

## ALLINA MEDICAL LABORATORIES

### HEMATOLOGY REFERENCE RANGES

TEST	Age/Sex	Units	Reference Range		Critical
			Old	New	
WBC (newborn defined as 0-28 days)	0-3 D	10 <sup>3</sup> /cumm	9.0-30.0	9.0-35.0	<5 >30
	4-9 D			5.0-21.0	<5 >30
	10-14 D		5.0-15.0	5.0-20.0	<5 >30
	15-30 D		6.0-11.0	5.0-19.5	<5 >30
	1-6 M			6.0-17.5	<2 >50
	7-24 M		4.0-12.0	6.0-17.0	<2 >50
	25-60 M			5.5-15.5	<2 >50
	5-8 Y		4.5-11.0	5.0-14.5	<2 >50
	9-12 Y			4.5-13.5	<2 >50
	13-18 Y		4.5-11.0	4.5-13.0	<2 >50
ADULT		4.5-11.0	4.5-11.0	<2 >50	
RBC	1 day	10 <sup>6</sup> /cumm	3.9-5.5	4.00-6.60	
	1 week		3.9-5.5	3.90-6.30	
	2 week		3.9-5.5	3.60-6.20	
	1 mo		3.9-5.5	3.00-5.40	
	2 mo			2.70-4.90	
	3-6 mo		3.1-4.5	3.10-4.50	
	0.5- 2 Y		3.7-6.0	3.70-5.30	
	2-6 Y		4.1-5.3	3.90-5.30	
	6-12 Y		4.2-5.1	4.00-5.20	
	12-18 Y- M		4.4-5.5	4.50-5.30	
	>18 Y- M		4.3-5.7	4.30-5.90	
	12-18 Y-F		4.1-5.2	4.10-5.10	
	>18 Y-F		3.9-5.0	4.00-5.20	
HGB	1 day	gm/dl	13.5-22.0	14.5-22.5	<13.5>24.0
	1 wk		13.5-22.0	13.5-19.5	<13.5>24.0
	2 wk		13.5-22.0	12.5-20.5	<10.0>24.0
	1 mo		13.5-22.0	10.0-18.0	<8.0>24.0
	2 mo			9.0-14.0	<8.0>24.0
	3-6 mo		10.0-14.0	9.5-13.5	<8.0>20.0
	0.5- 2 Y			10.5-13.5	<8.0>20.0
	2-6 Y		10.5-13.5	11.5-15.5	<8.0>20.0
	6-12 Y		12.0-14.0	11.5-15.6	<8.0>20.0
	12-18 Y- M		12.8-16.0	13.0-16.0	<8.0>20.0
	>18 Y- M		13.5-17.5	13.5-17.5	<8.0>20.0
	12-18 Y-F		12.2-14.8	12.0-16.0	<8.0>20.0
	>18 Y-F		12.0-15.5	12.0-16.0	<8.0>20.0
HCT	1 day	%	42-60	45-67	
	1 wk		42-60	42-66	
	2 wk		42-60	39-63	
	1 mo		42-60	31-55	<21.0 >65
	2 mo			28-42	
	3-6 mo		28-42	29-41	
	0.5- 2 Y		33-40	33-49	
	2-6 Y		33-45	34-40	
	6-12 Y		35.8-43	35-45	
	12-18 Y- M		37.3-47.3	36-51	
	>18 Y- M		38.8-50	37-53	
	12-18 Y-F		36.3-43.4	33-51	
	>18 Y-F		34.9-44.5	33-51	

# ALLINA MEDICAL LABORATORIES

## HEMATOLOGY REFERENCE RANGES

TEST	Age/Sex	Units	Reference Range		Critical
			Old	New	
MCV	1 day	fl	98-120	95-121	
	1 wk		98-120	88-126	
	2 wk		98-120	86-124	
	1 mo		98-120	85-123	
	2 mo			77-115	
	3-6 mo		77-110	74-108	
	0.5- 2 Y		74-89	70-86	
	2-6 Y		74-89	75-87	
	6-12 Y		77-91	77-95	
	12-18 Y- M		81-92	78-98	
	>18 Y- M		81-95	80-100	
	12-18 Y-F		80-92	78-102	
>18 Y-F		82-98	80-100		
MCH	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	
	MCHC	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	
PLATELETS		1 wk	10 <sup>3</sup> /cumm	140-440	140-440
	Peds Onc.				<5,000
	>29d		140-440	140-440	<20>1,000,000
MPV	All ages	fl		6.5-11.0	
RDW-CV	All ages	%		11.5-15.5	
RDW-SD	All ages			39.0-47.0	

