

CRITICAL TOLERANCE LIMITS					
CHEMISTRY			HEMATOLOGY / COAGULATION		
TEST	LESS THAN	GREATER THAN	TEST	LESS THAN	GREATER THAN
Alcohol, blood		300mg/dl (or.3%)	D-dimer		230 ng/ml
Ammonia		100µmol/l	Fibrinogen	100 mg/dl	
Bicarbonate	15 mmol/l	40 mmol/l	Hemoglobin	6.5 g/dl	20 g/dl
Bilirubin, total & neonate		15.0 mg/dl	Hematocrit	15%	60%
Calcium, adult & neonate	6.5 mg/dl	13.0 mg/dl	Platelets, Neonates	50,000 /µl	1 million/µl
Chloride	70 mmol/l	120 mmol/l	Platelets	25,000/µl	1 million/µl
Chloride, Neonate	90 mmol/l	120 mmol/l	WBC	2,000	25,000 (outpatient) 50,000 (inpatient)
CK-MB Ratio		5% - 1 st Pos. only	Absolute Neutrophils	1.0 / cumm 1000/µl	
CO ₂	11 mmol/l	40 mmol/l	INR		5.0
Creatinine*		7.00 mg/dl	aPTT		85.0 sec (non heparinized)
DBIL (neonate)		1.9 mg/dL	aPTT (heparin)		110.00 sec
Glucose	50 mg/dl	400 mg/dl	THERAPEUTIC DRUG MONITORING		
Glucose, Pediatric (31 days – 13 yrs)	40 mg/dl	140 mg/dl	Acetaminophen		150 ug/dl
Glucose, neonate	30 mg/dl	140 mg/dl	Carbamazepine		12 µg/ml
Glucose, CSF	37 mg/dl	300 mg/dl	Digoxin		2.2 ng/ml
Lactic acid		3.0 mmol/l	Gentamicin	Peak Trough	12.0 µg/ml 2.0 µg/ml
Magnesium, Adult & Neonate	0.5 mg/dl	3.0 mg/dl	Lithium		2.0 mmol/L
Phosphorous, ADULTS	1.0 mg/dl	> 8.0 mg/dl	Methotrexate		All values
Phosphorous, neonate	1.5 mg/dl	9.5 mg/dl	Phenobarbital		40 µg/ml
PCO ₂	20 MMHG	65 MMHG	Phenytoin (Dilantin)		30 µg/ml
pH	7.300	7.550	Salicylate		30 mg/dl
pH, neonate	7.250	7.550	Theophylline		20 ug/ml
pO ₂	55 MMHG		Tobramycin	Peak Trough	12 µg/ml 2 µg/ml
Potassium	3.0 mmol/l	5.9 mmol/l	Valproic Acid		200 µg/ml
Potassium, neonate	3.0 mmol/l	5.9 mmol/l	Vancomycin	Peak Trough	40 µg/ml 20 µg/ml
Sodium, adult & neonate	120 mmol/l	160 mmol/l	URINALYSIS		
Troponin*		≥ 0.3 ng/ml	Glucose, neonates		All Positives
Uric acid		13 mg/dl	MICROBIOLOGY		
All Positive Results for: (All Patients)					
Microorganism** in blood (one call per set)	Positive India Ink				
Microorganism** in CSF or other sterile body fluids gram stain and culture	Positive CSF Bacterial and/or Cryptococcus Antigen				
AFB smear positive (initial) and growth of AFB any site (initial)	Group A streptococci from wound or sterile body site				
SEND OUT: Ethylene Glycol – Call ALL results (positive and negative) to RN					


*first result critical called per admission

**Microorganism is defined as bacteria, parasite, fungi, mycobacterium or virus

Sterile Body Fluids: Pleural, peritoneal, joint, synovial, pericardial ascetic, amniotic, cul-de-sac and aspirates or drainages from sterile site

Revised April 2015

Guide to Meridian Laboratory Services

 4/28/15