

Critical Results:

Critical test results are reported to a licensed caregiver within 30 minutes.

Test	Units	Critical Value(s)	Age
Acetaminophen Blood	ug/mL	< 50 ≥ 40.0	< 18Y ≥ 18Y
Activated Partial Thromboplastin Time	Seconds	≥ 60.0 ≥ 150.0	< 18Y ≥ 18Y
Ammonia	μmol/L	≥ 108	<18Y
Base Excess Arterial Cord	mmol/L	< -10.0	Unspecified
Base Excess Capillary	mmol/L	< -6.0	Unspecified
Base Excess Venous Cord	mmol/L	< -10.0	Unspecified
Bicarbonate Arterial	mmol/L	≤ 12 or ≥ 40	Unspecified
Bicarbonate Capillary	mmol/L	≤ 15.0 or ≥ 35.0	Unspecified
Bilirubin Total Cord Blood	mg/dL	>4.0	Unspecified
Bilirubin Total Neonatal	mg/dL	>14.9	< 1 Y
Blast Cells – Manual Diff	%	>1	< 18Y
Calcium, ionized	Mg/dL	>1 or > 1.60	< 18Y
Calcium Serum/Plasma	mg/dL	<6.0 or >12.0	Unspecified
Carbon Dioxide CO ₂	mmol/L	≤ 9 or ≥ 40	Unspecified
Carboxyhemoglobin (Carbon Monoxide, CO)	%	>20.0	Unspecified
Digoxin	ng/mL	≥ 3.0	Unspecified
Ethanol Blood	mg/dL	>10 ≥ 400	< 18Y ≥ 18Y
Fibrinogen	mg/dL	<100	Unspecified
Gentamicin Peak Gentamicin Random	ug/mL	≥ 12.0	Unspecified
Gentamicin Trough	ug/mL	≥ 2.0	Unspecified
Glucose Serum/Plasma	mg/dL	< 40 or >300 ≤ 40 or > 500	< 18Y ≥ 18Y

Hematocrit	%	≤ 18 or ≥ 70.1	0D - 1M
		≤ 18 or ≥ 60.1	1M - 7M
		≤ 18 or ≥ 60.0	7M - Unspecified
Hemoglobin	g/dL	< 6 or ≥ 23.1	0D - 1M
		≤ 6 or ≥ 20.0	1M - Unspecified
Heparin (anti-Xa activity)	U/mL	≥ 1.20	Unspecified
INR	N/A	>4.0	$< 18Y$
		>6.0	$\geq 18Y$
Lactate Whole Blood	mmol/L	>2.0	Unspecified
Lithium Serum	mmol/L	>1.5	Unspecified
Low Molecular Wt Heparin (anti-Xa activity)	U/mL	>1.00	Unspecified
Magnesium Serum/Plasma	mg/dL	≤ 1.2 or ≥ 6.0	Unspecified
Methemoglobin	%	≥ 3.0	Unspecified
Neutrophils Absolute	$10^9/L$	<1.0	Unspecified
pCO ₂ Arterial	mmHg	≤ 20 or ≥ 70	Unspecified
pCO ₂ Capillary	mmHg	<30 or >65	Unspecified
pH Arterial	N/A	≤ 7.200 or ≥ 7.600	Unspecified
pH Arterial Cord	N/A	<7.000	Unspecified
pH Capillary	N/A	<7.200 or >7.550	Unspecified
pH Venous	N/A	<7.100 or >7.589	Unspecified
pH Venous Cord	N/A	<7.000	Unspecified
Phenytoin Total	ug/mL	≥ 30.0	Unspecified
Phosphorus Serum/Plasma	mg/dL	≤ 1.0	Unspecified
Platelet Count	$10^9/L$	<25 or >1000	Unspecified
pO ₂ Arterial	mmHg	≤ 39	Unspecified
pO ₂ Capillary	mmHg	<35 or >100	Unspecified
Potassium Serum/Plasma	mmol/L	≤ 2.5 or ≥ 6.4	Unspecified
Salicylate Blood	mg/dL	≥ 40.0	Unspecified
Sodium Serum/Plasma	mmol/L	≤ 120 or ≥ 160	Unspecified
tCO ₂ Arterial	mmol/L	≤ 12 or ≥ 40	Unspecified

