

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

....forever

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Zhe Xu

A decorative graphic consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

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Electroanalytical Chemistry Gary A. Mabbott, 2020-01-27 Provides a strong foundation in electrochemical principles and best practices Written for undergraduate majors in chemistry and chemical engineering this book teaches the basic principles of electroanalytical chemistry and illustrates best practices through the use of case studies of organic reactions and catalysis using voltammetric methods and of the measurement of clinical and environmental analytes by potentiometric techniques It provides insight beyond the field of analysis as students address problems arising in many areas of science and technology The book also emphasizes electrochemical phenomena and conceptual models to help readers understand the influence of experimental conditions and the interpretation of results for common potentiometric and voltammetric methods Electroanalytical Chemistry Principles Best Practices and Case Studies begins by introducing some basic concepts in electrical phenomena It then moves on to a chapter that examines the potentiometry of oxidation reduction processes followed by another on the potentiometry of ion selective electrodes Other sections look at applications of ion selective electrodes controlled potential methods case studies in controlled potential methods and instrumentation The book also features several appendixes covering Ionic Strength Activity and Activity Coefficients The Nicolsky Eisenman Equation The Henderson Equation for Liquid Junction Potentials Selected Standard Electrode Potentials and The Nernst Equation Derivation Introduces the principles of modern electrochemical sensors and instrumental chemical analysis using potentiometric and voltammetric methods Develops conceptual models underlying electrochemical phenomena and useful equations Illustrates best practice with short case studies of organic reaction mechanisms using voltammetry and quantitative analysis with ion selective electrodes Offers instructors the opportunity to select focus areas and tailor the book to their course by providing a collection of shorter texts each dedicated to a single field Intended as one of a series of modules for teaching undergraduate courses in instrumental chemical analysis Electroanalytical Chemistry Principles Best Practices and Case Studies is an ideal textbook for undergraduate majors in chemistry and chemical engineering taking instrumental analysis courses It would also benefit professional chemists who need an introduction to potentiometry or voltammetry

Jarvis's Health Assessment and Physical Examination - E-Book Helen Forbes, Elizabeth Watt, 2020-09-25 Increased content on screening for family violence and abuse and mental health assessment A suite of point of view videos demonstrating core health assessment techniques for some of the difficult skills and concepts related to health assessment examinations

Canadian Maternity and Pediatric Nursing Jessica Webster, Caroline Sanders, Susan Ricci, Theresa Kyle, Susan Carmen, 2019-08-14 Canadian Maternity and Pediatric Nursing prepares your students for safe and effective maternity and pediatric nursing practice The content provides the student with essential information to care for women and their families to assist them to make the right choices safely intelligently and with confidence

Clinical Naturopathy Jerome Sarris, Jon Wardle, 2014-08-15 Clinical Naturopathy an evidence based guide to practice 2nd edition E

book by Jerome Sarris and Jon Wardle articulates evidence based clinical practice It details the principles treatment protocols and interventions at the forefront of naturopathic practice in the 21st century Clinical Naturopathy an evidence based guide to practice 2e E book equips you to critically evaluate your patients analyse treatment protocols and provide evidence based prescriptions This second edition promotes the fundamentals of traditional naturopathy while pushing the scientific boundaries and driving the steady evolution of the profession of naturopathic medicine Perfect for Bachelor of Health Science Naturopathy Advanced diploma and Postgraduate students in Naturopathy Western Herbal Medicine Nutrition Homoeopathy Complementary health therapists General Practitioners Nursing students Pharmacy students Benefits Provides an evidence based referenced analysis of the treatment protocols underpinning the therapeutic use of CAM interventions Emphasizes the treatment of patients not diseases within the systems based structure A rigorously researched update of common clinical conditions and their naturopathic treatment according to evidence based guidelines over 5 000 references Bridges conventional medical and naturopathic paradigms to help clinicians facilitate truly integrative models of care Augmented appendices including herb drug interaction charts laboratory reference values food sources of nutrients cancer medication interactions and nutraceutical use Key Treatment Protocols throughout the text offer an evidence based referenced critique Naturopathic Treatment trees for each condition with Treatment Aims boxes that are easy to follow and understand Scientific and traditional evidence validating treatment protocols Decision trees unique figures tables and charts are a great aid to visual learners Expanded Diagnostics chapter including the emerging field of pharmacogenomics New Wellness lifestyle and preventive medicine chapter to explore in detail the core principles of naturopathic practice New Liver dysfunction and disease Headache and migraine and Pain chapters A deepening scientific focus with inclusion of new and emerging naturopathic therapeutics such as injectable nutraceuticals

