

I. **CRITICAL VALUES/RESULTS TABLE**

LAST REVISED: 9/24/2021

LAB SECTION	TEST	CRITICAL VALUE/RESULT	INPATIENT CALL FREQUENCY	OUTPATIENT CALL FREQUENCY
Blood gases, co-oximetry	pH	<7.15 or >7.55	<b>Call regardless of previous</b>	<b>Call regardless of previous</b>
		7.15-7.24	<b>Initial only</b>	
	PO <sub>2</sub>	Arterial: <45 mm/hg Capillary: <20 mm/hg	Call if same or worse	
		PCO <sub>2</sub>	>70 mm/hg (arterial, venous, and cap)	
	Calcium, ionized	<0.81 or >1.55 mmol/L	Call if same or worse	
	Carboxyhemoglobin	>20%		
Methemoglobin	>10%			
Chemistry	Bicarbonate (CO <sub>2</sub> total)	<12 or >45 mEq/L	<b>Initial only</b>	<b>Call regardless of previous</b>
	Bilirubin, total	>15 mg/dL	≤1 year: Call if same or worse	
			<b>&gt;1 year: Initial only</b>	
	Calcium, total	<6.0 or >13.0 mg/dL	Call if same or worse	
	Creatinine	<b>NON-Renal Dialysis:</b> >8.00 mg/dL	Call if same or worse	
		<b>Renal Dialysis:</b> >20.00 mg/dL		
	Creatine Kinase (CK), Total	>10,000 U/L	<b>Initial only</b>	
	CSF glucose	<40 or >450 mg/dL	<b>Call regardless of previous</b>	
	CSF protein	>60 mg/dL	<b>Call regardless of previous</b>	
	Free T4	>5.0 ng/mL	<b>Initial only</b>	
	Glucose	<45 or >450 mg/dL	Call if same or worse	<b>Call regardless of previous</b>
	Lactate (lactic acid)	>4.0 mEq/L		
	Magnesium	<1.0 mg/dL		
		<b>L&amp;D/OBGYN:</b> >8.0 mg/dL		
		<b>All others:</b> >5.0 mg/dL		
	Osmolality	<240 or >330		
	Phosphorus	<b>NON-RD:</b> >8.9 mg/dL <b>RD:</b> >12.0 mg/dL		
		<b>ALL PATIENTS:</b> <1.2 mg/dL		
	Potassium	<2.8 or >6.1 mEq/L	<b>Call regardless of previous</b>	<b>Call regardless of previous</b>
	Sodium	<110 or >170 mEq/L	<b>Call regardless of previous</b>	
110-119 mEq/L 161-170 mEq/L		<b>Initial only</b>		
Troponin T (HS)	>22 ng/L for male >14 ng/L for female	Call first positive result within previous 96 hours  <b>Excludes post cardiac surgery patients</b>	Call first positive result within previous 96 hours	
Uric Acid	>13.0	Call if same or worse	<b>Call regardless of previous</b>	

LAB SECTION	TEST	CRITICAL VALUE/RESULT	INPATIENT CALL FREQUENCY	OUTPATIENT CALL FREQUENCY
Coagulation	Anti-Xa HEP (Standard, UF heparin)	>0.80 units/mL	<u>Call regardless of previous</u>  Unless on known DOAC (apixaban, edoxaban, betrixaban, rivaroxaban)	<b>CALL REGARDLESS OF PREVIOUS</b>
	Anti-Xa LMWH (Lovenox/Enoxaparin)	>2.19 units/mL	<u>Call regardless of previous</u>	
	Anti-Xa RIV (Rivaroxaban/Xarelto)	>450 ng/mL	<u>Call regardless of previous</u>	
	Arixtra (Fondaparinux/Arixtra)	>1.50 mg/L	<u>Call regardless of previous</u>	
	Fibrinogen	<75	Call if same or worse	
	INR	>5.0	<u>Call regardless of previous</u>	
	PTT	>90 sec	<u>Call regardless of previous</u>	
	Factor VII	≤ 6%	CALL IF UNEXPECTED	CALL IF UNEXPECTED
	Factor VIII	≤ 5%		
	Factor IX	≤ 5%		
PF4	Positive result	<u>Call regardless of previous</u>	<u>Call regardless of previous</u>	
Hematology	WBC	>30.0 Th/uL	<u>Initial only: for EMMC ED non-oncology patients only</u>  <u>EXCLUDES ALL OTHER INPATIENTS</u>	<u>EXCLUDES ALL ONCOLOGY OUTPATIENTS</u>
	Absolute Neutrophil Count (#NEUT)	<0.50 Th/uL	<u>Initial only: for EMMC ED only</u>  <u>EXCLUDES ALL EMMC INPATIENTS</u>	Oncology outpatients: Initial only; repeat call when follows non-critical result OR if previous result was >1 week ago  <b>All other patients: Call regardless of previous</b>
	Hemoglobin	<6.5 g/dL >20.0 g/dL (patient age >6 months)	Call if same or worse	Oncology outpatients: Initial only; repeat call when follows non-critical result  <b>All other patients: Call regardless of previous</b>
	Hematocrit	<19.5 % >60.0 % (patient age >6 months)		
	Platelet	10-49 Th/uL or >850 Th/uL	Initial only	Oncology outpatients: initial only  <b>All other patients: Call regardless of previous</b>
			<u>Call regardless of previous</u>	<u>Call regardless of previous</u>
Abnormal smear findings (pathologist calls provider)	Pathology smear review findings dictate immediate intervention	DCPA Pathologist makes determination	DCPA Pathologist makes determination	

