

## CLINICAL LABORATORY TESTS – REFERENCE VALUES

This table lists reference ranges (expressed in both SI units and traditional units) for the most common laboratory tests and is intended for interpretation of the results as they are provided in the examinations. Most of the values apply to adults and where they differ for children it will be indicated. Many important laboratory reference values are not listed here, because of the less frequent use of these tests. Such values are inserted parenthetically following the result recorded in the examination question.

Tests	SI Units	Traditional Units
Activated partial thromboplastin time (aPTT)	25-40 sec	25-40 sec
Albumin (serum)	35-50 g/L	3.5-5.0 g/dL
Amylase (serum)	25-125 IU/L	25-125 U/L
Bicarbonate (HCO <sub>3</sub> ) (serum)	23-29 mmol/L	23-29 mEq/L
Bilirubin (serum)* Neonates (conjugated)	0-10 µmol/L	0-0.6 mg/dL
(total)	1.7-180 µmol/L	1.0-10.5 mg/dL
Adults (conjugated)	0-5 µmol/L	0-0.3 mg/dL
(total)	3-22 µmol/L	0.2-1.3 mg/dL
Bleeding time (Dvy)	< 5 min	< 5 min
Calcium (serum)**		
Total	2.10-2.50 mmol/L	8.4-10.6 mg/dL
Ionized	1.15-1.35 mmol/L	4.6-5.1 mg/dL
Calcium (urine)	< 6.2 mmol/d	< 250 mg/24h
Carcinoembryonic antigen (CEA) (serum)	< 3.0 µg/L	< 3.0 ng/ml
CO <sub>2</sub> (total)**	22-29 mmol/L	22-29 mEq/L
Chloride (serum)	96-106 mmol/L	96-106 mEq/L
Chloride (urine) Infant	2-10 mmol/d	2-10 mEq/24h
Child	14-50 mmol/d	14-50 mEq/24h
Adults	110-250 mmol/d	110-250 mEq/24h
Cholesterol (serum)**	< 5.2 mmol/L	< 200 mg/dL
Cortisol (plasma) 8 AM	170-635 nmol/L	6-23 µg/dL
4 PM	82-413 nmol/L	3-15 µg/dL
Creatinine (serum)	50-110 µmol/L	0.6-1.2 mg/dL
Creatinine (urine) Males	8.8-17.6 mmol/d	1.0-2.0 g/24h
Females	7.0-15.8 mmol/d	0.8-1.8 g/24h
Creatine kinase (CK, CPK) - Males (race dependent)	20-215 IU/L	20-215 U/L
Females (race dependent)	20-160 IU/L	20-160 U/L
Erythrocytes (RBCs) - Children**	4.5-5.1 x 10 <sup>12</sup> /L	4.5-5.1 million/mm <sup>3</sup>
Males	4.6-6.2 x 10 <sup>12</sup> /L	4.6-6.2 million/mm <sup>3</sup>
Females	4.2-5.4 x 10 <sup>12</sup> /L	4.2-5.4 million/mm <sup>3</sup>
Ferritin (serum)	20-200 µg/L	20-200 ng/ml
Follicle-stimulating hormone (FSH) (plasma)		
Males	1-10 IU/L	1-10 mIU/ml
Females, premenopausal	20-80 IU/L	20-80 mIU/ml
Females, postmenopausal	40-250 IU/L	40-250 mIU/ml
Glucose (fasting) (plasma or serum)	3.9-6.1 mmol/L	70-110 mg/dL
Growth hormone (hGH) (serum, adult) fasting	0-10 µg/L	0-10 ng/ml
Hematocrit - Newborn	0.49-0.54	49-54%
Children**	0.35-0.49	35-49%
Males	0.40-0.54	40-54%
Females	0.37-0.47	37-47%
Hemoglobin (Hb) - Newborn	163-193 g/L	16.3-19.3 g/dL
Children**	112-165 g/L	11.2-16.5 g/dL
Males	140-180 g/L	14.0-18.0 g/dL
Females	120-160 g/L	12.0-16.0 g/dL
High density lipoproteins (HDL) (recommended range)	> 0.91 mmol/L	> 35 mg/dL
INR	0.9-1.1	0.9-1.1
Iron (serum) - Males	13-31 µmol/L	75-175 µg/dL
Females	5-29 µmol/L	28-162 µg/dL
Iron binding capacity (serum) (TIBC)	45-73 µmol/L	250-410 µg/dL
Lactate dehydrogenase (LDH) (serum) - Adult	45-90 IU/L	45-90 U/L
Child	60-170 IU/L	60-170 U/L
> 60 years old	55-100 IU/L	55-100 U/L

