[Books] Sickle Cell Disease Genetics Management And Prognosis Recent Advances In Hematology Research

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Sickle Cell Disease-Marilyn E. Lewis 2015 Sickle cell disease (SCD) is a genetic disorder caused by an abnormality of hemoglobin. The disease is characterized by a chronic hemolytic anemia. The search for affordable and accessible medicines mainly from plants and having various modes of actions for managing SCD is a priority in Africa where the disease is endemic.The first chapter in this book reviews children with Sickle Cell Disease (SCD). The authors also present their research that shows that clinically, children with SCD behave differently regarding their genetics. The second chapter gives an overview of the current progress in research in calcium handling in red blood cells of sickle cell disease patients, followed by an outlook into the potential use of blockers of the cation channels for therapy of SCD patients. The third chapter reviews and validates the pharmacological relevance of Gardenia ternifolia and sustains the use of this herbal medicine in the management of SCD in traditional medical systems. The fourth chapter reviews the search and the development of antisickling herbal drugs in Africa, where Sickle cell disease (SCD) is an endemic. The last chapter reviews SCD and its impact on sexual functioning as well as relationship dynamics. Conclusions support the importance of social support and its far-reaching impact into the coping mechanisms of patients with chronic illness as well as quality of life.
Sickle Cell Disease-Marilyn E. Lewis 2015-01-01 Sickle cell disease (SCD) is a genetic disorder caused by an abnormality of hemoglobin. The disease is characterized by a chronic hemolytic anemia. The search for affordable and accessible medicines mainly from plants and having various modes of actions for managing SCD is a priority in Africa where the disease is endemic. The first chapter in this book reviews children with Sickle Cell Disease (SCD). The authors also present their research that shows that clinically, children with SCD behave differently regarding their genetics. The second chapter gives an overview of the current progress in research in calcium handling in red blood cells of sickle cell disease patients, followed by an outlook into the potential use of blockers of the cation channels for therapy of SCD patients. The third chapter reviews and validates the pharmacological relevance of Gardenia ternifolia and sustains the use of this herbal medicine in the management of SCD in traditional medical systems. The fourth chapter reviews the search and the development of antisickling herbal drugs in Africa, where Sickle cell disease (SCD) is an endemic. The last chapter reviews SCD and its impact on sexual functioning as well as relationship dynamics. Conclusions support the importance of social support and its far-reaching impact into the coping mechanisms of patients with chronic illness as well as quality of life.
Newborn Screening for Sickle Cell Disease and other Haemoglobinopathies- Stephan Lobitz 2019-10-07 Newborn Screening for Sickle Cell Disease and other Haemoglobinopathies is a Special Issue of the International Journal of Neonatal Screening. Sickle cell disease is one of the most common inherited blood disorders, with a huge impact on health care systems due to high morbidity and high mortality associated with the undiagnosed disease. Newborn screening helps to make the diagnosis early and to prevent fatal complications and diagnostic odysseys. This book gives an overview of diagnostic standards in newborn screening for sickle cell disease and examples of existing newborn screening programs.
Sickle Cell Disease-Baba P.D. Inusa 2016-11-10 This book addresses a wide range of clinically relevant topics and issues in sickle cell disease. This is written by experts in their own field offering a robust, engaging discussion about the presentations and mechanisms of actions in the multiple complications associated with sickle cell disease. This first of the series addresses pain, which is considered the hallmark of sickle cell presentation. It looks at the basic mechanism of pain in sickle cell disease. A more detailed review of precision medicine gives a clear well laid out presentation that is incisive and yet gives in-depth detail relevant to both the clinician and the researcher in the basic laboratory. The same pattern is shown in the discussion on respiratory, cardiac and neurological complications. The 14 chapters also include an overview of sickle cell disease especially in the paediatric age. The content is organized into well-designed broad sections on overview regarding diagnosis including point of care and the role of digital apps in patient management. A key aspect of the book is the opportunity it affords expert physicians to express well-reasoned opinions regarding complex issues in sickle cell disease. The readership would find that it provides a well-described, concise and immediate applicable answers to complex questions. This is highly recommended for scientists and clinicians alike.
