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)
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| 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*
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| Rotavirus  | Positive  |