

## MAINEHEALTH CRITICAL LAB VALUES

All values in this chart have been reviewed and approved by MaineHealth Medical Executive, CMO, and CNO councils.

HEMATOLOGY				AGE	LOW	HIGH	CONDITION	
							Inpatient	Outpatient
White Blood Count, Blood	thou/L	ALL	≤ 1.9	≥ 50.1	Initial only *	Call all, except known CLL/CML oncology patients with a critical WBC within the last year.		
Hemoglobin, Blood	g/dL	ALL	≤ 6.5		Call all	Call all		
Hematocrit, Blood	%	ALL	≤ 19.0		Call all	Call all		
Platelet count, Blood	thou/L	ALL	≤ 39	≥ 1000	Initial only *	Call all		
Blast Cells, Blood	%	ALL		≥ 6.0	Initial only *	Call all		
Blast Cells, Cerebral Spinal fluid	%	ALL		≥ 1.0	Initial only *	Call all		
Schistocytes		ALL		3+	Call all	Call all		
Blood Pathogens		ALL	All RBC and WBC parasites by morphology and/or positive PCR		Initial only *	Call all		
Wright -stained slides, Blood		ALL	Neutrophils with phagocytosed (intracellular) microorganisms (bacteria, yeast, etc) found in a normally sterile body fluid, i.e CSF, ventricular, synovial, serous fluids, and/or blood specimen. Only call if in neutrophils.		Call all	Call all		
Malignant Cells, Body Fluids		ALL	Refer smear to Pathologist					
*For hospital Inpatients, once the "Initial" critical value is called, additional calls are not required for same admission.								
COAGULATION				AGE	LOW	HIGH	CONDITION	
							Inpatient	Outpatient
INR		ALL		≥ 5.0	Call all	Call all		
PTT sec		ALL		≥ 150	Inpatients	Call all		
		ALL		≥ 60	Outpatients		Call all	
Fibrinogen	mg/dL	ALL	≤ 99		Call all	Call all		
VOLATILES				AGE	LOW	HIGH	CONDITION	
Ethylene Glycol	mg/dL	ALL		≥ 20		Call all		
Acetone	mg/dL	ALL		≥ 20		Call all		
Isopropyl Alcohol	mg/dL	ALL		≥ 20		Call all		
Methanol	mg/dL	ALL		≥ 20		Call all		
BLOOD GAS				AGE	LOW	HIGH	CONDITION	
pO2	mm Hg	ALL	≤ 50		Arterial or Capillary, Call all			
pCO2	mm Hg	ALL	≤ 20	≥ 70	Arterial or Capillary, Call all			
CarboxyHemoglobin	%	ALL		≥ 15.0	Call all			
MetHemoglobin	%	ALL		≥ 5.0	Call all			
pH arterial		ALL	≤ 7.20	≥ 7.60	Arterial or Capillary, Call all			
pH venous		ALL	≤ 7.20	≥ 7.50	Venous, Call all			
pH venous Cord Blood		ALL	≤ 6.99		Venous, Call all			
Hemoglobin	g/dL	ALL	≤ 6.5		Call all			

