Hennepin County Medical Center Laboratory

701 Park Ave., Mpls, MN 55415

 **HCMC Laboratory Critical Value List**

|  |  |
| --- | --- |
| Chemistry  | Inpatient and Ambulatory  |
|   | Low  | High  |
| Bilirubin(newborn)  |   | >15 mg/dL  |
| Calcium, Total  | <6.0 mg/dL  | > 14.0 mg/dL  |
| Carbon Dioxide (CO2)  | < 10 mEq/L  | >40 mEq/L  |
| Glucose  | < 45 mg/dL  | >500 mg/dL  |
| Ionized Ca  | <3.2 mg/dL  | >6.4 mg/dL  |
| Magnesium\*  | <0.7 mEq/L  | >4.4 mEq/L  |
| Phosphorous  | <1.2 mg/dL  | >10.0 mg/dL  |
| Potassium  | <3.0 mEq/L  | > 6.0 mEq/L  |
| Sodium  | <125 mEq/L  | > 160 mEq/L  |
| Acetaminophen  |   | >150 micro g/mL  |
| Salicylate  |   | >50 mg/dL  |
| IgA  | <15 mg/dL  |   |
| IgG  | <300 mg/dL  |   |
| Betahydroxybuterate  |   | >3 mmol/L  |
|   |   |   |
| \*Magnesium  |   |
|   | For labor and delivery – patients receiving magnesium sulfate Critical high - >8.5 mEq/L  |
|   | For patients on Normothermia/hypothermia protocol Critical high - >6.1 mEq/L  |

|  |  |
| --- | --- |
| Hematology  | Inpatient and Ambulatory  |
|   | Low  | High  |
|  Hemoglobin  | <7.0 g/dL  |  >20.0 g/dL for > 2 years of age  |
| Neutrophil (Absolute)  | <0.5 103/uL  |   |
| WBC  |   | >50.0 103/uL  |
| Platelets  | <40.0 103/uL  | >1000 103/uL  |
|  Fibrinogen  | <100 mg/dL  | >950 mg/dL  |
|  APTT  |   | >80.0 sec  |
| Anti-Xa for Unfractionated Heparin  |   | >0.80 IU/mL  |
|  Protime/ INR  |   | >5.0  |

|  |  |
| --- | --- |
|   | Inpatient and Ambulatory  |
| Toxicology  |   |   |
|   | Low  | High  |
| Amitriptyline + Nortriptyline (total)  |   | >500 ng/mL  |
| Caffeine  |   | >30 micro g/mL  |
| Carbamazepine / Tegretol  |   | >15 micro g/mL  |
| Chloramphenicol  |   | >30 micro g/mL  |
| Desipramine  |   | >500 ng/mL  |
| Digoxin  |   | >3.0 ng/mL  |
| Dilantin/Phenytoin total  |   | >30.0 micro g/mL  |
| Dilantin/Phenytoin free  |   | >3.0 micro g/mL  |
| Doxepin + Nordoxepin (total)  |   | >500 ng/mL  |
| Gentamicin  |   | >10 micro g/mL  |
| Imipramine + Desipramine(total)  |   | >500 ng/mL  |
| Lithium  |   | >1.5 mEq/L  |
| Phenobarbital  |   | >60 micro g/mL  |
| Theophylline  |   | >30 micro g/mL  |
| Tobramycin  |   | >10 micro g/mL  |
| Valproic Acid / Depakote  |   | >150 micro g/mL  |
| Vancomycin  |   | >65 micro g/mL  |

|  |  |  |
| --- | --- | --- |
|   | Inpatient  | Ambulatory  |
| Anatomic Pathology  | Frozen Sections and any unexpected diagnostic findings of immediate risk to the patient’s survival.  |

Microbiology

|  |
| --- |
| ***Positive Smears***  |
| Acid-fast stain  |
| Blood Culture (Gram stain of bottle)  |
| Gram stain suggestive of gas gangrene  |
| Malaria.  |
| Significant finding in an Operating room specimen  |
| Sterile body fluid including CSF  |
| ***Positive Cultures***  |
| AFB culture, excluding M. *gordonae.*  |
| Enteric pathogen.  |
| Groups A or B Streptococcus, any site, in a newborn (<5 months) or from labor & delivery  |
| Highly significant or unusual microorganism (e.g. B. *anthracis*, Y. *pestis*). Per Micro Director’s discretion  |
| Significant fungal isolate from a usually sterile body site.  |
| Sterile body fluid including CSF  |
| Vancomycine non-susceptible Staph *aureus* (VISA or VRSA)  |
| ***Positive Rapid Tests / Molecular Tests***  |
| Antigen test for Cryptococcus  |
| Bordetella pertussis  |
| Chlamydia and N. gonorrhoeae in pediatric patients  |
| Herpes virus in CSF  |
| Respiratory virus detected in an infant in the neonatal ICU.  |
| TB PCR  |