Guidelines For The Clinical Care Of Thalassemia

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The Thalassaemia Syndromes - David J. Weatherall 2008-04-30
In the new edition of this successful and authoritative book, the thalassaemias are reviewed in detail with respect to their clinical features, cellular pathology, molecular genetics, prevention and treatment. It is aimed at specialists in haematology in the laboratory or clinical setting, particularly in areas where thalassaemia is common either in the native population or in immigrant communities. The fourth edition has been both updated and re-organized. Three new chapters have been added on the link between alpha-thalassaemia and mental retardation, on avoidance and population control and on global epidemiology. Considerable emphasis is placed on molecular pathology reflecting the huge burst of information to have come out of this field in the last few years.
Oxygen Therapy for Children - World Health Organization 2017-03-14
"Hypoxaemia is a major contributor to child deaths that occur worldwide each year; for a child with pneumonia hypoxaemia increases the risk of death by up to 5 times. Despite its importance in virtually all types of acute severe illness, hypoxaemia is often not well recognized or well managed more so in settings where resources are limited. Oxygen therapy remains an inaccessible luxury for a large proportion of severely ill children admitted to hospitals in developing countries. This is particularly true for patients in small district hospitals, where, even if some facility for delivering oxygen is available, supplies are often unreliable and the benefits of treatment may be diminished by poorly maintained, inappropriate equipment or poorly trained staff with inadequate guidelines. Increasing awareness of these problems is likely to have considerable clinical and public health benefits in the care of severely ill children. Health workers should be able to know the clinical signs that suggest the presence of hypoxaemia and have more reliable means of detection of hypoxaemia. This be achieved through more widespread use of pulse oximetry, which is a non-invasive measure of arterial oxygen saturation. At the same time oxygen therapy must be more widely available; in many remote settings, this can be achieved by use of oxygen concentrators, which can run on regular or alternative sources of power. Having effective systems for the detection and management of hypoxaemia are vital in reducing mortality from pneumonia and other severe acute illnesses. Oxygen therapy is essential to counter hypoxaemia and many a times is the difference between life and death. This manual focuses on the availability and clinical use of oxygen therapy in children in health facilities by providing the practical aspects for health workers, biomedical engineers, and administrators. It addresses the need for appropriate detection of hypoxaemia, use of pulse oximetry, clinical use of oxygen and delivery systems and monitoring of patients on oxygen therapy. In addition, the manual addresses practical use of pulse oximetry, and oxygen concentrators and cylinders in an effort to improve oxygen systems worldwide."--Publisher's description
The Thalassemias - D. J. Weatherall 1983

Treatment of Pulmonary Hypertension - Brendan Madden 2015-08-10
This title will be presented as highly practical information on pharmaceutical options in pulmonary hypertension, written in a quick-access, no-nonsense format. The emphasis will be on a just-the-facts clinical approach, heavy on tabular material, light on dense prose. The involvement of the ISCP will ensure that the best quality contributors will be involved and establish a consistent approach to each topic in the series. Each volume is designed to be between 100 and 150 pages containing practical illustrations and designed to improve understand and practical usage of cardiovascular drugs in specific clinical areas.
Advanced Models of Cognition for Medical Training and Practice - David A. Evans 1992-11-10
Cognitive science is a multidisciplinary science concerned with understanding and utilizing models of cognition. It has spawned a great dealof research on applications such as expert systems and intelligent tutoring systems, and has interacted closely with psychological research. However, it is generally accepted that it is difficult to apply cognitive-scientific models to medical training and practice. This book is based on a NATO Advanced Research Workshop held in Italy in 1991, the purpose of which was to examine the impact ofmodels of cognition on medical training and practice and to outline future research programmes relating cognition and education, and in particular to consider the potential impact of cognitive science on medical training and practice. A major discovery presented in the book is that the research areas related to artificial intelligence, cognitive psychology, and medical decision making are considerably closer, both conceptually and theoretically, than many of the workshop participants originally thought.
CDC Yellow Book 2018: Health Information for International Travel - Centers for Disease Control and Prevention CDC 2017-04-17
THE ESSENTIAL WORK IN TRAVEL MEDICINE -- NOW COMPLETELY UPDATED FOR 2018 As unprecedented numbers of travelers cross international borders each day, the need for up-to-date, practical information about the health challenges posed by travel has never been greater. For both international travelers and the health professionals who care for them, the CDC Yellow Book 2018: Health Information for International Travel is the definitive guide to staying safe and healthy anywhere in the world. The fully revised and updated 2018 edition codifies the U.S. government's most current health guidelines and information for international travelers, including pretravel vaccine recommendations, destination-specific health advice, and easy-to-reference maps, tables, and charts. The 2018 Yellow Book also addresses the needs of specific types of travelers, with dedicated sections on: · Precautions for pregnant travelers, immunocompromised travelers, and travelers with disabilities · Special considerations for newly arrived adoptees, immigrants, and refugees · Practical tips for last-minute or resource-limited travelers · Advice for air crews, humanitarian workers, missionaries, and others who provide care and support overseas Authored by a team of the world's most esteemed travel medicine experts, the Yellow Book is an essential resource for travelers -- and the clinicians overseeing their care -- at home and abroad.
Standards for the Clinical Care of Adults with Sickle Cell Disease in the UK - 2018-04

