## Critical Results Definitions - Lab - SCL Health - Supporting Document

				Colorado						Montana		
TEST	LOW	HIGH	NOTES	GSMC	*Oncology Patient in Infusion Center or Inpatient Cancer Center	PVMC	*Known Oncology Patients ONLY	SMMC	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 <sup>st</sup> 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 <sup>st</sup> 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	<u> </u>					<u> </u>		<u> </u>	<u>'</u>		1	
Bilirubin (neonatal)	0 days old	≥ 10 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	≥ 18.0 mg/dL										
Calcium (Total)	< 6.0 mg/dL	> 13.0 mg/dL									Call 1 <sup>st</sup> result	
Ionized Calcium	< 0.80 mmol/L	> 1.60 mmol/L	Arterial, Venous, Capillary									

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CO2 (Carbon Dioxide)	< 10 mmol/L	> 40 mmol/L	Arterial, Venous, Capillary								Call 1 <sup>st</sup> result
Glucose (non- neonatal)	< 50 mg/dL	> 500 mg/dL	Arterial, Venous								
Glucose (neonatal)	< 50 mg/dL	> 300 mg/dL	Arterial, Venous								
Lactate	N/A	≥ 4.0 mmol/L	Arterial, Venous, Capillary	Call 1 <sup>st</sup> result per admission							Call 1 <sup>st</sup> result
Magnesium (Mg)	< 1.0 mg/dL	> 5.0 mg/dL									Call 1st result
Phosphorus (P)	< 1.0 mg/dL	> 8.0 mg/dL									Call 1st 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 <sup>st</sup> result
Troponin 5 <sup>th</sup> Gen.	N/A	The following components are considered critical if respective criteria is met:  • Any value ≥ 120 ng/L  • Absolute Delta: ≥ 20 ng/L  • Percent Delta: Delta rise ≥ 50% if baseline normal  Delta rise ≥ 20% if baseline abnormal		Call on first occurrence, regardless of component, once per 24 hours	Call on first occurrence, regardless of component, once per 24 hours	Call on first occurrence, regardless of component, once per 24 hours	Call on first occurrence, regardless of component, once per 24 hours	Call on first occurrence, regardless of component, once per 24 hours	Call on first occurrence, regardless of component, once per 24 hours	Call on first occurrence, regardless of component, once per 24 hours	Call on first occurrence, regardless of component, once per 24 hours
HEMATOLOGY											
Hemoglobin	< 7.0 g/dL	N/A									
Hematocrit	< 21.0%	N/A									
Platelets (PLT)	< 20 x 10^3/μL	> 1000 x 10^3/µL			*Do NOT call platelet count < 10,000 with standing platelet transfusion parameters		*1st Critical Result is called and documented				
White Blood Cell (WBC) Count	< 2.00 x 10 <sup>3</sup> /µL	> 50.00 x 10 <sup>3</sup> /μL			*Do NOT call > 200,000 for Chronic Leukemics and 100,000 for		*1st Critical Result is called and documented				

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					Acute Leukemics  *For all other diagnoses call MD if > 50,000.  *Do NOT call any low white							
Absolute Neutrophil	< 0.5 x 10 <sup>3</sup> /µL	N/A		Call on 1 <sup>st</sup>	blood cell count.  Call on 1st	Call on 1st	Call on 1st	Call on 1st	<call 1st<="" on="" td=""><td>Call on 1st</td><td>Call on 1st</td></call>	Call on 1st	Call on 1st	
Count (ANC)	0.0 % 10 / 22	1,47,1		occurrence.	occurrence.	occurrence.	occurrence.	occurrence.	occurrence.	occurrence.	occurrence	
Differential	Presence of Blasts or Blood Parasites			Call on 1 <sup>st</sup> occurrence.	Call on 1 <sup>st</sup> occurrence.	Call on 1 <sup>st</sup> occurrence.	Call on 1 <sup>st</sup> occurrence.	Call on 1 <sup>st</sup> occurrence.	Call on 1st occurrence.	Call on 1st occurrence.	Call on 1st occurrence	
Malaria Antigen Test	Positive Test											
COAGULATION								1				
INR	N/A	> 5.00										
aPTT	N/A	> 140.0 sec										
Fibrinogen	< 100 mg/dL	N/A										
MICROBIOLOGY	1										-	
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 bioterror	ism											
TRANSFUSION MED	ICINE						•	•	•			
Transfusion reactions	Hemolytic transfusion reaction or septic transfusion reaction											
MISCELLANEOUS	l											
Any Incidental Critical Parameter				Call 1 <sup>st</sup> result per admission								
Comments:					ncology Patients O		elets, and WBC are	appended with	the coded comme	ents NCR, No Cal	l Required.	