
Lab Dept: Hematology

COMPLETE BLOOD COUNT REFERENCE VALUES

RBC Parameters (Conventional Units)

Age	HGB (g/dL)	HCT (%)	RBC (x10⁶/μL)	MCV (fl)	MCH (pg)	MCHC (g/dL)	RDW (%)
Birth – 6 days	14.5-22.5	45-67	4.00–6.60	95- 121	31-37	29-37	13.0–18.0
7 days-13 days	13.5–19.5	42-66	3.90–6.30	88-126	28-40	28-38	13.0–18.0
14 days-1 mo	12.5–20.5	39–63	3.60–6.20	86-124	28-40	28–38	13.0–18.0
1 mo- 2 mo	10.0–18.0	31-55	3.00–5.40	85-123	28-40	29-37	11.5–16.0
2 mo- 3 mo	9.0–14.0	28-42	2.70–4.90	77-115	26-34	29-37	11.5–16.0
3 mo – 6 mo	9.5–13.5	29-41	3.10–4.50	74-108	25-35	30-36	11.5–16.0
6 mo – 2 yr	10.5–13.5	33–49	3.70–5.30	70-86	23-31	30-36	11.5–16.0
2yr – 6 yr	11.5–15.5	34-40	3.90–5.30	75-87	24-30	32-36	11.5–15.0
6yr – 12 yr	11.5–15.5	35-45	4.00–5.20	77-95	25-33	32-36	11.5–15.0
12yr – 18 yr (Male)	13.0–16.0	36-51	4.50–5.30	79-98	25-35	32-36	11.5–14.0
12yr – 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 ($\times 10^3/\mu\text{L}$)	Neutrophil %	Band Neutrophil	ANC (K/ μL)	Eosinophil %	Basophils %	Lymph %	ALYC (K/ μL)	Monocyte %	NRBCs (#/100 BCs)
0-3 d	9.0–35.0	32–62	0-18	2.88-28.0	0–2	0-1	19–29	1.71-10.15	6- 18	0–2
4-9 d	5.0–21.0	19–49	0–15	0.95-13.44	0–2	0–1	26–36	1.3-7.56	7-18	0
10-14 d	5.0–20.0	14–34	0–14	0.7-9.6	0–2	0–1	36–45	1.8-9.0	4-18	0
15-30 d	5.0-19.5	15–35	0–12	0.75-9.17	0–2	0–1	43–53	2.15-10.34	4-16	0
1-6 mo	6.0–17.5	13–33	0–11	0.78-7.7	0–3	0–1	41–71	2.46-12.43	4–14	0
7-24 mo	6.0–17.0	15-35	0–11	0.9-7.82	0–3	0–1	45–76	2.7-12.92	4–12	0
25-60 mo	5.5–15.5	23-45	0–11	1.27-8.68	0–3	0–1	35–65	1.93-10.08	4–10	0
5-8 yr	5.0–14.5	32– 54	0–11	1.6-9.43	0–3	0–1	28–48	1.4-6.96	4–10	0
9-12 yrs	4.5–13.5	33–61	0–11	1.49-9.72	0–3	0–1	28–48	1.26-6.48	4–10	0
13-18 yr	4.5–13.0	34–64	0–11	1.53-9.75	0–3	0–1	25–45	1.13-5.85	4–10	0
adult	4.5–11.0	35–66	0–11	1.58–8.47	0–3	0–1	24–44	1.08-4.84	4–10	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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