

Laboratory Reference Ranges

Hematology

Test	Reference Range		
	Age*	Gender	Range
WBC $\times 10^3/\mu\text{L}$	0d	M,F	9.0-35.0
	4d	M,F	5.0-21.0
	10d	M,F	5.0-20.0
	15d	M,F	5.0-19.5
	1m	M,F	6.0-17.5
	6m	M,F	6.0-17.0
	2y	M,F	5.5-15.5
	5y	M,F	5.0-14.5
	9y	M,F	4.5-13.5
	13y	M,F	4.5-13.0
	18y+	F	3.8-11.8
		M	3.6-10.2
RBC $\times 10^6/\mu\text{L}$	0d	M,F	3.30-6.30
	1d	M,F	4.00-6.60
	7d	M,F	3.90-6.30
	14d	M,F	3.60-6.20
	1m	M,F	3.00-5.40
	2m	M,F	2.70-4.90
	3m	M,F	3.10-4.50
	6m	M,F	3.70-5.30
	2y	M,F	3.90-5.30
	6y	M,F	4.00-5.20
	12y	F	4.10-5.10
		M	4.50-5.30
	18y+	F	3.63-4.92
		M	4.06-5.63
HGB g/dL	0d	M,F	14.5-22.5
	7d	M,F	13.5-19.5
	14d	M,F	12.5-20.5
	1m	M,F	10.0-18.0
	2m	M,F	9.0-14.0
	3m	M,F	9.5-13.5
	6m	M,F	10.5-13.5
	2y	M,F	11.5-15.5
	12y	F	11.5-14.3
		M	13.0-16.0
	18y+	F	11.5-14.3
		M	13.2-16.3

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PM

Test	Reference Range		
	Age	Gender	Range
HCT %	0d	M,F	42-66
	14d	M,F	39-63
	1m	M,F	31-55
	2m	M,F	28-42
	6m	M,F	33-39
	2y	M,F	34-40
	6y	M,F	35-45
	12y	M,F	36-45
	18y+	F	35-45
		M	38-53
MCV fL	0d	M,F	88-126
	14d	M,F	86-123
	1m	M,F	85-123
	2m	M,F	77-115
	3m	M,F	74-108
	6m	M,F	70-86
	2y	M,F	75-87
	6y	M,F	77-96
	18y+	M,F	80-97
MCH pg	0d	M,F	28-40
	2m	M,F	26-32
	3m	M,F	25-32
	6m	M,F	23-30
	2y	M,F	24-30
	6y	M,F	25-31
	12y	M,F	25-32
	17y+	M,F	27-33
MCHC g/dL	0d	M,F	29-37
	7d	M,F	28-38
	2m	M,F	28-36
	4m	M,F	29-37
	6m	M,F	32-37
	2y	M,F	30-36
	12y+	M,F	31-36
RDW %	0d+	M,F	12-17
PLT x10 ³ /μl	0d+	M,F	150-450
MPV fL	0d	M,F	6.8-11.3
	13y+	M,F	7.5-11.2

Test	Reference Range		
	Age	Gender	Range
#NE $\times 10^3/\mu\text{l}$	0d	M,F	3.0-28.0
	4d	M,F	1.0-13.0
	10d	M,F	1.0-10.0
	15d	M,F	1.0-9.0
	1m	M,F	1.0-8.0
	2y	M,F	1.5-8.5
	5y	M,F	1.5-9.0
	9y	M,F	1.5-9.5
	18y+	M,F	1.5-7.6
#LY $\times 10^3/\mu\text{l}$	0d	M,F	2.0-10.0
	4d	M,F	2.0-8.0
	10d	M,F	2.0-9.0
	15d	M,F	2.0-10.0
	1m	M,F	2.0-12.0
	6m	M,F	3.0-13.0
	2y	M,F	2.0-10.0
	5y	M,F	1.4-7.0
	9y	M,F	1.3-6.5
	13y	M,F	1.1-6.0
	18y+	M,F	1.0-4.8
#MO $\times 10^3/\mu\text{l}$	0d	M,F	0.2-2.2
	4d	M,F	0.1-2.9
	15d	M,F	0.2-5.0
	1m	M,F	0.2-2.1
	2m	M,F	0.3-1.9
	2y	M,F	0.4-1.1
	13y	M,F	0.4-0.9
	18y+	F	0.0-0.9
		M	0.0-1.1
#EO $\times 10^3/\mu\text{l}$	0d	M,F	0.0-0.9
	1m	M,F	0.0-0.6
	5y	M,F	0.0-0.7
	12y+	M,F	0.0-0.5
#BA $\times 10^3/\mu\text{l}$	0d	M,F	0.0-0.5
	4d	M,F	0.0-0.4
	2m	M,F	0.0-0.2
	13y+	M,F	0.0-0.1
Automated nRBC /100 WBC	0d	M,F	0.0-2.0
	4d+	M,F	0.0-0.8
Manual nRBC /100 WBC	0d	M,F	0-2
	4d+	M,F	0-1

