

NorDx Critical Laboratory Values

Critical Laboratory Values  
NorDx Scarborough and NorDx MMC

TEST	UNIT	Less Than or Equal to	Greater Than or Equal to	Other
<b>Coagulation</b>				
Fibrinogen	mg/dL	100		
INR			5.0	
PTT, MMC inpatient	seconds		150.0	
PTT, outpatient	seconds		60.0	
Heparin-Induced Thrombocytopenia				Positive
<b>Hematology</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>Blood Gases (SCU/CICU)</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>Blood Gases (Non-SCU)</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>Chemistry</b>				
Bilirubin (< 5 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	mg/dL	50	500 (1200)	
Glucose, inpatient	mg/dL	50	500 (1200)	
Glucose, MMC neonates	mg/dL	50	200 (400)	
Lactate	mmol/L		Initial * 4.0	
Magnesium	mg/dL	1.0	8.5	
Phosphorus, inorganic	mg/dL	1.0		
Potassium, MMC inpatient	mEq/L	2.8 (1.0)	6.2 (10.0)	
Potassium, MMC neonates	mEq/L	3.0 (1.0)	7.0 (10.0)	
Potassium, outpatient	mEq/L	2.8 (1.0)	6.5 (10.0)	
Sodium (>18 years)	mEq/L	120 (110)	160 (175)	

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Sodium (<= 18 years)	mEq/L	125 (110)	160 (175)	
Sodium, outpatient	mEq/L	125 (110)	160 (175)	
<b><u>Drug Levels</u></b>				
Acetaminophen	µg/mL		250.0	
Amikacin	µg/mL		Trough 15.0 Peak 60.0	
Carbamazepine	µg/mL		15.0 (40.0)	
Cyclosporine	ng/mL		400 (3000)	
Digoxin	ng/mL		2.5 (10.0)	
Ethanol	mg/dL		400.0	
Gentamicin	µg/mL		Trough 2.0 Peak 20.0	
Lidocaine	µg/mL		7.0	
Lithium	mEq/L		1.5 (8.0)	
Phenobarbital	µg/mL		60.0 (120.0)	
Phenytoin, Total	µg/mL		40.0 (80.0)	
Phenytoin, Free	µg/mL		4.0	
Primidone	µg/mL		20.0	
Salicylate	mg/L		400.0	
Tacrolimus (FK506)	ng/mL		20.0 (60.0)	
Theophylline	µg/mL		20.0 (80.0)	
Tobramycin	µg/mL		Trough 2.0 Peak 25.0	
Tobramycin, CF	µg/mL		Peak 30.0	
Valproic Acid	µg/mL		200.0 (300.0)	
Vancomycin	µg/mL		Trough 30.0	
<b><u>Microbiology</u></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
<b><u>Send outs</u></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:

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

**Revision Date**

**Change**

**Approval**

November 2017  
May 2018

Added Glucose Inpatient - raised  
lower critical value  
Reconciled Glucose w/SSC Flag

Tim Hayes, MD

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