**Haematology**

| **Age Group** | **WBC x** 10(9)/L | **Hb (g/dL)** | **Haematocrit (%)** | **Platelets x** 10(9)/L |
| --- | --- | --- | --- | --- |
| 0 mins - 2 days | 10 – 26 | 14 – 22 | 45 – 75 | 140 – 440 |
| 3 days - 30 days | 7 – 23 | 15 – 21 | 45 – 67 |
| 1 - 3 month | 5 – 19 | 11.5 – 16.5 | 33 – 53 |
| 3 month - 1 year | 6 – 18 | 11.1 – 14.1 | 30 – 40 |
| 1 years - 2 years | 6 – 16 | 11.1 – 14.1 | 30 – 38 |
| 2 years - 7 years | 5.22 – 13.35 | 11.4 – 14.2 | 32.8 – 41.1 |
| 7 years – 12 years | 5.26 – 12.25 | 11.7 – 14.6 | 34.5 – 42.2 |

**Coagulation tests**

| **Age Group** | **Prothrombin time (PT) (secs)** | **APTT**  **(secs)** | **Fibrinogen**  **(g/L)** |
| --- | --- | --- | --- |
| 0 mins - 2 days | 14.4 - 16.4 | 34.3 - 44.8 | 1.92 - 3.74 |
| 3 days - 30 days | 13.5 - 16.4 | 29.5 - 42.2 | 2.83 - 4.01 |
| 31 days - 11 month | 11.5 - 15.3 | 35.1 - 46.3 | 0.82 - 3.83 |
| 1 years - 5 years | 12.1 - 14.5 | 33.6 - 43.8 | 1.62 - 4.01 |
| 6 years - 10 years | 11.7 - 15.1 | 31.8 - 43.7 | 1.99 - 4.09 |
| 11 years - 16 years | 12.7 - 16.1 | 33.9 - 46.1 | 2.12 - 4.33 |
| 17 years and above | 11.6 - 14.2 | 29.7 - 45.6 | 2.06 - 4.92 |

Recommended INR range for oral anticoagulation (warfarin): 2.0 - 3.5

**Biochemistry**

| **Age Group** | **Sodium (mmol/L)** | **Potassium (mmol/L)** | **Bicarbonate (mmol/L)** | **Chloride (mmol/L)** | **Calcium, total (mmol/L)** | **Calcium, ionized (mmol/L)** |
| --- | --- | --- | --- | --- | --- | --- |
| <1 month | 133 – 146 | 3.7 – 5.9 | 13.5 – 22.1 | 98 – 113 | 2.13 – 2.75 | 1.15 – 1.33 |
| 1 to 11 month | 139 – 146 | 4.1 – 5.3 | 98 – 107 |
| 1 to 13 years | 138 – 145 | 3.4 – 4.7 | 13.7 – 24.6 | 2.30 – 2.63 |
| Above 13 years | 136 – 145 | 3.5 – 5.1 | 14.8 – 24.6 |

| **Age Group** | **Phosphate (mmol/L)** | **Magnesium (mmol/L)** |
| --- | --- | --- |
| < 15 days | 1.8 – 3.4 | 0.82 – 1.62 |
| 15 days to 11 month | 1.6 – 2.7 | 0.81 – 1.27 |
| 1 to 4 years | 1.4 – 2.2 | 0.86 – 1.17 |
| 5 to 12 years | 1.3 – 1.9 |
| 13 – 15 years | 1. – 1.8 (female) / 2.0 1.1 – 2.0 (male) |
| 15 – 18 years | 0.9 – 1.6 |

**Renal function**

| **Age group** | **Creatinine (µmol/L)** |
| --- | --- |
| < 15 days | 29 - 82 |
| 15 days to <2 years | 9 - 32 |
| 2 to <5 years | 18 – 38 |
| 5 to <12 years | 27 – 54 |
| 12 to <15 years | 40 - 72 |
| 15 to <19 years | 43 – 74 (female) / 55 – 96 (male) |

| **Age group** | **Urea (mmol/L)** |
| --- | --- |
| < 15th day | 1.0 – 8.2 |
| 15th day - 11th month | 1.2 – 6.0 |
| 1 - 9 year | 3.2 – 7.9 |
| 10 - 18year | 2.6 – 6.8 (female) / 2.6 – 7.5 (male) |
| > 18th years | 2.4 – 7.0 |

Lactate: 0.5 - 2.2 mmol/L

C-reactive protein: 0-5.0 mg/L

Serum osmolality: 275 - 300 mOSM/kg

Urine osmolality: 50-1200 mOSM/kg

| **Procalcitonin (ug/L)** | |
| --- | --- |
| <0.50 | low risk of severe systemic infection (sepsis) but cannot exclude any infection |
| 0.50 – 2.00 | may require repeat testing in 6 to 24hrs if sepsis is clinically suspected |
| 2.00 - <10.00 | high risk of sepsis or progression in sepsis |
| >=10.00 | high likelihood of severe sepsis |