

FBC Reference Ranges: Adult and Paediatric

Q-Pulse Number: HAE-IS-1210-NWL

Version: 1.0

REFERENCE RANGES FOR HAEMATOLOGICAL VARIABLES IN ADULTS

Adults	MALES(n=100)	FEMALES(n=100)
WBC (x10 ⁹ /L)	4.2-10.6	4.2-11.2
RBC (x10 ¹² /L)	4.23- 5.46	3.73-4.96
HB(g/L)	130-168	114-150
PCV (Ratio)	0.390-0.500	0.350-0.450
MCV (fl)	83.5-99.5	83.5-99.5
MCH (pg)	27.5-33.1	27.5-33.1
MCHC (g/L)	315-350	315-350
RDW	10.0-16.0	10.0-15.9
PLATELETS x(10 ⁹ /L)	130-370	135-400
NEUTS (x10 ⁹ /L)	2.0-7.1	2.0-7.1
LYMPHS (x10 ⁹ /L)	1.1-3.6	1.1-3.6
MONOs (x10 ⁹ /L)	0.3-0.9	0.3-0.9
EOSINs (x10 ⁹ /L)	0.0-0.5	0.0-0.5
BASOs (x10 ⁹ /L)	0.0-0.2	0.0-0.2
RETIC#	20.0-92.0	12.0-96.0

REFERENCE RANGES FOR HAEMATOLOGICAL VARIABLES IN CHILDREN

Red cell variables (all ethnic groups)

Age	RBC x 10 ¹² /L	Hb g/L	HCT (Ratio)	MCV fl	MCH pg
0-1 day	4.00-5.50	130-200	0.420-0.600	97.0-115.0	31.0-39.0
1-7 days	3.90-5.40	130-190	0.360-0.600	95.0-112.0	31.0-37.0
7 days - 1 month	3.40-6.30	100-215	0.300-0.660	85.0-110.0	29.0-36.0
1 month -3 months	3.00-5.30	90-183	0.270-0.550	82.0-97.0	25.0-32.0
3 months – 6 months	3.30-5.00	95-135	0.270-0.400	70.0-88.0	23.0-30.0
6 months- 1 year	3.90-5.30	N/A	0.310-0.410	70.0-85.0	25.0-35.0
6 months- 6 years	N/A	105-135	N/A	N/A	N/A
1 – 2 years	4.10-5.30	N/A	0.330-0.410	71.0-84.0	23.0-31.0
2-6 years	4.2-5.00	N/A	0.340-0.400	73.0-86.0	24.0-30.0
2-12 years	N/A	N/A	N/A	N/A	N/A
6-12 years	3.1-5.1	111-147	0.320-0.430	75.0-89.5	25.6-30.9

White cells (babies, infants and children)

Age	WBC x 10 ⁹ /L	Neutrophils x 10 ⁹ /L	Lymphocytes x 10 ⁹ /L	Monocytes x 10 ⁹ /L	Eosinophils x 10 ⁹ /L	Basophils x 10 ⁹ /L
0-1 day	9.0-30.0	2.0-23.5	2.0-10.0	0.2-2.0	0.0-0.8	0.0-0.1
1-7 days	6.0-16.0	2.0-9.0	2.0-8.0	0.2-2.2	0.0-0.8	0.0-0.1
7 days - 1 month	6.0-18.4	1.2-9.0	2.0-9.0	0.2-2.0	0.0-0.8	0.0-0.1
1 month -3 months	6.0-19.5	1.2-9.0	2.0-9.0	0.2-2.0	0.0-0.6	0.0-0.1
3 months - 6months	6.0-16.0	0.7-4.7	1.5-10.5	0.2-2.0	0.0-0.4	0.0-0.1
6 months- 1 year	5.9-16.6	1.1-5.6	3.2-11.3	0.2-1.0	0.1-1.0	0.0-0.1
1-2 years	6.0-17.5	1.5-8.0	4.0-10.0	0.2-1.0	0.1-1.0	0.0-0.1
2-6 years	5.0-14.0	1.5-8.0	1.5-7.0	0.2-1.0	0.1-0.4	0.0-0.1
6-12 years	4.0-13.5	1.5-7.0	1.5-4.0	0.2-1.0	0.1-0.4	0.0-0.1

Platelets (babies, infants and children)

Age	Count x 10 ⁹ /L
0-1 day	150-350
1-7 days	150-450
7 days-1 month	150-500
1 - 3 month	150-550
3 months – 2 years	200-450
2-12 years	200-450