

Title of Document: Children's Reference Ranges for FBC	BLOOD SCIENCES DEPARTMENT OF HAEMATOLOGY	NHS North Bristol NHS Trust
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Authoriser: Paul Virgo		

Children's Reference Ranges for Routine Haematology Tests

Age	Hb (g/L)	RBC ($\times 10^{12}/L$)	Hct	Platelets ($\times 10^9/L$)	WBC ($\times 10^9/L$)	Neutrophils ($\times 10^9/L$)	Lymphocytes ($\times 10^9/L$)	Monocytes ($\times 10^9/L$)	Basophils ($\times 10^9/L$)	Eosinophils ($\times 10^9/L$)
Birth	140-240	3.7-6.5	0.47-0.75		10.0-26.0	2.7-14.4	2.0-8.0	0-2.0	<0.21	<0.81
2 weeks	134-198	3.9-5.9	0.41-0.65		6.0-21.0	1.5-5.4	2.8-9.1	0.1-1.7	<0.21	<0.91
4 weeks	134-198	3.2-5.9	0.41-0.65		6.0-21.0	1.5-5.4	2.8-9.1	0.1-1.7	<0.21	<0.91
2-6 months	94-130	3.1-4.3	0.28-0.42	150-400	5.0-15.0	1.0-5.0	4.0-10.0	0.4-1.2	<0.21	<0.81
6 months to 1 year	111-141	4.1-5.3	0.33-0.41	at all ages	6.0-17.5	1.0-8.5	4.0-12.0	0.2-1.0	<0.21	<0.81
1-6 years	115-140	3.9-5.3	0.34-0.40		5.0-17.0	1.0-8.5	1.5-9.5	0.2-1.0	<0.21	<0.81
6-12 years	115-155	4.0-5.2	0.35-0.40		4.5-14.5	1.0-8.0	1.5-7.0	0.2-1.0	<0.21	<1.01
12-18 yrs Female	120-160	4.1-5.1	0.36-0.46		4.5-13.0	1.5-8.0	1.1-4.5	0.2-1.0	<0.21	<0.81
12 – 18 yrs Male	130-170	4.5-5.3	0.37-0.49		4.5-13.0	1.5-8.0	1.1-4.5	0.2-1.0	<0.21	<0.81

DERIVED RBC VALUES IN CHILDHOOD

Age Group (y)	MCV (fl)	MCH (pg)	MCHC (g/L)
1	72-84	25.0-29.0	320-360
2	71-83	23.1-28.2	320-359
3	74-87	24.8-28.9	313-352
4	71-85	23.4-29.1	319-356
5	73-87	24.0-30.0	320-348
6	74-91	24.5-29.6	323-360
7	73-87	23.6-31.0	319-369
8	78-97	26.0-29.4	327-358
9	73-89	25.3-29.8	323-361
10	76-88	24.9-30.2	317-355
11	77-95	25.0-33.0	310-370