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Ion channels are membrane proteins that act as gated pathways for the movement of ions across cell membranes. They play essential roles in the physiology of all cells. In recent years, an ever-increasing number of human and animal diseases have been found to result from defects in ion channel function. Most of these diseases arise from mutations in the genes encoding ion channel proteins, and they are now referred to as the channelopathies. Ion Channels and Disease provides an informative and up-to-date account of our present understanding of ion channels and the molecular basis of ion channel diseases. It includes a basic introduction to the relevant aspects of molecular biology and biophysics and a brief description of the principal methods used to study channelopathies. For each channel, the relationship between its molecular structure and its functional properties is discussed and ways in which genetic mutations produce the disease phenotype are considered. This book is intended for research workers and clinicians, as well as graduates and advanced undergraduates. The text is clear and lively and assumes little knowledge, yet it takes the reader to frontiers of what is currently known about this most exciting and medically important area of physiology. Key Features * Introduces the relevant aspects of molecular biology and biophysics * Describes the principal methods used to study channelopathies * Considers single classes of ion channels with summaries of the physiological role, subunit composition, molecular structure and chromosomal location, plus the relationship between channel structure and function * Looks at those diseases associated with defective channel structures and regulation, including mutations affecting channel function and to what extent this change in channel function can account for the clinical phenotype Sixth edition of the hugely successful, internationally recognised textbook on global public health and epidemiology, with 3 volumes comprehensively covering the scope, methods, and practice of the discipline Providing clinicians with the latest developments in research, this new edition of Type 1 Diabetes is a succinct and practical guide to the diagnosis, evaluation, and management of Type 1 diabetes. Part of the Oxford Diabetes Library series, this pocketbook contains 12 fully updated chapters on key topics such as history, epidemiology, aetiology, presentation, insulin treatment, and microvascular and macrovascular complications. It also features new chapters on technology, diet and lifestyle, and pregnancy planning to ensure the reader is fully equipped with the latest understanding of Type 1 diabetes. In financially constrained health systems across the world, increasing emphasis is being placed on the ability to demonstrate that health care interventions are not only effective, but also cost-effective. This book deals with decision modelling techniques that can be used to estimate the value for money of various interventions including medical devices, surgical procedures, diagnostic technologies, and pharmaceuticals. Particular emphasis is placed on the importance of the appropriate representation of uncertainty in the evaluative process and the implication this uncertainty has for decision making and the need for future research. This highly practical guide takes the reader through the key principles and approaches of modelling techniques. It begins with the basics of constructing different forms of the model, the population of the model with input parameter estimates, analysis of the results, and progression to the holistic view of models as a valuable tool for informing future research exercises. Case studies and exercises are supported with online templates and solutions. This book will help analysts understand the contribution of decision-analytic modelling to the evaluation of health care programmes. ABOUT THE SERIES: Economic evaluation of health interventions is a growing specialist field, and this series of practical handbooks will tackle, in-depth, topics superficially addressed in more

general health economics books. Each volume will include illustrative material, case histories and worked examples to encourage the reader to apply the methods discussed, with supporting material provided online. This series is aimed at health economists in academia, the pharmaceutical industry and the health sector, those on advanced health economics courses, and health researchers in associated fields. Intended for diabetes researchers and medical professionals who work closely with patients with diabetes, this newly updated and expanded edition provides new perspectives and direct insight into the causes and consequences of this serious medical condition from one of the foremost experts in the field. Using the latest scientific and medical developments and trends, readers will learn how to identify, prevent, and treat this challenging phenomenon within the parameters of the diabetes care regimen. Part of the Oxford Diabetes Library, this book summarizes