Thalassemia and Other Hemolytic Anemias-Isam Jaber Al-Zwaini 2018-07-11 Thalassemia is a very common disease first described by pediatrician Thomas Benton Cooley in 1925 who described it in a patient of Italian origin. At that time, it was designated as Cooley's anemia. George Hoyt Whipple, a Nobel prize winner, and W. L. Bradford, a professor of pediatrics at the University of Rochester, coined the term thalassemia in 1936, which in Greek means anemia of the sea (Thalassa means "sea", and emia means "blood"), due to the fact that it is very common in the area of the Mediterranean Sea. This name is actually misleading because it can occur everywhere in the world. Thalassemia is not a single disease; it is rather a group of hereditary disorders of the production of globulin chain of the hemoglobin. Throughout the world, thalassemia affects approximately 4.4 of every 10,000 live births. It represents a major social and emotional impact on the patient and his family and a major burden on health services where the prevalence is high.
Inherited Hemoglobin Disorders-Anjana Munshi 2015-11-11 The book, Inherited Hemoglobin Disorders, describes the genetic defects of hemoglobins, disease complications, and therapeutic strategies. This book has two distinct sections. The first theme includes seven chapters devoted to the types of hemoglobinopathies, mutation spectrum, diagnostic methods, and disease complications, and the second theme includes three chapters focusing on various treatment strategies. The content of the chapters presented in the book is guided by the knowledge and experience of the contributing authors. This book serves as an important resource and review to the researchers in the field of hemoglobinopathies.
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.
Sickle Cell Anemia-Fernando Ferreira Costa 2016-03-29 Although sickle cell anemia was the first molecular disease to be identified, its complex and fascinating pathophysiology is still not fully understood. A single mutation in the beta-globin gene incurs numerous molecular and cellular mechanisms that contribute to the plethora of symptoms associated with the disease. Our knowledge regarding sickle cell disease mechanisms, while still not complete, has broadened considerably over the last decades. Sickle Cell Anemia: From Basic Science to Clinical Practice aims to provide an update on our current understanding of the disease’s pathophysiology and use this information as a basis to discuss its manifestations in childhood and adulthood. Current therapies and prospects for the development of new approaches for the management of the disease are also covered.
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.
Renaissance of Sickle Cell Disease Research in the Genome Era-Betty S Pace 2007-01-24 The Human Genome Project has spawned a Renaissance of research faced with the daunting expectation of personalized medicine for individuals with sickle cell disease in the Genome Era. This book offers a comprehensive and timeless account of emerging concepts in clinical and basic science research, and community concerns of health disparity to educate professionals, students and the general public about meeting this challenging expectation. Contributions from physicians, research scientists, scientific administrators and community workers make Renaissance of Sickle Cell Disease Research in the Genome Era unique among the catalogue of books on this genetic disorder. Part 1 offers detailed review of the National Heart Lung and Blood Institute's leadership role in funding sickle cell research, as well as developing progressive research initiatives and the predicted impact of the Human Genome Project. Part 2 gives an account of several clinical research perspectives based on the Cooperative Study of Sickle Cell Disease. These include recommendations for newborn screening, pain management, stroke, transfusion therapy and pediatric and adult healthcare. Part 3 offers novel insights into basic science research progress and the impact of the Human Genome Project on the direction of hemoglobinopathy research, including hemoglobin switching, bone marrow transplantation and gene therapy. Part 4 engages the reader in a culture-based discussion of the stigma attached to sickle cell disease in the African American community and the apprehensions about genetic research in this community. It concludes with a global perspective on sickle cell disease from African, European and American experiences. For readers seeking a definitive account of sickle cell disease appropriate for students, researchers and community workers, this collaborative effort is an ideal textbook. Contents:Sickle Cell Disease: Demystifying the Beginnings (C Reid & G Rodgers)Sponsorship of Sickle Cell Disease Research by the National Institutes of Health: A Brief History and Projections for the Future (G L Evans & D G Badman)The Human Genome Project (B S Pace)Sickle Cell Disease: A Phenotypic Patchwork (K Smith-Whitley & B S