

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 ₃) (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 ₂ (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 ¹² /L | 4.5-5.1 million/mm ³ |
| Males | 4.6-6.2 x 10 ¹² /L | 4.6-6.2 million/mm ³ |
| Females | 4.2-5.4 x 10 ¹² /L | 4.2-5.4 million/mm ³ |
| 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

Brigitte Niedzwiecki



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

Tietz Textbook of Clinical Chemistry and Molecular Diagnostics - E-Book Nader Rifai, 2017-01-16 The Tietz Textbook of Clinical Chemistry and Molecular Diagnostics 6th Edition provides the most current and authoritative guidance on selecting performing and evaluating the results of new and established laboratory tests This classic clinical chemistry reference offers encyclopedic coverage detailing everything you need to know including analytical criteria for the medical usefulness of laboratory tests variables that affect tests and results laboratory medicine applications of statistical methods and most importantly clinical utility and interpretation of laboratory tests It is THE definitive reference in clinical chemistry and molecular diagnostics now fully searchable and with quarterly content updates podcasts clinical cases animations and extended content online through Expert Consult Analytical criteria focus on the medical usefulness of laboratory procedures Reference ranges show new approaches for establishing these ranges and provide the latest information on this topic Lab management and costs gives students and chemists the practical information they need to assess costs allowing them to do their job more efficiently and effectively Statistical methods coverage provides you with information critical to the practice of clinical chemistry Internationally recognized chapter authors are considered among the best in their field Two color design highlights important features illustrations and content to help you find information easier and faster NEW Internationally recognized chapter authors are considered among the best in their field NEW Expert Consult features fully searchable text quarterly content updates clinical case studies animations podcasts atlases biochemical calculations multiple choice questions links to Medline an image collection and audio interviews You will now enjoy an online version making utility of this book even greater UPDATED Expanded Molecular Diagnostics section with 12 chapters that focus on emerging issues and techniques in the rapidly evolving and important field of molecular diagnostics and genetics ensures this text is on the cutting edge and of the most value NEW Comprehensive list of Reference Intervals for children and adults with graphic displays developed using contemporary instrumentation NEW Standard and international units of measure make this text appropriate for any user anywhere in the world NEW 22 new chapters that focus on applications of mass spectrometry hematology transfusion medicine microbiology biobanking

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Kinn's The Clinical Medical Assistant Deborah B. Proctor,Brigitte Niedzwiecki,Julie Pepper,Marti Garrels,Helen Mills,2016-05-10 Clinical Medical Assisting begins with Kinn Elsevier s Kinn s The Clinical Medical Assistant 13th Edition provides you with the real world 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 to assist with medications diagnostic procedures and surgeries Paired with our adaptive solutions real world simulations EHR documentation and HESI remediation and assessment you will learn the leading skills of modern clinical medical assisting in the classroom Applied approach to learning helps you use what you ve learned in the clinical setting Clinical procedures integrated into the TOC provide you with a quick reference Detailed learning objectives and vocabulary with definitions highlight what s important in each chapter 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

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Table of Contents Clinical Laboratory Tests Reference Values

1. Understanding the eBook Clinical Laboratory Tests Reference Values
 - The Rise of Digital Reading Clinical Laboratory Tests Reference Values
 - Advantages of eBooks Over Traditional Books
2. Identifying Clinical Laboratory Tests Reference Values
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Clinical Laboratory Tests Reference Values
 - User-Friendly Interface
4. Exploring eBook Recommendations from Clinical Laboratory Tests Reference Values
 - Personalized Recommendations
 - Clinical Laboratory Tests Reference Values User Reviews and Ratings
 - Clinical Laboratory Tests Reference Values and Bestseller Lists
5. Accessing Clinical Laboratory Tests Reference Values Free and Paid eBooks
 - Clinical Laboratory Tests Reference Values Public Domain eBooks
 - Clinical Laboratory Tests Reference Values eBook Subscription Services
 - Clinical Laboratory Tests Reference Values Budget-Friendly Options
6. Navigating Clinical Laboratory Tests Reference Values eBook Formats
 - ePub, PDF, MOBI, and More
 - Clinical Laboratory Tests Reference Values Compatibility with Devices
 - Clinical Laboratory Tests Reference Values Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Clinical Laboratory Tests Reference Values
 - Highlighting and Note-Taking Clinical Laboratory Tests Reference Values
 - Interactive Elements Clinical Laboratory Tests Reference Values
8. Staying Engaged with Clinical Laboratory Tests Reference Values

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Clinical Laboratory Tests Reference Values
9. Balancing eBooks and Physical Books Clinical Laboratory Tests Reference Values
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Clinical Laboratory Tests Reference Values
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Clinical Laboratory Tests Reference Values
- Setting Reading Goals Clinical Laboratory Tests Reference Values
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Clinical Laboratory Tests Reference Values
- Fact-Checking eBook Content of Clinical Laboratory Tests Reference Values
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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