the key aspects of the medical management of diabetes during pregnancy, acting as a practical introduction particularly for obstetricians and endocrinologists in training. This second edition has been updated throughout to account for the latest trial data, including new chapters on pathophysiology, and interpretation of recent clinical trials. This pocketbook is a concise, practical guide to the diagnosis, assessment and management of Type 2 Diabetes aimed at clinicians, GPs and nurse specialists. With the advent of the worldwide obesity epidemic, a concurrent rise has occurred in the prevalence of type 2 diabetes mellitus and metabolic syndrome. Type 2 diabetes mellitus is affecting younger individuals-the disease is no longer exclusive to adulthood. Diabetic micro- and macrovascular complications are also occurring at an earlier age, leading to increasing demands and costs on the healthcare system. In addition, the morbidity, disability and premature death caused by diabetic complications create a huge burden to families, employers and society at large. Thankfully, there has been a tremendous growth in new therapeutic classes of medications to help manage type 2 diabetes mellitus. These agents target many of the pathophysiologic defects of the disease with fewer side effects than the older agents. Newer insulin formulations have more predictable kinetics so patients can achieve better glycemic control with less risk of hypoglycemia and weight gain. Insulin delivery devices have also improved to include higher quality insulin pens, finer and shorter pen needles, and more technologically advanced insulin pumps. As part of the Oxford American Endocrinology Library series, this handbook reviews the epidemiology and pathophysiology of obesity and type 2 diabetes mellitus. The content covers micro- and macrovascular diabetic complications, the array of glucose regulating therapies, treatment algorithms targeting the pathophysiologic defects of type 2 diabetes mellitus as well as strategies for macrovascular risk reduction via therapeutic lifestyle change (diet, exercise, smoking cessation), pharmacotherapeutic treatment of dyslipidemia and hypertension, bariatric surgery and subcutaneous insulin infusion therapy, among other topics. Because of the concise yet comprehensive nature of the handbook, this volume is an excellent point-of-care reference for the clinician who regularly treats obese and diabetic patients. Oxford Desk Reference: Endocrinology provides easy access to evidence-based materials for quick consultation but also provides an in-depth expert reference for clinical practice. It covers the process of diagnosis, investigation, and management, as well as information for patients. Internationally-renowned experts have brought together evidence, guidelines and their clinical expertise to put trustworthy support at your fingertips. The vast spectrum of endocrine disorders are clearly laid out in self-contained topics for easy reference. Chapters build bridges between pathogenesis, clinical presentation, differential diagnosis and investigation to aid understanding. Careful consideration is given to establishing a diagnosis including the recognition, investigation and management of the rarer diagnoses. The practical treatment of everyday endocrine disorders and the management of life-long conditions are outlined in clear protocols. Chapters are organised by endocrine glands, disorders and syndromes and there are sections on the involvement of hormones in other specialities including endocrine oncology. The continuity from childhood to adolescent and adult endocrinology as well as the needs of older patients is explored in specific sections. Dedicated chapters cover the important roles endocrine specialist nurses play in patient management, and dietetic advice. The editors have included a wealth of practical resources including:

- A speedy reference section, which provides summaries and quick direction
- A patient advice and reference section, which supports face-to-face discussion with patients
- A medicolegal chapter, which outlines risk and DVLA regulations

Oxford Desk Reference: Endocrinology is the ideal companion for consultants, registrars associate specialists and clinical assistants as well as those from other disciplines who share endocrine clinics including endocrine surgeons, oncologists, gynaecologists and paediatricians. From gluten-free to all-Paleo, GMOs to grass-fed beef, our newsfeeds abound with nutrition advice. Whether sensational headlines from the latest study or anecdotes from celebrities and food bloggers, we're bombarded with "superfoods" and "best ever" diets promising to help us lose weight, fight disease, and live longer. At the same time, we live in an over-crowded food environment that makes it easy to eat, all the time. The result is an epidemic of chronic disease amidst a culture of nutrition confusion-and copious food choices that challenge everyday eaters just trying to get a healthy meal on the table. But the exhilarating truth is that scientists know an astounding amount about the power of food. A staggering 80% of chronic diseases are preventable through modifiable lifestyle changes, and diet is the single largest contributing factor. And we also know the secrets to eating sustainably to protect our planet. In Food & Nutrition, Harvard- and Columbia-trained nutrition scientist Dr. P.K. Newby examines 134 stand-alone questions addressing "need to know" topics, including how what we eat affects our health and environment, from farm to fork, and why, when it comes to

