

# Hematology

TEST	Age/Sex	Units	Reference Ranges	
<b>WBC</b> <b>514/WBC</b>  (newborn defined as 0-28 days)	0-3 D	10 <sup>3</sup> /cumm	9.0-35.0	
	4-9 D		5.0-21.0	
	10-14 D		5.0-20.0	
	15-30 D		5.0-19.5	
	1-6 M		6.0-17.5	
	7-24 M		6.0-17.0	
	25-60 M		5.5-15.5	
	5-8 Y		5.0-14.5	
	9-12 Y		4.5-13.5	
	13-18 Y		4.5-13.0	
	ADULT		4.5-11.0	
	<b>RBC</b>	1 day	10 <sup>6</sup> /cumm	4.00-6.60
		1 week		3.90-6.30
2 week			3.60-6.20	
1 mo			3.00-5.40	
2 mo			2.70-4.90	
3-6 mo			3.10-4.50	
0.5- 2 Y			3.70-5.30	
2-6 Y			3.90-5.30	
6-12 Y			4.00-5.20	
12-18 Y- M			4.50-5.30	
>18 Y- M			4.30-5.90	
12-18 Y-F			4.10-5.10	
>18 Y-F			4.00-5.20	
<b>HGB</b> <b>450/HGB</b>	1 day	gm/dl	14.5-22.5	
	1 wk		13.5-19.5	
	2 wk		12.5-20.5	
	1 mo		10.0-18.0	
	2 mo		9.0-14.0	
	3-6 mo		9.5-13.5	
	0.5- 2 Y		10.5-13.5	
	2-6 Y		11.5-15.5	
	6-12 Y		11.5-15.6	
	12-18 Y- M		13.0-16.0	
	>18 Y- M		13.5-17.5	
	12-18 Y-F		12.0-16.0	
	>18 Y-F		12.0-16.0	

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<b>HCT</b> 448/HCT	1 day	%	45-67
	1 wk		42-66
	2 wk		39-63
	1 mo		31-55
	2 mo		28-42
	3-6 mo		29-41
	0.5- 2 Y		33-49
	2-6 Y		34-40
	6-12 Y		35-45
	12-18 Y- M		36-51
	>18 Y- M		37-53
	12-18 Y-F		33-51
	>18 Y-F		33-51
<b>MCV</b>	1 day	fl	95-121
	1 wk		88-126
	2 wk		86-124
	1 mo		85-123
	2 mo		77-115
	3-6 mo		74-108
	0.5- 2 Y		70-86
	2-6 Y		75-87
	6-12 Y		77-95
	12-18 Y- M		78-98
	>18 Y- M		80-100
	12-18 Y-F		78-102
	>18 Y-F		80-100
<b>MCH</b>	1 day	pg	31-37
	1 wk		28-40
	2 wk		28-40
	1 mo		28-40
	2 mo		26-34
	3-6 mo		25-35
	0.5- 2 Y		23-31
	2-6 Y		24-30
	6-12 Y		25-33
	12-18 Y		25-35
	>18 Y		26-34

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<b>MCHC</b>	1 day	%	29-37
	1 wk		28-38
	2 wk		28-38
	1 mo		29-37
	2 mo		29-37
	3-6 mo		30-36
	0.5- 2 Y		30-36
	2-6 Y		32-36
	6-12 Y		32-36
	12-18 Y		32-36
	>18 Y		32-36
<b>PLATELETS</b> <b>484/PLT</b>	All ages	10 <sup>3</sup> /cumm	140-440
<b>MPV</b>	All ages	fl	6.5-11.0
<b>RDW-CV</b>	All ages	%	11.5-15.5
<b>RDW-SD</b>	All ages		39.0-47.0
<b>Neutrophil</b>	0-3 D	%	32-62
	4-9 D		19-49
	10-14 D		14-34
	15-30 D		15-35
	1-6 M		13-33
	7-24 M		15-35
	25-60 M		23-45
	5-8 Y		32-54
	18Y		33-64
	ADULT		42-72
<b>Neutrophil Absolute</b>	0-3 D	#	6-26.0
	4-9 D		1.5-10
	10-14 D		1.0-9.5
	15-30 D		1.0-9.0
	1-6 M		1.0-8.5
	7-24 M		1.5-8.5
	25-60 M		1.5-8.0
	5-8 Y		1.8-8.0
	18Y		1.5-8.0
	ADULT		1.7-7.0

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TEST	Age/Sex	Units	Reference Ranges
<b>Lymphocyte</b>	0-3 D	%	19-29
	4-9 D		26-36
	10-14 D		36-45
	15-30 D		43-53
	1-6 M		41-71
	7-24 M		45-76
	25-60 M		35-65
	5-8 Y		28-48
	18Y		25-48
	ADULT		20-44
	<b>Lymphocyte Absolute</b>	0-3 D	#
4-9 D			2.0-17
10-30 D			2.5-16.5
1-6 M			4-13.5
7-24 M			4-10.5
25-60 M			2.0-10.0
5-8 Y			1.5-7.0
18Y			1.2-6.5
ADULT			0.9-2.9
<b>Monocyte</b>		0-9 D	%
	10-30 D		7-11
	1M-16Y		3-7
	ADULT		0-11
<b>Monocyte Absolute</b>	0-9 D	#	0.4-1.8
	10-30 D		0.1-1.1
	1M-16Y		<0.8
	ADULT		<0.9
<b>Eosinophil</b>	1-6 M	%	0-2
	6M-18Y		0-3
	>18Y		0-7
<b>Eosinophil Absolute</b>	1-6 M	#	<0.9
	6M-18Y		<0.7
	>18Y		<0.5

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<b>Basophil</b>	0-6yr	%	<1.0
	>6yr		<3.0
<b>Basophil Absolute</b>	0-6yr	#	<0.2
	>6yr		<0.3
<b>Band Cells</b>	0-3 D	%	0-18
	4-9 D		0-15
	10-14 D		0-14
	15-30 D		0-12
	1-6 M		0-12
	7-24 M		0-11
	25-60 M		0-11
	5-8 Y		0-11
	18Y		0-11
	ADULT		0-11
<b>Band Cells</b>	0-3 D	#	<3.5
	4-9 D		<1.0
	10-14 D		<1.0
	15-30 D		<1.0
	1-6 M		<1.0
	7-24 M		<1.0
	25-60 M		<1.0
	5-8 Y		<1.0
	18Y		<1.0
	ADULT		<1.0
<b>Meta Myelocytes</b>	All ages	#	<0.1
<b>Myelocytes</b>	All ages	#	<0.1
<b>Pro Myelocytes</b>	All ages	#	<0.1
<b>Blasts</b>	All ages	%	None Seen
<b>Reticulocytes</b>	0-3 D	%	3-7
	ADULT	%	0.5-1.5
<b>Retic Absolute</b>	All ages	#	0.03-0.08
<b>Retic IRF</b>	All ages	%	5-25

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TEST	Age/Sex	Units	Reference Ranges
<b>Sed Rate (ESR)</b> <b>503/ESR</b>	0-50-M	mm/hr	<15
	>50 M		<20
	0-50-F		<20
	>50F		<30
<b>Spinal Fluid-Lymph</b>			
	1 yr	%	5-35
<b>CSF</b>	>1 yr		40-80
<b>Spinal Fluid-Mono</b>			
	1 yr	%	50-90
<b>CSF</b>	>1 yr		15-45
<b>Spinal Fluid-Neutrophils</b>			
<b>CSF</b>	All ages	%	0-5