

Test Name and Unit	Age	Ref Range Female	Ref Range Male	Critical Value
WBC x10E9/L	Up to 6 Days	8.0-38.0	8.0-38.0	<1.0 or >50.0
	Up to 14 Days	6.0-17.0	6.0-17.0	<1.0 or >50.0
	Up to 1 Month	5.0-16.0	5.0-16.0	<1.0 or >50.0
	Up to 2 Years	5.0-15.0	5.0-15.0	<1.0 or >50.0
	Up to 5 Years	5.0-14.0	5.0-14.0	<1.0 or >50.0
	Up to 8 Years	5.0-13.0	5.0-13.0	<1.0 or >50.0
	Up to 12 Years	5.0-12.0	5.0-12.0	<1.0 or >50.0
	> 12 Years	5.0-10.0	5.0-10.0	<1.0 or >50.0
RBC x10E12/L	Up to 6 Days	4.10-7.50	4.10-7.50	<2.00
	Up to 14 Days	3.90-6.80	3.90-6.80	<2.00
	Up to 1 Month	4.50-5.50	4.50-5.50	<2.00
	Up to 2 Months	4.20-5.20	4.20-5.20	<2.00
	Up to 6 Months	3.60-4.60	3.60-4.60	<2.00
	Up to 1 Years	4.00-5.00	4.00-5.00	<2.00
	Up to 12 Years	3.70-4.90	3.70-4.90	<2.00
	> 12 Years	3.90-5.10	4.20-5.60	<2.00
Hemoglobin g/dL	Up to 6 Days	14.0-24.0	14.0-24.0	<6.0 or >25.0
	Up to 14 Days	13.0-23.0	13.0-23.0	<6.0 or >25.0
	Up to 1 Month	15.0-20.0	15.0-20.0	<6.0 or >22.0
	Up to 2 Months	11.0-17.0	11.0-17.0	<6.0 or >22.0
	Up to 3 Months	11.0-14.0	11.0-14.0	<6.0 or >22.0
	Up to 6 Months	11.0-13.0	11.0-13.0	<6.0 or >22.0
	Up to 1 Years	11.0-14.5	11.0-14.5	<6.0 or >22.0
	Up to 2 Years	11.0-13.8	11.0-13.8	<6.0 or >22.0
	Up to 5 Years	11.1-14.4	11.1-14.4	<6.0 or >22.0
	Up to 8 Years	11.5-14.3	11.5-14.3	<6.0 or >22.0
	Up to 12 Years	11.9-14.8	11.9-14.8	<6.0 or >22.0
	Up to 15 Years	11.8-15.0	12.5-16.0	<6.0 or >22.0
	Up to 18 Years	12.0-15.3	13.3-16.6	<6.0 or >22.0
	> 18 Years	12.0-15.5	13.5-17.3	<6.0 or >22.0
Hematocrit %	Up to 6 Days	44.0-64.0	44.0-64.0	<20.0 or >67.0
	Up to 13 Days	41.0-61.0	41.0-61.0	<20.0 or >67.0
	Up to 1 Month	40.0-60.0	40.0-60.0	<20.0 or >67.0
	Up to 3 Months	35.0-45.0	35.0-45.0	<20.0 or >67.0
	Up to 1 Years	30.0-40.0	30.0-40.0	<20.0 or >67.0
	Up to 2 Years	33.0-40.0	33.0-40.0	<20.0 or >67.0
	Up to 5 Years	33.0-42.0	33.0-42.0	<20.0 or >67.0
	Up to 12 Years	35.0-43.0	35.0-43.0	<20.0 or >67.0
	Up to 15 Years	36.0-44.0	37.0-45.0	<20.0 or >67.0
	> 15 Years	36.0-44.0	40.0-48.0	<20.0 or >67.0