Pace)Preventive Care and Advances in the Treatment of Sickle Cell Disease (C T Quinn & G R Buchanan)Sickle Cell Disease in Adults (J Haynes, Jr. & A Pack-Mabien)Pain in Sickle Cell Disease: A Multidimensional Construct (L J Benjamin & R Payne)Transfusion Therapy in Sickle Cell Disease (C Hoppe et al.)Hemoglobin S Polymerization, Just the Beginning (F A Ferrone)Damage to the Red Blood Cell Membrane in Sickle Cell Disease (S R Goodman & C Joiner)Fetal Hemoglobin for What Ails Sickle Hemoglobin (S F Ofori-Acquah & B S Pace)Genetic Modulation of Sickle Cell Disease (M H Steinberg & L T Swee)Molecular Framework of Hemoglobin Switching (S Fiering)Dynamic Nucleoprotein Structure of the ß-Globin Locus: Establishing a Rational Molecular Basis for the Therapeutic Modulation of Hemoglobin Switching (E Bresnick et al.)Vertebrate Models for Sickle Cell Disease Research (B H Paw et al.)Stem Cell Biology (W Li & A W Flake)Bone Marrow Transplantation (R I Raphael & M C Walters)Genetically Engineered Cures: Gene Therapy for Sickle Cell Disease (P Malik & P Leboulch)Sickle Cell Disease: The Past, Present and Future Social and Ethical Dilemmas (V L Bonham, Jr. et al.)It Takes a Village to Cure Sickle Cell Disease (R Peterson & D Davis-Maye)Beyond National Borders: A Global Perspective on Advances in Sickle Cell Disease Research and Management, and New Challenges in the Genome Era (S F Ofori-Acquah & K Ohene-Frempong) Readership: Primary market: Clinical and basic researchers in haematology and genetics, graduate students and postdoctoral fellows; Secondary market: Nursing students, community sickle cell programs, medical school libraries, public library; Tertiary market: Suitable for a graduate course in genetics, genomics as a supplemental text, probably not a primary text. Keywords:Sickle Cell Anemia/Disease;Genomic Era;National Heart Lung and Blood Institute;National Institute of Diabetes and Digestive and Kidney Diseases;Stroke;Pain Management;Fetal Hemoglobin;Hemoglobin Switching;Transgenic Mouse Model;Locus Control Region;African-American Community;Sickle Cell Africa;World Health OrganizationKey Features:Covers the latest progress made in clinical, basic and social research of SCDCaptures the momentum of research efforts related to SCD; this is very timely in light of the plan to perform the first gene therapy treatment in 2006Five out of ten of the current Directors of the National Heart, Lung, and Blood Institute (NHLBI)-funded Comprehensive Sickle Cell Centers are amongst the prominent contributors to the book. These clinical and basic researchers have a major influence in shaping the future focus of programs for sickle cell disease in the United States
Disorders of Hemoglobin-Martin H. Steinberg 2001 Disorders of Hemoglobin stands tall as the definitive work on the genetics, pathophysiology, and clinical management of hemoglobinopathies and thalassemia. Drs. Steinberg, Forget, Higgs, and Nagel have gathered the world authorities on the science and clinical management of these disorders and created the authoritative textbook for researchers and clinicians alike.Authors describe the scientific basis of clinical features and provide clinicians with a clear background of disorders they treat and scientists with an essential link between their research and its clinical manifestation. Disorders of Hemoglobin is the only single-source reference on hemoglobinopathies for hematologists, pediatricians, clinical investigators, and geneticists worldwide.
Managing Sickle Cell Disease-Shirley Hill 2003-04-09 As many as 30,000 African Americans have sickle cell disease (SCD). Though the political activism of the 1960s and a major 1970s health campaign spurred demands for testing, treatment, and education programs, little attention has been given to how families cope with SCD. This first study to give SCD a social, economic, and cultural context documents the daily lives of families living with this threatening illness. Specifically, Shirley A. Hill examines how low-income African American mothers with children suffering from this hereditary, incurable, and chronically painful disease, react to the diagnosis and manage their family's health care.The 23 mostly single mothers Hill studies survive in an inner-city world of social inequality. Despite limited means, they actively participate, create, and define the social world they live in, their reality shaped by day-to-day caregiving. These women overcome obstacles by utilizing such viable alternatives as sharing child care with relatives within established kinship networks.Highlighting the role of class, race, and gender in the illness experience, Hill interprets how these women reject, redefine, or modify the objective scientific facts about SCD. She acknowledges and explains the relevance of child-bearing and motherhood to African American women's identity, revealing how the revelation of the SCD trait or the diagnosis of one child often does not affect a woman's interpretation of her reproductive rights.
