

Heme Reference Ranges, updated 6/5/18

HEMATOLOGY	Age	Male	Female
WBC - White Blood Count (K/mm ³) (Equivalent units: 10 ³ /μL)	0-30 days 1-6 mo. 6 mo.- 2 yrs. 2-6 yrs. 6-12 yrs. 12-18 yrs. 18-150 yrs.	5.5-19.9 7.4-16.3 6.3-14.8 5.0-13.2 4.8-11.8 4.9-15.5 3.5-10.8	5.5-19.9 7.4-16.3 6.3-14.8 5.0-13.2 4.8-11.8 4.9-15.5 3.5-10.8
RBC - Red Blood Count (M/mm ³) (Equivalent units: 10 ⁶ /μL)	0-30 days 1-6 mo. 6 mo.- 2 yrs. 2-6 yrs. 6-12 yrs. 12-18 yrs. 18-150 yrs.	3.1-5.3 2.7-5.4 3.7-5.3 3.9-5.3 4.0-5.2 4.5-5.3 4.5-6.0	3.1-5.3 2.7-5.4 3.7-5.3 3.9-5.3 4.0-5.2 4.1-5.1 4.0-5.2
Hemoglobin g/dL	0-30 days 1-6 mo. 6 mo.- 2 yrs. 2-6 yrs. 6-12 yrs. 12-18 yrs. 18-150 yrs.	10.0-18.0 9.5-14.0 10.5-13.5 11.5-13.5 11.5-15.5 13.0-16.0 13.5-17.5	10.0-18.0 9.5-14.0 10.5-13.5 11.5-13.5 11.5-15.5 12.0-16.0 12.0-16.0
Hematocrit %	0-30 days 1-6 mo. 6 mo.- 2 yrs. 2-6 yrs. 6-12 yrs. 12-18 yrs. 18-150 yrs.	31.0-55.0 28.0-42.0 33.0-39.0 34.0-40.0 35.0-45.0 37.0-49.0 41.0-53.0	31.0-55.0 28.0-42.0 33.0-39.0 34.0-40.0 35.0-45.0 36.0-46.0 36.0-46.0
MCV - Mean Red Cell Volume	0 - 3 days 4 - 30 days 1 - 2 months 2 - 6 months 6 mos - 2 yrs 2 - 6 yrs. 6 - 12 yrs. 12 - 18 yrs. >=18 yrs.	95-121 85-126 77-115 74-108 70-86 75-87 77-95 78-100 80-100	95-121 85-126 77-115 74-108 70-86 75-87 77-95 78-100 80-100
MCH - Mean Cell Hemoglobin	0 - 2 weeks 2 weeks - 6 mos 6 mos - 14 yrs >=14 yrs	29-39 26-35 25-30 27-34	29-39 26-35 25-30 27-34
MCHC - Mean Cell Hemoglobin Conc	0 - 2 weeks 2 weeks - 6 mos 6 mos - 6 yrs >=6 yrs	28-36 29-36 30-36 32-36	28-36 29-36 30-36 32-36
RDW-SD - Red Cell Distribution Width	0-150 yrs.	35.1-46.3	35.1-46.3

