

Hematology Reference Ranges

Updated 5-2009

Parameter	Age	Reference Range		Units
		Male	Female	
HEMATOCRIT	> 17 year	40.0-52.0	36.0-45.0	%
	12 – 17 years	33.9-43.5	33.4-40.4	
	6 – 11 years	32.2-39.8	32.4-39.5	
	2 – 5 years	31.0-37.7	31.2-37.8	
	6 mon – 1 year	30.8-37.8	30.9-37.9	
	2 – 5 months	28.6-37.2	29.5-37.1	
	1 month	26.8-37.5	27.7-35.1	
	14 – 30 days	30.5-45.0	32.0-44.5	
	0 – 13 days	39.8-53.6	39.6-57.2	
	HEMOGLOBIN	> 17 year	13.5-17.3	12.0-15.5
12 – 17 years		11.0-14.5	10.8-13.3	
6 – 11 years		10.7-13.4	10.6-13.2	
2 – 5 years		10.2-12.7	10.2-12.7	
6 mon – 1 year		10.1-12.5	10.2-12.7	
2 – 5 months		9.6-12.4	9.9-12.4	
1 month		8.9-12.7	9.2-11.4	
14 – 30 days		10.0-15.3	10.8-14.6	
0 – 13 days		13.9-19.1	13.4-20.0	
MCH		> 17 year	27.0-33.5	25.3-33.5
	12 – 17 years	25.2-30.2	24.8-30.2	
	6 – 11 years	24.9-29.2	24.8-29.5	
	2 – 5 years	23.7-28.3	23.7-28.6	
	6 mon – 1 year	22.7-27.2	23.2-27.5	
	2 – 5 months	24.4-28.9	24.4-29.5	
	1 month	27.8-32.0	28.0-32.5	
	14 – 30 days	29.9-34.1	30.4-35.3	
	0 – 13 days	31.3-35.6	31.1-35.9	
	MCHC	> 17 year	32.0-36.5	32.0-36.5
12 – 17 years		31.8-34.8	31.5-34.2	
6 – 11 years		32.2-34.9	31.8-34.6	
2 – 5 years		32.0-34.7	31.8-34.6	
6 mon – 1 year		31.6-34.4	31.9-34.2	
2 – 5 months		31.9-34.4	32.1-34.4	
1 month		32.3-34.8	32.5-34.9	
14 – 30 days		32.7-35.1	33.2-35.0	
0 – 13 days		33.0-35.7	33.4-35.4	
MCV		> 17 year	81.0-96.0	81.0-96.0
	12 – 17 years	76.7-89.2	76.9-90.6	
	6 – 11 years	74.4-86.1	75.9-87.6	
	2 – 5 years	71.3-84.0	72.3-85.0	
	6 mon – 1 year	69.5-81.7	71.3-82.6	
	2 – 5 months	74.1-87.5	74.8-88.3	
	1 month	84.3-94.2	83.4-96.4	
	14 – 30 days	89.4-99.7	90.1-103.0	
	0 – 13 days	91.3-103.1	92.7-106.4	

Parameter	Age	Reference Range		Units
		Male	Female	
PLATELET COUNT	> 17 year	150-400	150-400	tho/cmm
	12 – 17 years	175-332	194-345	
	6 – 11 years	206-369	199-367	
	2 – 5 years	202-403	189-394	
	6 mon – 1 year	206-445	214-459	
	2 – 5 months	244-529	247-580	
	1 month	229-562	331-597	
	14 – 30 days	248-586	279-571	
	0 – 13 days	218-419	144-449	
	RBC	> 17 year	4.40-5.70	4.00-5.20
12 – 17 years		4.03-5.29	3.93-4.90	
6 – 11 years		3.96-5.03	3.90-4.96	
2 – 5 years		3.89-4.97	3.84-4.92	
6 mon – 1 year		4.03-5.07	3.97-5.01	
2 – 5 months		3.43-4.80	3.45-4.75	
1 month		3.02-4.22	2.93-3.87	
14 – 30 days		3.16-4.63	3.32-4.80	
0 – 13 days		4.10-5.55	4.12-5.74	
RDW		> 17 year	12.0-14.3	11.5-15.3
	12 – 17 years	12.4-14.5	12.3-14.6	
	6 – 11 years	12.3-14.1	12.2-14.4	
	2 – 5 years	12.5-14.9	12.4-14.9	
	6 mon – 1 year	12.9-15.6	12.7-15.1	
	2 – 5 months	12.4-15.3	12.2-14.3	
	1 month	13.8-16.1	13.6-15.8	
	14 – 30 days	14.3-16.8	14.4-16.2	
	0 – 13 days	14.8-17.0	14.6-17.3	
	WBC	> 17 year	4.00-10.00	4.00-10.00
12 – 17 years		3.84-9.84	4.19-9.43	
6 – 11 years		4.31-11.00	4.27-11.40	
2 – 5 years		5.14-13.38	4.86-13.18	
6 mon – 1 year		5.98-13.51	6.48-13.02	
2 – 5 months		6.51-13.32	6.00-13.25	
1 month		8.14-14.99	7.05-14.68	
14 – 30 days		7.80-15.91	8.36-14.42	
0 – 13 days		8.04-15.40	8.16-14.56	
RETIC, ABSOLUTE		> 13 days	20-95	20-95
	0 – 13 days	18-158	18-158	
RETIC, %	> 13 days	0.5-2.0	0.5-2.0	%
	0 – 13 days	2.5-6.0	2.5-6.0	
NRBC, ABSOLUTE	> 17 year	0.03-0.11	0.03-0.11	tho/cmm
	12 – 17 years	0.03-0.13	0.03-0.13	
	6 – 11 years	0.03-0.15	0.03-0.15	
	2 – 5 years	0.03-0.32	0.03-0.32	
	6 mon – 1 year	0.03-0.12	0.03-0.12	
	2 – 5 months	0.03-0.13	0.03-0.13	
	1 month	0.03-0.09	0.03-0.09	
	14 – 30 days	0.04-0.11	0.04-0.11	
	0 – 13 days	0.06-1.30	0.06-1.30	
	NRBC, %	> 3 days	0.0	0.0
0 – 3 days		0.1-8.3	0.1-8.3	