

Normal Lab Values Cheatsheet

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Erythrocyte Studies

RANGE (SI UNITS)	RANGE (CONVENTIONAL)
Red Blood Cell Count (RBC), Erythrocytes	
Adult male: $4.7-6.2 \times 10^{12}/L$	Adult male: $4.7-6.2 \times 10^6/mm^3$
Adult female: $4.5-5.0 \times 10^{12}/L$	Adult female: $4.5-5.0 \times 10^6/mm^3$
Child: $3.5-5.5 \times 10^{12}/L$	Child: $3.5-5.5 \times 10^6/mm^3$
Newborn: $4.8-7.1 \times 10^{12}/L$	Newborn: $4.8-7.1 \times 10^6/mm^3$
Hemoglobin (Hgb, Hb)	
Adult male: 140-170 g/L	Adult male: 14-17 g/dL
Adult female: 120-150 g/L	Adult female: 12-15 g/dL
Pregnant: >110 g/L	Pregnant: >11 g/dL
Child: 95-150 g/L	Child: 9.5-15 g/dL
Newborn: 140-240 g/L	Newborn: 14-24 g/dL
Critical values: <70 or >200 g/L	Critical values: <7.0 or >20.0 g/dL
Hematocrit (Hct)	
Adult male: 0.42-0.52	Adult male: 42%-52%
Adult female: 0.35-0.47	Adult female: 35%-47%
Pregnant: >0.33	Pregnant: >33%
Child: 0.30-0.44	Child: 30-44%
Newborn: 0.44-0.64	Newborn: 44%-64%
Critical values: <0.20 or >0.60	Critical values: <20% or >60%
Mean corpuscular volume (MCV)	
82-98 fL	82-98 mm ³

RANGE (SI UNITS)	RANGE (CONVENTIONAL)
Mean corpuscular hemoglobin (MCH)	
0.40-0.53 fmoL/cell	26-34 pg/cell
Mean corpuscular hemoglobin concentration (MCHC)	
320-360 g/L	32-36 g/dL
Reticulocyte Count	
0.005-0.015	0.5%-1.5% of total RBCs
Serum iron	
Adult male: 12.5-31.3 μ mol/L	Adult male: 70-175 μ g/dL
Adult female: 8.9-26.8 μ mol/L	Adult female: 50-150 μ g/dL
Child: 8.9-21.5 μ mol/L	Child: 50-120 μ g/dL
Newborn: 17.9-44.8 μ mol/L	Newborn: 100-250 μ g/dL
Total iron-binding capacity (TIBC)	
41.2-65.7 μ mol/L	229-365 μ g/dL
Transferrin	
2.15-3.75 g/L	215-375 mg/dL
Erythrocyte sedimentation rate (ESR)	
Male:	
<50 years:	0-14 mm/hour
50-85 years:	0-19 mm/hour
>85 years:	0-29 mm/hour
Female:	
<50 years:	0-19 mm/hour
50-85 years:	0-29 mm/hour
>85 years:	0-41 mm/hour
Child:	
Child \geq 2 years	0-10 mm/hour

Manual Lab Results Interpretation

F Rizvi



Manual Lab Results Interpretation:

A Manual of Clinical Laboratory Methods Clyde Lottridge Cummer, 1922 **A Manual of Laboratory and Diagnostic Tests** Frances Talaska Fischbach, Marshall Barnett Dunning, 2009 Now in its Eighth Edition this leading comprehensive manual helps nurses deliver safe effective and informed care for patients undergoing diagnostic tests and procedures The book covers a broad range of laboratory and diagnostic tests and studies that are delivered to varied patient populations in varied settings Tests are grouped according to specimen and function test type e g blood urine stool cerebrospinal fluid etc Each test is described in detail with step by step guidance on correct procedure tips for accurate interpretation and instructions for patient preparation and aftercare Clinical Alerts highlight critical safety information