Management and Therapy of Sickle Cell Disease - Clarice D. Reid 1995-02
Serves as a guide for the health care worker involved in the management of patients with sickle cell disease. Represents a collective summary of experiences with therapeutic regimens rather than the by-product of controlled clinical trials. Referred to as the Bible or "cookbook". Covers: child, adolescent and adult health care maint.; patient care coord.; psychosocial mgmt.; newborn screening; infection; painful events; lung; stroke; transfusion; eye; contraception and pregnancy; prenatal diagnosis; gallbladder& liver; leg ulcers; bones and joints; etc.
Iron Chelation Therapy - Chaim Hershko 2012-12-06
Within the last few years, iron research has yielded exciting new insights into the under standing of normal iron homeostasis. However, normal iron physiology offers little protec tion from the toxic effects of

pathological iron accumulation, because nature did not equip us with effective mechanisms of iron excretion. Excess iron may be effectively removed by phlebotomy in hereditary hemochromatosis, but this method cannot be applied to chronic anemias associated with iron overload. In these diseases, iron chelating therapy is the only method available for preventing early death caused mainly by myocardial and hepatic iron toxicity. Iron chelating therapy has changed the quality of life and life expectancy of thalassemic patients. However, the high cost and rigorous requirements of deferoxamine therapy, and the significant toxicity of deferiprone underline the need for the continued development of new and improved orally effective iron chelators. Such development, and the evolution of improved strategies of iron chelating therapy require better understanding of the pathophysiology of iron toxicity and the mechanism of action of iron chelating drugs. The timeliness of the present volume is underlined by several significant develop ments in recent years. New insights have been gained into the molecular basis of aberrant iron handling in hereditary disorders and the pathophysiology of iron overload (Chapters 1-5).

Thalassemia, An Issue of Hematology/Oncology Clinics of North America - Edward J. Benz,Jr 2023-04-28

In this issue of Hematology/Oncology Clinics, guest editors Drs. Edward J. Benz, Jr. and Vijay G. Sankaran bring their considerable expertise to the topic of Thalassemia. Top experts in the field provide an overview of the history, epidemiology, pathogenic mechanisms, and clinical management of the thalassemia syndromes. Contains 16 practice-oriented topics including molecular basis and genetic modifiers of thalassemia; fetal hemoglobin in thalassemia; clinical complications and their management; iron chelation in thalassemia; fertility and pregnancy in women with transfusion-dependent thalassemia; gene therapy and genome editing in thalassemia; emerging medical therapies for thalassemia; and more. Provides in-depth clinical reviews on thalassemia, 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.

WHO Recommendations on Antenatal Care for a Positive Pregnancy Experience - World Health Organization 2017-01-15

Within the continuum of reproductive health care, antenatal care provides a platform for important health-care functions, including health promotion, screening and diagnosis, and disease prevention. It has been established that, by implementing timely and appropriate evidence-based practices, antenatal care can save lives. Endorsed by the United Nations Secretary-General, this is a comprehensive WHO guideline on routine antenatal care for pregnant women and adolescent girls. It aims to complement existing WHO guidelines on the management of specific pregnancy-related complications. The guidance captures the complex nature of the antenatal care issues surrounding healthcare practices and delivery, and prioritizes person-centered health and well-being --- not only the prevention of death and morbidity --- in accordance with a human rights-based approach.

