

# Clinical Laboratory Critical Value List



The following is a list of critical values established at Parrish Medical Center:

Test	Critical Value	
Absolute Neutrophil Count (ANC#)	$\leq 0.50 \text{ Th/mm}^3$	
Acetaminophen	Greater than 150 ug/ml @ 4 hours post-ingestion Greater than 50 ug/ml @ 12 hours post-ingestion	
AFB Stain	Positive for AFB	
Alcohol, Blood	<b>Low:</b> none	<b>High:</b> 0.3 gm/dl or greater
Bacterial Contamination on Transfused Platelets	Positive Bacterial Contamination on Transfused Platelets	
Bilirubin, Total	<b>Low:</b> none	<b>High:</b> 15 mg/dl or greater Newborn to 1 yr)
Blood Culture	Positive	
Blood Urea Nitrogen (BUN)	<b>Low:</b> none	<b>High:</b> 100 mg/dl or greater
Calcium (Serum, plasma)	<b>Low:</b> 7 mg/dl or less	<b>High:</b> 13 mg/dl or greater
Carbamazepine	<b>Low:</b> none	<b>High:</b> 20 ug/ml or greater
Carbon Dioxide (CO <sub>2</sub> Serum, plasma)	<b>Low:</b> 15 mmol/L or less	<b>High:</b> 40 mmol/L or greater
CSF Culture, Stain, or Serological Testing (Includes send-out reports)	Positive	
CSF Gram Stain, Fungal Stain	Positive	
Digoxin	<b>Low:</b> none	<b>High:</b> 2.5 ng/ml or greater
Direct Antiglobulin Test (DAT) on Cord Blood	Positive	
Glucose (Serum, plasma) During glucose tolerance testing: if the glucose result from the draw following a critical result returns to normal, the results can be faxed to the physician office with the comment "Results faxed to physician office."	<b>Low:</b> 50 mg/dl or less	<b>High:</b> 450 mg/dl or greater Exception: Glucose Tolerance. See explanation to the left.
Glucose in Newborns (age 0-3 days)	<b>Low:</b> <40mg/dl	
Hematocrit	<b>Low:</b> 20% or less; preop 30%	<b>High:</b> 60% or greater (Adults)
Hemoglobin Newborn(age 0-3 days) Adults	<b>Low:</b> < 20 7 gm/dl or less; preop 10 gm/dl	<b>High:</b> 20 gm/dl or greater
Joint Fluid	Positive Gram Stain and/or Culture	
Magnesium	<b>Low:</b> $\leq 1.5$	<b>High:</b> $\geq 5.0$
Malarial Smear	Positive	
Phenobarbital	<b>Low:</b> none	<b>High:</b> 55 ug/ml or greater
PCO <sub>2</sub>		<b>High:</b> >46
pH Newborn(age 0-3 days) Adults	<b>Low:</b> < 7.3 < 7.35	<b>High:</b> >7.55
PO <sub>2</sub> Newborn(age 0-3 days) Adults	<b>Low:</b> < 50 < 60	
Phenytoin (Dilantin)	<b>Low:</b> none	<b>High:</b> 30 ug/ml or greater
Phosphorus	<b>Low:</b> 1 mg/dl or less	<b>High:</b> none
Platelet Count	<b>Low:</b> 30,000/mm <sup>3</sup> or less	<b>High:</b> none

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Potassium 0 – 2 Days old 2 Days – 1 yr old Older than 1 yr Adult (no hemolysis)	<b>Low:</b> 3.4 mmol/L or less 3.3 mmol/L or less 2.9 mmol/L or less 3.0 mmol/L or less	<b>High:</b> 7.1 mmol/L or greater 7.1 mmol/L or greater 6.4 mmol/L or greater 6.0 mmol/L or greater
Pregnancy Test on Pre-Op Specimen	Positive	
PT INR	<b>Low:</b> none	<b>High:</b> $\geq 5.0$
PTT	<b>Low:</b> none	<b>High:</b> 125 seconds or greater
Salicylate	<b>Low:</b> none	<b>High:</b> 30 mg/dl or greater
Sodium	<b>Low:</b> 120 mmol/L or less	<b>High:</b> 160 mmol/L or greater
Tacrolimus	<b>Abnormal High</b>	
Theophyline	<b>Low:</b> none	<b>High:</b> 25 ug/ml or greater
Troponin i		<b>High:</b> <b>&gt;0.08</b>
Troponin T During cardiac marker monitoring, the first critical troponin will be called. Subsequent critical values do not need to be called.	<b>Low:</b> none	<b>High:</b> >0.1 ng/ml
Urine Ketones in Newborns	Present	
Urine Glucose in Newborns	Present	
Valproic Acid	<b>Low:</b> none	<b>High:</b> 150 ug/ml or greater
ERWBC	<b>Low:</b> <b>&lt;3.0 Th/mm<sup>3</sup></b>	<b>High:</b> none