

Critical Laboratory Values  
NorDx Scarborough and NorDx MMC

TEST	UNIT	Less Than or Equal to	Greater Than or Equal to	Other
<b><u>Coagulation</u></b>				
Fibrinogen	mg/dL	100		
INR			5.0	
PTT, MMC inpatient	seconds		150.0	
PTT, outpatient	seconds		60.0	
Heparin-Induced Thrombocytopenia				Positive
<b><u>Hematology</u></b>				
Hematocrit	%	Initial: 21, Thereafter: 18		See note 1 below
Hemoglobin	g/dL	Initial: 7.0, Thereafter 6.0 (< 2.5)		See note 1 below
Platelet Count	Thou/uL	Initial: 40,000 Thereafter: 10,000	Initial: 800,000	See note 1 below
WBC	Thou/uL	Initial: 2,000	Initial: 30,000	See note 1 below
Schistocytes, MMC inpatient (except NICU)				Present (initial only)
RBC/WBC parasites				Positive
<b><u>Blood Gases (SCU/CICU)</u></b>				
pH (arterial)		7.25	7.55	
pH (venous)		7.20	7.60	
pCO <sub>2</sub> (arterial)	Torr	20	70.0	
pO <sub>2</sub> (arterial)	Torr	40		
tHb (arterial or venous)	g/dL	Initial: 7.0, Thereafter: 6.0		
COHb (arterial)	%		15.0	
MetHb (arterial)	%		5.0	
<b><u>Blood Gases (Non-SCU)</u></b>				
pH (arterial or venous)		7.3	7.5	
pCO <sub>2</sub> (arterial)	Torr	30	50.0	
pO <sub>2</sub> (arterial)	Torr	50		
tHb (arterial or venous)	g/dL	Initial: 7.0, Thereafter: 6.0		
COHb (arterial)	%		15.0	
MetHb (arterial)	%		5.0	
<b><u>Chemistry</u></b>				
Bilirubin (<= 6 years)	mg/dL		Initial: 15.0	See note 1 below
Calcium	mg/dL	6.0 (5.0)	13.0 (15.0)	
Calcium, ionized	mmol/L	0.75 (0.46)	1.6 (2.84)	
CO <sub>2</sub>	mEq/L	< 10		
CRP (<= 6 months)	mg/L		10.1	
Glucose, outpatient <= 1 year	mg/dL	50	200 (400)	
Glucose, outpatient >1 year	mg/dL	50	500 (1200)	
Glucose, <b>MMC inpatient</b> <= 6 months	mg/dL	50	200 (400)	
Glucose, <b>MMC inpatient</b> > 6 months	mg/dL	50	500 (1200)	
Lactate	mmol/L		Initial: 4.0	
Magnesium	mg/dL	1.0	8.5	
Phosphorus, inorganic	mg/dL	1.0		
Potassium (<= 2 months and/or NICC)	mEq/L	3.0 (1.6)	7.0 (9.0)	
Potassium, MMC inpatient	mEq/L	2.8 (1.6)	6.2 (9.0)	
Potassium, outpatient	mEq/L	2.8 (1.6)	6.5 (9.0)	
Sodium (<= 18 years)	mEq/L	125 (110)	160 (175)	
Sodium, MMC inpatient (>18 years)	mEq/L	120 (110)	160 (175)	
Sodium, outpatient (>18 years)	mEq/L	125 (110)	160 (175)	

<b>Drug Levels</b>				
Acetaminophen	µg/mL		250.1	
Amikacin	µg/mL		Trough 15.1 Peak 60.1	
Carbamazepine	µg/mL		15.1 (40.0)	
Cyclosporine	ng/mL		401 (3001)	
Digoxin	ng/mL		2.6 (9.0)	
Ethanol	mg/dL		401.0	
Gentamicin	µg/mL		Trough 2.1 Peak 20.1	
Lidocaine	µg/mL		7.1	
Lithium <=65	mEq/L		1.5 (8.0)	
Lithium >65	mEq/L		1.3 (8.0)	
Phenobarbital	µg/mL		60.1 (120.0)	
Phenytoin, Total	µg/mL		40.1 (80.0)	
Phenytoin, Free	µg/mL		4.1	
Salicylate	mg/L		400.1	
Tacrolimus (FK506)	ng/mL		20.1 (60.1)	
Theophylline	µg/mL		20.1 (80.0)	
Tobramycin	µg/mL		Trough 2.1 Peak 25.1	
Tobramycin, CF patient	µg/mL		Peak 30.0	
Valproic Acid	µg/mL		200.1 (281.0)	
Vancomycin	µg/mL		Trough 30.0	
<b>Microbiology</b>				
Blood Culture				Positive
Rapid Blood Culture Identification				
AFB Smear/culture				Positive
Bacterial Antigen Screen (CSF)				Positive
Cryptococcal Antigen				Positive
Gram stain/culture/HSV PCR - sterile body fluid				Positive
Babesia Microti DNA (BMDNA) by PCR, <b>MMC inpatient</b>				Positive (Detected)
Anaplasma Phagocytophilum DNA (APDNA) by PCR, <b>MMC inpatient</b>				Positive (Detected)
Coronavirus COVID-19 (Sars-CoV-2 by RT-PCR)				Detected
<b>Send outs</b>	If any referral laboratory notifies NorDx with a report that they consider a critical value, NorDx staff will handle the result as a critical value.			

**NOTES:**

- All Outpatients are considered under the "Initial" category
- For Inpatients, once the "Initial" critical value is called, additional calls are not required until the "Thereafter" criteria are met.
- ( ) = extremely abnormal result, refer to Critical Values Validation policy before entering result

**Revision Date**

**Change**

**Approval**

November 2017

Added Glucose Inpatient - raised lower critical value

Tim Hayes, MD

May 2018

Reconciled Glucose w/SSC Flag

July 2019

Add Babesia and Anaplasma PCR, reconciled toxicology with SCC

May-20

Added COVID-19