Frontiers in Clinical Drug Research - Hematology: Volume 5 - Atta-ur-Rahman 2022-03-08

Frontiers in Clinical Drug Research – Hematology is a book series that brings updated reviews to readers interested in learning about advances in the development of pharmaceutical agents for the treatment of hematological disorders. The scope of the book series covers a range of topics including the medicinal chemistry, pharmacology, molecular biology and biochemistry of natural and synthetic drugs employed in the treatment of anemias, coagulopathies, vascular diseases and hematological malignancies. Reviews in this series also include research on specific antibody targets, therapeutic methods, genetic hemoglobinopathies and pre-clinical / clinical findings on novel pharmaceutical agents. Frontiers in Clinical Drug Research – Hematology is a valuable resource for pharmaceutical scientists and postgraduate students seeking updated and critically important information for developing clinical trials and devising research plans in the field of hematology, oncology and vascular pharmacology. The fifth volume of this series features 7 reviews with a focus on thalassemia treatment and preeclampsia among other topics. - Recent advances in the diagnosis and management of pulmonary embolism - An evidence-based approach to treatment with iron chelators in transfusion- dependent thalassemia patients: present trends and future scenario - Current and future treatments of iron overload in thalassemia patients - Preeclampsia: biological and clinical aspects - Haematological modulations by fixed dose combination (FDC) of tramadol hydrochloride/paracetamol (THP) - Possible use of eculizumab in critically ill patients infected with covid-19 role of complement c5, neutrophils, and nets in the induction DIC, sepsis, and MOF hematological markers - Emerging diagnostic and therapeutic targets in preeclampsia

Variant Haemoglobins - Barbara J. Bain 2011-06-28

Variant Haemoglobins – A Guide to Identification is based on the premise that any single diagnostic technique offers only a very provisional identification of a variant haemoglobin. In routine diagnostic practice two techniques are needed as a minimum, with the results being interpreted in the light of the clinical details, blood count, blood film and ethnic origin. This book covers 150 normal and variant haemoglobins that have been studied and carefully documented. Variant Haemoglobins has four introductory chapters followed by an invaluable atlas. The introductory chapters cover the genetics of haemoglobin synthesis the principles of tests employed for identification common haemoglobins of major clinical or diagnostic importance thalassaemias and related conditions The atlas section comprises 170 full colour pages in which each variant haemoglobin or combination of haemoglobins is illustrated by cellulose acetate electrophoresis at alkaline pH, agarose gel electrophoresis at acid pH, isoelectric focusing and one or more HPLC traces. For ease of reference, the atlas pages are arranged according to the retention time of each haemoglobin on HPLC, this becoming increasingly the primary technique employed in haemoglobin identification. Bringing a mix of necessary scientific expertise and clinical knowledge, each author has more than 30 years experience in the diagnosis of variant haemoglobins. Providing otherwise unavailable information, this unique and practical guide is illustrated with over 700 high quality colour digital images plus flow charts and line diagrams covers common and important haemoglobin variants, in addition to many rarer ones is an essential reference source for diagnosis in the haematology laboratory A remarkably useful book, Variant Haemoglobins will be valuable for haematopathologists, clinical and laboratory haematologists in practice and in training and all laboratory staff involved in haemoglobinopathy diagnosis.

Sickle Cell Pain - Samir K. Ballas 2015-06-01

Sickle Cell Pain is a panoramic, in-depth exploration of every scientific, human, and social dimension of this cruel disease. This comprehensive, definitive work is unique in that it is the only book devoted to sickle cell pain, as opposed to general aspects of the disease. The 752-page book links sickle cell pain to basic, clinical, and translational research, addressing various aspects of sickle pain from molecular biology to the psychosocial aspects of the disease. Supplemented with patient narratives, case studies, and visual art, Sickle Cell Pain’s scientific rigor extends through its discussion of analgesic pharmacology, including abuse-deterrent formulations. The book also addresses in great detail inequities in access to care, stereotyping and stigmatization of patients, the implications of rapidly evolving models of care, and recent legislation and litigation and their consequences.