Understanding Sickle Cell Disease-Miriam Bloom 2009-10-20 Although more is known about sickle cell disease than about any other inherited disease, no cure for it exists. In America alone, about one in 375 who are of African ancestry is born with sickle cell disease. A smaller number of Americans descended from families from the Mediterranean area, the Middle East, and India also are affected. In addition, about eight percent of black Americans who do not suffer from the disease itself carry the gene for it that can be transmitted to their children. Sickle cell disease is of enormous biological, social, and historic importance. It was first described in medical literature almost a century ago. Improvements during the past two decades in our understanding of the disease and in medical care are permitting those afflicted to live longer, more comfortable and more productive lives. This book was written for all who are interested in this disease—those who have it, their families, the carriers of the sickle cell gene, teachers, and those who wish to update their information about it. This overview of sickle cell disease explains what it is and how it is inherited, as well as the relationship between the sickle cell gene and its geographic origins, the way the gene has been spread throughout history, and the effect of sickle cell hemoglobin on red blood cells that carry it. Understanding Sickle Cell Disease describes the variety of symptoms in both children and adults and details the emotional aspects of the disease. Of particular interest is a chapter on the care, especially the home care, of those who are affected. This book explains how it is possible today for couples carrying the genes to raise families free of the disease. Although there is no known cure for sickle cell disease, there is little doubt that one will ultimately be devised. This volume surveys current research efforts and the promise they hold.
Sickle Cell Disease and Hematopoietic Stem Cell Transplantation-Emily Riehm Meier 2017-09-19 This book provides a comprehensive, state-of-the art review of hematopoietic stem cell transplantation (HSCT) for sickle cell disease (SCD). The book reviews new data about risk prediction for severe SCD, outlines the unique challenges of HSCT for patients with SCD, profiles the supportive care guidelines for patients who are undergoing HSCT, highlights our current understanding of the best transfusion support for SCD patients prior to, during and after HSCT, and provides new perspectives about the ethics of HSCT for pediatric patients with SCD. Published in the last few years, several landmark phase III trials that utilize matched unrelated and haploidentical donors for HSCT in SCD patients are also placed in context with respect to current management. Written by experts in the field, Sickle Cell Disease and Hematopoietic Stem Cell Transplantation is a valuable resource for physicians and researchers dealing with and interested in this challenging, yet exciting, curative therapy for sickle cell disease, that will help guide patient management and stimulate investigative efforts.
Side Effects of Drugs Annual- 2020-11-20 Side Effects of Drugs Annual: A Worldwide Yearly Survey of New Data in Adverse Drug Reactions, Volume 42, first published in 1977, and continually published as a yearly update to the voluminous encyclopedia Meyler's Side Effects of Drugs, presents clinicians and medical investigators with a critical survey of new data and trends in adverse drug reactions and interactions. Topics covered in this new release include Central Nervous System Stimulants and Drugs that Suppress Appetite, Antidepressants, Lithium, Drugs of Abuse, Hypnotics and Sedatives, Antipsychotic Drugs, Antiepileptics, Opioid Analgesics and Narcotic Antagonists, Anti-Inflammatory and Antipyretic Analgesics and Drugs Used in Gout, and much more. Provides a critical yearly survey of the new data and trends regarding the side effects of drugs Authored and reviewed by worldwide pioneers in the clinical and practice sciences Presents an essential clinical guide on the side effects of drugs for practitioners and healthcare professionals alike
Practical Management of Haemoglobinopathies-Iheanyi Okpala 2008-04-15 Presents a comprehensive picture of care, including diagnostic, therapeutic, and psychosocial aspects. The contributors cover basic science and epidemiological aspects of the public health challenge, but maintain a focus on the day to day issues encountered in dealing with affected people. Containing clear, practical advice, this text is an essential, practical resource to bridge the gap between expensive reference texts and smaller manuals. Practical Management of Haemoglobinopathies is an ideal for; Trainees and residents in haematology Hematologists in practice Healthcare professionals treating those with sickle cell disease and thalassaemia Why Buy This Book? Deals with practical problems encountered in the comprehensive care of affected individuals Each chapter written by an expert in the field Comprehensive coverage of basic science, laboratory diagnosis, psychosocial support and community care
Sickle Cell Disease-United States. Sickle Cell Disease Guideline Panel 1993
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.
