

CBC and Differential Provincial Reference Intervals and Critical Values

Test	Critical Low	Critical High
WBC	<0.6 x 10 ⁹ /L	>99.9 x 10 ⁹ /L
HGB	<80 g/L (age <7 days) <70 g/L (age ≥7 days)	>239 g/L
PLT	<10 x 10 ⁹ /L (Emergency and Inpatient) <20 x 10 ⁹ /L (Outpatient)	
NEUT	<0.6 x 10 ⁹ /L	
Blasts		>40 x 10 ⁹ /L

Age	WBC 10 ⁹ /L	RBC 10 ¹² /L	HGB g/L	HCT L/L	MCV fL	MCH pg	MCHC g/L	RDW %	PLTS 10 ⁹ /L	MPV fL	IPF %	NRBC/ 100 WBC
0 up to 1 Day	9.0-30.0	3.90-5.50	135-195	0.42-0.60	98-118	≥31	290-360	<16.0	140-400	8.6-11.3	1.1-6.1	0-30
1 Day up to 7 Days	9.4-34.0	4.00-6.60	145-225	0.45-0.67	95-121	≥31	290-360	<16.0	140-400	8.6-11.3	1.1-6.1	0-30
7 Days up to 14 Days	5.0-21.0	3.90-6.30	135-215	0.42-0.66	88-126	≥28	290-360	<16.0	140-400	8.6-11.3	1.1-6.1	<1
14 Days up to 1 Month	5.0-20.0	3.60-6.20	125-205	0.39-0.63	86-124	≥28	290-360	<16.0	140-400	8.6-11.3	1.1-6.1	<1
1 Month up to 2 Months	5.0-19.5	3.00-5.40	100-180	0.31-0.55	85-123	≥25	290-360	<16.0	140-400	8.6-11.3	1.1-6.1	<1
2 Months up to 3 Months	5.0-19.5	2.70-4.90	90-140	0.28-0.42	77-115	≥25	290-360	<16.0	140-400	8.6-11.3	1.1-6.1	<1
3 Months up to 6 Months	5.0-19.5	3.10-5.20	95-147	0.29-0.45	74-108	≥25	290-360	<16.0	140-400	8.6-11.3	1.1-6.1	<1
6 Months up to 1 Year	6.0-17.5	3.50-5.60	105-145	0.31-0.44	70-90	≥21	310-360	<16.0	140-400	8.3-10.7	1.1-6.1	<1
1 Year up to 2 Years	6.0-17.0	3.50-5.60	105-145	0.31-0.44	70-90	≥21	310-360	<16.0	140-400	8.3-10.7	1.1-6.1	<1
2 Years up to 3 Years	5.5-17.0	3.50-5.60	110-135	0.34-0.46	75-95	≥23	310-360	<16.0	140-400	8.3-10.7	1.1-6.1	<1
3 Years up to 4 Years	5.5-17.0	3.80-5.60	110-157	0.34-0.46	75-95	≥23	310-360	<16.0	140-400	8.3-10.7	1.1-6.1	<1
4 Years up to 6 Years	4.0-15.5	3.80-5.60	110-157	0.34-0.46	75-95	≥23	310-360	<16.0	140-400	8.3-10.7	1.1-6.1	<1
6 Years up to 8 Years	4.5-14.5	3.80-5.60	110-157	0.34-0.46	75-95	≥25	310-360	<16.0	140-400	8.0-12.0	1.1-6.1	<1
8 Years up to 10 Years	4.5-14.5	3.80-5.60	110-157	0.34-0.46	75-95	≥25	310-360	<16.0	140-400	8.0-12.0	1.1-6.1	<1
10 Years up to 12 Years	4.5-14.5	3.80-5.60	110-157	0.34-0.46	75-95	≥25	310-360	<16.0	140-400	8.0-12.0	1.1-6.1	<1
Female 12 Years up to 16 Years	4.5-13.0	3.80-5.20	120-160	0.36-0.48	78-100	≥25	310-360	<16.0	140-400	8.0-12.0	1.1-6.1	<1
Male 12 Years up to 16 Years	4.5-13.0	4.00-5.80	125-170	0.36-0.50	78-100	≥25	310-360	<16.0	140-400	8.0-12.0	1.1-6.1	<1
Female 16 Years up to 18 Years	4.5-13.0	3.80-5.20	120-160	0.36-0.48	78-100	≥25	310-360	<16.0	140-400	8.0-12.0	1.1-6.1	<1
Male 16 Years up to 18 Years	4.5-13.0	4.00-5.80	125-170	0.36-0.50	78-100	≥25	310-360	<16.0	140-400	8.0-12.0	1.1-6.1	<1
Female 18 Years up to 150 Years	4.0-11.0	3.80-5.20	120-160	0.36-0.48	80-100	≥26	310-360	<16.0	140-400	8.0-12.0	1.1-6.1	<1
Male 18 Years up to 150 Years	4.0-11.0	4.30-6.00	135-175	0.40-0.52	80-100	≥26	310-360	<16.0	140-400	8.0-12.0	1.1-6.1	<1



