Lactate	mmol/L	✓		≥ 2.0 1 st instance only			
Magnesium	mg/dL	✓		≥ 5.0 1st instance only if OB	✓	≤ 1.0	
Magnesium	mg/dL	✓		≥ 5.0 first instance only			
Osmolality, serum	mOsm/kg				✓	≤ 250	≥ 325
Phosphorus	mg/dL	✓	≤ 1.0				
Potassium	mmol/L	✓	≤ 2.8	≥ 6.0			
Potassium	mmol/L	✓	≤ 2.4	≥ 6.6			
Sodium	mmol/L	✓	≤ 120	≥ 160	✓	≥ 121 ≤ 125	≥ 150 ≤ 159
Sodium	mmol/L	✓	≤ 124	≥ 160			
Troponin	ng/mL	✓		≥ 0.5			
TOXICOLOGY							
Acetaminophen	µg/mL				✓		≥ 50.0
Lithium	mmol/L	✓		≥ 1.3			
Salicylate	mg/dL				✓		≥ 30.0

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TOXICOLOGY / THERAPEUTIC DRUG MONITORING							
Carbamazepine	µg/mL				✓		≥ 15.0
Digoxin	ng/mL				✓		≥ 3.0
Digoxin	ng/mL	✓		≥ 3.0			
Gentamicin Peak/Random	µg/mL				✓		≥ 12.0
Gentamicin Peak	µg/mL	✓		≥ 12.1			
Gentamicin Trough	µg/mL	✓		≥ 2.1			
Lidocaine	µg/mL				✓		≥ 8.0
N-acetyl Procainamide (NAPA)	µg/mL				✓		≥ 12.0
Phenobarbital	µg/mL				✓		≥ 60.0
Phenobarbital	µg/mL	✓		≥ 40.1			
Phenytoin	µg/mL				✓		≥ 25.0
Phenytoin	µg/mL	✓		≥ 25.0			
Procainamide (PROC)	µg/mL				✓		≥ 12.0
Theophylline	µg/mL				✓		≥ 25.0
Tobramycin Peak/Random	µg/mL				✓		≥ 12.0
Valproic Acid	µg/mL				✓		≥ 180.0
Vancomycin Peak/Random	µg/mL				✓		≥ 40.0
Vancomycin Peak	µg/mL	✓		≥ 40.0			
Vancomycin Trough	µg/mL	✓		≥ 10.1			
HEMATOLOGY							
Blasts					✓		≥ 1, 1 st instance only
Hematocrit	%	✓	≤ 24	≥ 66			
Hemoglobin	gm/dL	✓	≤ 7.0 or delta decrease ≥ 3.0 within last 24*		✓		≥ 20.0
Hemoglobin	gm/dL	✓	≤ 7.9	≥ 22.1			
Platelets	K/mm ³	✓	≤ 10		✓	≥ 11 ≤ 25 first instance	≥ 900 first instance
Platelets	K/mm ³	✓	≤ 49				
Platelet Function ADP					✓		≥ 177
WBC	K/mm ³				✓	≤ 1.5 first instance only	≥ 30 first instance only
WBC	K/mm ³	✓	≤ 2.9	≥ 30.1			
WBC, CSF	#/mm ³	✓		≥ 6			
# Neutrophils	K/mm ³				✓	≤ 1.5 first instance only	

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COAGULATION							
aPTT	Seconds	✓		≥ 106.0			
INR					✓		≥ 5.0
INR		✓		≥ 5.0 first instance only			
TEG G					✓		≥ 13.2
TEG MA	mm				✓		≥ 75.0
TEG R	minutes				✓	≤ 2.9	
ARTERIAL BLOOD GASES/RESPIRATORY							
pO2	mmHg	✓	≤ 50				
pO2	mmHg	✓	≤ 50				
pCO2	mmHg				✓		≥ 60
pCO2	mmHg				✓		≥ 60
pH		✓	≤ 7.20	≥ 7.60			
pH		✓	≤ 7.20	≥ 7.60			
Carboxyhemoglobin	%				✓		≥ 15.0
Methemoglobin	%	✓		≥ 20.0			
Ionized CA++	mg/dL				✓	≤ 0.80	≥ 1.60
Ionized CA++	mg/dL				✓	≤ 0.80	≥ 1.60