Disorders of Hemoglobin - Martin H. Steinberg 2009-08-17

This book is a completely revised new edition of the definitive reference on disorders of hemoglobin. Authored by world-renowned experts, the book focuses on basic science aspects and clinical features of hemoglobinopathies, covering diagnosis, treatment, and future applications of current research. While the second edition continues to address the important molecular, cellular, and genetic components, coverage of clinical issues has been significantly expanded, and there is more practical emphasis on diagnosis and management throughout. The book opens with a review of the scientific underpinnings. Pathophysiology of common hemoglobin disorders is discussed next in an entirely new section devoted to vascular biology, the erythrocyte membrane, nitric oxide biology, and hemolysis. Four sections deal with α and β thalassemia, sickle cell disease, and related conditions, followed by special topics. The second edition concludes with current and developing approaches to treatment, incorporating new agents for iron chelation, methods to induce fetal hemoglobin production, novel treatment approaches, stem cell transplantation, and progress in gene therapy.

Brain Neurotrauma - Firas H. Kobeissy 2015-02-25

Every year, an estimated 1.7 million Americans sustain brain injury. Long-term disabilities impact nearly half of moderate brain injury survivors and nearly 50,000 of these cases result in death. Brain Neurotrauma: Molecular, Neuropsychological, and Rehabilitation Aspects provides a comprehensive and

up-to-date account on the latest developments in the area of neurotrauma, including brain injury pathophysiology, biomarker research, experimental models of CNS injury, diagnostic methods, and neurotherapeutic interventions as well as neurorehabilitation strategies in the field of neurotraum research. The book includes several sections on neurotrauma mechanisms, biomarker discovery, neurocognitive/neurobehavioral deficits, and neurorehabilitation and treatment approaches. It also contains a section devoted to models of mild CNS injury, including blast and sport-related injuries. Over the last decade, the field of neurotrauma has witnessed significant advances, especially at the molecular, cellular, and behavioral levels. This progress is largely due to the introduction of novel techniques, as well as the development of new animal models of central nervous system (CNS) injury. This book, with its diverse coherent content, gives you insight into the diverse and heterogeneous aspects of CNS pathology and/or rehabilitation needs.

Haemoglobinopathy Diagnosis - Barbara J. Bain 2020-02-28

An updated, essential guide for the laboratory diagnosis of haemoglobin disorders This revised and updated third edition of Haemoglobinopathy Diagnosis offers a comprehensive review of the practical information needed for an understanding of the laboratory diagnosis of haemoglobin disorders. Written in a concise and approachable format, the book includes an overview of clinical and laboratory features of these disorders. The author focuses on the selection, performance, and interpretation of the tests that are offered by the majority of diagnostic laboratories. The book also explains when more specialist tests are required and explores what specialist referral centres will accomplish. The information on diagnosis is set in a clinical context. The third edition is written by a leading haematologist with a reputation for educational excellence. Designed as a practical resource, the book is filled with illustrative examples and helpful questions that can aide in the retention of the material presented. Additionally, the author includes information on the most recent advances in the field. This important text: • Contains a practical, highly illustrated, approach to the laboratory diagnosis of haemoglobin disorders • Includes “test-yourself” questions and provides an indispensable tool for learning and teaching • Presents new material on antenatal screening/prenatal diagnostic services • Offers myriad self-assessment case studies that are ideal for the trainee Written for trainees and residents in haematology, practicing haematologists, and laboratory scientists, Haemoglobinopathy Diagnosis is an essential reference and learning tool that provides a clear basis for understanding the diagnosis of haemoglobin disorders.

Prevention of Thalassaemias and Other Haemoglobin Disorders - Carlo Renzo 2003

Volume 1 of the Prevention Book presents the principles of a programme for the prevention of the thalassaemia and other haemoglobin disorders, including a description of the various types of disorders requiring prenatal diagnosis, the strategies used for carrier screening, and a number of annexes listing upto date epidemiological and mutation data on thalassaemia. This book was written for use in combination with Volume 2, which describes many of the laboratory protocols in great detail.

