

UCLA Health Clinical Laboratories Critical Values

TEST	LOW	HIGH
SODIUM		
Sodium, ≥ 6 months of age	< 125 mmol/L	> 155 mmol/L
Sodium, Neonate (< 6 months of age)	< 125 mmol/L	> 150 mmol/L
POTASSIUM		
	< 3.0 mmol/L	> 6.0 mmol/L
CARBON DIOXIDE (CO₂)		
	< 10.0 mmol/L	> 40.0 mmol/L
CREATININE (< 6 months of age)		
	----	> 2.0 mg/dL
GLUCOSE		
	< 40 mg/dL	> 400 mg/dL
CALCIUM		
	< 6.0 mg/dL	> 13.0 mg/dL
CALCIUM, IONIZED		
	< 0.75 mmol/L	> 1.6 mmol/L
MAGNESIUM		
Magnesium	< 1.0 mEq/L	> 4.0 mEq/L
Magnesium, Delivery Room	< 1.0 mEq/L	> 7.0 mEq/L
PHOSPHORUS		
	< 1.0 mg/dL	----
PROCALCITONIN		
	---	≥ 10 µg/L
TOTAL BILIRUBIN		
Total Bilirubin (≤ 30 days of age)	----	≥ 15.0 mg/dL
Total Bilirubin (31 days to 6 months of age)	---	≥ 20.0 mg/dL
TROPONIN		
Troponin I (Inpatient includes ED)	---	≥ 1.0 ng/mL
Troponin I (Outpatient)	---	≥ 0.04 ng/mL
pH		
pH (arterial blood ≥ 6 months)	< 7.25	> 7.55
pH Neonates (arterial blood < 6 months of age)	< 7.20	> 7.55
pH (capillary and venous blood < 6 months of age)	< 7.10	> 7.60
pCO₂		
pCO ₂ (arterial blood ≥ 6 months)	< 25 mmHg	> 55 mmHg
pCO ₂ Neonates (arterial blood < 6 months of age)	< 25 mmHg	> 60 mmHg
pCO ₂ (capillary and venous blood < 6 months of age)	< 25 mmHg	> 65 mmHg

TEST		LOW	HIGH
pO ₂			
pO ₂ (arterial blood ≥ 6 months)		< 50 mmHg	----
pO ₂ Neonates (arterial blood < 6 months of age)		< 40 mmHg	> 150 mmHg (not on O ₂) > 300 mmHg (on O ₂)
pO ₂ (capillary blood < 6 months of age)		< 20 mmHg	> 120 mmHg
ARTERIAL CORD BLOOD	pH	< 7.00	----
	pCO ₂	----	≥ 67 mmHg
	Base Excess	< -12 mmol/L	----
HEMOGLOBIN *		< 7 g/dL	----
HEMATOCRIT *		< 20%	----
PLATELETS			----
Platelet Count*		< 50 x10E3/μL	----
Platelet Estimation*		Markedly decreased (< 50 x10E3/μL)	----
PROTHROMBIN TIME INR		----	> 5.0
APTT		----	≥ 140 seconds
FIBRINOGEN		< 75 mg/dL	----
UNFRACTIONATED HEPARIN		---	≥ 1.0 IU/mL
LOW MOLECULAR WEIGHT HEPARIN		---	> 2.0 IU/mL
GRAM STAIN or CULTURE, Sterile Site		----	Positive
PARASITE EXAMINATION, Blood		----	Positive
PSEUDOMONAS AERUGINOSA in Culture, from any eye source		---	Positive
ACANTHAMOEBA / NAEGLERIA Culture, from brain or CSF sources		---	Positive
CSF DIFFERENTIAL		---	Positive for Organisms

*** Hemoglobin, Hematocrit, and Platelets**

Inpatient: Only the first in a series of values below the threshold will be called and whenever the previous results are not within the range of critical values.

Platelet counts < 50 x10E3/μL: If the delta is 40% and the count is less than the previous count, the result must be called-

Outpatient, ED & RR Anesthesia Lab: All critical values must be called.