

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

Nicola Pusterla, Jill Higgins



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 **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 *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 **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 *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 **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

Manual of Qualitative Analysis for Use in the Chemical Laboratory of Dartmouth College Leon Burr Richardson,Andrew Jackson Scarlett,1921 **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

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 The Wildlife Techniques Manual Nova J. Silvy,2020-07-28 The 1 selling wildlife management book for 40 years now updated for the next generation of professionals and students Since its original publication in 1960 The Wildlife Techniques Manual has remained the cornerstone text for the professional wildlife biologist Now fully revised and updated this eighth edition promises to be the most comprehensive resource on wildlife biology conservation and management for years to come Superbly edited by Nova J Silvy and published in association with The Wildlife Society the 50 authoritative chapters included in this work provide a full synthesis of methods used in the field and laboratory Chapter authors all leading wildlife professionals explain and critique traditional and new methodologies and offer thorough discussions of a wide range of relevant topics To effectively incorporate the explosion of new information in the wildlife profession this latest edition is logically organized into a 2 volume set Volume 1 is devoted to research techniques and Volume 2 focuses on pragmatic management methodologies Volume 1 describes research design and proper analytic

methods prior to conducting research as well as methods and considerations for capturing and handling wild animals and information on identification and marking of captured animals It also includes new chapters on nutritional research and field sign identification and on emerging topics including structured decision making Finally Volume 1 addresses measurements of wildlife abundance and habitat and research on individual animals Volume 2 begins with a section on the relationship between research and management including public outreach described in a context that encourages engagement prior to initiation of management An adaptive management approach is described as a cornerstone of natural resource management followed by a section on managing landscapes and wildlife populations The volume also includes new chapters on ethics in wildlife science and conservation conflict resolution and management and land reclamation A standard text in a variety of courses the Techniques Manual as it is commonly called covers every aspect of modern wildlife management and provides practical information for applying the hundreds of methods described in its pages This deft and thorough update ensures that The Wildlife Techniques Manual will remain an indispensable resource one that professionals and students in wildlife biology conservation and management simply cannot do without

Food Analysis Laboratory Manual S. Suzanne Nielsen, 2010-03-20 This second edition laboratory manual was written to accompany Food Analysis Fourth Edition ISBN 978 1 4419 1477 4 by the same author The 21 laboratory exercises in the manual cover 20 of the 32 chapters in the textbook Many of the laboratory exercises have multiple sections to cover several methods of analysis for a particular food component of characteristic Most of the laboratory exercises include the following introduction reading assignment objective principle of method chemicals reagents precautions and waste disposal supplies equipment procedure data and calculations questions and references This laboratory manual is ideal for the laboratory portion of undergraduate courses in food analysis

Manual of Molecular Microbiology Randall T. Hayden, Karen C. Carroll, John P. Dekker, Alexander J. McAdam, Donna M. Wolk, 2025-07-02 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 *Biochemical and Molecular Basis of Pediatric Disease* Edward C.C. Wong, Dennis J.

Dietzen, Michael J. Bennett, Shannon Haymond, 2021-05-13 *Biochemical and Molecular Basis of Pediatric Disease* Fifth Edition has been a well respected reference in the field for decades This revision continues the strong focus on understanding the pathogenesis of pediatric disease emphasizing not only the important role of the clinical laboratory in defining parameters that change with the disease process but also the molecular basis of many pediatric diseases Provides a fully updated resource with more color illustrations Focuses on the biochemical and molecular basis of disease as well as the analytical techniques Defines important differences in the pathophysiology of diseases comparing childhood with adult *New York State Journal of Medicine*, 1920

Clinical Laboratory Management Timothy C. Allen, Vickie S. Baselski, Deirdre L. Church, Donald S. Karcher, Michael R. Lewis, Andrea J. Linscott, Melinda D. Poulter, Gary W. Procop, Alice S. Weissfeld, Donna M. Wolk, 2024-03-25 *Clinical Laboratory Management* Apply the principles of management in a clinical setting with this vital guide *Clinical Laboratory Management* Third Edition edited by an esteemed team of professionals under the guidance of editor in chief Lynne S Garcia is a comprehensive and essential reference for managing the complexities of the modern clinical laboratory This newly updated and reorganized edition addresses the fast changing landscape of laboratory management presenting both foundational insights and innovative strategies Topics covered include an introduction to the basics of clinical laboratory management the regulatory landscape and evolving practices in the modern healthcare environment the essence of managerial leadership with insights into employee needs and motivation effective communication and personnel management including the lack of qualified position applicants burnout and more financial management budgeting and strategic planning including outreach up to date resources for laboratory coding reimbursement and compliance reflecting current requirements standards and challenges benchmarking methods to define and measure success the importance of test utilization and clinical relevance future trends in pathology and laboratory science including developments in test systems human resources and workforce development and future directions in laboratory instrumentation and information technology an entirely new section devoted to pandemic planning collaboration and response lessons learned from COVID 19 and a look towards the future of laboratory preparedness This indispensable edition of *Clinical Laboratory Management* not only meets the needs of today's clinical laboratories but anticipates the future making it a must have resource for laboratory professionals managers and students Get your copy today and equip yourself with the tools strategies and insights to excel in the complex and ever changing world of the clinical laboratory Forensic

Laboratory Management W. Mark Dale, Wendy S. Becker, 2014-09-26 New technologies including DNA and digital databases that can compare known and questioned exemplars have transformed forensic science and greatly impacted the investigative process They have also made the work more complicated Obtaining proper resources to provide quality and timely forensic services is frequently a challenge for forensic managers who are often promoted from casework duties and must now learn a whole new set of leadership skills The interdisciplinary and scientific nature of laboratories requires strong leadership ability to manage complex issues often in adversarial settings Forensic Laboratory Management Applying Business Principles provides laboratory managers with business tools that apply the best science to the best evidence in a manner that increases the efficiency and effectiveness of their management decision making The authors present a performance model with seven recommendations to implement illustrating how forensic managers can serve as leaders and strategically improve the operation and management in scientific laboratories Topics include Key business metrics and cost benefit analyses Ethical lapses why they occur possible motives and how problems can be prevented Forensic training education and institutes ISO IEC 17025 accreditation implementation The book includes case studies simulating a working laboratory in which readers can apply business tools with actual data reinforcing discussion concepts Each chapter also includes a brief review of current literature of the best management theories and practice The downloadable resources supply two mock trial transcripts and associated case files along with PowerPoint slides from Dr George Carmody s workshop on Forensic DNA Statistics and Dr Doug Lucas s presentation on ethics *2021 AACC Annual Scientific Meeting & Clinical Lab Expo* American Association for Clinical Chemistry, 2022-01-04 The 2021 AACC Annual Scientific Meeting Clinical Lab Expo showcased cutting edge science and technology shaping the future of laboratory medicine **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1978

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