Medical Eligibility Criteria for Contraceptive Use - World Health Organization 2010

Medical Eligibility Criteria for Contraceptive Use reviews the medical eligibility criteria for use of contraception, offering guidance on the safety and use of different methods for women and men with specific characteristics or known medical conditions. The recommendations are based on systematic reviews of available clinical and epidemiological research. It is a companion guideline to Selected Practice Recommendations for Contraceptive Use. Together, these documents are intended to be used by policy-makers, program managers, and the scientific community to support national programs in the preparation of service delivery guidelines. The fourth edition of this useful resource supersedes previous editions, and has been fully updated and expanded. It includes over 86 new recommendations and 165 updates to recommendations in the previous edition. Guidance for populations with special needs is now provided, and a new annex details evidence on drug interactions from concomitant use of antiretroviral therapies and hormonal contraceptives. To assist users familiar with the third edition, new and updated recommendations are highlighted. Everyone involved in providing family planning services and contraception should have the fourth edition of Medical Eligibility Criteria for Contraceptive Use at hand.

Biosafety in Microbiological and Biomedical Laboratories - Centers for Disease Control (U.S.) 1988

Guidelines for Nurse Practitioners in Ambulatory Obstetric Settings, Second Edition - Nancy J. Cobulka, PhD, WHNP, BC, FNP 2017-04-19

Praise for the First Edition: "This is a concise, yet comprehensive book. I would recommend that any advanced practice nurse working in obstetrics have it on the bookshelf. It could also be used as a protocol manual for small practices." Score: 100, 5 Stars --Doody's Medical Reviews The only comprehensive source of current, evidence-based guidelines for nurse practitioners, nurse-midwives, clinical nurse specialists, and other health professionals who provide prenatal and postpartum care in outpatient settings, this clinical reference covers the latest health care guidelines in an easy-to-read, outline format. With three new chapters, Obesity in Pregnancy, Dermatological Concerns, and Preventing Zika in Pregnancy, the second edition has also been updated to include new guidelines from professional organizations such as the Association of Women's Health, Obstetric and Neonatal Nurses; American Congress of Obstetricians and Gynecologists; American Academy of Pediatricians; and the U.S. Preventive Services Task Force. Delivered in a convenient, spiral-bound format for health professionals in a busy clinical practice setting, this guide addresses clinical topics and practice standards regarding preconception, prenatal, and postpartum nursing care. Topics are broken down into definition, etiology, history, physical exam, lab exam, differential diagnosis, treatment, complications, consultation/referral, and follow-up. Sections provide in-depth detail on genetic counseling, health promotion and assessment, lactation issues, and medications during pregnancy. Tables and diagrams further illustrate and reinforce the content, and numerous web addresses are provided. New to the Second Edition: Three new chapters, Obesity in Pregnancy, Dermatological Concerns, and Preventing Zika in Pregnancy New and updated guidelines from the Association of Women's Health, Obstetric and Neonatal Nurses; American Congress of Obstetricians and Gynecologists; American Academy of Pediatricians; and the U.S. Preventive Services Task Force New clinical updates on genetic screening and testing, nausea and vomiting, use of low-dose aspirin to prevent pregnancy complications, HIV prevention using PrEP, breastfeeding, avoidance of nonmedically indicated early-term delivery, and use of marijuana and heroin New nomenclature for preeclampsia Updated information on healthy preconception care Key Features: Comprises the only comprehensive source of current guidelines for nurse practitioner care of obstetric patients in ambulatory settings Presents complete guidelines in consistent, easy-to-access outline format Written by board-certified nurse practitioners with more than 50 years of combined women’s health and obstetric/perinatal practice Offers guidelines on identifying complications and when to refer for specialist care

Quality of Life Assessment in Clinical Trials - Maurice J. Staquet 1998

Researchers in all clinical fields are becoming increasingly aware of the importance of quality of life measurements in judging the efficacy of a given treatment, and it is becoming more common for psychological criteria to play an important role in the evaluation of therapies. In the past ten years a number of methods have been developed for carrying out such assessments. Quality of life research does however use special statistical methods which might well be unfamiliar to the clinician. Quality of life assessment in clinical trials: methods and practice explores these methods in a non-mathematical manner, comparing and contrasting the tools available to the clinician, and highlighting any potential pitfalls. It describes the methods used to collect and analyse quality of life data. The book will have widespread appeal to clinical trialists and researchers from a wide range of specialties.