# ALLINA MEDICAL LABORATORIES

## HEMATOLOGY REFERENCE RANGES

TEST	Age/Sex	Units	Reference Range		Critical
			Old	New	
Neutrophil	0-3 D	%	32-62	32-62	
	4-9 D		32-62	19-49	
	10-14 D		32-62	14-34	
	15-30 D		32-62	15-35	
	1-6 M		15-35	13-33	
	7-24 M		15-35	15-35	
	25-60 M		15-35	23-45	
	5-8 Y		29-66	32-54	
	18Y		28-78	33-64	
ADULT		50-70	42-72		
Neutrophil Absolute	0-3 D	#	6.0-26	6.0-26.0	
	4-9 D		6.0-26	1.5-10	
	10-14 D		6.0-26	1.0-9.5	
	15-30 D		6.0-26	1.0-9.0	
	1-6 M		1.0-8.5	1.0-8.5	
	7-24 M		1.5-8.5	1.5-8.5	
	25-60 M		1.5-8.5	1.5-8.0	
	5-8 Y		1.5-8.0	1.8-8.0	
	18Y		1.8-8.0	1.5-8.0	
ADULT		1.7-7.0	1.7-7.0		
Lymphocyte	0-3 D	%	26-36	19-29	
	4-9 D		26-36	26-36	
	10-14 D		26-36	36-45	
	15-30 D		26-36	43-53	
	1-6 M		42-72	41-71	
	7-24 M		46-76	45-76	
	25-60 M		44-74	35-65	
	5-8 Y		23-64	28-48	
	18Y		20-40	25-48	
ADULT		25-45	20-44		
Lymphocyte Absolute	0-3 D	#	2.0-11	2.0-11.0	
	4-9 D		2.0-11	2.0-17	
	10-30 D		2.0-11	2.5-16.5	
	1-6 M		4.0-13.5	4-13.5	
	7-24 M		1.5-7.0	4-10.5	
	25-60 M		1.5-7.0	2.0-10.0	
	5-8 Y		1.5-6.5	1.5-7.0	
	18Y		1.2-5.2	1.2-6.5	
	ADULT		0.9-2.9	0.9-2.9	
Monocyte	0-9 D	%	0-6	5-7	
	10-30 D		0-6	7-11	
	1M-16Y		0-5	3-7	
	ADULT		0-11	0-11	
Monocyte Absolute	0-9 D	#	0-1.8	0.4-1.8	
	10-30 D		0.05-1.1	0.1-1.1	
	1M-16Y		0-0.8	<0.8	
	ADULT		0.3-0.9	<0.9	

# ALLINA MEDICAL LABORATORIES

## HEMATOLOGY REFERENCE RANGES

TEST	Age/Sex	Units	Reference Range		Critical
			Old	New	
Eosinophil	1-6 M	%	0-2	0-2	
	6M-18Y		0-3	0-3	
	>18Y		0-7	0-7	
Eosinophil Absolute	1-6 M	#	0.02-0.85	<0.9	
	6M-18Y		0.0-0.65	<0.7	
	>18Y		0.05-0.5	<0.5	
Basophil	0-6yr	%	0-1	<1.0	
	>6yr		0-3	<3.0	
Basophil Absolute	0-6yr	#	0-0.6	<0.2	
	>6yr		0-0.1	<0.3	
Band Cells	0-3 D	%	0-6	10-18	
	4-9 D		0-6	7-15	
	10-14 D		0-6	6-14	
	15-30 D		0-6	4-12	
	1-6 M		0-6	4-12	
	7-24 M		0-5	5-11	
	25-60 M		0-5	5-11	
	5-8 Y		0-11	5-11	
	18Y		0-11	5-11	
	ADULT		0-11	5-11	
Band Cells	0-3 D	#	<3.5	<3.5	
	4-9 D		<1.0	<1.0	
	10-14 D		<1.0	<1.0	
	15-30 D		<1.0	<1.0	
	1-6 M		<1.0	<1.0	
	7-24 M		<1.0	<1.0	
	25-60 M		<1.0	<1.0	
	5-8 Y		<1.0	<1.0	
	18Y		<1.0	<1.0	
	ADULT		<1.0	<1.0	
Meta Myelocytes	All ages	#		<0.1	
Myelocytes	All ages	#		<0.1	
Pro Myelocytes	All ages	#		<0.1	
Blasts	All ages	%		None Seen	Any Seen
Reticulocytes	0-3 D	%		3-7	
	ADULT	%	0.5-1.5	0.5-1.5	
Retic Absolute	All ages	#		0.03-0.08	
Retic IRF	All ages	%		5-25	
Sed Rate (ESR)	0-50-M	mm/hr		<15	
	>50 M			<20	
	0-50-F			<20	
	>50F			<30	
Spinal Fluid- Lymph CSF	1 yr	%		5-35	>5
	>1 yr			40-80	>5
Spinal Fluid-Mono CSF	1 yr	%		50-90	>5
	>1 yr			15-45	>5