Test	Reference Range		
	Age	Gender	Range
Band %	0d+	M,F	0-8
Metamyelocyte %	0d+	M,F	0-2
Myelocyte %	0d+	M,F	0-1
Atypical Lymphocyte %	0d+	M,F	0-6
Blast %	0d+	M,F	<1
RETIC %	18y+	M,F	0.5-2.2
Sed Rate mm/Hr	0d	F	0-19
		M	0-14
	50y+	F	0-29
		M	0-19
Infectious Mono	0d+	M,F	Negative
FFN	0d+	M,F	Negative
Synovial Fluid Crystals	0d+	M,F	None Seen

Coagulation

Test	Reference Range		
	Age	Gender	Range
PT	0d+	M,F	9.5-12.8 sec.
INR	0d+	M,F	0.82-1.10
PTT	0d+	M,F	26.0-38.0 sec.
Fibrinogen	0d+	M,F	238.0-498.0 mg/dL
D-Dimer	0d+	M,F	< 243 ng/mL

Semen Analysis

Test	Reference Range		
	Age	Gender	Range
Volume	0d+	M	1.5-5.0 mL
Viscosity	0d+	M	Normal
Total Motility	0d+	M	≥40%
Progressive	0d+	M	>31%
Sperm Count	0d+	M	≥15 x10 ⁶ /mL

Urinalysis

Test	Reference Range		
	Age	Gender	Range
Color	0d+	M,F	Yellow
Clarity	0d+	M,F	Clear
Specific Gravity	0d+	M,F	1.002-1.030
pH	0d+	M,F	5.0-8.0
Urobilinogen	0d+	M,F	Normal
Ketones	0d+	M,F	Negative
Protein	0d+	M,F	Negative
Leukocytes	0d+	M,F	Negative
Blood	0d+	M,F	Negative
Nitrite	0d+	M,F	Negative
Bilirubin	0d+	M,F	Negative
Glucose	0d+	M,F	Negative
Miscoscopic			
Bacteria	0d+	M,F	Absent/HPF
Crystals	0d+	M,F	Absent/HPF
Casts	0d+	M,F	Absent/LPF
Non-Squamous Epithelials	0d+	M,F	Absent/HPF
Squamous Epithelial Cells	0d+	M,F	Absent/HPF
Red Blood Cells	0d+	M,F	Absent-Trace (0-2/HPF)
White Blood Cells	0d+	M,F	Absent-Trace (0-5/HPF)

Body Fluid White Blood Cell Counts

Test	Reference Range		
	Age	Gender	Range
Synovial Fluid	0d+	M,F	<150/ μ L
Peritoneal Fluid	0d+	M,F	<500/ μ L
Pleural Fluid	0d+	M,F	<500/ μ L
Pericardial Fluid	0d+	M,F	<500/ μ L
Cerebrospinal Fluid (CSF)	0d	M,F	0-30/ μ L
	29d+	M,F	0-5/ μ L
CSF Red Blood Cells	0d+	M,F	$\leq$ 0/ μ L

Body Fluid Manual Differentials

Test	Synovial Fluid Reference Range		
	Age	Gender	Range
Neutrophils	0d+	M,F	0-25%
Lymphocytes	0d+	M,F	0-78%
Monocytes	0d+	M,F	0-71%
Non-WBC	0d+	M,F	0-12%
Test	Dialysate Reference Range		
	Age	Gender	Range
Neutrophils	0d+	M,F	2.2-33.8%
Lymphocytes	0d+	M,F	0-50%
Monocytes	0d+	M,F	9-61%
Eosinophils	0d+	M,F	0-14%
Basophils	0d+	M,F	1-5%
Non-WBC	0d+	M,F	0-2%
Test	Peritoneal, Pleural & Pericardial Reference Range		
	Age	Gender	Range
Neutrophils	0d+	M,F	0-1%
Lymphocytes	0d+	M,F	18-36%
Monocytes	0d+	M,F	64-80%
Eosinophils	0d+	M,F	0-1%
Basophils	0d+	M,F	0-1%
Test	CSF Reference Range		
	Age	Gender	Range
Neutrophils	0d	M,F	0-8%
	6m+	M,F	0-6%
Lymphocytes	0d	M,F	5-35%
	6m+	M,F	40-80%
Monocytes	0d	M,F	50-90%
	6m+	M,F	15-45%
Test	Bronchoalveolar Lavage Reference Range		
	Age	Gender	Range
Neutrophils	0d+	M,F	0-10%
Lymphocytes	0d+	M,F	0-30%
Eosinophils	0d+	M,F	0-1%

*Age includes age listed up to age in next row for each analyte

d=Days M=Male

m=Months F=Female

y=Years U=Unknown