\*Test values are method dependent

\*\*Test values vary with age

\*\*\*Test values are diet dependent

.../over

# Clinical Laboratory Tests Reference Values

**Zhe Xu**



## **Clinical Laboratory Tests Reference Values:**

Clinical Laboratory Medicine Kenneth D. McClatchey, 2002 This thoroughly updated Second Edition of Clinical Laboratory Medicine provides the most complete current and clinically oriented information in the field The text features over 70 chapters seven new to this edition including medical laboratory ethics point of care testing bone marrow transplantation and specimen testing providing comprehensive coverage of contemporary laboratory medicine Sections on molecular diagnostics cytogenetics and laboratory management plus the emphasis on interpretation and clinical significance of laboratory tests why a test or series of tests is being done and what the results mean for the patient make this a valuable resource for practicing pathologists residents fellows and laboratorians Includes over 800 illustrations 353 in full color and 270 new to this edition Includes a Self Assessment and Review book

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**Clinical Biochemistry in Hepatobiliary Diseases** Francesco Salvatore,Aldo Roda,Lucia Sacchetti,2013-03-07 The clinical biochemistry ofhepatobiliary diseases is very widely studied and publica tions abound on this topic However there is no recent publication that provides a comprehensive collection of the various leading aspects that go to make up this complex theme Therefore we thought it useful to gather together a few scientists whose work has focused on the various clinical biochemistry aspects of these disorders in order that they might discuss their experience and expertise The aim of the International Satellite Symposium on Clinical Biochemistry in Hepatobiliary Disease in addition to reviewing the individual aspects was to describe the state of the art so as to provide useful data for laboratory scientists and also for physicians working in the field of hepatobiliary diseases and these two aims are clearly reflected in the chapters of this volume The volume opens with an introductory chapter that gives a general overview of the various aspects of the clinical biochemistry of these disorders while the closing chapter deals with an important aspect that deserves to be increasingly emphasized in laboratory medicine i e strategies to integrate information coming from the laboratory to make them more useful for clinical diagnosis

*Tietz Textbook of Laboratory Medicine - E-Book* Nader Rifai,2022-02-03 Use THE

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**Kinn's The Medical Assistant** Deborah B. Proctor, Brigitte Niedzwiecki, Julie Pepper, Payel Madero, Marti Garrels, Helen Mills, 2016-05-04 Comprehensive Medical Assisting begins with Kinn Elsevier's 60th Anniversary edition of Kinn's The Medical Assistant 13th Edition provides you with real world administrative and clinical skills that are essential to working in the modern medical office An applied learning approach to the MA curriculum is threaded throughout each chapter to help you further develop the tactile and critical thinking skills necessary for working in today's healthcare setting Paired with our adaptive solutions real world simulations EHR documentation and HESI remediation and assessment you will learn the leading skills of modern administrative and clinical medical assisting in the classroom Basics of Diagnostic Coding prepares you to use the ICD 10 coding system Learning objectives listed in the same order as content makes it easy to review material Clinical procedures integrated into the TOC give you a quick reference point Professional behavior boxes provide guidelines on how to interact with patients families and coworkers Patient education and legal and ethical issues are described in relation to the Medical Assistant's job Applied approach to learning helps you use what you've learned in the clinical setting Learning objectives and vocabulary with definitions highlight what's important in each chapter Critical thinking applications test your understanding of the content Step by step procedures explain complex conditions and abstract concepts Rationales for each procedure clarify the need for each step and explains why it's being performed Portfolio builder helps you demonstrate your mastery of the material to potential employers NEW Chapter on The Health Record reviews how you'll be working with a patient's medical record NEW Chapter on Technology in the Medical Office introduces you to the role EHR technology plays in the medical office NEW Chapter on Competency Based Education helps you understand how your mastery of the material will affect your ability to get a job NEW Clinical procedure videos helps you visualize and review key procedures

**Interpretation of Clinical Laboratory Tests** G. Siest, 1985 **Lab Values Interpretation** Dr Gabriel J Connor, 2020-10-19 Can you decipher the myriad values that you see when the morning lab results come back Is this value high or low Is it a critical value Which ones do you need to be sure get addressed first Is your patient at risk if you wait for the physician Getting familiar with and interpreting laboratory values can be intimidating There's always the fear of messing things up and not being able to meet the patient's health needs But guess what Familiarizing and interpreting laboratory values don't always have to feel that way With the right tips you'll be able to overcome those fears and complete your tasks easily But First A Warning Before we go further let me make something abundantly clear This book does not contain a magic

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