Hennepin County Medical Center Laboratory

701 Park Ave., Mpls, MN 55415

**HCMC Laboratory Critical Value List**

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| 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 | |

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| 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 |

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|  | 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 |

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

Microbiology

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| ***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 |