

Lab Dept:

Hematology

COMPLETE BLOOD COUNT REFERENCE VALUES

RBC Parameters (Conventional Units)

Age	HGB (g/dL)	HCT (%)	RBC ($\times 10^6/\mu\text{L}$)	MCV (fL)	MCH (pg)	MCHC (%)	RDW-I (%)
1 d	14.5-22.5	45-67	4.00-6.60	95- 121	31-37	29-37	13.0-18.0
1 wk	13.5-19.5	42-66	3.90-6.30	88-126	28-40	28-38	13.0-18.0
2 wk	12.5-20.5	39-63	3.60-6.20	86-124	28-40	28-38	13.0-18.0
1 mo	10.0-18.0	31-55	3.00-5.40	85-123	28-40	29-37	11.5-16.0
2 mo	9.0-14.0	28-42	2.70-4.90	77-115	26-34	29-37	11.5-16.0
3 – 6 mo	9.5-13.5	29-41	3.10-4.50	74-108	25-35	30-36	11.5-16.0
0.5 – 2 yr	10.5-13.5	33-49	3.70-5.30	70-86	23-31	30-36	11.5-16.0
2 – 6 yr	11.5-15.5	34-40	3.90-5.30	75-87	24-30	32-36	11.5-15.0
6 – 12 yr	11.5-15.5	35-45	4.00-5.20	77-95	25-33	32-36	11.5-15.0
12 – 18 yr (Male)	13.0-16.0	36-51	4.50-5.30	79-98	25-35	32-36	11.5-14.0
12 – 18 yr (Female)	12.0-16.0	33-51	4.10-5.10	78-102	25-35	32-36	11.5-14.0
>18 yr (Male)	13.5-17.5	37-53	4.50-5.90	80-100	26-34	32-36	11.5-13.1
>18 yr (Female)	12.0-16.0	33-51	4.00-5.20	80-100	26-34	32-36	11.5-13.1

WBC and Differential (Conventional Units)

Age	WBC ($\times 10^3/\mu\text{L}$)	Seg PMN %	Band PMN %	ANC (K/ μL)	Eos %	Basos %	Lymphs %	ALYC (K/ μL)	Monos %	NRBCs (#/100 BCs)
0-3 d	9.0-35.0	32-62	0-18	3-28	0-2	0-1	19-29	2-10	5-7	0-2

4-9 d	5.0–21.0	19–49	0–15	1-13	0–2	0–1	26–36	2-8	5–7	0
10-14 d	5.0–20.0	14–34	0–14	1-10	0–2	0–1	36–45	2-9	6–10	0
15-30 d	5.0-19.5	15–35	0–12	1-9	0–2	0–1	43–53	2-10	7–11	0
1-6 mo	6.0–17.5	13–33	0–11	1- 8	0–3	0–1	41–71	2-12	4–7	0
7-24 mo	6.0–17.0	15-35	0–11	1-8	0–3	0–1	45–76	3-13	3–6	0
25-60 mo	5.5–15.5	23-45	0–11	1.5–8.5	0–3	0–1	35–65	2-10	3–6	0
5-8 yr	5.0–14.5	32– 54	0–11	1.5–9.0	0–3	0–1	28–48	1.4–7.0	3–6	0
9-12 yrs	4.5–13.5	33–61	0–11	1.5-9.5	0–3	0–1	28–48	1.3–6.5	3–6	0
13-18 yr	4.5–13.0	34–64	0–11	1.5–9.5	0–3	0–1	25–45	1.1–6.0	3–6	0
adult	4.5–11.0	35–66	0–11	1.5–8.5	0–3	0–1	24–44	1.1–5.0	3–6	0
Platelets (Conventional Units)										
Age				PLT ($\times 10^3/\mu\text{L}$)				MPV (fl)		
All ages				150 – 450				6.5 – 10.0		

- Nathan DG, and Oski, FA (1981) Hematology of Infancy and Childhood, ed 2, WB Saunders, pp 1552-74
- Dallman PR (1977) Pediatrics, 16th edition, Appleton-Century-Crofts, p 1111
- Pediatric Normal Ranges (1995) Children’s Hospital of Buffalo, Coulter VIEWPOINT, No. 17, p 8
- Pediatric Normal Range Study (1995) Children’s Hospitals, Minneapolis and St. Paul

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