LIVE DATE:  
8/14/23

LIVE DATE:  
9/19/23

LIVE DATE:  
12/2/2024

LIVE DATE:  
10/24/23

CHEMISTRY	AGE	LOW	HIGH	CONDITION
Sodium mEq/L	ALL	≤ 119	≥ 161	Call all
Potassium mEq/L	ALL	≤ 2.7	≥ 6.3	Call all
Glucose mg/dL	≤ 6 MONTHS	≤ 44	≥ 201	Call all
	> 6 MONTHS	≤ 44	≥ 501	Call all
Calcium mg/dL	ALL	≤ 5.9	≥ 13.1	Call all
Total Bilirubin mg/dL	≤ 6 MONTHS		≥ 15.1	Call all
Magnesium mg/dL	ALL	≤ 0.9	≥ 8.1	Call all
Phosphorus mg/dL	ALL	≤ 1.0	≥ 9.1	Call all
Lactate mmol/L	ALL		≥ 4.0	Initial only * Call all
Sweat Chloride mmol/L	ALL		≥ 30.0	Call all
				Call all
hs Troponin T ng/L	ALL		> 50	** Exception: MMC and Brighton campuses: do NOT call
hs Troponin I ng/L (backup method)	ALL		≥ 65	Call all
Ionized Calcium mmol/L	ALL	≤ 0.75	≥ 1.60	Call all
*For hospital Inpatients, once the "Initial" critical value is called, additional calls are not required for same admission.				
TOXICOLOGY / THERAPEUTIC DRUGS	AGE	LOW	HIGH	CONDITION
ACETA ug/mL	ALL		≥ 250.1	Call all
CYA (Cyclosporine) ng/mL	ALL		≥ 301	Call all
DIG ng/mL	ALL		≥ 2.6	Call all
DILAN ug/mL	ALL		≥ 35.1	Call all
ETOH mg/dL	ALL		≥ 401	Call all
FPHNY ug/mL	ALL		≥ 3.1	Call all
GENT trough ug/mL	ALL		≥ 2.1	Call all
GENT peak ug/mL	ALL		≥ 20.1	Call all
GENT random ug/mL	ALL		≥ 2.1	Call all
LITH mEq/L	≤ 65 YEARS		≥ 1.5	Call all
LITH mEq/L	>65 YEARS		≥ 1.3	Call all
MTX umol/L	ALL		≥ 10.1	Call all
PHENO ug/mL	ALL		≥ 60.1	Call all
SALIC mg/L	ALL		≥ 400.1	Call all
TACRO ng/mL	ALL		≥ 20.1	Call all
TEG (Carbamazepine) ug/mL	ALL		≥ 15.1	Call all
THEO ug/mL	ALL		≥ 20.1	Call all
TOBRA trough ug/mL	ALL		≥ 2.1	Call all
TOBRA peak ug/mL	ALL		≥ 25.1	Call all
TOBCF cystic fibrosis ug/mL	ALL		≥ 30.1	Call all
TOBRA random ug/mL	ALL		≥ 2.1	Call all
VALP ug/mL	ALL		≥ 150.1	Call all
VALPF (FREE)	ALL		≥ 20.1	Call all
VANC trough ug/mL	ALL		≥ 30.1	Call all
VANC random ug/mL	ALL		≥ 50.1	Call all

LIVE DATE:  
1/30/24UPDATED:  
12/23/2025

Infectious disease (culture or molecular pathology)				LIVE DATE: 6/1/24
	AGE	VALUE	CONDITION	
GRAM STAIN	ALL	All positives on sterile body sites/fluids to include: <b>Blood</b> <b>CSF and Ventricular fluid</b> <b>Synovial fluid</b> <b>Serous fluids</b> - pleural, peritoneal, pericardial <b>Bone Marrow</b> <b>Biopsy</b>	(Excludes urine, gastrointestinal fluid and Bronchial lavage). Include source and site when calling critical values.	
CULTURE	ALL	All positives on sterile body sites/fluids to include: <b>Blood</b> <b>CSF and Ventricular fluid</b> <b>Synovial fluid</b> <b>Serous fluids</b> - pleural, peritoneal, pericardial <b>Bone Marrow</b> <b>Biopsy</b>	(Excludes urine, gastrointestinal fluid and Bronchial lavage). Include source and site when calling critical values.	
BLOOD CULTURE	ALL	<b>POSITIVE</b>	Each positive set within a series needs to be called. For subsequent positive blood cultures in the same set that demonstrate the same organism, verify that the initial was called and document that a previous positive in the same set was called. If the second bottle in the set demonstrates a different organism in the Gram Stain, this result needs to be called.	
BLOOD CULTURE including Nanosphere or Pheno	ALL	All rapid identification results	Call all	
Acid-fast bacilli	ALL	Positive smear/culture	Call all	
BACTERIAL ANTIGEN SCREEN	ALL	Positive CSF and Ventricular fluid	Call all	
CRYPTOCOCCAL ANTIGEN	ALL	Positive	Call all	
Babesia Microti	ALL	Positive	Initial only	
Anaplasma Phagocytophilum	ALL	Positive	Initial only	
Ehrlichia	ALL	Positive	Initial only	
HSV PCR	ALL	Positive sterile body fluid, including CSF and blood	Call all, excluding urine	
Enterovirus	ALL	Positive CSF and Ventricular fluid	Call all	
Any assay performed on CSF/brain	ALL	Any Positive virus, bacteria, fungus	Call all	