Dental Management of the Medically Compromised Patient - James W. Little 1993

Is an up-to-date, concise, factual reference describing the dental management of patients with selected medical problems. The book offers the dental provider an understanding of how to ascertain the severity and stability of common medical disorders, and make dental management decisions that afford the patient the utmost health and safety. Medical problems are organized to provide a brief overview of the basic disease process, the incidence and prevalence of the disease, pathophysiology, signs and symptoms, laboratory findings, currently accepted medical therapy of each problem, and a detailed explanation and recommendations for specific dental management. The accumulation of evidence-based research over the last few years has allowed the authors to include more specific dental management guidelines in the sixth edition.

Clinical Principles of Transfusion Medicine - Robert W Maitta 2018-02-05

Offering a concise overview of transfusion medicine, including best practices for specific clinical settings, this practical resource by Dr. Robert W. Maitta covers the key information you need to know. Holistic, multidisciplinary coverage and a succinct, easy-to-read format make it essential reading for transfusion specialists, as well as practitioners in other specialties whose patients undergo blood transfusions. Covers the latest advancements in transfusion therapies, hematopoietic stem cells, infectious and non-infectious complications of transfusions, and future directions in transfusion medicine. Discusses special populations, including organ transplant patients; pediatric, obstetric, and geriatric patients; and patients undergoing emergency care. Consolidates fundamental clinical concepts and current practice of transfusion medicine into one convenient resource.

NORD Guide to Rare Disorders - National Organization for Rare Disorders 2003

NORD Guide to Rare Disorders is a comprehensive, practical, authoritative guide to the diagnosis and management of more than 800 rare diseases. The diseases are discussed in a uniform, easy-to-follow format--a brief description, signs and symptoms, etiology, related disorders, epidemiology, standard treatment, investigational treatment, resources, and references.The book includes a complete directory of orphan drugs, a full-color atlas of visual diagnostic signs, and a Master Resource List of support groups and helpful organizations. An index of symptoms and key words offers physicians valuable assistance in finding the information they need quickly.

Molecular Diagnostics - Wayne W. Grody 2009-11-06

Advances in genomic and proteomic profiling of disease have transformed the field of molecular diagnostics, thus leading the way for a major revolution in clinical practice. While the range of tests for disease detection and staging is rapidly expanding, many physicians lack the knowledge required to determine which tests to order and how to interpret results. Molecular Diagnostics provides a complete guide to the use and interpretation of molecular testing in the clinical arena. No other available resource offers this emphasis, comprehensive scope, and practical utility in the clinical setting. Serves as the definitivereference for molecular pathologists worldwide Covers a variety of molecular techniques including next generation sequencing, tumor somatic cell genotyping, infectious and genetic disease tecting, and pharmacogenetics Discusses in the detail issues concerning quality assurance, regulation, ethics, and future directions for the science

Clinical Practice Guidelines For Chronic Kidney Disease - 2002

Acute Care for Elders - Michael L. Malone 2014-07-21

Acute Care for Elders (ACE) is a model of care designed to improve functional outcomes and to improve the processes for the care of older patients. This model includes: an environment of care designed to promote improved function for older patients; an interdisciplinary team that works together to identify/address the vulnerabilities of the older patients; nursing care plans for prevention of disability; early planning to help prepare the patient to return home and a review of medical care to prevent iatrogenic illness. Acute Care for Elders: A Model for Interdisciplinary Care is an essential new resource aimed at assisting providers in developing and sustaining an ACE program. The interdisciplinary approach provides an introduction to the key vulnerabilities of older adults and defines the lessons learned from the Acute Care for Elders model. Expertly written chapters describe critical aspects of ACE: the interdisciplinary approach and the focus on function. The fundamental principles of ACE described in this book will further assist hospital leaders to develop, implement, sustain and disseminate the Acute Care for Elders model of care. Acute Care for Elders: A Model for Interdisciplinary Care is of great value to geriatricians, hospitalists, advance practice nurses, social workers and all others who provide high quality care to older patients.