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.
Biomedical Index to PHS-supported Research- 1994
Research Awards Index- 1978
Renaissance of Sickle Cell Disease Research in the Genome Era-Betty S Pace 2007-01-24 The Human Genome Project has spawned a Renaissance of research faced with the daunting expectation of personalized medicine for individuals with sickle cell disease in the Genome Era. This book offers a comprehensive and timeless account of emerging concepts in clinical and basic science research, and community concerns of health disparity to educate professionals, students and the general public about meeting this challenging expectation. Contributions from physicians, research scientists, scientific administrators and community workers make Renaissance of Sickle Cell Disease Research in the Genome Era unique among the catalogue of books on this genetic disorder. Part 1 offers detailed review of the National Heart Lung and Blood Institute's leadership role in funding sickle cell research, as well as developing progressive research initiatives and the predicted impact of the Human Genome Project. Part 2 gives an account of several clinical research perspectives based on the Cooperative Study of Sickle Cell Disease. These include recommendations for newborn screening, pain management, stroke, transfusion therapy and pediatric and adult healthcare. Part 3 offers novel insights into basic science research progress and the impact of the Human Genome Project on the direction of hemoglobinopathy research, including hemoglobin switching, bone marrow transplantation and gene therapy. Part 4 engages the reader in a culture-based discussion of the stigma attached to sickle cell disease in the African American community and the apprehensions about genetic research in this community. It concludes with a global perspective on sickle cell disease from African, European and American experiences. For readers seeking a definitive account of sickle cell disease appropriate for students, researchers and community workers, this collaborative effort is an ideal textbook. Contents:Sickle Cell Disease: Demystifying the Beginnings (C Reid & G Rodgers)Sponsorship of Sickle Cell Disease Research by the National Institutes of Health: A Brief History and Projections for the Future (G L Evans & D G Badman)The Human Genome Project (B S Pace)Sickle Cell Disease: A Phenotypic Patchwork (K Smith-Whitley & B S Pace)Preventive Care and Advances in the Treatment of Sickle Cell Disease (C T Quinn & G R Buchanan)Sickle Cell Disease in Adults (J Haynes, Jr. & A Pack-Mabien)Pain in Sickle Cell Disease: A Multidimensional Construct (L J Benjamin & R Payne)Transfusion Therapy in Sickle Cell Disease (C Hoppe et al.)Hemoglobin S Polymerization, Just the Beginning (F A Ferrone)Damage to the Red Blood Cell Membrane in Sickle Cell Disease (S R Goodman & C Joiner)Fetal Hemoglobin for What Ails Sickle Hemoglobin (S F Ofori-Acquah & B S Pace)Genetic Modulation of Sickle Cell Disease (M H Steinberg & L T Swee)Molecular Framework of Hemoglobin Switching (S Fiering)Dynamic Nucleoprotein Structure of the ß-Globin Locus: Establishing a Rational Molecular Basis for the Therapeutic Modulation of Hemoglobin Switching (E Bresnick et al.)Vertebrate Models for Sickle Cell Disease Research (B H Paw et al.)Stem Cell Biology (W Li & A W Flake)Bone Marrow Transplantation (R I Raphael & M C Walters)Genetically Engineered Cures: Gene Therapy for Sickle Cell Disease (P Malik & P Leboulch)Sickle Cell Disease: The Past, Present and Future Social and Ethical Dilemmas (V L Bonham, Jr. et al.)It Takes a Village to Cure Sickle Cell Disease (R Peterson & D Davis-Maye)Beyond National Borders: A Global Perspective on Advances in Sickle Cell Disease Research and Management, and New Challenges in the Genome Era (S F Ofori-Acquah & K Ohene-Frempong) Readership: Primary market: Clinical and basic researchers in haematology and genetics, graduate students and postdoctoral fellows; Secondary market: Nursing students, community sickle cell programs, medical school libraries, public library; Tertiary market: Suitable for a graduate course in genetics, genomics as a supplemental text, probably not a primary text. Keywords:Sickle Cell Anemia/Disease;Genomic Era;National Heart Lung and Blood Institute;National Institute of Diabetes and Digestive and Kidney Diseases;Stroke;Pain Management;Fetal Hemoglobin;Hemoglobin Switching;Transgenic Mouse Model;Locus Control Region;African-American Community;Sickle Cell Africa;World Health OrganizationKey Features:Covers the latest progress made in clinical, basic and social research of SCDCaptures the momentum of research efforts related to SCD; this is very timely in light of the plan to perform the first gene therapy treatment in 2006Five out of ten of the current Directors of the National Heart, Lung, and Blood Institute (NHLBI)-funded Comprehensive Sickle Cell Centers are amongst the prominent contributors to the book. These clinical and basic researchers have a major influence in shaping the future focus of programs for sickle cell disease in the United States
