

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 (Ivy)	< 5 min	< 5 min
Calcium (serum)**		
Total	2.10-2.50 mmol/L	8.4-10.0 mg/dL
Ionized	1.15-1.25 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

....*forvet*

Clinical Laboratory Tests Reference Values

Diane Bruessow



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 Carl A. Burtis, Edward R. Ashwood, David E. Bruns, 2011-12-16 As the definitive reference for clinical chemistry Tietz Textbook of Clinical Chemistry and Molecular Diagnostics 5th Edition offers the most current and authoritative guidance on selecting performing and evaluating results of new and established laboratory tests Up to date encyclopedic coverage details everything you need to know including analytical criteria for the medical usefulness of laboratory procedures new approaches for establishing reference ranges variables that affect tests and results the impact of modern analytical tools on lab management and costs and applications of statistical methods In addition to updated content throughout this two color edition also features a new chapter on hemostasis and the latest advances in molecular diagnostics Section on Molecular Diagnostics and Genetics contains nine expanded chapters that focus on emerging issues and techniques written by experts in field including Y M Dennis Lo Rossa W K Chiu Carl Wittwer Noriko Kusakawa Cindy Vnencak Jones Thomas Williams Victor Weedn Malek Kamoun Howard Baum Angela Caliendo Aaron Bossler Gwendolyn McMillin and Kojo S J Elenitoba Johnson Highly respected author team includes three editors who are well known in the clinical chemistry world Reference values in the appendix give you one location for comparing and evaluating test results NEW Two color design throughout highlights important features illustrations and content for a quick reference NEW Chapter on hemostasis provides you with all the information you need to accurately conduct this type of clinical testing NEW Six associate editors lend even more expertise and insight to the reference NEW Reorganized chapters ensure that only the most current information is included

Clinical Biochemistry in Hepatobiliary Diseases Francesco Salvatore, Aldo Roda, Lucia Sacchetti, 2013-03-07 The clinical biochemistry of hepatobiliary diseases is very widely studied and publications 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 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 biomarker utility in the pharmaceutical industry and more NEW Expert senior editors Nader Rifai Carl Wittwer and Rita Horvath bring fresh perspectives and help ensure the most current information is presented UPDATED Thoroughly revised and peer reviewed chapters provide you with the most current information possible

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 patients 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 wand that will bring you instant knowledge without having to do any work This book provides in depth knowledge of the full spectrum of lab tests used today But this only works for those who are willing to apply take notes read and re read the chapters So with that said let me tell you Take Lab Values from random numbers and turning them into functional concepts that are actually fun Look beyond the numbers and finally understand what the values mean Learn an intuitive multi dimensional approach to assessing multiple lab tests and integrating them into your clinical practice This is not hype this is what my audience commonly report Tietz Textbook of Laboratory Medicine - E-Book Nader Rifai,2022-02-03 Use THE definitive reference for laboratory medicine and clinical pathology Tietz Textbook of Laboratory Medicine 7th Edition provides the guidance necessary to select perform and evaluate the results of new and established laboratory tests Comprehensive coverage includes the latest advances in topics such as clinical chemistry genetic metabolic disorders molecular diagnostics hematology and coagulation clinical microbiology transfusion medicine and clinical immunology From a team of expert contributors led by Nader Rifai this reference includes access to wide ranging online resources on Expert Consult featuring the comprehensive product with fully searchable text regular content updates animations podcasts over 1300 clinical case studies lecture series and more Authoritative current content helps you perform tests in a cost effective timely and efficient manner provides expertise in managing clinical laboratory needs and shows how to be responsive to an ever changing environment Current guidelines help you select perform and evaluate the results of new and established laboratory tests Expert internationally recognized chapter authors present guidelines representing different practices and points of view Analytical criteria focus on the medical usefulness of laboratory procedures Use of standard and international units of measure makes this text appropriate for any user anywhere in the world Elsevier eBooks provides the entire text as a fully searchable eBook and includes animations podcasts more than 1300 clinical case studies over 2500 multiple choice questions a lecture series and more all included with print purchase NEW 19 additional chapters highlight various specialties throughout laboratory medicine NEW Updated peer reviewed content provides the most current information possible NEW The largest ever compilation of clinical cases in laboratory medicine is included with print purchase on Elsevier eBooks NEW Over 100 adaptive learning courses included with print purchase on Elsevier eBooks offer the opportunity for personalized education **Lab Values Interpretation** Gabriel J. Connor,2020-10-19 Can you decipher the myriad values that you see when the morning lab results come back Is

