

GENERAL CHEMISTRY			
ANALYTE	AGE RANGE	CRITICAL VALUE	UNITS
ALCOHOL	Any Age	> 100	mg/dL
AMYLASE	Any Age	> 500	U/L
BICARBONATE (CO <sub>2</sub> )	Birth – 18 years	<11	mmol/L
	Adult	< 10	mmol/L
BILIRUBIN (TOTAL)	Any age	> 16	mg/dL
CALCIUM	Birth – 1 year	< 7 and >13	mg/dL
	1 year - Adult	< 7 or >12	mg/dL
CKMB	Any Age	> 5.0	ng/mL
CSF GLUCOSE	Any Age	< 30	mg/dL
CSF PROTEIN	Any Age	> 100	mg/dL
GLUCOSE	Birth – 1 day	<36 and >200	mg/dL
	2 – 7 days	<47 and >200	mg/dL
	8 days – 18 years	<50 and >300	mg/dL
	Adult	<50 and >500	mg/dL
GLUCOSE TOLERANCE	Any Age	<50 and >500	mg/dL
HEPATITIS MMUNOASSAY	Any Age	Hepatitis A (IgM) positive	
IONIZED CALCIUM	Any Age	< 0.9 or >1.4	mmol/L
LACTATE	Any Age	> 4	mmol/L
MAGNESIUM	Any Age	< 1.1 or > 4.9	mg/dL
PHOSPHOROUS	Any Age	< 1.5	mg/dL
POTASSIUM	Birth – 18 years	<3 and >6	mmol/L
	Adult	< 2.5 or > 6.0	mmol/L
SODIUM	Birth – 1 week	< 125 and > 150	mmol/L
	1 week – 1 year	< 130 and >150	mmol/L
	1 year – 18 years	<125 and >150	mmol/L
	Adult	< 120 or >155	mmol/L
TROPONIN	Any Age	> 0.6	ng/mL
UREA NITROGEN (BUN)	Birth – 18 years	> 50	mg/dL
	Adult	> 80	mg/dL

BLOOD GASES			
ANALYTE	AGE RANGE	CRITICAL VALUES	UNITS
ARTERIAL pCO <sub>2</sub>	Any Age	< 20 or > 70	mmHg
ARTERIAL / VENOUS / CAPILLARY pH	Any Age	< 7.2 or > 7.6	
ARTERIAL po <sub>2</sub>	Any Age	< 50	mmHg
HCO <sub>3</sub> ARTERIAL / CAPILLARY	Any Age	<15	mmol/L

THERAPEUTIC DRUGS			
ANALYTE	AGE RANGE	CRITICAL VALUE	UNITS
ACETAMINOPHEN	Any Age	> 200	ug/mL
CARBAMAZEPINE	Any Age	> 12	ug/mL
DIGOXIN	Any Age	> 2.0	ng/mL
GENTAMYCIN	Any Age	Peak > 12.0	ug/mL
		Random > 12.0	ug/mL
		Trough > 2.0	ug/mL
LITHIUM	Any Age	> 1.5	mEq/L

PHENOBARBITAL	Any Age	> 40	ug/mL
PHENYTOIN	Any Age	> 25	ug/mL
SALICYLATE	Any Age	> 30	mg/dL
THEOPHYLLINE	Any Age	> 20	ug/mL
VALPROIC ACID	Any Age	> 150	ug/mL

<b>HEMATOLOGY – NON CANCER CENTER</b>			
<b>ANALYTE</b>	<b>AGE RANGE</b>	<b>CRITICAL VALUE</b>	<b>UNITS</b>
WHITE BLOOD CELL COUNT	> 2 Weeks	< 1.2 or > 30.0	X 10 <sup>3</sup> /uL
WHITE BLOOD CELL COUNT	< 2 Weeks	< 6.0 or > 30.0	X 10 <sup>3</sup> /uL
HEMOGLOBIN	Any Age	< 7.0 and >22.0	g/dL
HEMATOCRIT	>= 18	>60	%
	< 18	>70	%
	Any Age	<21	%
ABSOLUTE NEUTROPHIL #	Any Age	≤ 0.5	X 10 <sup>3</sup> /uL
PLATELET COUNT	Any Age	< 20,000 or > 750,000	/uL
RED BLOOD CELL COUNT	Any Age	> 6.5	X 10 <sup>6</sup> /uL
BLASTS	Any Age	Any blast seen	
PLATELETS AND SCHISTOCYTES	Any age	< 30,000 platelets in conjunction with 2+ or greater schistocytes must be called to a pathologist at first admission of the patient	
PARASITES	Any age	Any parasite seen	
ROM Plus	Any age	Positive	