diet, the whole is greater than the sum of its parts-and one size doesn't fit all. At the same time, Newby debunks popular myths and food folklore, encouraging readers to "learn, unlearn, and relearn" the fundamentals of nutrition at the heart of a health-giving diet. Her passion for all things food shines through it all, as does her love of the power of science, technology, and engineering to help create healthier diets for ourselves, and a more sustainable future for the planet we share. Susan Greenfield, one of the world's pre-eminent scientists, takes the reader on a guided tour of the final frontier in human understanding: the brain. Locked away remote from the rest of the body in its own custom-built casing of skull bone, with no intrinsic moving parts, the human brain remains a tantalising mystery. But now, more than ever before, we have the expertise to tackle this mystery - the last 20 years have seen astounding progress in brain research. Susan Greenfield begins by exploring the roles of different regions of the brain. She then switches to the opposite direction and examines how certain functions, such as movement and vision, are accommodated in the brain. She describes how a brain is made from a single fertilized egg, and the fate of the brain is traced through life as we see how it constantly changes as a result of experience to provide the essence of a unique individual. Fully updated, the Oxford Handbook of Nutrition and Dietetics, second edition is a practical quick-reference guide to nutrition in the prevention and treatment of disease and the maintenance of good health. Diabetes is a disease with a fascinating history and one that has been growing dramatically with urbanization. According to the World Health Authority, it now affects 4.6% of adults over 20, reaching 30% in the over 35s in some populations. It is one of the most serious and widespread diseases today. But the general perception of diabetes is quite different. At the beginning of the 20th century, diabetes sufferers mostly tended to be middle-aged and overweight, and could live tolerably well with the disease for a couple of decades, but when it occasionally struck younger people, it could be fatal within a few months. The development of insulin in the early 1920s dramatically changed things for these younger patients. But that story of the success of modern medicine has tended to dominate public perception, so that diabetes is regarded as a relatively minor illness. Sadly, that is far from the case, and diabetes can produce complications affecting many different organs. Robert Tattersall, a leading authority on diabetes, describes the story of the disease from the ancient writings of Galen and Avicenna to the recognition of sugar in the urine of diabetics in the 18th century, the identification of pancreatic diabetes in 1889, the discovery of insulin in the early 20th century, the ensuing optimism, and the subsequent despair as the complexity of this now chronic illness among its increasing number of young patients became apparent. Yet new drugs are being developed, as well as new approaches to management that give hope for the future. Diabetes affects many of us directly or indirectly through friends and relatives. This book gives an authoritative and engaging account of the long history and changing perceptions of a disease that now dominates the concerns of health professionals in the developed world. Diabetes: the biography is part of the Oxford series, Biographies of Diseases, edited by William and Helen Bynum. In each individual volume an expert historian or clinician tells the story of a particular disease or condition throughout history - not only in terms of growing medical understanding of its nature and cure, but also shifting social and cultural attitudes, and changes in the meaning of the name of the disease itself. This handbook in endocrinology and diabetes discusses clinical investigation and management in a convenient way, including both the protocols and explicit clinical information necessary for the management of individual patients. Now in its fifth edition, 'Fast Facts: Diabetes Mellitus' continues to grow in popularity as essential reading for all healthcare professionals. As well as providing a practical approach to the causes and clinical manifestations of types 1 and 2 diabetes, it is packed with information on early detection, and comprehensive details of the latest drug therapies, insulin regimens, delivery methods and injection sites. Importantly, this effective handbook provides simple clear messages to give to your patients to maximize their