

Job Aid: Inpatient, Outpatient, Critical and Urgent Values

Outpatient CRITICAL LAB VALUES		
These test results are defined as those that indicate a patient is in danger of death unless treatment is initiated immediately. Communicated to a licensed caregiver		
Critical Lab Values will be communicated to nurse within 30 minutes of result availability or provider withing 60 minutes of result availability, 24 hours a day		
Chemistry/Hematology/Coag		
Test	Low	High
Bilirubin (Newborn)	--	≥ 18.0mg/dl
Calcium, total	≤ 6.0 mg/dl	≥13.0 mg/dl
Glucose (Adult Clinic Patient)	≤ 50 mg/dl	≥400 mg/dl
Glucose (Newborn)	≤ 39 mg/dl	≥150 mg/dl
Magnesium	≤ 1.0 mg/dl	≥5.0 mg/dl
Potassium	≤ 3.0 mmol/L	≥ 6.0 mmol/L
Sodium	≤ 120 mmol/L	≥160 mmol/L
WBC	<1.5 K/UL	>25.0 K/UL
Hemoglobin*	< 7.0 gm/dl	--
	<8.0 gm/cl (Oncology Only)	--
Platelet Count*	< 50 K/ul	>950 K/UL
	< 20 K/ul (Oncology Only)	>950 K/UL
Protime -INR	--	>5
Troponin, High Sensitivity (initial result only)	--	≥100ug/ml
APTT	--	≥138. 0 Seconds
Malarial Smear	Malarial Forms Seen	
*Subsequent critical values on the same patient will be communicated and documented except in cases of repeated platelet counts that remain critical OR the final value becomes non-critical		
Transfusion/Tissue Services		
Positive Culture on Transfusion Reaction Workup	Any	
Hemolytic Transfusion Reaction	Any	
Blood Product Component QC	Culture with any organism	
Transfusion Reaction Specimen	Gram stain or culture with any organism	

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Outpatient URGENT LAB VALUES

These test results fall outside of normal range & represent a significant finding or indicate a need for infection control. Communicated to a licensed caregiver

Urgent lab Values will have every attempt to be communicated within 2 hours of result availability between the hours of 8am and 8pm

Chemistry		
Test	Low	High
Acetaminophen	--	≥ 150 ug/ml
Carbamazepine	--	≥ 20 ug.ml
Digoxin	--	≥ 2.4 ng/ml
Gentamicin	--	≥ 30.0 ug/ml
Lactic Acid (sepsis only)	--	> 2.0 mmol/l
Lithium	--	> 2.0 mmol/l
Phenytoin	--	≥ 40 ug/ml
Salicylate		≥ 30 mg/dl
Theophylline	--	≥ 25 ug/ml
Tobramycin	--	≥ 30 ug/ml
Valproic Acid	--	≥ 200 ng/L
Vancomycin	--	≥ 80 mg/mL
Microbiology		
Any specimen source	- Unusual organisms, pure cultures deemed unique - Select Agents – B. anthracis, Brucella sp, B. pseudomallei, B. mallei, C. botulinum, F. tulereusis, Y. pestis - Other pathogens of concern - AFB	
Blood Culture	Gram stain or culture with any organism	
Sterile body site, Blood, CSF	Gram stain or culture with any organism	
Eye	Pathogenic organisms only	

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Inpatient CRITICAL LAB VALUES

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Critical Lab Values will be communicated to nurse within 30 minutes of result availability or provider withing 60 minutes of result availability, 24 hours a day

Chemistry/Hematology/Coag		
Test	Low	High
Bilirubin (Newborn)	--	$\geq 18.0\text{mg/dl}$
Calcium, total	$\leq 6.0\text{ mg/dl}$	$\geq 13.0\text{ mg/dl}$
Glucose (Adult Inpatient)	$\leq 70\text{ mg/dl}$	$\geq 400\text{ mg/dl}$
Glucose (Newborn)	$\leq 39\text{ mg/dl}$	$\geq 150\text{ mg/dl}$
Magnesium	$\leq 1.0\text{ mg/dl}$	$\geq 5.0\text{ mg/dl}$
Potassium	$\leq 3.0\text{ mmol/L}$	$\geq 6.0\text{ mmol/L}$
Sodium	$\leq 120\text{ mmol/L}$	$\geq 160\text{ mmol/L}$
Acetaminophen	--	$\geq 150\text{ ug/ml}$
Carbamazepine	--	$\geq 20\text{ ug.ml}$
Digoxin	--	$\geq 2.4\text{ ng/ml}$
Gentamicin	--	$\geq 30.0\text{ ug/ml}$
Lactic Acid (sepsis only)	--	$> 2.0\text{ mmol/l}$
Lithium	--	$> 2.0\text{ mmol/l}$
Carboxyhemoglobin	--	$\geq 10\%$
pCO2 (venous)	20 mmHg	70mmHg
pH (venous)	7.2 units	7.55 units
pH (Cord Blood, Arterial)	7.140 (<37 weeks)	7.400 (<37 weeks)
	7.200 (term infant)	7.340 (term infant)
pCO2 (Cord Blood, Arterial)	32.0 mmHg (<37 weeks)	69.2 mmHg (<37 weeks)
	39.2 mmHg (term infant)	61.4 mmHg (term infant)
HCO3 (Cord Blood Arterial)	16.0 mmol/L (<37 weeks)	27.1 mmol/L (<37 weeks)
	18.4 mmol/L (term infant)	25.6 mmol/L (term infant)
Phenytoin	--	$\geq 40\text{ ug/ml}$
Salicylate	--	$\geq 30\text{ mg/dl}$
Theophylline	--	$\geq 25\text{ ug/ml}$
Tobramycin	--	$\geq 30\text{ ug/ml}$
Troponin, High Sensitivity (initial result only)	--	$\geq 100\text{ug/ml}$
Valproic Acid	--	$\geq 200\text{ng/L}$
Vancomycin	--	$\geq 80\text{ mg/mL}$

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