Cumulated Index Medicus, 1995 *Clinical naturopathic medicine - eBook* Leah Hechtman, 2013-06-03 Clinical Naturopathic Medicine is a foundation clinical text integrating the holistic traditional principles of naturopathic philosophy with the scientific rigour of evidence based medicine EBM to support contemporary practices and principles The text addresses all systems of the body and their related common conditions with clear accessible directions outlining how a practitioner can understand health from a naturopathic perspective and apply naturopathic medicines to treat patients individually These treatments include herbal medicine nutritional medicine and lifestyle recommendations All chapters are structured by system and then by condition so readers are easily able to navigate the content by chapter and heading structure The content is designed for naturopathic practitioners and students both undergraduate and postgraduate levels and for medical and allied health professionals with an interest in integrative naturopathic medicine detailed coverage of naturopathic treatments provides readers with a solid understanding of the major therapeutic modalities used within naturopathic medicine each system is reviewed from both naturopathic and mainstream medical perspectives to correlate the variations and synergies of treatment only clinically

efficacious and evidence based treatments have been included information is rigorously researched over 7500 references from both traditional texts and recent research papers the content skilfully bridges traditional practice and EBM to support confident practitioners within the current health care system

Clinical Biochemistry E-Book William J. Marshall, Márta Lapsley, Andrew Day, Ruth Ayling, 2014-03-05 Essential reading for candidates for the MRCPath examination and similar postgraduate examinations in clinical biochemistry The book gives an overview of the acquisition of data as well as concentrating on clinical aspects of the subject giving detailed coverage of all conditions where clinical biochemistry is used in diagnosis and management In common with other diagnostic specialties clinical biochemistry now uses an increasing number of techniques involving the new biology these are covered in this book It is also increasingly common for medically qualified clinical biochemists to become involved in the clinical management of patients eg nutritional support and material on this will be included From the author of the popular Clinical Chemistry medical student textbook Although there are many competing texts on clinical chemistry the vast majority concentrate on the technology this book concentrates on the clinical Ideally suited for preparation for the MRCPath and similar examination Expanded sections on haematology and immunology for clinical biochemists provide a thorough understanding of both laboratory and clinical aspects New chapters are included on important evolving areas such as the metabolic response to stress forensic aspects of clinical biochemistry and data quality management An extended editorial team including three expert new additions ensures accuracy of information and relevance to current curricula and clinical practice A superb new accompanying electronic version provides an enhanced learning experience and rapid reference anytime anywhere Elsevier ExpertConsult com Enhanced eBooks for medical professionals Compatible with PC Mac most mobile devices and eReaders browse search and interact with this title online and offline Redeem your PIN at expertconsult com today Straightforward navigation and search across all Elsevier titles Seamless real time integration between devices Adjustable text size and brightness Notes and highlights sharing with other users through social media Interactive content

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naturopathic medicine each system is reviewed from both naturopathic and mainstream medical perspectives to correlate the variations and synergies of treatment only clinically efficacious and evidence based treatments have been included information is rigorously researched over 7500 references from both traditional texts and recent research papers the content skilfully bridges traditional practice and EBM to support confident practitioners within the current health care system

Current Catalog National Library of Medicine (U.S.),1980 Includes subject section name section and 1968 1970 technical reports *Hutchison's Atlas of Paediatric Physical Diagnosis* Krishna M Goel,Robert Carachi,2019-02-28 This new edition provides paediatricians and trainees with a complete guide to the physical diagnosis of diseases and disorders in children Divided into 39 sections the book begins with an overview of paediatric history and examination growth and development neonatal medicine genetics and nutrition Each of the following sections covers diagnosis of disorders in different sub specialties Each case is presented in a step by step format describing aetiology pathology clinical features and differential diagnosis in depth The second edition has been fully revised and new chapters on podiatry surgical urology and neurosurgery added Edited by recognised Glasgow based experts this comprehensive atlas features more than 2000 clinical photographs diagrams and tables across nearly 1000 pages Key points Complete guide to diagnosis of paediatric diseases and disorders Fully revised second edition with new topics and more than 2000 images and illustrations Internationally recognised editor and author team Previous edition 9789351521525 published in 2014 **Dacie and Lewis Practical**

