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*	LIVE DATE: 8/14/23
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*	UPDATED: 4/14/2026
Blood Pathogens	ALL	**All RBC and WBC parasites by morphology**		*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*		LIVE DATE: 9/19/23
	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*	LIVE DATE: 12/2/2024
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*	LIVE DATE: 10/24/23
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*	

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*	
hs Troponin T ng/L	ALL		**> 50**	Troponin results are not called as critical, but require a second tier of flagging for interpretation. Please see the MaineHealth Chest Pain Algorithm for help in interpretation.	
hs Troponin I ng/L (backup method)	ALL		**≥ 65**		
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 (Carbemazepine) 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		**> 20.0**	*Call all*
TOBCF cystic fibrosis ug/mL	ALL		**> 20.0**	*Call all*
TOBRA random ug/mL	ALL		**≥ 2.1**	*Call all*
VALP ug/mL	ALL		**≥ 150.1**	*Call all*
VANC trough ug/mL	ALL		**≥ 30.1**	*Call all*
VANC random ug/mL	ALL		**≥ 50.1**	*Call all*

LIVE DATE: 1/30/2024

UPDATED: 5/20/2026

Infectious disease (culture or molecular pathology)	AGE	VALUE	CONDITION	
GRAM STAIN	ALL	All positives on sterile body sites/fluids to include: **Blood** **CSF and Ventricular fluid** **Synovial fluid** **Serous fluids** - pleural, peritoneal, pericardial **Bone Marrow** **Biopsy**	*(Excludes urine, gastrointestinal fluid and Bronchial lavage).* *Include source and site when calling critical values.*	LIVE DATE: 6/1/2024 UPDATED: 4/14/2026
CULTURE	ALL	All positives on sterile body sites/fluids to include: **Blood** **CSF and Ventricular fluid** **Synovial fluid** **Serous fluids** - pleural, peritoneal, pericardial **Bone Marrow** **Biopsy**	*(Excludes urine, gastrointestinal fluid and Bronchial lavage).* *Include source and site when calling critical values.*	
BLOOD CULTURE	ALL	**POSITIVE**	*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*	
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*	