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| --- | --- | --- |
| **Initial Laboratory Investigations (Units)** | **Reference Range** | **Patient Values** |
| **COMPLETE BLOOD PICTURE** |  |  |
| Haemoglobin (g/dL) | 13.7 - 17.5 | **12.7 (L)** |
| Haematocrit (%) | 40.1 - 51.0 | **38.2 (L)** |
| Platelets ( /mm3) | 150,000 – 450,000 | 170,000 |
| WBCs ( /mm3) | 3,400 – 11,200 | 3,880 |
| **INFLAMMATORY MARKERS** |  |  |
| Erythrocyte Sedimentation Rate (ESR) (mm/hr) | 0 - 20 | **124 (H)** |
| **RENAL FUNCTION TESTS & ELECTROLYTES** |  |  |
| Urea (mg/dL) | 6 - 20 | **57 (H)** |
| Creatinine (mg/dL) | 0.67 - 1.17 | **3.53 (H)** |
| Sodium (mmol/L) | 136 - 145 | 138 |
| Potassium (mmol/L) | 3.5 - 5.1 | 4.7 |
| Chloride (mmol/L) | 98 - 107 | 106 |
| Bicarbonate (mmol/L) | 22 - 29 | 26 |
| Calcium (mmol/L) | 8.6 - 10.0 | 8.6 |
| **LIVER FUNCTION TESTS** |  |  |
| Total Protein (g/dL) | 6.6 - 8.7 | **4.0 (L)** |
| Albumin (g/dL) | 3.5 - 5.2 | **< 1.0 (L)** |
| Globulin (g/dL) | 1.5 - 5.2 | 2.7 |
| Total Bilirubin (mg/dL) | <= 1.2 | < 0.2 |
| Aspartate Transaminase (AST) (U/L) | 10 – 50 | **1768 (H)** |
| Alanine Transaminase (ALT) (U/L) | 10 – 50 | **576 (H)** |
| Alkaline Phosphatase (ALP) (U/L) | 40 – 129 | 122 |
| **THYROID FUNCTION TESTS** |  |  |
| TSH (µIU/mL) | 0.3 - 4.2 | **5.8 (H)** |
| Free T4 (ng/dL) | 0.93 - 1.70 | **0.88 (L)** |
| **OTHER ENZYMES** |  |  |
| Creatine Kinase (CK), Total (IU/L) | <=190 | **> 22,000 (H)** |

**Table 1:** Initial Laboratory Investigations. **(H)** – High;  **(L)** – Low