Interpreting Laboratory Tests in Intensive Care Anirban Hom Choudhuri, Barnali Das, 2024-12-30 This book incorporates a wide variety of clinical conditions requiring admission to the intensive care unit that necessitate timely performance of diagnostic tests and their correct interpretation to guide the best treatment It tries to translate complex physiological principles and diagnostic algorithms into a clinically relevant format that can be easily understood by clinicians It also explains at length the key clinical inputs to be acquired by laboratory physicians before reporting the results and tries to solve the common dilemmas leading to misinterpretation The importance of every detail from sample collection and dispatch to correlation of clinical state report has been adequately explained with suitable examples and proper explanations *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 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 [Basic Skills in Interpreting Laboratory Data](#) Mary Lee, 2013-06-01 *Basic Skills in Interpreting Laboratory Data* Fifth Edition is the classic and most popular pharmacy laboratory text because it is the only reference on this subject written by pharmacists for pharmacists Students find this guide a clear and useful introduction to the fundamentals of interpreting laboratory test results The book enhances the skills pharmacists need by

providing essential information on common laboratory tests used to screen for or diagnose diseases and monitor the effectiveness and safety of treatment and disease severity Each chapter contains learning objectives case studies bibliographies and charts that summarize the causes of high and low test results New for this edition Updated and expanded Quick View tables in each chapter now match those in the popular quick reference Interpreting Laboratory Data A Point of Care Guide New glossary of acronyms is right up front for a streamlined reference Normal value ranges of all tests have been standardized by an expert pathologist New and updated cases in each chapter apply your Basic Skills in clinical situations Reorganized to highlight the application of concepts by body system and in special populations Basic Skills in Interpreting Laboratory Data offers features that will help pharmacy students not only understand and engage with the material but also will streamline the transition from classroom to practice setting After studying with this trusted text students and pharmacists will more effectively monitor patient therapy evaluate test results and improve outcomes through optimal and focused pharmacotherapy

Handbook of Diagnostic Endocrinology William Winter E, Lori J. Sokoll, Brett Holmquist, Roger L. Bertholf, 2020-10-06 The clinical laboratory plays a critical role in the diagnosis and management of endocrine and related metabolic disorders which are leading causes of morbidity and mortality in children and adults The Handbook of Diagnostic Endocrinology Third Edition provides a ready reference for the evaluation diagnosis and monitoring of such disorders This revision incorporates translational medicine connecting what clinicians need to know with those in research providing a clinical context to which they can relate their molecular findings This book solves the needs of clinicians and researchers by bringing together in one book endocrinology at the molecular and clinical levels As the intricacies of intracellular signaling have become better understood states of hormone resistance are now increasingly recognized The most common endocrinopathy in westernized countries the metabolic syndrome results to a large extent from insulin resistance The complexity of the circulating forms of various hormones are acknowledged in this revision Each chapter focuses on the biochemical tests that are required either in the basal state or following provocation or suppression to assist in the diagnosis of the various disorders Describes proper sample collection and relevant interpretations of laboratory tests Contains essential molecular biology and incorporates it with the clinical information Includes the discovery of new diagnostic and treatment methods

Basic Skills in Interpreting Laboratory Data Mr. Rohit Manglik, 2024-07-30 A diagnostic tool to help healthcare professionals accurately interpret common and complex laboratory results for better patient care

Laboratory Manual of Qualitative Analysis Wilhelm Segerblom, 1908 [Guidelines for Molecular Analysis in Archive Tissues](#) Giorgio Stanta, 2011-06-06 A huge amount of fixed and paraffin embedded tissue is stored in every hospital This is very precious material that can be used for translational research and for diagnostics The molecular methods employed for analysis of these tissues are similar to the usual molecular biology and proteomics methods but reliable results can be obtained only if specific steps are followed with great care This book provides detailed and precise guidelines for molecular

analysis of archive tissues and will serve as an invaluable aid for researchers and pathologists involved in translational research and diagnostics Clear notes and explanations are included to simplify use of the protocols for the less experienced The authors are a group of acknowledged experts who have developed the described methods and validated them within the European project Archive Tissues Improving Molecular Medicine Research and Clinical Practice IMPACTS which has involved 21 leading institutions in 11 countries

