

General Hematology Reference Ranges v 01/24/2022

| CBC | | Differential | | |
|---------------|----------------------------------|---|-----------------|----------------------------|
| Parameter | Reference Range | Parameter | Reference Range | |
| WBC | x10³ cells/μL | Neutrophil | % | # |
| Newborn – 1M | 9.0-30.0 | Newborn – 1M | 32.0 – 62.0 | 1600 - 6115 |
| 1 M – 5M | 5.0-19.5 | 1 M – 5M | 15.0 – 35.0 | 750 - 3452 |
| 5 M – 2Y | 6.0-17.5 | 5 M – 2Y | 13.0 – 33.0 | 650 - 3255 |
| 2Y – 6Y | 5.0-15.5 | 2Y – 6Y | 15.0 – 35.0 | 750 - 3452 |
| 6Y – 12Y | 4.5-13.5 | 6Y – 12Y | 32.0 – 54.0 | 1600 - 5326 |
| >12 Y | 3.7-10.6 | >12 Y | 40.0 – 70.0 | 1500 - 7400 |
| RBC | x10⁶ cells/μL | Band | % | |
| <12 Y-Female | 4.10-5.10 | Newborn – 1M | 10.0 - 18.0 | |
| <12 Y-Male | 4.50-5.90 | 1 M – 5M | 7.0 – 13.0 | |
| >12 Y-Female | 3.70-5.10 | 5 M – 2Y | 6.0 – 12.0 | |
| >12 Y-Male | 3.70-5.90 | 2Y – 12Y | 5.0 – 11.0 | |
| | | >12Y | 0.0 – 8.0 | |
| HGB | g/dL | Lymphocyte | % | # |
| Newborn – 1M | 13.0-19.0 | Newborn – 1M | 26.0 – 36.0 | 1235 - 2864 |
| 1 M – 5M | 11.0-17.0 | 1 M – 5M | 41.0 – 71.0 | 1948 - 5648 |
| 5 M – 2Y | 11.0-14.0 | 5 M – 2Y | 46.0 – 76.0 | 2185 - 6045 |
| 2Y – 6Y | 11.0-13.0 | 2Y – 6Y | 44.0 – 74.0 | 2090 - 5886 |
| 6Y – 12Y | 11.0-15.0 | 6Y – 12Y | 27.0 – 57.0 | 1283 - 4534 |
| >12 Y-Female | 11.5-15.5 | >12Y | 12.0 – 50.0 | 950 - 3500 |
| >12 Y-Male | 11.5-18.0 | | | |
| HCT | % | Monocyte | % | # |
| Newborn – 1M | 42.0-60.0 | Newborn – 1M | 1.0 – 11.0 | 75 - 862 |
| 1 M – 5M | 33.0-55.0 | 1 M – 5M | 2.0 – 12.0 | 150 - 940 |
| 5 M – 2Y | 31.0-41.0 | 5 M – 12Y | 0.0 – 10.0 | 0 - 783 |
| 2Y – 6Y | 34.0-40.0 | >12Y | 2.0 – 14.0 | 150 - 940 |
| 6Y – 12Y | 35.0-45.0 | | % | |
| >12 Y-Female | 34.0-46.0 | Reactive Lymphocyte | | |
| >12 Y-Male | 35.0-50.0 | All Population | 0.0-6.0 | |
| MCV | fL | | | |
| Newborn – 1M | 98.0-118.0 | Eosinophil | % | # |
| 1 M – 5M | 91.0-111.0 | Newborn – 12Y | 0.0 – 7.0 | 0 - 642 |
| 5 M – 2Y | 68.0-84.0 | >12Y | 0.0 – 6.0 | 0 - 550 |
| 2Y – 6Y | 75.0-87.0 | | | |
| 6Y – 12Y | 77.0-95.0 | Basophil | % | # |
| >12Y | 81.0-99.0 | All populations | 0.0 – 3.0 | 0 - 175 |
| MCH | pg | Immature Granulocytes (IG) | 0.0-3.0 | 0 - 150 |
| Newborn-1M | 27.0-33.0 | Blasts | 0.0 | 0 |
| >1M | 27.0-33.5 | NRBC | 0.0 | 0 |
| MCHC | g/dL | | | |
| Newborn-1M | 32.0-35.0 | Reticulocyte | % | # (x10⁶) |
| >1M | 31.5-35.5 | Newborn – 1M | 3.0 – 7.0 | 0.12 – 0.41 |
| RDW-SD | 37.3-49.0 fL | 1M - 5M | 0.1 – 1.7 | 0.00 – 0.12 |
| PLT | x 10³ cells/μL | 5M – 2Y | 0.7 – 2.3 | 0.04 – 0.12 |
| 0-12Y | 140-350 | 2Y – 12Y | 0.5 – 1.0 | 0.04 – 0.06 |
| >12Y | 140-425 | >12Y | 0.6- 2.3 | 0.04- 0.12 |
| MPV | 8.0 – 12.0 fL | Reticulocyte Hemoglobin Equivalent | 30.8-36.6 pg | |
| IPF% | 1.2-8.6% | Immature Reticulocyte Fraction | 2.3-15.9 % | |
| IPF # | 3.6-20x10 ³ cells/uL | | | |

| Population | Units | Reference Range |
|--|-------|-----------------|
| ESR-Automated Male and Female ≤ 50 years old | mm/hr | ≤15 |
| ESR- Automated Male and Female > 50 years old | mm/hr | ≤30 |
| ESR-MANUAL METHOD | | |
| Male ≤ 50 years old | mm/hr | ≤ 15 |
| Female ≤ 50 years old | mm/hr | ≤ 20 |
| Male > 50 years old | mm/hr | ≤ 20 |
| Female > 50 years old | mm/hr | ≤ 30 |