Advanced Perioperative Crisis Management-Matthew D. McEvoy 2017-07-25 Advanced Perioperative Crisis Management is a high-yield, clinically-relevant resource for understanding the epidemiology, pathophysiology, assessment, and management of a wide variety of perioperative emergencies. Three introductory chapters review a critical thinking approach to the unstable or pulseless patient, crisis resource management principles to improve team performance and the importance of cognitive aids in adhering to guidelines during perioperative crises. The remaining sections cover six major areas of patient instability: cardiac, pulmonary, neurologic, metabolic/endocrine, and toxin-related disorders, and shock states, as well as specific emergencies for obstetrical and pediatric patients. Each chapter opens with a clinical case, followed by a discussion of the relevant evidence. Case-based learning discussion questions, which can be used for self-assessment or in the classroom, round out each chapter. Advanced Perioperative Crisis Management is an ideal resource for trainees, clinicians, and nurses who work in the perioperative arena, from the operating room to the postoperative surgical ward.
The Genetics of African Populations in Health and Disease-Muntaser E. Ibrahim 2019-12-19 A pioneering work that focuses on the unique diversity of African genetics, offering insights into human biology and genetic approaches.
Sickle Cell Disease in Clinical Practice-Jo Howard 2015-02-12 Sickle Cell Disease is the most common genetic disease world wide and in the UK. It has marked geographical variation in its distribution in the UK, with a concentration in London and other major conurbations (Birmingham and Manchester). In these areas, specialist centres have become established offering expert, up to date care for both inpatients and out patients with Sickle Cell Disease. Although patient numbers are increasing outside these areas, the expertise of health professionals can be patchy. This book aims to provide a user friendly, accessible resource for areas with smaller numbers of patients, to allow them to provide equitable care with the larger well established centres. Sickle Cell Disease can be associated with acute life threatening complications, when clear, easily available advice is needed, and with chronic long term complications which may need liaison with other health professionals. Clear treatment protocols for all the common complications of sickle cell disease, are outlined here, with summaries of key evidence and references.
Thalassaemia: The Biography-David Weatherall 2010-08-26 Presents a history of thalassemia, a genetic disorder in which the body destroys abnormally-shaped hemoglobin cells at a rate that leads to anemia.
Pulmonary Vascular Disorders-Marc Humbert 2012 An excellent overview of recent advances in diagnosis, classification and treatment The pulmonary circulation is by nature difficult to evaluate for the clinician and a challenge to investigate by radiographic and hemodynamic methods. In recent years, the field has been revolutionized by major improvements in diagnostic approaches and therapies. Tools for the classification, diagnosis, and management of pulmonary embolism and pulmonary hypertension have been developed and optimized, providing clinicians with detailed and updated guidelines. This volume provides the latest information on the fast-growing and challenging field of acute and chronic pulmonary vascular disorders from some of the field's major leaders in research, education, and care. The topics discussed are relevant to chest physicians, thoracic surgeons, nurses, students, and teachers, and a well-balanced mix of contributions ensures that doctors, clinicians, and institutions from all around the world will find the information presented to be both informative and useful to their situations.