LAB SECTION	TEST	CRITICAL VALUE/RESULT	INPATIENT CALL FREQUENCY	OUTPATIENT CALL FREQUENCY
Microbiology	Blood cultures	Positive bacterial, fungal, mycobacterial or viral	<u>Call regardless of previous</u>	<u>Call regardless of previous</u>
	Direct CSF smears/cultures	Positive result	<u>Initial only</u>	<u>Initial only</u>
	Blood parasites	Positive for Plasmodium or other blood parasites	<u>Initial only</u>	<u>Initial only</u>
	Direct smear/culture from normally sterile tissue or fluid	Positive result	<u>Initial only</u>	<u>Initial only</u>
	Cryptococcal antigen	Positive result	<u>Initial only</u>	<u>Initial only</u>
	Bordetella pertussis PCR	Positive result	<u>Initial only</u>	<u>Initial only</u>
	HSV, VZV or enterovirus PCR (CSF or other sterile sites)	Positive result	<u>Initial only</u>	<u>Initial only</u>
	AFB smear	Positive result	<u>Initial only</u>	<u>Initial only</u>
	Shiga-toxins	Positive result	<u>Initial only</u>	<u>Initial only</u>
	Potential agents of bioterrorism (any site)	Positive result	<u>Call regardless of previous</u>	<u>Call regardless of previous</u>
	Staphylococcus aureus – vancomycin Intermediate or Resistant	Positive Result	<u>Initial only</u>	<u>Initial only</u>
	Legionella urinary antigen or culture	Positive result	<u>Initial only</u>	<u>Initial only</u>

LAB SECTION	TEST	CRITICAL VALUE/RESULT	INPATIENT CALL FREQUENCY	OUTPATIENT CALL FREQUENCY
<b>Toxicology</b>	Acetaminophen	>120 ug/mL (4 hrs. post ingestion)	<b>CALL REGARDLESS OF PREVIOUS</b>	<b>CALL REGARDLESS OF PREVIOUS</b>
	Ethanol	>300 mg/dL		
	Carbamazepine	>15 ug/mL		
	Cyclosporine	>700 ng/mL		
	Digoxin	>2.5 ng/mL		
	Gentamicin	Peak >12.0 ug/mL		
		Trough >3.0 ug/mL		
		Random >12.0 ug/mL		
	Lamotrigine	>20.0 ug/mL		
	Lithium	>1.5 mEq/L (<60 yrs of age)		
		>1.3 mEq/L (>60 yrs of age)		
	Phenobarbital	>60.0 ug/mL		
	Phenytoin	Total >30.0 ug/mL		
		Free > 3.5 ug/mL		
	Salicylate	>30.0 mg/dL		
Tacrolimus	>25.0 ng/mL			
Valproic acid	>150.0 ug/mL			
Vancomycin	Peak >80.0 ug/mL			
	Trough >25.0 ug/mL			
	Random and AUC1/2 >80.0 ug/mL			
<b>Urinalysis</b>	Urine Clinitest	Positive urine Clinitest with dipstick glucose negative (child <1 yr.)	<b>Initial Only</b>	<b>Initial Only</b>
	Microscopic	Sperm present (female <14 yrs.)	<b>Initial Only</b>	Call regardless of previous