

| Test | CRITICAL VALUES | | | |
|--|--|----------------|-------------------------------|----------------|
| | Results (Adult) (>18 years) | | Results in Peads (<=18 years) | |
| | Low Limit (≤) | High Limit (≥) | Low Limit (≤) | High Limit (≥) |
| Chemistry and Immunology | | | | |
| Amylase (U/L) | 1000 | | - | |
| Ammonia (ummol/L) | - | - | - | 100 |
| Creatinine (ummol/L) | - | 600 | - | 330 |
| Corrected Calcium (mmol/L) | 1.6 | 3 | - | - |
| Calcium (mmol/L) | 1.6 (No haemolysis/red cell leakage) | 3 | 1.7 | 3.1 |
| CK-MB | Any Value | | | |
| Creatinine Kinase (U/L) | - | 5000 | - | |
| CSF Protein (g/L) | | | - | 1.87 |
| Glucose (mmol/L) | 2.8 (No haemolysis/Red cell leakage) | 20 | 1.6 (CSF Sample ONLY) | - |
| HCO ₃ (mmol/L) | 15 | | - | |
| Lithium (mmol/L) | - | 1.5 | - | - |
| Lactate (mmol/L) | - | 5.0 | - | 3.0 |
| Blood Gas - ph | 7.20 | 7.55 | - | 7.60 |
| Blood Gas - pO2 (mmHg) | 59 | - | 44 | 122 |
| Blood Gas - pCO2 (mmHg) | - | 70 | 20 | 68 |
| K (mmol/L) | 2.5 | 6 | 2.8 | 6.0 |
| Magnesium (mmol/L) | 0.41 | 2.0 | 0.5 | 1.8 |
| Na (mmol/L) | 120 | >150 | 125 | 155.0 |
| Bilirubin-total (µmol/L) | 300 | | 428 | |
| Troponin T | Positive | | - | - |
| High Sensitive Troponin I | Positive | | - | - |
| High Sensitive Troponin T | Positive | | - | - |
| Total HCG | Ectopic or falling level during pregnancy | | | |
| TSH (Neonates) (mIU/L) | - | - | - | 20.0 |
| Procalcitonin | Positive | | | |
| Microbiology | | | | |
| Blood Culture | Positive Gram stain and preliminary culture ID & Sensitivity | | | |
| Cerebrospinal fluid FEME, India ink & Culture | Microscopy result (Abnormal) and Positive preliminary culture ID & Sensitivity | | | |
| Cerebrospinal fluid antigen detection (Cryptococcal or Bacterial Ag) | Positive | | | |
| Sterile body fluids | Positive Microscopy result and preliminary culture ID & Sensitivity | | | |
| Any type culture* / ALERT organism | ESBLs producer organism, MRSA, Multi-Resistant Organism (MRO), CPO, CRE, VRE | | | |
| | Any significant pathogens isolated* (Refer to SOP) | | | |
| TB smear & culture | Positive smear result or/and culture | | | |
| Eye | Positive Gram stain and preliminary culture ID & Sensitivity | | | |
| Nasal and Pernal | <i>Corynebacterium diphtheria</i> , <i>Bordetella pertussis</i> | | | |
| Antigen detection | Positive Clostridium difficile, Rotavirus, Norovirus | | | |
| Stool Occult Blood | Positive | | | |
| M2PK | Positive | | | |
| Invasive Candidiasis | Positive | | | |

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| Haematology | | | | |
| Haemoglobin (g/L) | 60 | 190 | 70 (1 month and above) 80 (Neonate 0-29 days) | 190 (1 month and above) 220 (Neonate 0-29 days) |
| White Blood Cell Count (10 ⁹ L) | 2.0 | 40.0 | 2.0 | 50.0 |
| Platelets (10 ⁹ L) | 20 *exclude platelet clumping | 1000 | 50 *exclude platelet clumping | 1000 |
| PT | - | 30 sec (2.5 x upper reference interval) | - | - |
| INR | - | 5 | - | 5 |
| APTT | - | 60 sec (2 x upper reference interval) | - | - |
| Fibrinogen (g/L) | 1 | - | 1 | - |
| Referral | | | | |
| Paracetamol | Toxic : > 2.0 mmol/L at 4h | | | |
| | Toxic : > 0.3 mmol/L at 12h | | | |
| Salicylate | Toxic : > 2.17 mmol/L | | | |
| | Lethal : > 4.25 mmol/L | | | |
| Cytology / Histology | | | | |
| Anatomic Pathology | Refer to Critical Results Notification in Anatomical Pathology available in OMNI | | | |