



## Hematology Age Related Reference Ranges and Critical Values

COMPLETE BLOOD COUNT AND DIFFERENTIAL					
TEST	GENDER	AGE	REFERENCE RANGE	CRITICAL VALUE	
				LOW	HIGH
<b>WBC</b>	M/F	0 - 2 months 2 months - 5 years 5 - 11 years >11 years	5.00-20.00 x 10 <sup>3</sup> /μL 4.50-17.00 x 10 <sup>3</sup> /μL 4.50-13.00 x 10 <sup>3</sup> /μL 4.00-10.00 x 10 <sup>3</sup> /μL	<1.00 x 10 <sup>3</sup> /μL (all ages)	>30.00 x 10 <sup>3</sup> /μL (all ages)
<b>RBC</b>	M/F  Male Female	0 - 6 months 6 months - 11 years >11 years >11 years	3.90-5.90 x 10 <sup>6</sup> /μL 3.80-5.40 x 10 <sup>6</sup> /μL 4.31-6.40 x 10 <sup>6</sup> /μL 3.85-5.20 x 10 <sup>6</sup> /μL	None	
<b>Hemoglobin</b>	M/F  Male Female	0 - 2 months 2 months - 11 years >11 years >11 years	14.0-18.0 gm/dL 11.0-14.0 gm/dL 13.6-18.0 gm/dL 11.5-16.0 gm/dL	<10.0 gm/dL <6.0 gm/dL <6.0 gm/dL <6.0 gm/dL	None
<b>Hematocrit</b>	M/F  Male Female	0 - 2 weeks 2 weeks - 2 months 2 months - 1 year 1 - 5 years >5 years >5 years	42.0-68.0% 35.0-50.0% 30.0-40.0% 32.0-42.0% 39.8-52.0% 34.7-46.0%	<30.0% <18.0% <18.0% <18.0% <18.0% <18.0%	None
<b>MCV</b>	M/F	0 - 2 weeks 2 weeks - 6 months 6 months - 11 years >11 years	88.0-114.0 fL 85.0-97.0 fL 72.0-86.6 fL 80.0-97.0 fL	None	
<b>MCH</b>	M/F	0 - 2 weeks 2 weeks - 6 months 6 months - 5 years >5 years	34.0-37.0 pg 31.0-36.0 pg 25.0-31.0 pg 26.0-34.0 pg	None	
<b>MCHC</b>	M/F	0 - 2 weeks 2 weeks - 6 months >6 months	31.0-35.0 gm/dL 32.0-35.0 gm/dL 32.0-36.0 gm/dL	None	
<b>RDW</b>	M/F	0 - 2 days >2 days	14.9-18.7 % 11.5-15.0 %	None	
<b>Platelet</b>	M/F	0 - 2 months >2 months	140-440 x 10 <sup>3</sup> /μL 140-440 x 10 <sup>3</sup> /μL	<100 x 10 <sup>3</sup> /μL <25 x 10 <sup>3</sup> /μL	>1,000 x 10 <sup>3</sup> /μL >1,000 x 10 <sup>3</sup> /μL
<b>MPV</b>	M/F	All Ages	6.5-12.4 fL	None	



