SANFORD
Laboratories

Sanford Laboratories' Critical Values

NAME		Critical Value		
	Age	**Low Critical**	**High Critical**	**Units**
Bilirubin, total	≤7 days	none	≥15.0	mg/dL
Calcium, total		≤6	≥13	mg/dL
Calcium, ionized		≤0.8	≥1.4	mmol/L
Carbamazepine		none	≥15	ug/mL
Carbon Monoxide		none	≥10	%
Cyclosporine		none	≥450	ng/mL
CO_2 (serum), total		<13	none	mEq/L or mmol/L
Digoxin		none	≥2.5	ng/mL
Glucose	≤ 1mo	<40	≥150	mg/dL
	>1mo	≤60	≥400	mg/dL
Lactic Acid		none	≥3.9	mmol/L
Lithium		none	≥2	mEq/L or mmol/L
pH (arterial, venous, capillary)		≤7.2	≥7.6	
pH, cord blood		≤7.15	none	
Base Excess, cord blood		≤-10	none	mEq/L
Phenobarbital		none	≥60	ug/mL
Phenytoin	≤6mo	none	≥25	ug/mL
	>6mo	none	≥30	ug/mL
Potassium		≤2.5	≥6.0	mEq/L or mmol/L
Prothrombin Time INR		none	≥5.0	INR
PTT		none	≥150	Sec
Sodium		≤120	≥160	mEq/L or mmol/L
Hematocrit	≤1mo	<30	≥70	%
	>1mo	≤21	≥60	%
Hemoglobin	≤1mo	<10.0	≥23.0	g or g/dL
	>1mo	≤7.0	≥20.0	g or g/dL
Platelet Count		≤10.0	≥1000.0	$x10^3$/ul
Vancomycin, trough		None	>50.1	mcg/mL
White Blood Cell (WBC) count		<1.5	≥100*	$x10^3$/ul
Microbiology	**Age**	**Critical Value**		**Units**
Positive blood culture gram stain		x		
Positive blood culture w/negative gram stain		x		
Positive fungal blood culture		x		
Positive HSV on any source on an inpatient	≤1 year	x		
Detection of a viral, bacterial, or fungal pathogen in cerebrospinal fluid (CSF)- including gram stain		x		

* If the most recent WBC value is ≥50 x 10^3/ul within the past 100 days then it is not critical. If there is no WBC value in the last 100 days any value ≥100 x 10^3/ul will flag as critical.