

### Call-Back Critical Level Values

When a critical value is obtained from a patient specimen, the result will be telephoned to the physician. If a result is obtained after regular office hours, the physician's answering service will be notified and the physician on call will be paged. If the physician cannot be reached, a message will be left on the physician's answering machine and a follow up call from the lab will be made to the physician at 9 a.m. the following day.

The written test report will have the critical value result flagged.

This listing is for tests performed at Saint Luke's Regional Laboratories.

| CHEMISTRY (Serum/Plasma/Whole Blood) |            |             |
|--------------------------------------|------------|-------------|
| Calcium, Ionized                     | <3.0 mg/dL | >7.0 mg/dL  |
| Calcium                              | <6.0 mg/dL | ≥13.0 mg/dL |
| Carbon Dioxide                       |            |             |
| Neonates*                            | ≤15 mEq/L  | >45 mEq/L   |
| All others                           | <10 mEq/L  | >45 mEq/L   |
| Potassium                            |            |             |
| Neonates*                            | <3.0 mEq/L | >7.0 mEq/L  |
| All others                           | <2.7 mEq/L | >6.0 mEq/L  |
| Sodium                               |            |             |
| Neonates*                            | ≤125 mEq/L | ≥150 mEq/L  |
| All others                           | <120 mEq/L | >160 mEq/L  |
| Glucose                              |            |             |
| Neonates*                            | <30 mg/dL  | >300 mg/dL  |
| All others                           | <40 mg/dL  | >500 mg/dL  |
| Phosphorus                           |            |             |
| Neonates 0-3 months                  | ≤4.0 mg/dL |             |
| All others                           | <1.0 mg/dL |             |
| Neonatal* Bilirubin                  |            | >20 mg/dL   |
| Magnesium                            | <1.2 mg/dL | ≥9 mg/dL    |
| Lactate                              |            | ≥ 4 mmol/L  |

| BLOOD GASES                     |           |            |
|---------------------------------|-----------|------------|
| PCO <sub>2</sub> (arterial)     | <20 mm Hg | >70 mm Hg  |
| PO <sub>2</sub> (arterial only) | <40 mm Hg |            |
| pH (arterial and venous)        | <7.21     | >7.59      |
| Lactate (arterial and venous)   |           | ≥ 4 mmol/L |

| THERAPEUTIC DRUGS |             |
|-------------------|-------------|
| Digoxin           | >3.0 ng/mL  |
| Gentamicin        |             |
| Peak              | >12.0 µg/mL |
| Trough            | >4.0 µg/mL  |
| Lithium           | >2.00 mEq/L |
| Phenytoin, Total  | >30.0 µg/mL |
| Salicylate        | ≥30 mg/dL   |
| Theophylline      | >20.0 µg/mL |
| Tobramycin        |             |
| Peak              | >12.0 µg/mL |
| Trough            | >2.5 µg/mL  |
| Vancomycin        |             |
| Peak              | >40 µg/mL   |
| Trough            | >30 µg/mL   |
| Methotrexate      | >10 µmol/L  |

| HEMATOLOGY         |               |                  |
|--------------------|---------------|------------------|
| Hematocrit         |               |                  |
| Obstetric          | <20%          |                  |
| Neonates*          |               | >70%             |
| All others         | <18%          | >60%             |
| Hemoglobin         |               |                  |
| Obstetric          | <7.5 g/dL     |                  |
| All others         | <6.0 g/dL     |                  |
| Platelet Count     |               |                  |
| Neonates*          | <60,000 TH/µL |                  |
| All others         | <20,000 TH/µL | >1,000,000 TH/µL |
| WBC Count, Blood   | <1.0 TH/µL    |                  |
| (first diagnosis)  |               | >50.0 TH/µL      |
| (leukemia patient) |               | >100.0 TH/µL     |

| COAGULATION                                      |                 |
|--|-----------------|
| Prothrombin Time (PT)                            | INR ≥ 5.0       |
| Activated Partial Thromboplastin Time (APTT)     | >130 seconds    |
| Fibrinogen                                       | <70 mg/dL       |
| Heparin Anti- Factor Xa (Unfractionated Heparin) | ≥1.1 IU/mL      |
| Direct Thrombin Inhibitors                       | >90 PTT seconds |

| MICROBIOLOGY  |
|---|
| Culture, Blood ( <i>Bacterial, Acid Fast and Fungal</i> ) – organism identification from liquid culture media bottle                    |
| Culture, Spinal Fluid - positive Gram stain or growth on culture  |
| Culture, Sterile Body Fluid ( <i>Peritoneal, Synovial, Pericardial, Pleural, Bone Marrow</i> )-positive Gram stain or growth on culture |
| Malaria – positive/detected   |

| Molecular Diagnostics                            |
|--|
| HSV PCR, Spinal Fluid (new diagnosis) - positive |

\*Neonates: 0-12 months