Human Hemoglobins-Howard Franklin Bunn 1977 Since the dawn of the era of molecular biology, hemoglobin has been subjected to more scrutiny than any other protein, and Bunn, Forget, and Ranney can each lay claim to major contributions to the saga of hemoglobin. Their well-organized, comprehensive, and superbly illustrated work is an excellent review of the abnormal hemoglobin field. Early chapters deal with the structure and function of human hemoglobin and the way in which this is modified in various disease states. Later sections deal with the various structural hemoglobin variants and their associated clinical manifestations, the thalassaemias, and the acquired disorders of hemoglobin. The sections that deal with the modification of hemoglobin function in various disease states are particularly good. The book contains an extensive and up-to-date bibliography and is remarkably free from errors of fact or type--the best standard of reference on the subject as of the year 1977.
Genetics and Public Health in the 21st Century-Muin J. Khoury 2000 The first broad survey of the role of genetics in public health, with emphasis on the new molecular genetics.
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.
Hematology-Margarita Guenova 2018-06-27 Hematology has constantly been advancing in parallel with technological developments that have expanded our understanding of the phenotypic, genetic, and molecular complexity and extreme clinical and biological heterogeneity of blood diseases. This has in turn allowed for developing more effective and less toxic alternative therapeutic approaches directed against critical molecular pathways. The continuous and rather extensive influx of new information regarding the key features and underlying mechanisms as well as treatment options in hematology requires a frequent update of this topic. The primary objective of this book is to provide the specialists involved in the clinical management and experimental research in hematological diseases with comprehensive and concise information on some important theoretical and practical developments in the biology, clinical assessment, and treatment of patients, as well as on some molecular and pathogenetic mechanisms and the respective translation into novel therapies.
Critical Care Obstetrics-Luis D. Pacheco 2018-09-19 A new edition of the proven guide to providing emergency care for mothers-to-be in acute medical distress Now in its sixth edition, Critical Care Obstetrics offers an authoritative guide to what might go seriously wrong with a pregnancy and delivery and explains how to manage grave complications. Written by an international panel of experts, this updated and revised edition contains the most recent advances in the field as well as recommendations for treating common complications such as bleeding, thrombosis, trauma, acute infection, airway problems and drug reactions in a pregnant patient. This important guide offers the information needed to enable the early-on recognition of life-threatening conditions and the use of immediate life-saving treatments in emergency situations. The techniques and procedures outlined help to maximise the survival prospects of both the mother and fetus. The authors offer an accessible text for any healthcare professional responsible for the care and management of pregnant women and their unborn children. Critical Care Obstetrics is a vital resource that: Contains a clear guide for early recognition of conditions which may prove life threatening Offers new information on Analgesia and sedation; Imaging and interventional radiology in pregnancy; Oxygen therapy; and Pulmonary hypertension Presents protocols for implementing life-saving treatments in emergency situations Written by international experts in emergency obstetric medicine Designed for use by obstetricians and obstetrician and gynecology trainees, Critical Care Obstetrics is the updated guide to the management of serious conditions in pregnancy and delivery.
Podocytopathy-Z.-H. Liui 2014-05-16 The podocyte is a key cell that forms the last barrier of the kidney filtration unit. One of the most exciting developments in the field of nephrology in the last decade has been the elucidation of its biology and its role in the pathophysiology of inherited and acquired glomerular disease, termed podocytopathy. In this publication, world-renowned experts summarize the most recent findings and advances in the field: they describe the unique biological features and injury mechanisms of the podocyte, novel techniques used in their study, and diagnosis and potential therapeutic approaches to glomerular diseases. Due to its broad scope, this publication is of great value not only for clinical nephrologists and researchers, but also for students, residents, fellows, and postdocs.
