## PATHOLOGIC BASIS OF DISEASE Interactive Case Study Companion

Case Studies Main > Normal Reference Range Table

Hematology Tests Chemistry Cardiac Tests Blood Gas Urinalysis CSF Thyroid Other Endocrine Miscellaneous

31-43% (Child)

**Hematology Tests** 

Hematocrit (Hct)

Hemoglobin (Hgb)

Red Blood Cell Count (RBC)

White Blood Cell Count (WBC)

**Differential** 

polymorphonuclear cells (polys) immature polys (bands) lymphocytes (lymp) monocytes (mono) eosinophils (eos) basophils (bas)

coefficient of variation

standard deviation

Platelet Count (Plt)

Red Cell Distribution Width (RDW)

RBC Mean Cell Volume (MCV)

Mean Cell Hemoglobin Concentration

(MCHC) CD4+

Reticulocytes

Prothrombin Time (PT)

Partial Thromboplastin Time (PTT)

Fibrinogen

**Iron Studies** 

Total Serum Iron (TSI)

Total Iron-Binding Capacity (TIBC)

Transferrin

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Ferritin

Chemistry Tests

Aspartate Aminotransferase (AST)

Gamma-Glutamyltransferase (GGT)

Alanine Aminotransferase (ALT) 7-56 U/L
Albumin 3.5-5.2 g/L
Alkaline Phosphatase (ALP) 38-126 U/L
Alpha-Fetoprotein (AFP), serum 0-44 ng/mL

nylase 30-110 U/L

Anti-Streptolysin O Test (ASO) <250 U/mL (school age) <125 U/mL (adult)

 Bicarbonate
 22-26 mEq/L

 Bilirubin, direct
 <0.3 mg/dL</td>

 Bilirubin, total
 0.2-1.3 mg/dL

 Calcium
 8.4-10.2 mg/dL

 Cholesterol
 120-200 mg/dL

 Creatinine
 0.5-1.4 mg/dL

40-52% (Male) 37-46% (Female)

13.2-16.2 gm/dL (Male) 12.0-15.2 gm/dL (Female)

4.3-6.2x10<sup>6</sup>/μL (Male)
3.8-5.5x10<sup>6</sup>/μL (Female)
3.8-5.5x10<sup>6</sup>/μL (Infant/Child)

4.1-10.9x10<sup>3</sup>/µL

35-80% 0-10%

20-50% 2-12% 0-7% 0-2%

140-450x10<sup>3</sup>/µL

11.5-14.5% 35-47 fL

82-102 fL (Male) 78-101 fL (Female)

31-35 gm/dL

31-63%

416-1751/µL (Absolute #)

0.5-1.5% (Adult) 0.5-3.1% (Infant) 1.1-4.5% (Newborn) 9.8-11.9 seconds 23-32.5 seconds

170-420 mg/dL

76-198 μg/dL (Male) 26-170 μg/dL (Female)

262-474 µg/dL 204-360 mg/dL 18-250 ng/mL (Male) 12-160 ng/mL (Female)

8-78 U/L

5-35 U/L

Olyana	05 440 ··· ·· /·II	
Glucose	65-110 mg/dL 7-59 U/L	
Lipase	7-59 U/L 2.4-4.5 mg/dL	
Phosphorous Potassium	3.6-5.0 mEq/L	
Sodium	135-145 mEq/L	
Total Protein	6.3-8.2 g/dL	
Triglyceride	50-199 mg/dL	
Uric Acid	3.5-8.5 mg/dL	
Urea Nitrogen (BUN)	7-21 mg/dL	
Go to Top	7-21 mg/dL	
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Cardiac Tests		
Total CK	38-120 ng/mL	
CK-MB	0-3 ng/mL	
CK index	0-3	
Troponin	<0.4 ng/mL	
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Blood Gas		
рН	7.34-7.44	
$pCO_2$	35-45 mmHg	
$pO_2$	75-100 mmHg	
HCO <sub>3</sub>	22-26 mEq/L	
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		1
Urinalysis	4 000 4 000	
Specific gravity pH	1.002-1.030 5-7	
Protein	negative-trace	
Glucose	negative	
Ketones	negative	
Bilirubin	negative	
Blood	negative	
Nitrite	negative	
Leukocyte esterase	negative	
Urobilinogen	0.2-1.0 Ehr U/dL	
Crosimogen	Microscopic	
	RBCs	0-2/HPF
	WBCs	0-2/HPF
	RBC casts	0/HPF
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Cerebrospinal fluid (CSF)		
Glucose	40-70 mg/dL	
Protein	15-45 mg/dL	
RBCs	0/μL	
WBCs	0-3/µL	
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Thyroid		
T <sub>3</sub> -total	60-181 ng/mL	
T <sub>4</sub> -free	0.8-1.5 ng/dL	
T <sub>4</sub> -total	5.5-12.3 ng/mL	
Thyroxine-Binding Globulin (TBG)	12-30 mg/L	
Tyroid-Stimulating Hormone (TSH)	0.4-4.5 μU/mL	
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Other Endocrine		
17-Hydroxycorticosteroids (17-OHCS)	<4 mg/day	
Adrenocorticotrophic Hormone (ACTH)	20-100 pg/mL	
	<5 mU/mL (Male, non-pregnant Female)	

Beta-Human Chorionic Gonadotropin (Beta-HCG)

CA 19-9 <40 U/mL Prolactin 0-14 ng/mL

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Miscellaneous

<30 IU/mL Rheumatoid Factor Prostatic Specific Antigen (PSA) 0-4 ng/mL

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