Test Name and Unit	Age	Ref Range Female	Ref Range Male	Critical Value
MCV fL	Up to 6 Days Up to 14 Days Up to 1 Month Up to 3 Months Up to 6 Months Up to 1 Years Up to 3 Years Up to 6 Years Up to 9 Years Up to 12 Years Up to 15 Years Up to 18 Years > 18 Years	85-125 89-110 94-110 80-110 75-85 73-83 73-88 73-91 74-92 76-94 73-95 78-98 81-100	85-125 89-110 94-110 80-110 75-85 73-83 73-88 73-91 74-92 76-94 77-94 79-95 80-99	None
MCH pg	Up to 7 Days Up to 1 Month Up to 6 Months Up to 1 Years Up to 3 Years Up to 9 Years Up to 15 Years Up to 18 Years > 18 Years	31-37 28-40 25-34 23-33 22-30 25-31 26-32 26-34 27-34	31-37 28-40 25-34 23-33 22-30 25-31 26-32 27-32 27-34	None
MCHC g/dL	Up to 3 Days Up to 3 Months Up to 1 Years Up to 3 Years Up to 12 Years Up to 15 Years Up to 18 Years > 18 Years	28-36 28-38 30-36 32-38 32-37 32-36 32-36 32-36	28-36 28-38 30-36 32-38 32-37 32-37 32-36 32-37	None
Platelet Count x10E9/L	ALL	150-400	150-400	<50 or >910
nRBC, Relative %	ALL	0.0 - 0.0	0.0 - 0.0	None
nRBC, Absolute x10E9/L	ALL	0.00 - 0.00	0.00 - 0.00	None
Immature Granulocytes, Relative %	ALL	0.0-10.0	0.0-10.0	None
Immature Granulocytes, Absolute x10E9/L	ALL	0.00 - 0.80	0.00 - 0.80	None

Test Name and Unit	Age	Ref Range Female	Ref Range Male	Critical Value
Neutrophils, Relative %	Up to 7 Days Up to 14 Days Up to 1 Month Up to 4 Months Up to 6 Months Up to 8 Months Up to 1 Years Up to 2 Years Up to 4 Years Up to 6 Years Up to 8 Years Up to 10 Years Up to 12 Years Up to 14 Years Up to 20 Years > 20 Years	32.0-62.0 19.0-49.0 14.0-44.0 15.0-35.0 14.0-34.0 13.0-33.0 12.0-32.0 13.0-33.0 15.0-35.0 23.0-45.0 32.0-54.0 34.0-56.0 31.0-61.0 32.0-62.0 34.0-64.0 36.0-66.0	32.0-62.0 19.0-49.0 14.0-44.0 15.0-35.0 14.0-34.0 13.0-33.0 12.0-32.0 13.0-33.0 15.0-35.0 23.0-45.0 32.0-54.0 34.0-56.0 31.0-61.0 32.0-62.0 34.0-64.0 36.0-66.0	None
Neutrophils, Absolute x10E9/L	Up to 7 Days Up to 14 Days Up to 1 Month Up to 4 Months Up to 6 Months Up to 1 Years Up to 4 Years Up to 6 Years Up to 8 Years Up to 10 Years Up to 12 Years Up to 14 Years Up to 20 Years Up to 21 Years > 21 Years	2.60-23.60 1.10-8.30 0.70-7.00 0.80-5.30 0.80-5.10 0.80-5.00 0.80-4.90 1.30-5.90 1.60-7.00 1.70-7.00 1.60-7.30 1.60-6.20 1.70-6.40 1.80-8.00 1.80-6.50	2.60-23.60 1.10-8.30 0.70-7.00 0.80-5.30 0.80-5.10 0.80-5.00 0.80-4.90 1.30-5.90 1.60-7.00 1.70-7.00 1.60-7.30 1.60-6.20 1.70-6.40 1.80-8.00 1.80-6.50	<0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50
Lymphocytes, Relative %	Up to 7 Days Up to 14 Days Up to 1 Month Up to 2 Months Up to 4 Months Up to 6 Months Up to 8 Months Up to 10 Months Up to 1 Years Up to 2 Years Up to 4 Years	26.0-36.0 36.0-46.0 43.0-53.0 41.0-71.0 42.0-72.0 44.0-74.0 46.0-76.0 47.0-77.0 48.0-78.0 46.0-76.0 44.0-74.0	26.0-36.0 36.0-46.0 43.0-53.0 41.0-71.0 42.0-72.0 44.0-74.0 46.0-76.0 47.0-77.0 48.0-78.0 46.0-76.0 44.0-74.0	None