Gene and Cell Therapies for Beta-Globinopathies - Prem Malik 2017-11-09

Hemoglobin defects, specifically sickle cell disease & thalassemia, combined, constitute the most common monogenic disorders in the world. In fact, nearly 2% of the world’s population carries a globin gene mutation. The transfer of the corrective globin gene through the HSC compartment by allogeneic HSC transplantation (HSCT) has already proven curative in both SCD and thalassemia patients, and provides the proof of concept that genetic manipulation of the defective organ might be equally therapeutic. However, procedural toxicities and the requirement of an HLA-matched sibling donor limit this approach to a fraction of affected individuals. The editors review the progress & the state of the field in HSCT for hemoglobinopathies & shed light on the major changes expected in the next decade. Although allogeneic HSCT is a curative option, it is limited by the availability of matched donors, which are often available only to 15-20% of patients. An alternative to allogeneic HS CT is genetic correction of autologous HSCs, to overcome donor availability & immune side effects. This Book reviews the progress made on additive gene therapy approaches & the current state of the field. Finally, targeted genetic correction is emerging as a novel therapeutic strategy in the hemoglobinopathies. Although ideal, the inefficiency of targeted correction was rate limiting for translation of this technology to the clinic. With advancements in zinc finger nucleases and TALE endonuclease mediated targeted correction, correction frequencies in hematopoietic stem cells is now reaching levels that may become clinically relevant. Furthermore, the ability to generate autologous embryonic stem cell like cells from primary somatic cells (skin fibroblasts or hematopoietic cells) of the affected individual has allowed for the potential application of genetic correction strategies.This Book reviews upcoming genetic strategies to reactivate fetal hemoglobin production and research advances.

Clinical Practice Guidelines for Midwifery & Women's Health - Elsevier Health Sciences 2006

This text presents a compilation of current practices that includes evidence-based, traditional, and empiric care from a wide variety of sources. Each Guideline moves through problem identification and treatment using a standardized format for day-to-day clinical practice with diverse populations. The Guidelines are currently in use by many practices as a way of meeting the American College of Nurse Midwives (ACNM) recommendations, and are acceptable for collaborative practice with physician colleagues.

Practical Guide to Clinical Haematology - Mirza Asif Baig 2018-09-05

Practical Guide to Clinical Haematology stemmed from the strong belief that a doctor should learn, act and spread knowledge. Enriched with relevant case studies, high-quality images, useful diagrams, tables and flowcharts, and appropriate facts and figures, the guidebook is a must-have in the shelves of medical practitioners interested in the study of haemato-lymphoid neoplasms and haematopoietic cells and the treatment and management of leukaemia and lymphoma. The guidebook is current and updated in every sense, covering latest diagnosis methods, treatment regimes, best practices, clinical trials, and recent advances in the field of blood diseases. This is a ready-reckoner that will come in handy for practising clinical haematologists, medical graduates and postgraduates, and students preparing for competitive medical exams.

Thalassemia, An Issue of Hematology/Oncology Clinics of North America, E-Book - Ali Taher 2018-03-07

This issue of Hematology/Oncology Clinics, edited by Dr. Ali Taher, focuses on Thalassemia. Topics include, but are not limited to, Molecular basis and genetic modifiers; Evolving spectrum of epidemiology; Clinical classification; Ineffective erythropoiesis, anemia and iron overload; Hypercoagulability and vascular disease; Clinical complications and their management; Transfusion and iron chelation therapy; Hematopoietic Stem Cell Transplantation in Thalassemia; Gene therapy and genome editing; Emerging therapies; Quality of life; Advances in understanding pathophysiology and treatment of fertility, pregnancy, and prenatal diagnosis in Thalassemia; and MRI for iron overload.

Guidelines on Hepatitis B and C Testing - World Health Organization 2018-02-06

Testing and diagnosis of hepatitis B (HBV) and C (HCV) infection is the gateway for access to both prevention and treatment services, and is a crucial component of an effective response to the hepatitis epidemic. Early identification of persons with chronic HBV or HCV infection enables them to receive the necessary care and treatment to prevent or delay progression of liver disease. Testing also provides an opportunity to link people to interventions to reduce transmission, through counselling on risk behaviors and provision of prevention commodities (such as sterile needles and syringes) and hepatitis B vaccination. These are the first WHO guidelines on testing for chronic HBV and HCV infection and complement published guidance by WHO on the prevention, care and treatment of chronic hepatitis C and hepatitis B infection. These guidelines outline the public health approach to strengthening and expanding current testing practices for HBV and HCV, and are intended for use across age groups and populations.