Triglycerides	mg/dL	≥ 1500	Unspecified
Vancomycin Peak Vancomycin Random	ug/mL	≥ 80.0	Unspecified
Vancomycin Trough	ug/mL	≥ 35.0	Unspecified
White Blood Cell Count	10 ⁹ /L	<1.5 or >70.0	Unspecified

Critical Results	Healthcare Provider	Infection Prevention	Micro Leadership	CDPHE	Other
AFB Positive culture from CSF	X	X	X		
Blood culture Gram stain positive on first bottle for each morphology identified Subsequent positive bottle(s) with the same organism(s) drawn on the same day do not require provider notification	X				
Blood Culture Gram stain positive for GNDC (suggestive of Neisseria meningitidis)	X	X	X		
CSF Gram stain or culture positive for any organism	X				
CSF Gram stain positive for GNDC (suggestive of Neisseria meningitidis)	X	X	X		
Eye Gram stain or culture positive for GNR or mold/mycotic elements HSV positive molecular test	X				
Sterile body fluids Gram stain positive from the following sources: amniotic eye vitreous peritoneal or ascites pericardial pleural synovial	X				
Sterile tissues Gram stain positive from the following sources: brain eye heart spinal cord	X				

epidural					
Blood products associated with transfusion Gram stain or culture positive					*
*Call blood bank medical director, pathologist on-call, or designee for positive gram stain or culture					

Organism/Test	Healthcare Provider	Infection Prevention	Micro Leadership	CDPHE	Other
Acid Fast Bacillus Positive direct smear and cultures	X				
AFB – <i>Mycobacterium tuberculosis</i> or <i>M. tuberculosis</i> complex, 1 st occurrence <ul style="list-style-type: none"> • Positive PCR (Mtb-Rif) • Identification of <i>M. tuberculosis</i> from culture 	X	X	X		
Biothreat/Bioterrorism Agents (identification of or unable to rule out) <ul style="list-style-type: none"> • Bacillus anthracis • Brucella species • Burkholderia mallei • Burkholderia pseudomallei • Francisella tularensis • Yersinia pestis 	X	X	X	X	Submit organism
Bordetella pertussis Positive inpatients Amplivue or BioFire Respiratory PCR panel	X	X			
Body fluids positive for bacterial or fungal growth <i>unless positive direct gram stain previously called</i> amniotic eye vitreous peritoneal or ascites pericardial pleural synovial	X				
Sterile tissues positive for bacterial or fungal growth <i>unless positive direct gram stain previously called:</i>	X				

brain eye heart spinal cord epidural					
Candida auris or Candida haemulonii Identified or suspected		X	X	Submit organism	
DNA probes positive for: • Coccidioides immitis • Blastomyces dermatitidis • Histoplasma capsulatum	X		X		
<i>Haemophilus influenza</i> From sterile sites including blood cultures		X		Submit organism	
Mucorales Positive cultures from sinus, orbit of eye, brain or CSF	X				
<i>Neisseria meningitides</i> From sterile sites including blood cultures	X	X	X	Submit organism	
Resistant Organisms positive cultures on inpatients once per admission per organism MDRO (multi-drug resistant organisms) CRE (Carbapenem Resistant Enterobacteraceae) ESBL (Extended Spectrum Beta Lactamase) MRSA (Methicillin Resistant <i>Staph aureus</i>) VISA (Vancomycin Intermediate <i>Staph aureus</i>) VRE (Vancomycin Resistant Enterococcus) VIE (Vancomycin Intermediate Enterococcus)	X				
Staph aureus in Blood Cultures New positive Staph aureus or MRSA in blood cultures		X			

<i>Salmonella typhi</i> in blood or stool	X	X		Submit organism	
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