Test Name and Unit	Age	Ref Range Female	Ref Range Male	Critical Value
	Up to 5 Years Up to 6 Years Up to 8 Years Up to 10 Years Up to 14 Years Up to 16 Years Up to 20 Years Up to 21 Years > 21 Years	35.0-65.0 31.0-41.0 27.0-57.0 24.0-54.0 28.0-48.0 27.0-47.0 25.0-45.0 23.0-43.0 24.0-44.0	35.0-65.0 31.0-41.0 27.0-57.0 24.0-54.0 28.0-48.0 27.0-47.0 25.0-45.0 23.0-43.0 24.0-44.0	
Lymphocytes, Absolute x10E9/L	Up to 1 Day Up to 7 Days Up to 14 Days Up to 1 Month Up to 1 Years Up to 5 Years Up to 6 Years Up to 8 Years Up to 10 Years Up to 14 Years Up to 16 Years Up to 20 Years Up to 21 Years > 21 Years	2.10-13.70 2.10-6.10 2.20-2.80 2.10-8.50 2.10-10.70 2.30-10.40 1.60-5.30 1.60-7.00 1.20-5.80 1.40-5.80 1.30-5.70 1.30-5.60 1.20-5.50 1.30-5.40	2.10-13.70 2.10-6.10 2.20-2.80 2.10-8.50 2.10-10.70 2.30-10.40 1.60-5.30 1.60-7.00 1.20-5.80 1.40-5.80 1.30-5.70 1.30-5.60 1.20-5.50 1.30-5.40	None
Monocytes, Relative %	Up to 2 Days Up to 3 Days > 3 Days	5.0-15.0 5.0-20.0 1.0-10.0	5.0-15.0 5.0-20.0 1.0-10.0	None
Monocytes, Absolute x10E9/L	Up to 2 Days Up to 3 Days Up to 18 Years > 18 Years	0.40-5.70 0.40-3.40 0.10-2.00 0.10-1.00	0.40-5.70 0.40-3.40 0.10-2.00 0.10-1.00	None
Eosinophils, Relative %	ALL	0.0-10.0	0.0-10.0	None
Eosinophils, Absolute x10E9/L	ALL	0.00-0.80	0.00-0.80	None
Basophils, Relative %	ALL	0.0-5.0	0.0-5.0	None
Basophils, Absolute x10E9/L	ALL	<0.00 or >0.40	<0.00 or >0.40	None

Test Name and Unit	Age	Ref Range Female	Ref Range Male	Critical Value
Reticulocyte Count, Relative %	Up to 13 Days > 13 Days	2.50-6.50 0.50-1.50	2.50-6.50 0.50-1.50	None
Reticulocyte Count, Absolute x10E12/L	Up to 5 Days Up to 1 Year Up to 3 Years Up to 8 Years Up to 12 Years > 12 Years	0.167-0.447 0.046-0.133 0.037-0.145 0.044-0.152 0.045-0.146 0.036-0.159	0.167-0.447 0.046-0.133 0.037-0.145 0.044-0.152 0.045-0.146 0.036-0.159	None
Immature Reticulocyte Fraction %	ALL	6.10-23.70	6.10-23.70	None
CSF RBC /mm ³	ALL	0	0	None
CSF TNC (Total Nucleated Cells) /mm ³	ALL	0-10	0-10	>10