Handbook of Online and Near-real-time Methods in Microbiology
Maximilian Lackner, Wilhelm Grabow, Philipp Stadler, 2017-09-18 Rapid detection and indication of the microbiological quality of liquids is an emerging topic that has high potential for numerous applications in the fields of environmental monitoring industrial process control and medical surveillance Latest technologies allow online and near real time quantitative or qualitative microbial measurements with a significantly higher temporal resolution than traditional methods Such novel developments will significantly enhance quality monitoring of water resources and liquids and have great capability for automation control and optimization of industrial processes Therefore such methods are assumed to have major impacts on scientific research and technical applications in the near future The book presents cutting edge research on frontiers in microbiological detection from leading experts Seven chapters containing review articles on emerging and state of the art online and near real time methods of microorganism detection and indication are giving a comprehensive insight into this novel field A balance between chapters from industry and contributions from academia was aimed for covering the broad field of microbiological quality of waters and liquids in environmental industrial and medical systems This handbook also contains an extensive glossary pointing out and describing relevant terms and definitions This handbook is the first of its kind and is a timely comprehensive source of information for researchers and engineers in the areas of biotechnology environmental sciences control technology and the process industries

Interpretation of Equine Laboratory Diagnostics
Nicola Pusterla, Jill Higgins, 2017-12-18 Interpretation of Equine Laboratory Diagnostics offers a comprehensive approach to equine laboratory diagnostics including hematology clinical chemistry serology body fluid analysis microbiology clinical parasitology endocrinology immunology and molecular diagnostics Offers a practical resource for the accurate interpretation of laboratory results with examples showing real world applications Covers hematology clinical chemistry serology body fluid analysis microbiology clinical parasitology endocrinology immunology and molecular diagnostics Introduces the underlying principles of laboratory diagnostics Provides clinically oriented guidance on performing and interpreting laboratory tests Presents a complete reference to established and new diagnostic procedures

Booker Tropical Soil Manual J.R. Landon, 2014-01-27 First published in 1991 This is a more portable version of the Booker Tropical Soil Manual in which the format and weight of the first edition have been reduced whilst retaining as much as possible of the original clarity It also includes new content and appendices that cover the revised FAO publications on soil classification and on water quality for agriculture

Manual of Qualitative Analysis for Use in the Chemical Laboratory of Dartmouth College Leon Burr

Richardson, Andrew Jackson Scarlett, 1921 Reading and Interpreting the HIV-1 Western Blot Test, 1990 Clinical Microbiology Procedures Handbook, 2016-05-02 In response to the ever changing needs and responsibilities of the clinical microbiology field Clinical Microbiology Procedures Handbook Fourth Edition has been extensively reviewed and updated to present the most prominent procedures in use today The Clinical Microbiology Procedures Handbook provides step by step protocols and descriptions that allow clinical microbiologists and laboratory staff personnel to confidently and accurately perform all analyses including appropriate quality control recommendations from the receipt of the specimen through processing testing interpretation presentation of the final report and subsequent consultation If you are looking for online access to the latest from this reference or site access for your lab please visit www.wiley.com/learn/clinmicronow

Laboratory manual for yellow fever World Health Organization, 2024-01-25 This WHO laboratory manual provides the most up to date methods and procedures for the laboratory identification of yellow fever virus infection in humans It provides guidance on the establishment and maintenance of an effective laboratory providing routine surveillance testing for yellow fever which operates within the WHO coordinated Global Yellow Fever Laboratory Network GYFLaNet capable of providing confirmation of yellow fever infection reliably and timely This second edition supersedes the first edition of the 2004 WHO manual for the monitoring of yellow fever virus infection Practical manual on tuberculosis laboratory strengthening

