

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				
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	1.0 – 1.8 (female) 2.0 1.1 – 2.0 (male)	
15 – 18 years	0.9 – 1.6	

Renal function

Age group	Creatinine ($\mu\text{mol/L}$)
< 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