COMPLETE BLOOD COUNT AND DIFFERENTIAL					
TEST	GENDER	AGE	REFERENCE RANGE	CRITICAL VALUE	
				LOW	HIGH
<b>Neutrophils Percent</b>	M/F	0 - 6 days 6 days - 1 year 1 - 11 years >11 years	37.0-70.0 % 15.0-55.0 % 30.0-65.0 % 37.0-80.0 %	None	
<b>Neutrophils, Absolute</b>	M/F	0 - 6 days 6 days - 2 months 2 months - 1 year 1 - 5 years 5 - 11 years >11 years	1.50-16.00 x 10 <sup>3</sup> /μL 0.80-9.00 x 10 <sup>3</sup> /μL 0.70-7.60 x 10 <sup>3</sup> /μL 1.50-11.00 x 10 <sup>3</sup> /μL 1.50-8.50 x 10 <sup>3</sup> /μL 1.50-8.00 x 10 <sup>3</sup> /μL	<0.50 x 10 <sup>3</sup> /μL (all ages)	None
<b>Lymphocytes Percent</b>	M/F	0 - 6 days 6 days - 5 year 5 - 11 years >11 years	20.0-50.0 % 40.0-70.0 % 20.0-60.0 % 16.0-51.0 %	None	
<b>Lymphocytes, Absolute</b>	M/F	0 - 6 days 6 days - 5 years 5 - 11 years >11 years	0.50-10.00 x 10 <sup>3</sup> /μL 2.00-14.00 x 10 <sup>3</sup> /μL 1.00-7.80 x 10 <sup>3</sup> /μL 0.80-4.00 x 10 <sup>3</sup> /μL	None	
<b>Monocytes Percent</b>	M/F	All Ages	0.0-12.0 %	None	
<b>Monocytes, Absolute</b>	M/F	0 - 2 months 2 months - 5 years 5 - 11 years > 11 years	0.00-2.40 x 10 <sup>3</sup> /μL 0.00-2.00 x 10 <sup>3</sup> /μL 0.00-1.60 x 10 <sup>3</sup> /μL 0.00-1.20 x 10 <sup>3</sup> /μL	None	
<b>Eosinophils Percent</b>	M/F	All Ages	0.0-8.0 %	None	
<b>Eosinophils, Absolute</b>	M/F	0 - 2 months 2 months - 5 years 5 - 11 years >11 years	0.00-1.40 x 10 <sup>3</sup> /μL 0.00-1.20 x 10 <sup>3</sup> /μL 0.00-0.90 x 10 <sup>3</sup> /μL 0.00-0.30 x 10 <sup>3</sup> /μL	None	
<b>Basophils Percent</b>	M/F	All Ages	0.0-3.0 %	None	
<b>Basophils, Absolute</b>	M/F	0 - 2 months 2 months - 5 years 5 - 11 years >11 years	0.00-0.60 x 10 <sup>3</sup> /μL 0.00-0.50 x 10 <sup>3</sup> /μL 0.00-0.40 x 10 <sup>3</sup> /μL 0.00-0.30 x 10 <sup>3</sup> /μL	None	

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COMPLETE BLOOD COUNT AND DIFFERENTIAL					
TEST	GENDER	AGE	REFERENCE RANGE	CRITICAL VALUE	
				LOW	HIGH
<b>Immature Granulocytes (IG) Percent</b>	M/F	0 – 14 days 15 – 30 days >30 days	0.0-1.9 % 0.0-1.3 % 0.0-1.0 %	None	
<b>Immature Granulocytes (IG) Absolute</b>	M/F	0 – 14 days 15 – 30 days >30 days	0.00-0.28 x 10 <sup>3</sup> /μL 0.00-0.22 x 10 <sup>3</sup> /μL 0.00-0.10 x 10 <sup>3</sup> /μL	None	
<b>NRBC Percent (NRBC/100 WBC)</b>	M/F	All Ages	0.0 – 0.2 /100 WBC	None	
<b>NRBC Absolute</b>	M/F	All Ages	0.00-0.01 x 10 <sup>3</sup> /μL	None	
<b>Blasts</b>	The presence of <b>blasts</b> is a critical value on all new (unknown) patients. When a hematology specimen requires a smear review, the turnaround time for the critical value is 30 minutes. The definition for turnaround time for smear review begins when the review is reflexed and ends with the verification of the smear.				

RETICULOCYTE				
TEST	GENDER	AGE	REFERENCE RANGE	CRITICAL VALUE
<b>Reticulocyte Percent</b>	M/F	0 - 14 days >14 days	2.5-6.5% 0.5-2.0%	None
<b>Reticulocyte Absolute</b>	M/F Male Female	0 - 14 days >14 days >14 days	95.0-385.0 x 10 <sup>3</sup> /μL 20.0-130.0 x 10 <sup>3</sup> /μL 20.0-100.0 x 10 <sup>3</sup> /μL	None
<b>Immature Reticulocyte Fraction (IRF)</b>	M/F	All Ages	3.0-15.5%	None
<b>Reticulocyte Hemoglobin (RET-He)</b>	M/F	All Ages	29.0-38.0 pg	None



IMMATURE PLATELET FRACTION (IPF)				
TEST	GENDER	AGE	REFERENCE RANGE	CRITICAL VALUE
Immature Platelet Fraction Percent	M/F	All Ages	1.0-7.5%	None
Immature Platelet Fraction Absolute	M/F	All Ages	2.9-22.0 x10 <sup>3</sup> /uL	None

MISCELLANEOUS HEMATOLOGY				
TEST	GENDER	AGE	REFERENCE RANGE	CRITICAL VALUE
ESR	Male	All Ages	0-15 mm/hr	None
	Female	All Ages	0-20 mm/hr	

BODY FLUIDS					
FLUID	GENDER	AGE	WBC	RBC	CRITICAL VALUE
CSF	M/F	<1 month	≤30/μL Mononuclear Cells	No Cells	WBC >30/μL
CSF	M/F	>1 month	≤5/μL Mononuclear Cells	No Cells	WBC >10/μL

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