Haematology E-Book Barbara J. Bain,Imelda Bates,Mike A. Laffan,2016-08-11 For more than 65 years this best selling text by Drs Barbara J Bain Imelda Bates and Mike A Laffan has been the worldwide standard in laboratory haematology The 12th Edition of Dacie and Lewis Practical Haematology continues the tradition of excellence with thorough coverage of all of the techniques used in the investigation of patients with blood disorders including the latest technologies as well as traditional manual methods of measurement You ll find expert discussions of the principles of each test possible causes of error and the interpretation and clinical significance of the findings A unique section on haematology in under resourced laboratories Ideal as a laboratory reference or as a comprehensive exam study tool diagnosis molecular testing blood transfusion and much more Complete coverage of the latest advances in the field An expanded section on coagulation now covers testing for new anticoagulants and includes clinical applications of the tests **Effects of Disease on Clinical Laboratory Tests** Richard

B. Friedman,Donald S. Young,1989 An aid to determine the possible cause of laboratory test abnormalities encountered in clinical practice Sections include laboratory test index disease keyword index laboratory test listings disease listings by ICD 9CM classification and references **Comprehensive Clinical Nephrology - E-Book** Richard J. Johnson,Jurgen

Floege,Marcello Tonelli,2023-03-15 Written for fellows practicing nephrologists and internists who treat patients with disorders affecting the renal system Comprehensive Clinical Nephrology 7th Edition offers a practical approach to this complex field supported by underlying scientific facts and pathophysiology World leaders in nephrology provide current

information on clinical procedures and conditions covering everything from fluid and electrolyte disorders to hypertension diabetes dialysis transplantation and more all in a single convenient volume Provides a just right amount of basic science and practical clinical guidance to help you make efficient and informed decisions Contains new chapters on Blood Pressure Management in the Dialysis Patient Kidney Diseases Associated with Corona Viruses Ultrasound Imaging in Nephrology and Radiologic and Nuclear Imaging in Nephrology Includes more than 1 500 full color illustrations that highlight key topics and detail pathogenesis for a full range of kidney conditions and clinical management Covers key topics such as COVID 19 chronic kidney disease end stage kidney disease kidney transplantation glomerular disease onco nephrology dialysis and much more Features popular color coded algorithms that provide easy access to important content yellow boxes for general information green boxes for therapeutic intervention and blue boxes for necessary investigations Includes quick reference boxes with links to clinical guidelines in all relevant chapters plus self assessment questions online An eBook version is included with purchase The eBook allows you to access all of the text figures and references with the ability to search customize your content make notes and highlights and have content read aloud

Critical Care Nephrology E-Book

Claudio Ronco,Rinaldo Bellomo,John Kellum,Zaccaria Ricci,2017-12-14 Comprehensive and clinically relevant the 3rd Edition of Critical Care Nephrology provides authoritative coverage of the latest advances in critical care procedures for patients with renal diseases or disorders Using common guidelines and standardized approaches to critically ill patients this multidisciplinary reference facilitates better communication among all physicians who care for critically ill patients suffering from kidney disease electrolyte and metabolic imbalances poisoning severe sepsis major organ dysfunction and other pathological events Offers detailed discussions of different forms of organ support artificial organs infections acute illness occurring in chronic hemodialysis patients and much more Places a special emphasis on therapeutic interventions and treatment procedures for a hands on clinical reference tool Presents information clearly in a format designed for easy reference from basic sciences to clinical syndromes to diagnostic tools Covers special populations such as children diabetic patients and the elderly An exceptional resource for nephrologists intensivists surgeons or critical care physicians anyone who treats critically ill renal patients Shares a combined commitment to excellence lead by Drs Claudio Ronco Rinaldo Bellomo John Kellum and Zaccaria Ricci unparalleled leaders in this field Addresses key topics with expanded coverage of acute kidney injury stress biomarkers and sepsis including the latest developments on mechanisms and management Provides up to date information on extracorporeal therapies from new editor Dr Zaccaria Ricci Expert Consult™ eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures and references from the book on a variety of devices