Growing Older- 2018
Dying in the City of the Blues-Keith Wailoo 2014-06-30 This groundbreaking book chronicles the history of sickle cell anemia in the United States, tracing its transformation from an "invisible" malady to a powerful, yet contested, cultural symbol of African American pain and suffering. Set in Memphis, home of one of the nation's first sickle cell clinics, Dying in the City of the Blues reveals how the recognition, treatment, social understanding, and symbolism of the disease evolved in the twentieth century, shaped by the politics of race, region, health care, and biomedicine. Using medical journals, patients' accounts, black newspapers, blues lyrics, and many other sources, Keith Wailoo follows the disease and its sufferers from the early days of obscurity before sickle cell's "discovery" by Western medicine; through its rise to clinical, scientific, and social prominence in the 1950s; to its politicization in the 1970s and 1980s. Looking forward, he considers the consequences of managed care on the politics of disease in the twenty-first century. A rich and multilayered narrative, Dying in the City of the Blues offers valuable new insight into the African American experience, the impact of race relations and ideologies on health care, and the politics of science, medicine, and disease.
Hemoglobin and Its Diseases-D. J. Weatherall 2013 "A subject collection from Cold Spring Harbor perspectives in medicine."
Blood and Bone Marrow Pathology E-Book-Anna Porwit 2011-05-27 Chapters have been totally rewritten and some new chapters have been added especially on myeloid malignancies, in line with the WHO 2008 Classification All chapters have been revised to include new aspects of molecular biology and updated concerning flow cytometry diagnostics Greater emphasis on practical diagnostic aspects for all disorders Brand new editorial and contributing author team. Full Online text through Expert Consult. Full downloadable Image Bank
Pain Management in Special Circumstances-Nabil Shallik 2018-11-21 Like management of disease, management of pain is as old as the human race. When patients come to us with their pain, they present us with a wonderful opportunity: the chance to understand them, to understand how their pain is affecting their lives, the challenge of discovering what is causing their pain, and finally the opportunity to prescribe medications and lifestyle changes to help them gain relief from their pain. It is hoped that this book will provide the latest evidence-based updates on pain management in special circumstances and will serve as a ready reference for those embarking on pain management. Its intent is not to be a heavy book that can only be stored on a bookshelf, but a pocket-sized reference that can be carried, be easily navigated, and be available whenever a conceptual gap compromises pain physicians and their ability to treat their patients.
Henry's Clinical Diagnosis and Management by Laboratory Methods E-Book-Richard A. McPherson 2011-09-06 Recognized as the definitive book in laboratory medicine since 1908, Henry’s Clinical Diagnosis and Management by Laboratory Methods, edited by Richard A. McPherson, MD and Matthew R. Pincus, MD, PhD, is a comprehensive, multidisciplinary pathology reference that gives you state-of-the-art guidance on lab test selection and interpretation of results. Revisions throughout keep you current on the latest topics in the field, such as biochemical markers of bone metabolism, clinical enzymology, pharmacogenomics, and more! A user-friendly full-color layout puts all the latest, most essential knowledge at your fingertips. Update your understanding of the scientific foundation and clinical application of today's complete range of laboratory tests. Get optimal test results with guidance on error detection, correction, and prevention as well as cost-effective test selection. Reference the information you need quickly and easily thanks to a full-color layout, many new color illustrations and visual aids, and an organization by organ system. Master all the latest approaches in clinical laboratory medicine with new and updated coverage of: the chemical basis for analyte assays and common interferences; lipids and dyslipoproteinemia; markers in the blood for cardiac injury evaluation and related stroke disorders; coagulation testing for antiplatelet drugs such as aspirin and clopidogrel; biochemical markers of bone metabolism; clinical enzymology; hematology and transfusion medicine; medical microbiology; body fluid analysis; and many other rapidly evolving frontiers in the field. Effectively monitor the pace of drug clearing in patients undergoing pharmacogenomic treatments with a new chapter on this groundbreaking new area. Apply the latest best practices in clinical laboratory management with special chapters on organization, work flow, quality control, interpretation of results, informatics, financial management, and establishing a molecular diagnostics laboratory. Confidently prepare for the upcoming recertification exams for clinical pathologists set to begin in 2016.
Advances in Genome Editing-Jennifer A. Doudna 2016

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