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procedures and limited scope radiography provide coverage of expanded Medical Assisting functions approved in many states NEW Expanded content addresses behavioral health catheterization procedures disease states medical office organization expanding MA roles and more *Clinical Laboratory Methods: Atlas of Commonly Performed Tests* Michael Laposata, Peter McCaffrey, 2022-03-25 Master 100 of the most commonly performed lab tests A Doody's Core Title for 2023 clinically important information the expense of the test based cost of the reagents supplies and labor the complexity of the test and whether each method is manual semi automated or highly automated and each method includes a flowchart The author avoids getting bogged down in unimportant details focusing on only what you need to know to master these important processes Features Each testing method description includes a flowchart Practice tests enable you to quiz yourself on what you have learned The expense of each method is described as low moderate or high **Gender Minority Medicine , An Issue of Physician Assistant Clinics, E-Book** Diane Bruessow, 2024-05-28 In this issue of Physician Assistant Clinics guest editor Diane Bruessow of Yale School of Medicine brings her considerable expertise to the topic of Gender Minority Medicine Filling a knowledge gap in transgender health in primary care this issue features articles by top experts that focus on up to date standards regarding clinical care hormone therapy inclusion hormone therapy and surgery and more Contains 12 relevant practice oriented topics including interpreting gendered lab results deferring puberty in transgender adolescents and associated clinical care administrative considerations or creating a welcoming environment for transgender inclusion navigating transgender health in the uniformed services and more Provides in depth clinical reviews on gender minority medicine offering actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create clinically significant topic based reviews **Clinical Procedures for Medical Assistants - E-Book** Kathy Bonewit-West, 2022-09-03 Selected for 2025 Doody's Core Titles in Medical Assisting Master the foundational concepts and skills necessary to become a successful clinical medical assistant Written using clear and accessible language Clinical Procedures for Medical Assistants 11th Edition guides you through essential medical assisting clinical procedures such as taking vital signs collecting processing and testing laboratory specimens preparing patients for examinations and procedures administering medications and assisting with office surgeries This edition is thoroughly updated throughout to align with 2022 medical assisting competencies and includes a new art program plus updated coverage of the medical record nutritional guidelines OSHA standards for infection control and prevention emergency preparedness and the latest medical assisting clinical guidelines More than 90 procedures help you learn key medical assisting skills with step by step instructions and clear illustrations Learning features throughout focus on case based critical thinking patient education legal issues practice tips and documentation exercises and a full complement of online resources provides practice for classroom and board exams EHR documentation exercises video procedures with evaluation questions and a variety of interactive

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The Medical Library Association Encyclopedic Guide to Searching and Finding Health Information on the Web P. F. Anderson, Nancy J. Allee, 2004 Searching for health information may be the most important type of search a librarian performs in a day Instead of starting a health care search with a blank computer screen or simply accessing ordinary information available most anywhere on the Web you can begin with help from the prestigious Medical Library Association Each entry will show you how an experienced health sciences librarian would approach the question You can begin a truly valuable search knowing Special searching issues What to ask Where to start Supplementary search strategies Topic profile Recommended search terms and important sites Hotline phone numbers FAQs Publications on the Internet Professional Organizations Patient Support organizations and discussion groups Best One Stop Shops Finally there's one read reference source written by librarians to help their colleagues that contains every important aspect of the question you or your patron want to answer It's time saving it's authoritative it sets a new standard for comprehensive medical information reference Let a fellow librarian be your guide through the sometimes dizzying amount of information available Find hundreds of specific entries grouped in three easy to use volumes

Laboratory Test Handbook David S. Jacobs, 1996 Contains information about laboratory procedures including test name and synonyms patient care recommendations specimen requirements reference ranges interpretive information footnotes and references This ed has expanded coverage of laboratory assays related to molecular pathology and treatments of clinical virology and therapeutic drug monitoring

The Scandinavian Journal of Clinical & Laboratory Investigation, 1951 "Code of Massachusetts regulations, 1993", 1993 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020

The Massachusetts register, 1987-08-21 **Interpretation of Clinical Laboratory Tests** G. Siest, 1985 *Clinical Laboratory Medicine* Richard Ravel, 1984 **Clinical Chemistry** Lawrence A. Kaplan, Amadeo J. Pesce, Steven C. Kazmierczak, 2003 This

comprehensive up to date readable text acts as a complete clinical chemistry course and professional reference providing detailed specific information on the principles of clinical chemistry in laboratory diagnosis as well as the pathophysiologic changes that occur in disease and affect testing outcomes Explanations of Laboratory Techniques Part 1 lead the reader through various necessary laboratory techniques and practices Chapters on Pathophysiology Part 2 provide descriptions of how specific diseases affect the human body A companion CD ROM packaged with the book features Methods of Analysis a comprehensive Urinalysis Manual and an interactive Study Guide Workbook to reinforce concepts The book s clear writing and comprehensive coverage make it an ideal resource for both students and practitioners Instructor resources are available to qualified adopters contact your sales representative for more information

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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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