***Physician Critical Values***

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| **Test** | **Low** | **High** |
| Acetaminophen, Serum |  | >50 mcg/mL |
| Acetone, Serum |  | 100 mg/dL |
| Amylase, Plasma |  | >2,000 Units/L\* |
| Anion Gap, Calculated |  | >25 mmol/L |
| Anti Factor XA, Plasma  Low molecular weight heparin (LMWH) |  | >2.0 IUnits/mL |
| Blood Gas, Arterial, Blood CO2 content (calculated) pCO2  pH  pO2 | <10 mmol/L  <8 mm Hg  <7.20  <40 mm Hg | >45 mmol/L  >75 mm Hg  >7.60 |
| Blood Gas, Venous, Blood CO2 content (calculated) pCO2  pH  pO2 | <10 mmol/L  <8 mm Hg  <7.20  <20 mm Hg | >45 mmol/L  >75 mm Hg  >7.60 |
| Calcium, Ionized, Blood | <3.2 mg/dL | >7.0 mg/dL |
| Calcium, Ionized, Plasma | <3.2 mg/dL | >7.0 mg/dL |
| Calcium, Total, Plasma | <6.5 mg/dL | >14.0 mg/dL |
| Carbamazepine (Tegretol®), Plasma |  | >13 mcg/mL |
| Chloride, Blood | <75 mmol/L | >130 mmol/L |
| Chloride, Plasma | <75 mmol/L | >130 mmol/L |
| CO2, Total, Plasma | <10 mmol/L | >45 mmol/L |
| Complete Blood Count (CBC), Blood  Absolute Neutrophil  Hemoglobin  Inpatients  Outpatients  Platelets  Inpatients  Outpatients  White Blood Cell (WBC) Count  Inpatients  Outpatients | <0.5 K/cumm  <6.8 g/dL  <6.8 g/dL  <20 K/cumm  <50 K/cumm  <1.0 K/cumm  <1.0 K/cumm | >20.0 g/dl  >20.0 g/dl  >1,000,000 K/cumm  >1,000,000 K/cumm    >50.0 K/cumm |
| Complete Blood Count (CBC), Express  Hemoglobin  Inpatients  Outpatients  Platelets  Inpatients  Outpatients  White Blood Cell (WBC) Count  Inpatients  Outpatients | <6.8 g/dL  <6.8 g/dL  <20 K/cumm  <50 K/cumm  <1.0 K/cumm  <1.0 K/cumm | >20.0 g/dl  >20.0 g/dl  >1,000,000 K/cumm  >1,000,000 K/cumm  >50.0 K/cumm |
| Creatine Kinase (CK), Total, Plasma |  | >10,000 Units/L\* |

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| **Test** | **Low** | **High** |
| Creatine Kinase MB (CK-MB) Profile, Plasma  CK-MB  CK, Total |  | >8 ng/mL\*  >10,000 Units/L\* |
| Culture, Routine, Blood |  | Initial positive culture per admission |
| Digoxin, Plasma |  | >2.4 ng/mL |
| Electrolyte Panel, Blood  CO2 content (calculated) | <10.0 mmol/L | >45 mmol |
| Ethanol, Serum |  | >300 mg/dL |
| Ethylene Glycol, Serum |  | Any detectable amount  (level of detection is >4 mg/dL) |
| Fibrinogen, Plasma | <100 mg/dL |  |
| Gentamicin, Peak, Plasma |  | >21 mcg/mL |
| Gentamicin, Random, Plasma |  | >21 mcg/mL |
| Gentamicin, Trough, Plasma |  | >2.1 mcg/mL |
| Glucose, Blood | <50 mg/dL | >450 mg/dL |
| Glucose, Cerebrospinal Fluid (CSF) | <20 mg/dL |  |
| Glucose, Plasma | <50 mg/dL | >450 mg/dL |
| Glutethimide (Doriden®), Serum |  | >10 mg/L |
| Hemoglobin Saturation Battery, Arterial, Blood  Carboxyhemoglobin  Hemoglobin, total  Methemoglobin  Oxyhemoglobin | <4.0 g/dL  <70% | >20%  >5.0% |
| Hemoglobin Saturation Battery, Venous, Blood  Carboxyhemoglobin  Hemoglobin, total  Methemoglobin  Oxyhemoglobin | <4.0 g/dL  <70% | >20%  >5.0% |
| Ketones, Semi-Quantitative, Plasma |  | >1:128 |
| Lactic Acid, Plasma |  | >4.0 mmol/L |
| Lactic Acid, Whole Blood |  | >4.0 mmol/L |
| Lidocaine, Serum |  | >6.0 mcg/mL |
| Lipase, Plasma |  | >600 Units/L\* |
| Lithium, Serum |  | >1.5 mmol/L |
| Magnesium, Plasma  Non-labor and delivery patients  Labor and delivery patients | <0.7 mg/dL  <0.7 mg/dL | >4.8 mg/dL  >7.3 mg/dL |
| Methotrexate, Plasma |  | >5.0 mcmol/L |
| Morphologic Examination, Blood |  | Presence of blasts  (not previously reported) |
| Myoglobin, Urine |  | >5,000 ng/mL |

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| **Test** | **Low** | **High** |
| Osmolality, Serum | <260 mOsm/kg | >330 mOsm/kg |
| Partial Thromboplastin Time (PTT), 50:50 Mix, Plasma |  | >150 seconds |
| Partial Thromboplastin Time (PTT), Plasma |  | >150 seconds |
| Phenobarbital, Plasma |  | >60 mcg/mL |
| Phenytoin, Total, Plasma |  | >30 mcg/mL |
| Potassium, Blood | <2.5 mmol/L | >6.2 mmol/L |
| Potassium, Plasma | <2.5 mmol/L | >6.2 mmol/L |
| Protein, Cerebrospinal Fluid (CSF) |  | >200 mg/dL |
| Prothrombin Time (PT), 50:50 Mix, Plasma |  | >5.0 INR straight and 50:50 |
| Prothrombin Time (PT), Plasma  INR |  | >5.0 INR |
| Reducing Substances, Urine  Pediatric |  | Any positive |
| Salicylate, Serum |  | >20 mg/dL |
| Sodium, Blood | <120 mmol/L | >160 mmol/L |
| Sodium, Plasma | <120 mmol/L | >160 mmol/L |
| Theophylline, Plasma |  | >25 mcg/mL |
| Thrombin Time, Plasma |  | >30 seconds on correction |
| Tobramycin, Peak, Plasma |  | >21 mcg/mL |
| Tobramycin, Random, Plasma |  | >21 mcg/mL |
| Tobramycin, Trough, Plasma |  | >2.1 mcg/mL |
| Troponin I, Plasma |  | >0.25 ng/mL\* |
| Valproic Acid, Plasma |  | >200 mcg/mL |
| Vancomycin, Peak, Plasma |  | >50.0 mcg/mL |
| Vancomycin, Random, Plasma |  | >21.0 mcg/mL |
| Vancomycin, Trough, Plasma |  | >21.0 mcg/mL |
| \***Note:** Initial alert value is called. Subsequent values within 48 hours are not called but these values will be modified with comment “Previous Alert Value noted and called to Patient Care Area”. | | |