Alert Values List

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|  | CHEMISTRY |  | |
| TEST NAME | LOW ALERT | HIGH ALERT | |
| Ammonia | - | ≥80 µmol/L | |
| Amylase | - | ≥345 U/L | |
| BUN | - | ≥100 mg/dL | |
| Calcium | <6.0 mg/dL | >13.0 mg/dL | |
| Ca++(Ionized) | <3.2mg/dL | >6.2 mg/dL | |
| CK, total | - | ≥1000 U/L | |
| CKMB | - | ≥100 ng/mL | |
| CO2 | <10 meq/L | >40 meq/L | |
| Creatinine | - | ≥7.0 mg/dL | |
| Glucose | <40 mg/dl | >500 mg/dL | |
| Interleukin-6 (COVID) | - | ≥36.0 pg/mL | |
| Lactic Acid | - | ≥4.0 mmol/L | |
| Lipase | - | ≥1179 U/L | |
| Magnesium | <1.0 mg/dl | >5.0 mg/dL | |
| NT-pro BNP | - | ≥10,000 pg/mL | |
| Osmolality (serum) | <250 mosm/kg | >325 mosm/kg | |
| Phosphorus | <0.9 mg/dL | - | |
| Potassium | ≤2.5 meq/L | ≥6.0 meq/L | |
| Sodium | <120 meq/L | >160 meq/L | |
| Tacrolimus | - | >25.0 ng/ml | |
| Troponin I, High Sensitivity | - | Male >78.5 pg/ml | Female >53.7 pg/ml |
| Troponin I, High Sensitivity 1 or 3 hour | - | 3 times previous value | |
| Uric Acid | - | ≥13 mg/dL | |

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| HYPOGLYCEMIC PROTOCOL | LOW CALL | HIGH CALL |
| Glucose Inpatient | <70 mg/dL | - |
| Glucose Outpatient/ED | <50 mg/dL | - |

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| NEONATAL | LOW ALERT | HIGH ALERT |
| Bilirubin (0-13 days) | - | ≥16 mg/dL |
| Glucose | <45 mg/dL | >150 mg/dL |
| Potassium | <3.1 meq/L | >6.4 meq/L |

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| THERAPEUTIC DRUGS |  | Therapeutic Range | HIGH ALERT |
| Acetaminophen |  | 10-30 µg/mL | ≥50 µg/mL |
| Carbamazepine |  | 4-12 µg/mL | ≥20 µg/mL |
| Digoxin |  | 0.9-2.0 ng/mL | ≥2.5 ng/mL |
| Gentamicin | Peak | 5-10 µg/mL | ≥12 µg/mL |
| Trough | <2 µg/mL | ≥2 µg/mL |
| Random | - | ≥12 µg/mL |
| Lithium |  | 0.5-1.5 meq/L |  |
| Phenobarbital |  | 15-40 µg/mL |
| Phenytoin |  | 10-20 µg/mL |
| Salicylate |  | 2.8-20.0 mg/dL | ≥30 mg/dL |
| Theophylline |  | 10-20 µg/mL | ≥25 µg/mL |
| Tobramycin | Peak | 5-10 µg/mL | ≥12 µg/mL |
| Trough | <2 µg/mL | ≥2 µg/mL |
| Random | - | ≥12 µg/mL |
| Valproic Acid |  | 50-100 µg/mL | ≥200 µg/mL |
| Vancomycin | Peak | 30-40 µg/mL | ≥40 µg/mL |
| Trough | 10-20 µg/mL | ≥30 µg/mL |
| Random | - | ≥40 µg/mL |

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|  | HEMATOLOGY | |
| TEST NAME | LOW ALERT | HIGH ALERT |
| Hemoglobin | Inpatient: <7.0 g/dL Outpatient: <8.0 g/dL | >20.0 g/dL |
| Patient age 0-14 days: | >22 g/dl |
| Any decrease of 3 g/dL or more within 48 hrs not post-op | |
| Hematocrit | <21% | >60% |
|  | Patient age 0-14 days: | >66% |
| Platelet | Inpatient: <30 10\*3/µL Outpatient: <50 10\*3/µL | >1,000 10\*3/µL |
| WBC | <0.5 10\*3/µL | >100 10\*3/µL |
| Blasts | - | >0 % |
| Intracellular Bacteria or Yeast |  |  |
| PT | - | ≥43.5 sec |
| INR | - | >3.9 |
| PTT | - | >100 sec |
| Fibrinogen | <60 mg/dL | >800 mg/dL |
| Heparin (Unfractionated Assay) |  | >0.7 U/mL |
| Heparin (LMW) | >1.1 U/mL |
| CSF (WBC) age 0 up to 2 years | >30 /µL |
| CSF (WBC) age 2 years - adult | - | >5 /µL |

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| MICROBIOLOGY | |
| Critical-risk alert values that are called immediately: | |
| TEST | CRITICAL VALUE |
| AFB (TB) | Positve direct smear |
| AFB (TB) | All cultured isolates |
| Blood culture | Gram stain and BCID2 Biofire panel results on positive blood cultures. |
| *Candida auris* | Any isolate |
| CSF | Positive gram stain |
| CSF | All cultured isolates |
| CSF cryptococcal antigen | Positive result |
| CSF Meningitis/Encephalitis Panel, PCR | Any positive  Panel includes: |
|  | * Enterovirus * *Escherichia coli* K1 * *Cryptococcus neoformans/gattii* * Cytomegalovirus (CMV) * *Haemophilus influenzae* * Herpes Simplex Virus 1 (HSV1) * Herpes Simplex Virus 2 (HSV2) * Human Herpesvirus 6 (HHV6) * Human Parechovirus * *Listeria monocytogenes* * *Neisseria meningitidis* * *Streptococcus agalactiae* * *Steptococcus pneumoniae* * Varicella zoster virus (VZV) |
| Eye culture obtained by invasive procedure | Any isolate |
| Group A Strep | Positive blood culture or positive sterile body sites |
| Multi-drug resistant organisms (ESBL, KPC, MRSA, VRE) | Any isolate from inpatients, long-term care patients, or home-care patients |
| Sterile Body Sites & Fluids | Positive gram stain and/or any cultured isolates |
| Group B strep | Isolates from newborns < 2 months |

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| MICROBIOLOGY | |
| Significant-risk alert values that are called within 24 hours: | |
| TEST | ALERT VALUE |
| *Clostridium difficile* toxin | Positive |
| GI Panel, PCR | Any positive for:   * *Campylobacter* * *Clostridium difficile* * *Entamoeba histolytica* * *E. coli* O157 or Shiga-like toxin-producing * Norovirus * Rotavirus * *Salmonella* * *Shigella/Enteroinvasive* *E. coli* * *Vibrio* * *Yersinia enterocolitica* |
| Stool culture with pathogenic isolates | *Salmonella*  *Shigella*  *E. coli O157 or Shiga-like toxin-producing*  *Yersinia* |
| Norovirus | Positive |
| Respiratory Panel, PCR | Any positive for:   * *Bordetella pertussis* * *Chlamydophila pneumoniae* * *Mycoplasma pneumoniae* |
| Rotavirus | Positive |