

Hematology

HGB	Hemoglobin (all ages)	<6 g/dL >20 g/dL
HCT	Hematocrit (all ages)	<18% >60%
PLT	Platelet count (all ages)	<25 x10 ⁹ /L >1000 x10 ⁹ /L
WBC	White Blood Cell count (all ages)	<1.50 x10 ⁹ /L >70 x10 ⁹ /L
ANC	Absolute Neutrophil Count	<1.0 x10 ⁹ /L
Blast cells	Pediatric ONLY (<18 Y) Manual diff-Blast Cells	>1 %

Hematology Oncology Patients Only

Results for WBC and ANC are called when the following criteria is met:

1. It is the first time the critical value is detected on the patient.
2. The patient has not had a similar critical value within the previous 24 hours.
3. The test was not ordered in the previous 24 hours.
4. Previous results within 24 hours was not a critical value. (Patient result changed from critical to non-critical, then back to critical).

WBC	White Blood Cell count	<1.50 x10 ⁹ /L >70 x10 ⁹ /L
ANC	Absolute Neutrophil Count	<1.0 x10 ⁹ /L

Coagulation

INR	Prothrombin Time (Protime) INR (<18Y)	>4.0
INR	Prothrombin Time (Protime) INR (≥18Y)	>5.0
PTT	Activated Partial Thromboplastin Time (<18Y)	>60 seconds
PTT	Activated Partial Thromboplastin Time (≥18Y)	≥160 seconds
D DIMER	Fibrin Degradation Units	≥500 ng FEU/mL (OP only excludes ED)
UFH	Unfractionated Heparin	>1.0 (IU/mL)
FIB	Fibrinogen	<100 mg/dL

Blood Gas/Whole Blood Testing

pH	pH units, arterial blood gas (<18 years)	<7.0 >7.6
pH	pH units (≥18 Years)	≤7.2 ≥7.6
BE	Base Excess – Cord blood gas	< -10.0 (worse than -10.0)
HCO ₃	Bicarbonate, arterial blood gas	≤12 mmol/L ≥40 mmol/L
TCO ₂	Total carbon dioxide, arterial blood gas	≤12 mmol/L ≥40 mmol/L
pCO ₂	Partial carbon dioxide, arterial, capillary, and venous blood gas (<18 years)	<20 mmHg >75 mmHg
pCO ₂	Partial carbon dioxide, arterial, capillary, and venous blood gas (≥18 years)	≤20 mmHg ≥70 mmHg
pO ₂	Partial pressure of oxygen, arterial blood gas	≤39 mmHg
K WB	Whole blood potassium	≤2.5 mmol/L ≥6.4 mmol/L
NA WB	Whole blood sodium	≤120 mmol/L ≥160 mmol/L
GLU WB	Whole blood glucose (<18Y)	<40 mg/dL >300 mg/dL
GLU WB	Whole blood glucose (≥18Y)	≤50 mg/dL ≥500 mg/dL
MET HGB	Methemoglobin	≥3.0%
CO HGB	Carboxyhemoglobin	≥ 12%
ICA WB	Calcium, ionized (<18Y)	<1 mmol/L >1.60 mmol/L
ICA WB	Calcium, ionized (≥18Y)	≤0.75 mmol/L ≥1.66 mmol/L
tHB	Total Hemoglobin	<7 g/dL >20 g/dL

Blood Bank

Transfusion reaction investigation, hemolytic	Positive
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Chemistry

ACETA BLD	Acetaminophen (<18Y)	≥50.0 µg/mL
ACETA BLD	Acetaminophen (≥18Y)	≥40.0 µg/mL
AMMONIA	Ammonia (<18Y)	>108 µmol/L
ASA	Salicylate (Aspirin)	≥40.0 mg/dL
BILI	Total Bilirubin (0-1 year)	≥17.0 mg/dL
CA	Calcium	<6.0 mg/dL >13.0 mg/dL
CO2	Carbon Dioxide	≤9 mmol/L ≥40 mmol/L
ETOH	Blood ethanol/alcohol (<18Y)	>10 mg/dL
ETOH	Blood ethanol/alcohol (≥18Y)	≥400 mg/mL
GLU	Glucose (<18Y)	<40 mg/dL >300 mg/dL
GLU	Glucose (≥18Y)	≤50 mg/dL ≥500 mg/dL
K	Potassium (<18Y)	<2.5 mmol/L >6.0 mmol/L
K	Potassium (≥18Y)	≤2.5 mmol/L ≥6.4 mmol/L
LI	Lithium	≥1.5 mmol/L
MG	Magnesium	≤1.2 mg/dL ≥6.0 mg/dL
NA	Sodium < 18 years	<120 mmol/L >165 mmol/L
NA	Sodium ≥ 18 years	≤120 mmol/L ≥160 mmol/L
PHOS	Phosphorus	≤1.0 mg/dL

Point of Care Testing

GLU	Glucose (<18Y)	<40 mg/dL >300 mg/dL
GLU	Glucose (≥18Y)	≤50 mg/dL ≥500 mg/dL
tHB/HGB	Total Hemoglobin/Hemoglobin (all ages)	<6 g/dL >20 g/dL
HCT	Hematocrit (all ages)	<18% >60%
INR	iSTAT Protime International Normalizing Ratio (not run on Pediatrics)	>5.0
NA	Sodium (<18 Y)	<120 mmol/L > 165 mmol/L
NA	Sodium (≥18 Y)	≤120 mmol/L ≥ 160 mmol/L
K	Potassium (<18Y)	<2.5 mmol/L >6.0 mmol/L
K	Potassium (≥18Y)	≤2.5 mmol/L ≥6.4 mmol/L
ICA WB	Calcium, ionized (<18Y)	<1 mmol/L >1.60 mmol/L
ICA WB	Calcium, ionized (≥18Y)	≤0.75 mmol/L ≥1.66 mmol/L
pO ₂	Partial oxygen, arterial blood gas	≤39 mmHg
pCO ₂	Partial carbon dioxide, arterial, capillary, and venous blood gas (<18 years)	<20 mmHg >75 mmHg
pCO ₂	Partial carbon dioxide, arterial, capillary, and venous blood gas (≥18 years)	≤20 mmHg ≥70 mmHg
TCO ₂	Total carbon dioxide, arterial blood gas	≤12 mmol/L ≥40 mmol/L
HCO ₃	Bicarbonate, arterial gas (calculated)	≤12 mmol/L ≥40 mmol/L
pH	pH units, arterial blood gas (<18 years)	<7.0 >7.6
pH	pH units (≥18 Years)	≤7.2 ≥7.6
BE	Base Excess – Cord blood gas	< -10.0 (worse than -10.0)

Therapeutic Drugs		
DIGOXIN	Digoxin	≥3.0 ng/mL
GENT R	Gentamicin (Random)	≥12.0 µg/mL
GENT P	Gentamicin (Peak)	≥12.0 µg/mL
GENT T	Gentamicin (Trough)	≥2.00 µg/mL
PHENY TOT	Phenytoin, Total (Dilantin)	≥30 µg/mL
VANC R	Vancomycin (Random)	≥80.0 µg/mL
VANC P	Vancomycin (Peak)	≥80.0 µg/mL
VANC T	Vancomycin (Trough)	≥35.0 µg/mL

Microbiology

C BLD	Blood Culture	Positive
GS	Gram stain for bacteria/fungus Positive blood cultures and normally sterile sites only.	Positive for: body fluids (ascites, CSF, paracentesis, peritoneal); blood products associated with transfusion reaction; Specimens submitted from surgery.