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Age	NEUT 10 ⁹ /L	Immature Granulo- cytes 10 ⁹ /L	LYMPH 10 ⁹ /L	MONO 10 ⁹ /L	EOS 10 ⁹ /L	BASO 10 ⁹ /L	Myeloid Precursors 10 ⁹ /L	Meta- myelocytes 10 ⁹ /L	Myelocytes 10 ⁹ /L	Pro- myelocytes 10 ⁹ /L	Blasts %	Blasts 10 ⁹ /L
0 up to 1 Day	5.0-26.0	0-0.1	2.0-11.5	0.0-1.9	0.0-2.0	0.0-0.4	0.0-0.1	0.0-0.0	0.0-0.0	0.0-0.0	<1	0.0-0.0
1 Day up to 7 Days	5.0-21.0	0-0.1	2.0-17.0	0.0-1.9	0.0-2.0	0.0-0.4	0.0-0.1	0.0-0.0	0.0-0.0	0.0-0.0	<1	0.0-0.0
7 Days up to 14 Days	1.5-10.0	0-0.1	2.0-17.0	0.0-1.9	0.0-2.0	0.0-0.4	0.0-0.1	0.0-0.0	0.0-0.0	0.0-0.0	<1	0.0-0.0
14 Days up to 1 Month	1.0-9.5	0-0.1	2.0-17.0	0.0-1.9	0.0-2.0	0.0-0.4	0.0-0.1	0.0-0.0	0.0-0.0	0.0-0.0	<1	0.0-0.0
1 Month up to 2 Months	1.0-9.0	0-0.1	2.5-16.5	0.0-1.1	0.0-0.7	0.0-0.3	0.0-0.1	0.0-0.0	0.0-0.0	0.0-0.0	<1	0.0-0.0
2 Months up to 3 Months	1.0-9.0	0-0.1	2.5-16.5	0.0-1.1	0.0-0.7	0.0-0.3	0.0-0.1	0.0-0.0	0.0-0.0	0.0-0.0	<1	0.0-0.0
3 Months up to 6 Months	1.0-9.0	0-0.1	2.5-16.5	0.0-1.1	0.0-0.7	0.0-0.3	0.0-0.1	0.0-0.0	0.0-0.0	0.0-0.0	<1	0.0-0.0
6 Months up to 1 Year	0.6-8.5	0-0.1	2.7-12.5	0.0-1.1	0.0-0.7	0.0-0.3	0.0-0.1	0.0-0.0	0.0-0.0	0.0-0.0	<1	0.0-0.0
1 Year up to 2 Years	0.6-8.5	0-0.1	2.7-12.5	0.0-1.1	0.0-0.7	0.0-0.3	0.0-0.1	0.0-0.0	0.0-0.0	0.0-0.0	<1	0.0-0.0
2 Years up to 3 Years	0.8-8.5	0-0.1	2.0-9.5	0.0-1.1	0.0-0.7	0.0-0.3	0.0-0.1	0.0-0.0	0.0-0.0	0.0-0.0	<1	0.0-0.0
3 Years up to 4 Years	0.8-8.5	0-0.1	2.0-9.5	0.0-1.1	0.0-0.7	0.0-0.3	0.0-0.1	0.0-0.0	0.0-0.0	0.0-0.0	<1	0.0-0.0
4 Years up to 6 Years	0.8-8.5	0-0.1	1.3-8.0	0.0-1.1	0.0-0.7	0.0-0.3	0.0-0.1	0.0-0.0	0.0-0.0	0.0-0.0	<1	0.0-0.0
6 Years up to 8 Years	0.8-8.5	0-0.1	1.3-8.0	0.0-1.1	0.0-0.7	0.0-0.3	0.0-0.1	0.0-0.0	0.0-0.0	0.0-0.0	<1	0.0-0.0
8 Years up to 10 Years	0.8-8.0	0-0.1	1.3-8.0	0.0-1.1	0.0-0.7	0.0-0.3	0.0-0.1	0.0-0.0	0.0-0.0	0.0-0.0	<1	0.0-0.0
10 Years up to 12 Years	1.8-8.0	0-0.1	1.5-6.5	0.0-1.1	0.0-0.7	0.0-0.3	0.0-0.1	0.0-0.0	0.0-0.0	0.0-0.0	<1	0.0-0.0
Female 12 Years up to 16 Years	1.8-8.0	0-0.1	1.5-6.5	0.0-1.1	0.0-0.7	0.0-0.3	0.0-0.1	0.0-0.0	0.0-0.0	0.0-0.0	<1	0.0-0.0
Male 12 Years up to 16 Years	1.8-8.0	0-0.1	1.5-6.5	0.0-1.1	0.0-0.7	0.0-0.3	0.0-0.1	0.0-0.0	0.0-0.0	0.0-0.0	<1	0.0-0.0
Female 16 Years up to 18 Years	1.8-8.0	0-0.1	0.5-5.2	0.0-1.1	0.0-0.7	0.0-0.3	0.0-0.1	0.0-0.0	0.0-0.0	0.0-0.0	<1	0.0-0.0
Male 16 Years up to 18 Years	1.8-8.0	0-0.1	0.5-5.2	0.0-1.1	0.0-0.7	0.0-0.3	0.0-0.1	0.0-0.0	0.0-0.0	0.0-0.0	<1	0.0-0.0
Female 18 Years up to 150 Years	1.8-7.5	0-0.1	0.5-4.5	0.0-1.1	0.0-0.7	0.0-0.3	0.0-0.1	0.0-0.0	0.0-0.0	0.0-0.0	<1	0.0-0.0
Male 18 Years up to 150 Years	1.8-7.5	0-0.1	0.5-4.5	0.0-1.1	0.0-0.7	0.0-0.3	0.0-0.1	0.0-0.0	0.0-0.0	0.0-0.0	<1	0.0-0.0