<b>HEMATOLOGY – CANCER CENTER</b>			
<b>ANALYTE</b>	<b>AGE RANGE</b>	<b>CRITICAL VALUE</b>	<b>UNITS</b>
PLATELET COUNT	Any Age	< 10,000	/uL
IANC (INSTRUMENT ABSOLUTE COUNT)	Any Age	<0.5	X 10 <sup>6</sup> /uL
IANC (ABSOLUTE NEUTROPHIL COUNT)	Any Age	<0.6	X 10 <sup>6</sup> /uL
BLASTS	Any Age	Any blast seen	
PLATELETS AND SCHISTOCYTES	Any age	< 30,000 platelets in conjunction with 2+ or greater schistocytes must be called to a pathologist at first admission of the patient	
PARASITES	Any age	Any parasite seen	

<b>COAGULATION</b>			
<b>ANALYTE</b>	<b>AGE RANGE</b>	<b>CRITICAL VALUE</b>	<b>UNITS</b>
PROTHROMBIN TIME	Any Age	> 45.9 and INR >5.0	seconds
aPTT	Any Age	> 130	seconds
D-DIMER	Any Age	> 0.50	ug/mL
FIBRINOGEN	Any Age	< 70	mg/dL
Anti-Xa (UFH)	Any Age	1.09	IU/mL

<b>BLOOD BANK</b>			
<b>ANALYTE</b>	<b>AGE RANGE</b>	<b>CRITICAL VALUES</b>	<b>UNITS</b>
ANTIBODY SCREEN	Any Age	Any newly detected antibody. Passive Anti-D due to RhoGAM or NSC antibodies are not called	NA
DIRECT ANTIGLOBULIN	Any Age	All Positives	NA
FETAL SCREEN	Any Age	All Positives	NA
TRANSFUSION REACTION	Any Age	Any result found during a transfusion reaction workup that could indicate incompatibility	NA

<b>MICROBIOLOGY</b>			
<b>ANALYTE</b>	<b>AGE RANGE</b>	<b>CRITICAL VALUE</b>	<b>UNITS</b>
BLOOD CULTURE	Any Age	All Positives, including PCR result	
CSF CULTURE	Any Age	All Positives	
AFB CULTURE/STAINS	Any Age	All Positives	
GI Pathogen PCR	Any Age	Enteric Pathogens	
GROUP A STREP	Any Age	Non-throat Sites	
GRAM STAIN	Any Age	All Positive CSF / sterile body fluid	
C. DIFFICILE TOXIN	Any Age	All Positives	
OXACILLIN RESISTANT STAPHYLOCOCCUS AUREUS	Any Age	All Positives for Inpatients and Nursing Home Patients	
PATHOGENIC NEISSERIA SPECIES	Any Age	All Positives	
VANCOMYCIN RESISTANT ENTEROCOCCUS	Any Age	All Positives	
VANCOMYCIN RESISTANT STAPHYLOCOCCUS AUREUS	Any age	All Positives	

<b>MOLECULAR TESTING</b>			
<b>ANALYTE</b>	<b>AGE RANGE</b>	<b>CRITICAL VALUE</b>	<b>UNITS</b>
CHLAMYDIA TRACHOMONIS PCR	Any Age	All Positives	
NEISSERIA GONORRHOEA PCR	Any Age	All Positives	

<b>REFERENCE LABORATORY</b>			
<b>ANALYTE</b>	<b>AGE RANGE</b>	<b>CRITICAL VALUE</b>	<b>UNITS</b>
BORDETELLA PERTUSSIS	Any Age	Positive culture or PCR for DNA assay	
HEPATITIS IMMUNOASSAY	Any Age	Hepatitis B Surface Antigen (Confirmed Positive)	
		Hepatitis C Antibody Positive (Confirmed Positive)	
VARICELLA ZOSTER PCR	Any Age	All Positives	

RESULTS CALLED TO RRMCM BY  
REFERENCE LAB

Any Age

Any result that falls under the  
performing laboratory's Critical  
Call Result Policy.

Exceptions - Results from Lyme or other  
tick related disease testing