

NORMAL HAEMATOLOGICAL VALUES

(Expressed as Mean \pm 2 SD (95% Range))

Red-cell count		
Men	$5.5 \pm 1.0 \times 10^{12}/l$	5.5 ± 1.0 millions/mm ³
Women	$4.8 \pm 1.0 \times 10^{12}/l$	4.8 ± 1.0 millions/mm ³
Infants (full-term, cord blood)	$5.0 \pm 1.0 \times 10^{12}/l$	5.0 ± 1.0 millions/mm ³
Children, 3 months	$4.0 \pm 0.8 \times 10^{12}/l$	4.0 ± 0.8 millions/mm ³
Children, 1 y	$4.4 \pm 0.8 \times 10^{12}/l$	4.4 ± 0.8 millions/mm ³
Children, 3-6 y	$4.8 \pm 0.7 \times 10^{12}/l$	4.8 ± 0.7 millions/mm ³
Children, 10-12 y	$4.7 \pm 0.7 \times 10^{12}/l$	4.7 ± 0.7 millions/mm ³
Haemoglobin		
Men	155 ± 25 g/l	15.5 ± 2.5 g/dl
Women	140 ± 25 g/l	14.0 ± 2.5 g/dl
Infants (full-term, cord blood)	165 ± 30 g/l	16.5 ± 3.0 g/dl
Children, 3 months	115 ± 20 g/l	11.5 ± 2.0 g/dl
Children, 1 y	120 ± 15 g/l	12.0 ± 1.5 g/dl
Children, 3-6 y	130 ± 10 g/l	13.0 ± 1.0 g/dl
Children, 10-12 y	130 ± 15 g/l	13.0 ± 1.5 g/dl
Packed cell volume (PCV; haematocrit value)		
Men	0.47 ± 0.07 (1/1)	47 ± 07 %
Women	0.42 ± 0.05 (1/1)	42 ± 05 %
Infants (full-term, cord blood)	0.54 ± 0.10 (1/1)	54 ± 10 %
Children, 3 months	0.38 ± 0.06 (1/1)	38 ± 06 %
Children, 3-6 y	0.40 ± 0.04 (1/1)	40 ± 04 %
Children 10-12 y	0.41 ± 0.04 (1/1)	41 ± 04 %
Mean cell volume (MCV)		
Adults	86 ± 10 fl	
Infants (full-term, cord blood)	106 fl (mean)	
Children, 3 months	95 fl (mean)	
Children, 1 y	78 ± 8 fl	
Children, 3-6 y	81 ± 8 fl	
Children, 10-12 y	84 ± 7 fl	
Mean cell haemoglobin (MCH)		
Adults	29.5 ± 2.5 pg	
Children, 3 months	29 ± 5 pg	
Children, 1 y	27 ± 4 pg	
Children, 3-6 y	27 ± 3 pg	
Children, 10-12 y	27 ± 3 pg	
Mean cell haemoglobin concentration (MCHC)		
Adults and children	325 ± 25 g/l	32.5 ± 2.5 g/dl

Coagulation time (Lee and White's method, 37°C)	5-11 min
Prothrombin time (brain-thromboplastin time)	
I-stage (Quick)	10-14 s
Partial thromboplastin time (PTTK)	35-43 s
Prothrombin-consumption index	0-30%
Plasma fibrinogen	2.0-4.0 g/l
Osmotic fragility (at 20°C and pH 7.4)	
NaCl (g/l)	Before incubation % lysis After incubation for 24 h at 37°C % lysis
2.0	100 95-100
3.0	97-100 85-100
3.5	90-99 75-100
4.0	50-95 65-100
4.5	5-45 55-95
5.0	0-6 40-85
5.5	0 15-70
6.0	0 0-40
6.5	0 0-10
7.0	0 0-5
7.5	0 0
8.0	0 0
8.5	0 0
Median corpuscular fragility (MCF) (g/l NaCl)	4.0-4.45 4.65-5.9
Autohaemolysis (37°C)	
48 h, without added glucose	0.2-4.0%
48 h, with added glucose	0-0.5%
Cold-agglutinin titre (4°C)	<64
Serum iron	13-32 µmol/l (0.7-1.8 mg/l)
Total iron-binding capacity	45-70 µmol/l (2.5-4.0 mg/l)
Transferrin	1.2-2.0 g/l
Serum vitamin B ₁₂ (as cyanocobalamin)	160-925 ng/l
Serum folate	3-20 mcg/l
Red-cell folate	160-640 mcg/l
Plasma haemoglobin	10-40 mg/l
Serum haptoglobin (Hb-binding)	0.3-2.0 g/l
Sedimentation rate (Westergren, 1 h) (at 20±3°C)	
Men	17-50 y 1-7 mm
> 50 y	2-10 mm
Women	17-50 y 3-9 mm
> 50 y	5-15 mm
Plasma viscosity (at 25°C)	1.61 ± 0.05 cP
Heterophile (anti-sheep red-cell) agglutinin titre	<80
After absorption with guinea-pig kidney	<10