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written in the main by veterinary nurses this book comprehensively covers all aspects of the veterinary nursing role from client communication to nutritional support All chapters have been revised in line with changes in legislation and regulation but also theoretical and practical aspects Greater emphasis on the veterinary practice structure including the role of corporate businesses and use of social media bring this edition fully up to date The new edition welcomes Nicola Ackerman as principal editor Nicola is past officer of the BVNA and past executive editor of the Veterinary Nursing Journal Nicola is a winner of several awards including the Blue Cross BVNA Veterinary Nurse of the Year and the Barbara Cooper CAW Professional Development Award for outstanding service to the veterinary nursing profession Nicola was the first Veterinary Nurse in the UK to become a veterinary nurse specialist in nutrition Evolve Resources containing Self assessment questions for every chapter to test learning Image Bank of over 700 figures Additional chapters Comprehensive content ideal for both student and qualified veterinary nurses Over 700 full colour illustrations for enhanced understanding Written by veterinary nurses for veterinary nurses Recommended reading given for each chapter to aid further research New chapters on Emergency Critical care Fluid therapy Practice and Staff management and Consulting skills Anaesthesia and Analgesia chapter fully revised and updated New chapter on Equine Behaviour and Handling including recognition of pain in equines

Biomedical Science Practice Hedley Glencross, Nessar Ahmed, Qiuyu Wang, 2010-10-14 Case studies and other examples enrich the text firmly rooting it in the context of clinical and biomedical practice Book Jacket **The Royal Marsden Manual of Clinical Nursing Procedures** Lisa Dougherty, Sara Lister, Alex West-Oram, 2015-03-17 The Royal Marsden Manual of Clinical Nursing Procedures has been the number one choice for nurses since it first published over 30 years ago One of the world's most popular books on clinical skills and procedures it provides detailed procedure guidelines based on the latest research findings and expert clinical advice enabling nurses and students to deliver clinically effective patient focused care The ninth edition of this essential definitive guide written especially for pre registration nursing students now includes a range of new learning features throughout each chapter that have been designed to support student nurses to support learning in clinical practice Providing essential information on over 200 procedures this manual contains all the skills and changes in practice that reflect modern acute nursing care National Library of Medicine Current Catalog National Library of Medicine (U.S.), **Practical Flow Cytometry in Haematology Diagnosis** Mike Leach, Mark Drummond, Allyson Doig, 2013-01-30 The accurate diagnosis of haematologic malignancies is a complex and challenging task It routinely involves morphologic molecular cytogenetic and flow cytometric expertise To determine what treatment protocol will be followed it is vital to integrate interpret and report these results accurately Flow cytometry is key in this diagnostic pathway This book guides the reader as to how flow cytometry results should be interpreted and applied to optimize patient care At the core of this text is an appreciation of clinical morphological and immunophenotypic correlation and the importance of constant liaison and discussion between the medical and scientific teams The authors present a logical and

practical approach to the diagnosis of blood disorders both neoplastic and reactive and evaluate the diagnostic applications of flow cytometry Practical Flow Cytometry in Haematology Diagnosis provides A clinical reference source on all aspects of flow cytometry covering both malignant and benign conditions Carefully chosen real life cases in each chapter complemented by high quality morphological images Help in making a diagnosis together with an understanding of the limitations of the technique and the potential pitfalls All those who instigate perform interpret or act upon flow cytometry patient material will find this book an invaluable guide

Medical Conditions Affecting Pregnancy and Childbirth Judy Bothamley, Maureen Boyle, 2020-07-24 Midwives are encountering more and more women whose pregnancies are complicated by medical conditions The number of women with cardiac disease becoming pregnant is growing each year obesity older age and the complex health problems of women born outside the United Kingdom have also been identified as key factors and women with serious medical c

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