Guidelines for the Clinical Management of Thalassaemia - Maria-Domenica Cappellini 2008

Hepatitis B - Luis Rodrigo 2022-06-23
Current pharmacologic therapies for chronic hepatitis B virus (HBV) infection allow viral suppression and normalization of the liver enzyme alanine aminotransferase (ALT) and prevent liver disease from progressing. The currently available antiviral therapies very rarely lead to a functional cure. Thus, the future of a cure for HBV lies in triple combination therapies with concerted action on replication inhibition, antigen reduction, and immune stimulation. This book reviews the mechanisms and pathogenesis of HBV, as well as discusses current and potential future treatments.
Frontiers in Hemoglobinopathies: New Insights and Methods - Roberta Risoluti 2021-05-12

Beta Thalassemia Marwa Zakaria 2020-09-23
Beta thalassemia is a common blood disorder worldwide. Thousands of infants with beta thalassemia are born each year. This book covers most of the aspects related to this disease and greatly helps in understanding this disease and its complications. Of interest are clinical studies as well as basic and translational research reports regarding pathogenesis, genetics, diagnosis as well as standard and novel therapies. This book intends to provide the reader with a comprehensive overview of today's practices and tomorrow's possibilities about beta thalassemia.
Guidelines for Perinatal Care - American Academy of Pediatrics 1997
This guide has been developed jointly by the American Academy of Pediatrics and the American College of Obstetricians and Gynecologists, and is designed for use by all personnel involved in the care of pregnant women, their foetuses, and their neonates.
The Management of Sickle Cell Disease - U.s. Department of Health 2002
This book is B&W copy of the government agency publication.This edition of The Management of Sickle Cell Disease (SCD) is organized into four parts: Diagnosis and Counseling, Health Maintenance, Treatment of Acute and Chronic Complications, and Special Topics. The original intent was to incorporate evidence-based medicine into each chapter, but there was variation among evidence-level scales, and some authors felt recommendations could be made, based on accepted practice, without formal trials in this rare disorder. The best evidence still is represented by randomized, controlled trials (RCTs), but variations exist in their design, conduct, endpoints, and analyses. It should be emphasized that selected people enter a trial, and results should apply in practice specifically to populations with the same characteristics as those in the trial. Randomization is used to reduce imbalances between groups, but unexpected factors sometimes may confound analysis or interpretation. In addition, a trial may last only a short period of time, but long-term clinical implications may exist. Another issue is treatment variation, for example, a new pneumococcal vaccine developed after the trial, which has not been tested formally in a sickle cell population. Earlier trial results may be accepted, based on the assumption that the change is small. In some cases, RCTs cannot be done satisfactorily (e.g., for ethical reasons, an insufficient number of patients, or a lack of objective measures for sickle cell "crises"). Thus the bulk of clinical experience in SCD still remains in the moderately strong and weaker categories of evidence. Not everyone has an efficacious outcome in a clinical trial, and the frequency of adverse events, such as with long-term transfusion programs or hematopoietic transplants, might not be considered. Thus, an assessment of benefit-to-risk ratio should enter into translation of evidence levels into practice recommendations. A final issue is that there may be two alternative approaches that are competitive (e.g., transfusions and hydroxyurea). In this case the pros and cons of each course of treatment should be discussed with the patient.
CURRENT Medical Diagnosis and Treatment 2009 - Stephen J. McPhee 2008-10-31
Huge market: family physicians, internists, nurse practitioners, medical students, internal medicine residents, family medicine residents Consistent bestseller, more than 80,000 copies sell annually Completely current: all topics updated annually to provide the latest treatment advances New to this edition: updated Cancer and Urologic Disorders chapter, latest drug information, increased coverage of Canadian and International Guidelines The only text with an annual review of advances in HIV treatment