HEMATOLOGY	Age	Male	Female
Platelet Count (K/mm ³) (Equivalent units: 10 ³ /μL)	0-30 days 31 days-2 yrs. 2-12 yrs ≥12 yrs.	250 - 450 250 - 600 200 - 450 150 - 400	250 - 450 250 - 600 200 - 450 150 - 400
MPV - Mean Platelet Volume	0-150 yrs.	9.7-12.3	9.7-12.3
NRBC – Nucleated Red Blood Cells (%)	0-150 yrs	0-0.3	0-0.3
NRBC – Nucleated Red blood Cells (#)	0-150 yrs	0-0.02	0-0.02
IPF – Immature Platelet Fraction (%)	0-150 yrs	1-7.5	1-7.5
Reticulocyte Count (%)	0-150 yrs	0.5-1.5	0.5-1.5
Reticulocyte Count (#) x 10 ³	0-150 yrs	10-90	10-90
IRF - Immature Retic Fraction (%)	0-150 yrs	3-12	3-12
RET-He – Reticulocyte Hemoglobin Equivalent (pg)	0-150 yrs	29-38	29-38
Neutrophil %	0-30 days 1-6 mo. 6 mo.- 2 yrs. 2-6 yrs. 6-12 yrs. 12-18 yrs. 18-150 yrs.	14-58 14-54 21-67 30-74 36-77 41-76 50-70	14-58 14-54 21-67 30-74 36-77 41-76 50-70
Neutrophil Number (K/mm ³) (Equivalent units: 10 ³ /μL)	0-30 days 1-6 mo. 6 mo.- 2 yrs. 2-6 yrs. 6-12 yrs. 12-18 yrs. 18-150 yrs.	1.6-11.4 1.2-8.4 1.4-9.0 2.0-7.1 2.0-7.8 2.8-11.1 1.8-7.7	1.6-11.4 1.2-8.4 1.4-9.0 2.0-7.1 2.0-7.8 2.8-11.1 1.8-7.7
Lymphocytes %	0-30 days 1-6 mo. 6 mo.- 2 yrs. 2-6 yrs. 6-12 yrs. 12-18 yrs. 18-150 yrs.	10-59 30-70 30-70 20-70 13-45 20-41 18-42	10-59 30-70 30-70 20-70 13-45 20-41 18-42
Lymphocytes Number (K/mm ³) (Equivalent units: 10 ³ /μL)	0-30 days 1-6 mo. 6 mo.- 2 yrs. 2-6 yrs. 6-12 yrs. 12-18 yrs. 18-150 yrs.	0.8-8.5 1.2-8.8 1.1-7.5 0.5-5.0 0.8-3.4 0.4-3.2 1.0-4.8	0.8-8.5 1.2-8.8 1.1-7.5 0.5-5.0 0.8-3.4 0.4-3.2 1.0-4.8

Monocyte %	0-30 days 1-6 mo. 6 mo.- 2 yrs. 2-6 yrs. 6-12 yrs. 12-18 yrs. 18-150 yrs.	1-23 2-20 3-16 4-14 3-13 3-13 3.5-9.0	1-23 2-20 3-16 4-14 3-13 3-13 3.5-9.0
Monocyte Number (K/mm ³) (Equivalent units: 10 ³ /μL)	0-30 days 1mo.- 2 yrs. 2-18 yrs. 18-150 yrs.	0.1-5.0 0.2-2.7 0.3-1.3 0.1-0.9	0.1-5.0 0.2-2.7 0.3-1.3 0.1-0.9
HEMATOLOGY	Age	Male	Female
Eosinophil %	0-18 yrs 18-150 yrs.	0-6 1-3	0-6 1-3
Eosinophil Number (K/mm ³) (Equivalent units: 10 ³ /μL)	0-6 mo. 6mo.- 18 yrs. 18-150 yrs.	0.0-0.9 0.0-0.3 0.0-0.5	0.0-0.9 0.0-0.3 0.0-0.5
Basophil %	0-18 yrs. 18-150 yrs.	0-2 0-2	0-2 0-2
Basophil Number (K/mm ³) (Equivalent units: 10 ³ /μL)	0-18 yrs. 18-150 yrs	0.0-0.2 0.0-0.1	0.0-0.2 0.0-0.1
IG%	0-14 days 15-30 days ≥1 month	0.0-1.9 0.0-1.3 0.0-1.0	0.0-1.9 0.0-1.3 0.0-1.0
IG# (K/mm ³) (Equivalent units: 10 ³ /μL)	0-14 days 15-30 days ≥1 month	0-0.28 0-0.22 0-0.10	0-0.28 0-0.22 0-0.10
Metamyelocytes %	0-150 yrs	<1	<1
Myelocytes %	0-150 yrs	0	0
Promyelocytes %	0-150 yrs	0	0
Atypical Cells %	0-150 yrs	0	0