self-management skills. All healthcare professionals can have a significant life-altering effect on the health outcomes and quality of life of people living with diabetes, and this is the ideal update on current practice for primary care providers, specialist nurses, students of medicine and nursing, educators, pharmacists, allied health professionals and doctors of all specialties in training, as well as specialists in other fields who regularly see patients with diabetes. And one for your patients too. "The public increasingly desire being kept informed and abreast of diabetes care. I actively encourage it, since an informed and engaged patient is more easily kept within treatment targets," says Dr Katherine Samaras (author). So we encourage you to make your patients well-informed active partners in their diabetes care by sharing this highly readable book with them. Contents: • Epidemiology • Diagnosis • Type 1 diabetes mellitus • Type 2 diabetes mellitus • Other types of diabetes mellitus • Treatment of type 1 diabetes mellitus • Treatment of type 2 diabetes mellitus • Diet and physical activity • Complications and mental health considerations • Hypoglycemia • Diabetic ketoacidosis and hyperosmolar hyperglycemic state • Pregnancy and diabetes • Useful resources What is happening in the brain when we drink too much alcohol, get high on ecstasy or experience road rage? Emotion, says internationally acclaimed neuroscientist Susan Greenfield, is the building block of consciousness. As our minds develop we create a personalized inner world based on our experiences. But during periods of intense emotion, such as anger, fear or euphoria, we can literally lose our mind, returning to the mental state we experienced as infants. Challenging many preconceived notions, Susan Greenfield's groundbreaking book seeks to answer one of science's most enduring mysteries: how our unique sense of self is created. This book provides the reader with a comprehensive set of instructions and examples of how

to perform an economic evaluation of a health intervention, focusing solely on cost-effectiveness analysis in healthcare. This comprehensive overview of diabetes care compiles evidence, information and guidance on the area, and offers guidance on the complex patient-centred, physiological, psychological and psychosocial challenges nurses are faced with. It explains practical skills using a case study approach. Over 20 million people in the United States have diabetes, a metabolic disorder characterized by the body's lack of production or ineffective use of insulin, and the rate is on the rise. Diabetes can cause acute, as well as long-term complications when not properly controlled. Some of the complications may include coma, cardiovascular disease, renal failure, blindness, nerve damage, vascular damage, and poor healing which can lead to amputation. Though there is no cure for either Type I or Type II diabetes, ongoing effort to develop new drug and gene therapies continues. In the meantime, the goals of treatment are disease management, prevention of complications, and improved quality of life. The choice of therapeutics varies by diabetes type and may depend on other significant factors. The selected regimen often includes medication, injection therapy, exercise and change in diet. Over the past few decades, awareness of the importance of early diagnosis and treatment of diabetes has increased significantly. With approximately one-third of those affected by diabetes unaware of their illness, it is critical to make every effort to identify the disease early in its course. The primary care physician is frequently the first to see patients presenting with pre-diabetes and diabetes symptoms. This highly practical volume is specifically designed for primary care physicians and internists on the frontlines of care. It provides a clinically-focused roadmap to providing optimal care for patients with pre-diabetes and diabetes, from the initial patient visit through testing, goal-setting and follow-up care. It offers up-to-date information on diagnosis and treatment options for all types of diabetes, helping to expedite delivery of appropriate care. Part of the new Oxford American Endocrinology Library, this concise yet comprehensive guide covers current approaches and new developments in the diagnosis, management and treatment of diabetes, including Type I, Type II, and gestational diabetes, as well as additional notes on pre-diabetes. The text covers new and emerging pharmacotherapies and complementary treatment guidelines, as well as valuable guidance on managing the major complications of diabetes. In addition to diet and exercise tips for patients, the guide also provides strategies and tools for inspiring healthier lifestyles and patient compliance to reach health goals. Type 2 diabetes (T2DM) occurs when the body either resists the effects of insulin or does not produce enough insulin to maintain a normal glucose level. Management and treatment strategies for T2DM are aimed towards achieving the recommended glycemic goals (Sodas are astonishing