

## Normal ranges from University of Michigan laboratories

### HEMATOLOGY MANUAL DIFFERENTIAL

NORMAL VALUES (% BASED ON 100-CELL COUNT)

	<u>0-1</u> <u>mos</u>	<u>1-3</u> <u>mos</u>	<u>3-12</u> <u>mos</u>	<u>1-5</u> <u>yrs</u>	<u>5-16</u> <u>yrs</u>	<u>16-150</u> <u>yrs</u>
Neutrophils	32-62	14-34	13-33	32-54	34-64	40-70
Bands	0-9	0-3	0-5	0-5	0-6	0-15
Lymphocytes	26-36	47-74	46-76	27-57	25-45	20-50
Monocytes	3-8	3-8	3-8	3-8	3-8	3-8
Eosinophils	0-5	0-5	0-5	0-5	0-4	0-4
Basophils	0-2	0-2	0-2	0-2	0-2	0-2

### HEMATOLOGY AUTOMATED DIFFERENTIAL

NORMAL VALUES (% BASED ON COUNT OF THOUSANDS)

	<u>0-1</u> <u>mos</u>	<u>1-3</u> <u>mos</u>	<u>3-12</u> <u>mos</u>	<u>1-5</u> <u>yrs</u>	<u>5-16</u> <u>yrs</u>	<u>16-150</u> <u>yrs</u>
Neutrophils	42-80	20-46	18-44	37-65	39-75	36-75
Lymphocytes	26-36	44-74	46-76	27-57	25-45	20-50
Monocytes	3-8	3-8	3-8	3-8	3-8	3-10
Eosinophils	0-5	0-5	0-5	0-5	0-4	0-4
Basophils	0-2	0-2	0-2	0-2	0-2	0-2

### HEMATOLOGY AUTOMATED DIFFERENTIAL, ABSOLUTE COUNTS(K/CMM)

	<u>0-1 mos</u>	<u>1-3 mos</u>	<u>3-12 mos</u>	<u>1-5 yrs</u>	<u>5-16 yrs</u>	<u>16-150 yrs</u>
Neutrophils	3.8-24.0	1.2-8.3	1.1-7.5	2.2-9.8	1.8-10.1	1.4-7.5
Lymphocytes	2.3-10.8	2.6-13.3	2.8-12.9	1.6-8.6	1.1-6.1	0.8-5.0
Monocytes	0.3-2.7	0.2-1.4	0.2-1.4	0.2-1.2	0.1-1.1	0.1-1.0
Eosinophils	0-1.5	0-0.9	0-0.8	0-0.8	0-0.5	0-0.4
Basophils	0-0.6	0-0.4	0-0.3	0-0.3	0-0.3	0-0.2

### HEMATOLOGY BLOOD SURVEY REFERENCE RANGES

		<u>0-1 mo</u>	<u>1-3 mo</u>	<u>3-12 mo</u>	<u>1-5 yr</u>	<u>5-16 yr</u>	<u>16-150 yr</u>
WBC		9.0	6.0	6.0	6.0	4.5	4.0
x10 <sup>3</sup> /cmm		30.0	18.0	17.0	15.0	13.5	10.0
RBC	M	4.00	3.50	3.50	4.00	4.50	4.50
x10 <sup>6</sup> /cmm		5.90	4.90	4.80	5.10	5.50	5.90
	F	4.00	3.50	3.50	4.00	4.10	3.90
		5.90	4.90	4.80	5.10	5.20	5.30
Hgb	M	13	10	10	11	12.5	13
gm/dL		21	14	13	14	16	17.3
	F	13	10	10	11	11.5	12
		21	14	13	14	16	16
Hct	M	42	28	34	34	36	39
%		60	42	41	41	49	50.2
	F	42	28	34	34	34	35
		60	42	41	41	48	48
MCV fl		98	77	70	75	75	80

	120	115	90	90	95	100
MCH pg	30 42	26 38	24 32	24 32	24 35	25 35
MCHC%	30 37	for all ages				
RDW%	11.5 15.5	for all ages				
Plt x10 <sup>3</sup> /cmm	150 450	for all ages				