World Health Organization, 2022-10-31 **Handbook of the Laboratory Diagnosis and Treatment of Infertility** Brooks A. Keel, Bobby W. Webster, 1990-06-22 This book provides comprehensive detailed and step by step descriptions of materials and methods currently used in laboratory procedures within the infertility clinic It addresses the numerous highly sophisticated procedures resulting from research in the area of laboratory diagnosis and treatment of infertility Among those procedures covered are **Manual of Molecular and Clinical Laboratory Immunology** John L. Schmitz, Barbara

Detrick, Maurice R. O'Gorman, 2024-12-24 THE authoritative guide for clinical laboratory immunology For nearly 50 years the Manual of Molecular and Clinical Laboratory Immunology has been the premier resource for laboratories students and professionals involved in the clinical and technical details of diagnostic immunology testing The 9th Edition continues its tradition of providing comprehensive clinical and technical information on the latest technologies used in medical and diagnostic immunology Led by a world renowned group of authors and editors this new edition reflects substantial changes aimed at improving and updating the Manual's utility while reflecting the significant transformations that have occurred since the last edition including the revolution of gene editing and the widespread adoption of molecularly engineered cellular therapies Topical highlights include Laboratory Management three new chapters cover essential aspects of quality assurance quality improvement and quality management aligning with the increasingly stringent and demanding regulatory environment Inborn Errors of Immunity the primary immunodeficiency section has been completely updated to align with the latest International Union of Immunological Societies classifications of inborn errors of immunity Functional Cellular Assays

expanded content includes detailed discussions on various functional assays critical for modern immunologic testing Autoimmune Diseases expanded chapters on systemic and organ specific autoimmune disorders including new chapters on Sjgren s syndrome and deficiency of ADA2 as well as significant updates on organ specific autoimmune diseases Transplantation Immunology updated chapters detail the assessment of immune reconstitution and ABO testing reflecting latest practices The 9th Edition of the Manual of Molecular and Clinical Laboratory Immunology serves as an invaluable resource for laboratory directors clinicians laboratory managers technologists and students It provides critical insights into the selection application and interpretation of immunologic tests offering practical guidance on troubleshooting clinical application and an understanding of test limitations This comprehensive and up to date manual remains an essential tool for anyone involved in the diagnosis evaluation and management of immune mediated and immune system related disorders

Manual of Molecular Microbiology Randall T. Hayden, Karen C. Carroll, John P. Dekker, Alexander J. McAdam, Donna M. Wolk, 2025-05-30 Your essential guide to design operation management and health care integration of the modern molecular microbiology laboratory This comprehensive resource offers definitive guidance on the operational and interpretive aspects of clinical molecular microbiology Tailored for medical laboratory professionals it provides practical how to guidance for establishing maintaining and advancing molecular microbiology testing services and details the unique expertise required to support infectious disease diagnostics The Manual offers a clear and practical roadmap for topics ranging from selecting appropriate technologies instruments and analytic pipelines to navigating complex interpretive challenges and positioning diagnostic testing services for future clinical and population health needs Beginning with foundational technologies and their clinical applications this book offers accessible overviews of each method s potential implications and emerging roles Subsequent sections dive meticulously into details of laboratory setup design and operations empowering readers with hands on insights for routine and advanced testing methods including advanced sequencing technologies It also tackles the nuanced challenges of interpreting and reporting results from cutting edge diagnostics including those focused on antimicrobial resistance and metagenomics The final section explores the broader impact of molecular microbiology on value based care with discussions on clinical management laboratory stewardship and the future of molecular diagnostics in public health Comprehensive and forward looking the Manual of Molecular Microbiology equips readers with both foundational knowledge and practical expertise making it an indispensable reference for today s clinical laboratory professionals

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