

Adjusted Hematology Normal Reference Ranges Active January 12, 2021

Test	Age										
RBC (M/cu mm)	0-2 Days	3-6 Days	7-13 Days	14-29 Days	1 Month	2-5 Months	6 Months - 1 Year	2-5 Years	6-11 Years	12-17 Years	≥18 Years
Female	4-6.6	3.9-6.3	3.6-6.2	3-5.4	2.7-4.9	3.1-4.5	3.7-5.3	3.9-5.3	4-5.2	4.1-5.1	4-5.2
Male	4-6.6	3.9-6.3	3.6-6.2	3-5.4	2.7-4.9	3.1-4.5	3.7-5.3	3.9-5.3	4-5.2	3.8-5.8	4.5-5.9
HGB (g/dL)	0-2 Days	3-6 Days	7-13 Days	14-29 Days	1 Month	2-5 Months	6 Months - 1 Year	2-5 Years	6-11 Years	12-17 Years	≥18 Years
Female	14.5-22.5	13.5-21.5	12.5-20.5	10-18	9-14	9.5-13.5	10.5-13.5	11.5-13.5	11.5-15.5	12-16	12-16
Male	14.5-22.5	13.5-21.5	12.5-20.5	10-18	9-14	9.5-13.5	10.5-13.5	11.5-13.5	11.5-15.5	10.9-16.7	13.5-18
HCT (%)	0-2 Days	3-6 Days	7-13 Days	14-29 Days	1 Month	2-5 Months	6 Months - 1 Year	2-5 Years	6-11 Years	12-17 Years	≥18 Years
Female	45-67	42-66	39-63	31-55	28-42	29-41	33-39	34-40	35-45	36-46	36-46
Male	45-67	42-66	39-63	31-55	28-42	29-41	33-39	34-40	35-45	37-49	41-53
MCV (fL)	0-2 Days	3-6 Days	7-13 Days	14-29 Days	1 Month	2-5 Months	6 Months - 1 Year	2-5 Years	6-11 Years	12-17 Years	≥18 Years
Female	95-121	88-126	86-124	85-123	77-115	74-108	70-86	75-87	77-95	78-102	80-100
Male	95-121	88-126	86-124	85-123	77-115	74-108	70-86	75-87	77-95	78-98	80-100
MCH (pg)	0-2 Days	3-29 Days			1 Month	2-5 Months	6 Months - 1 Year	2-5 Years	6-11 Years	12-17 Years	≥18 Years
Female/Male	31-37	28-40			26-34	25-35	23-31	24-30	25-33	25-35	26-34
MCHC (%)	0-2 Days	3-13 Days		14-29 Days		2 Months - 1 Year		≥2 Years			
Female/Male	30-37	28-38		29-37		30-36		31-37			
RDW (%)	All Ages										
Female/Male	10-14.1										
MPV (fL)	All Ages										
Female/Male	9.3-13										
PLT (K/cu mm)	All Ages										
Female/Male	142-508										

Test	Age											
WBC (K/cu mm)	0 Days	1-6 Days	7-13 Days	14-29 Days	1-5 Months	6 Months - 1 Year	2-3 Years	4-5 Years	6-9 Years	10-15 Years	16-20 Years New age Group	≥21 Years
Female/Male	9-38	9.4-34	5-21	5-20	5-19.5	6-17.5	6-17	5.5-15.5	5-14.5	4.5-13.5	4.5-13	4.5-11
NEUTROPHILS (%)	0-2 Days	3-29 Days		1 Month - 2 Years		3-11 Years	12-17 Years	≥18 Years				
Female/Male	31.9-48.3	14.6-50.2		15.9-74.4		26.3-64.4	37.9-74.5	40.8-78.2				
LYMPOCYTES (%)	0-2 Days	3-29 Days		1 Month - 2 Years		3-11 Years	12-17 Years	≥18 Years				
Female/Male	9-54	25-74		31-83		16-65	15-54	9-51				
MONOCYTES (%)	0-29 Days			1 Month - 2 Years		3-11 Years	12-17 Years	≥18 Years				
Female/Male	4-23			3-16		4-15	5-13	4-13				
EOSINOPHILS (%)	0-6 Days		7-29 Days	1-11 Months	1-17 Years			≥18 Years				
Female/Male	2.5-13		0.6-9.7	0.9-11.7	0.3-9.3			0.2-8.1				
BASOPHILS (%)	0-6 Days		7-29 Days	1-11 Months	1-17 Years			≥18 Years				
Female/Male	0.8-1.3		0.1-1.4	0.1-0.8	0.1-1.1			0.2-1.6				

Test	Age		
RETICULOCYTES (%)	0-13 Days	2 Weeks - 11 Months	≥1 Year
Female/Male	0.1-4.6	0.1-4	0.4-2.9

