

Critical Results Definitions - Lab - SCL Health - Supporting Document

TEST	LOW	HIGH	NOTES	Colorado					Montana		
				GSH *Cancer Center of Colorado	LH	PVH	SJH *Known Oncology Patients ONLY	SMH	HRH	SJB	SVH
BLOOD GASES											
pH	< 7.20	> 7.60	Arterial								
	≤ 7.0	N/A	Cord Blood								
pCO2	< 20 mmHg	> 70 mmHg	Arterial								
pCO2	< 30 mmHg	> 70 mmHg	Capillary								
pO2	< 40 mmHg	N/A	Arterial								
Base Excess	≤ -16 mmol/L		Cord Blood								
THERAPEUTIC DRUG MONITORING (TDM)											
Acetaminophen	N/A	> 40.0 µg/mL		Call 1 st result per admission							
Carbamazepine	N/A	> 15.0 µg/mL									
Digoxin	N/A	≥ 2.5 ng/mL									
Gentamicin (Trough)	N/A	> 2.0 µg/mL	Drawn 30 minutes pre-infusion								
Lithium	N/A	> 1.5 mmol/L	Trough								
Phenobarbital	N/A	> 50.0 µg/mL									
Phenytoin	N/A	> 30.0 µg/mL									
Salicylates	N/A	> 30.0 mg/dL		Call 1 st result per admission							
Theophylline	N/A	> 25.0 µg/mL									
Tobramycin (Trough)	N/A	> 2.0 µg/mL	Drawn 30 minutes pre-infusion								
Valproic Acid	N/A	> 150.0 µg/mL									
Vancomycin (Trough)	N/A	> 20.0 µg/mL									
CHEMISTRY											
Bilirubin (neonatal)	0 days old	≥ 10.0 mg/dL									
	1 day old	≥ 13.5 mg/dL									
	2 days old	≥ 16.0 mg/dL									
	3-4 days old	≥ 17.5 mg/dL									
	5 days to 1 month old	≥ 18.0 mg/dL									
Calcium (Total)	< 6.0 mg/dL	> 13.0 mg/dL									Call 1 st result
Ionized Calcium	< 0.80 mmol/L	> 1.60 mmol/L	Arterial, Venous, Capillary								
CO2 (Carbon Dioxide)	< 10 mmol/L	> 40 mmol/L	Arterial, Venous, Capillary								Call 1 st result

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Glucose (>1 month old)	< 50 mg/dL	> 500 mg/dL	Arterial, Venous, Capillary								
Glucose (1 day to 1 month old)	< 50 mg/dL	> 300 mg/dL	Arterial, Venous, Capillary								
Glucose (<24 hours old)	< 45 mg/dL	> 300 mg/dL	Arterial, Venous, Capillary								
Lactate	N/A	≥ 4.0 mmol/L	Arterial, Venous, Capillary	Call 1 st result per admission							Call 1 st result
Magnesium (Mg)	≤1.2 mg/dL	< 18 years old	≥ 4.0 mg/dL								Call 1 st result
		≥ 18 years old	≥ 6.0 mg/dL								
Phosphorus (P)	< 1.0 mg/dL	> 8.0 mg/dL									Call 1 st result
Potassium (K)	< 2.5 mmol/L	> 6.0 mmol/L	Arterial, Venous								
Sodium (Na)	< 120 mmol/L	> 160 mmol/L	Arterial, Venous								Call 1 st result
Troponin 5 th Gen.	N/A	Critical if any criteria met: <ul style="list-style-type: none"> • Value: ≥ 120 ng/L • Absolute Delta: ≥ 20 ng/L • Percent Delta: ≥ 50% rise if baseline normal ≥ 20% rise if baseline abnormal 		Call on first occurrence, regardless of component , once per 24 hours							
HEMATOLOGY											
Hemoglobin	< 7.0 g/dL	N/A		*<6.0 g/dL							
Hematocrit	< 21.0%	N/A									
Platelets (PLT)	< 20 x 10 ³ /μL	> 1000 x 10 ³ /μL		*<2 or >2000 x 10 ³ /μL			*1 st Critical Result is called				

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							and documented				
White Blood Cell (WBC) Count	< 2.00 x 10 ³ /μL	> 50.00 x 10 ³ /μL					*1 st Critical Result is called and documented				
Absolute Neutrophil Count (ANC)	< 0.5 x 10 ³ /μL	N/A		*<0.1 x 10 ³ /μL							
											Call on 1 st occurrence.
CBC with Differential and/or Manual Differential	Presence of Blasts or Blood Parasites										Call on 1 st occurrence.
Malaria Antigen Test	Positive Test										
COAGULATION											
INR	N/A	> 5.00									
aPTT	N/A	> 140.0 sec									
Fibrinogen	< 100 mg/dL	N/A									
MICROBIOLOGY											
Blood Culture	Positive culture or smear		AFB, bacterial, fungal								
CSF Culture	Positive culture, smear or molecular test		AFB, bacterial, fungal								
Sterile Body Fluid Culture	Positive culture or smear		AFB, bacterial, fungal								
Any agent of bioterrorism											
TRANSFUSION MEDICINE											
Transfusion reactions	Hemolytic transfusion reaction or septic transfusion reaction										
MISCELLANEOUS											
Any Incidental Critical Parameter				Call 1 st result per admission							
Comments:				SJH (Known Oncology Patients ONLY) • Subsequent Critical Values for ANC, Blasts, Platelets, and WBC are appended with the coded comments NCR, No Call Required.							