Current Hematology Normal Reference Ranges Prior to January 12, 2021

Test	Age										
RBC (M/cu mm)	0-2 Days	3-6 Days	7-13 Days	14-29 Days	1 Month	2-5 Months	6 Months - 1 Year	2-5 Years	6-11 Years	12-17 Years	≥18 Years
Female	4-6.6	3.9-6.3	3.6-6.2	3-5.4	2.7-4.9	3.1-4.5	3.7-5.3	3.9-5.3	4-5.2	4.1-5.1	4-5.2
Male	4-6.6	3.9-6.3	3.6-6.2	3-5.4	2.7-4.9	3.1-4.5	3.7-5.3	3.9-5.3	4-5.2	4.5-5.3	4.5-5.9
HGB (g/dL)	0-2 Days	3-6 Days	7-13 Days	14-29 Days	1 Month	2-5 Months	6 Months - 1 Year	2-5 Years	6-11 Years	12-17 Years	≥18 Years
Female	14.5-22.5	13.5-21.5	12.5-20.5	10-18	9-14	9.5-13.5	10.5-13.5	11.5-13.5	11.5-15.5	12-16	12-16
Male	14.5-22.5	13.5-21.5	12.5-20.5	10-18	9-14	9.5-13.5	10.5-13.5	11.5-13.5	11.5-15.5	13-15	13.5-17.5
HCT (%)	0-2 Days	3-6 Days	7-13 Days	14-29 Days	1 Month	2-5 Months	6 Months - 1 Year	2-5 Years	6-11 Years	12-17 Years	≥18 Years
Female	45-67	42-66	39-63	31-55	28-42	29-41	33-39	34-40	35-45	36-48	36-46
Male	45-67	42-66	39-63	31-55	28-42	29-41	33-39	34-40	35-45	37-49	41-53
MCV (fL)	0-2 Days	3-6 Days	7-12 Days	13-29 Days	1 Month	2-5 Months	6 Months - 1 Year	2-5 Years	6-11 Years	12-17 Years	≥18 Years
Female	95-121	88-126	86-124	85-123	77-115	74-108	70-86	75-88	77-95	78-102	80-100
Male	95-121	88-126	86-124	85-123	77-115	74-108	70-86	75-88	77-95	78-102	80-100
MCH (pg)	0-2 Days	3-6 Days	7-13 Days	14-29 Days	1 Month	2-5 Months	6 Months - 1 Year	2-5 Years	6-11 Years	12-17 Years	≥18 Years
Female/Male	31-37	28-38	28-38	28-38	26-34	25-35	23-31	24-30	25-33	25-35	26-34
MCHC (%)	All Ages										
Female/Male	31-37										
RDW (%)	All Ages										
Female/Male	10-14.1										
MPV (fL)	All Ages										
Female/Male	9.3-13										
PLTC (K/cu mm)	All Ages										
Female/Male	140-440										

Test	Age												
WBC (K/cu mm)	0 Days	1-6 Days	7-13 Days	14-29 Days	1-5 Months	6-11 Months	1 year	2-3 Years	4-5 Years	6-9 Years	10-20 Years		≥21 Years
Female/Male	9-38	9.4-34	5-21	5-20	5-19.5	6-17.5	6-17.5	6-17	5.5-15.5	5-14.5	4.5-13.5		4.5-11
NEUTROPHIL (%)	0 Days	1-6 Days	7-13 Days	14-29 Days	1-5 Months	6-11 Months	1 Year	2-3 Years	4-5 Years	6-9 Years	10-20 Years		≥21 Years
Female/Male	43-87	42-80	27-65	20-58	21-47	18-44	20-46	28-56	37-65	36-72	39-75		41-77
LYMPHOCYTES (%)	0 Days	1-6 Days	7-13 Days	14-29 Days	1-5 Months	6 Months - 1 Year	2-3 Years		4-5 Years	6-9 Years	10-15 Years	16-20 Years	≥21 Years
Female/Male	19-36	26-36	36-46	43-53	41-71	46-76	44-74		35-65	27-57	28-48	25-45	24-44
MONOCYTES (%)	0-6 Days	7-28 Days	1-5 Months			6 Months - 20 Years							≥21 Years
Female/Male	3-9	6-12	3-9			2-8							1-7
EOSINOPHILS (%)	0D				1M								
Female/Male	1-5				1-4								
BASOPHILS (%)	All Ages												
Female/Male	0-1												

Test	Age										
RETICULOCYTES (%)	0 Days	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7-13 Days	14-20 Days	21-29 Days	30-34 Days
Female/Male	1.8-4.6	1.9-4.5	1.1-4.5	0.7-2.9	1-1.4	0.4-0.8	0.1-0.9	0.2-0.8	0.2-1.4	0.3-0.9	0.1-1.7
	Age										
RETICULOCYTES (%)	35-41 Days	42-48 Days	49-55 Days	56-62 Days	63-69 Days	70-76 Days	77-89 Days	3-5 Months	6-11 Months	1-14 Years	≥15 Years
Female/Male	0.3-1.7	0.5-1.9	0.8-2.2	0.8-2.8	0.6-1.8	0.5-1.9	0.4-1	0.5-4	0.2-1.6	0.4-1.8	0.5-2