products. Little more than flavored sugar-water, these drinks cost practically nothing to produce or buy, yet have turned their makers--principally Coca-Cola and PepsiCo--into a multibillion-dollar industry with global recognition, distribution, and political power. Billed as "refreshing," "tasty," "crisp," and "the real thing," sodas also happen to be so well established to contribute to poor dental hygiene, higher calorie intake, obesity, and type-2 diabetes that the first line of defense against any of these conditions is to simply stop drinking them. Habitually drinking large volumes of soda not only harms individual health, but also burdens societies with runaway healthcare costs. So how did products containing absurdly inexpensive ingredients become multibillion dollar industries and international brand icons, while also having a devastating impact on public health? In Soda Politics, the 2016 James Beard Award for Writing & Literature Winner, Dr. Marion Nestle answers this question by detailing all of the ways that the soft drink industry works overtime to make drinking soda as common and accepted as drinking water, for adults and children. Dr. Nestle, a renowned food and nutrition policy expert and public health advocate, shows how sodas are principally miracles of advertising; Coca-Cola and PepsiCo spend billions of dollars each year to promote their sale to children, minorities, and low-income populations, in developing as well as industrialized nations. And once they have stimulated that demand, they leave no stone unturned to protect profits. That includes lobbying to prevent any measures that would discourage soda sales, strategically donating money to health organizations and researchers who can make the science about sodas appear confusing, and engaging in Corporate Social Responsibility (CSR) activities to create goodwill and silence critics. Soda Politics follows the money trail wherever it leads, revealing how hard Big Soda works to sell as much of their products as possible to an increasingly obese world. But Soda Politics does more than just diagnose a problem--it encourages readers to help find solutions. From Berkeley to Mexico City and beyond, advocates are successfully countering the relentless marketing, promotion, and political protection of sugary drinks. And their actions are having an impact--for all of the hardball and softball tactics the soft drink industry employs to maintain the status quo, soda consumption has been flat or falling for years. Health advocacy campaigns are now the single greatest threat to soda companies' profits. Soda Politics provides readers with the tools they need to keep up pressure on Big Soda in order to build healthier and more sustainable food systems. Cardiovascular disease is a common cause of morbidity and mortality in people with diabetes, and it is an issue that is becoming increasingly important to cardiologists and specialists in diabetes. This second edition has been updated to include new trial data, new drugs and updates on treatment of diabetes in heart failure patients. With the advent of the worldwide obesity epidemic, a concurrent rise has occurred in the prevalence of type 2 diabetes mellitus and metabolic syndrome. Type 2 diabetes mellitus is affecting younger individuals--the disease is no longer exclusive to adulthood. Diabetic micro- and macrovascular complications are also occurring at an earlier age, leading to increasing demands and costs on the healthcare system. 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morbidity, disability and premature death caused by diabetic complications create a huge burden to families, employers and society at large. Thankfully, there has been a tremendous growth in new therapeutic classes of medications to help manage type 2 diabetes mellitus. These agents target many of the pathophysiologic defects of the disease with fewer side effects than the older agents. Newer insulin formulations have more predictable kinetics so patients can achieve better glycemic control with less risk of hypoglycemia and weight gain. Insulin delivery devices have also improved to include higher quality insulin pens, finer and shorter pen needles, and more technologically advanced insulin pumps. As part of the Oxford American Endocrinology Library series, this handbook reviews the epidemiology and pathophysiology of obesity and type 2 diabetes mellitus. The content covers micro- and macrovascular diabetic complications, the array of glucose regulating therapies, treatment algorithms targeting the pathophysiologic defects of type 2 diabetes mellitus as well as strategies for macrovascular risk reduction via therapeutic lifestyle change (diet, exercise, smoking cessation), pharmacotherapeutic treatment of dyslipidemia and hypertension, bariatric surgery and subcutaneous insulin infusion therapy, among other topics. Because of the concise yet comprehensive nature of the handbook, this volume is an excellent point-of-care reference for the clinician who regularly treats obese and diabetic patients. Now in its fifth edition, the Textbook of Diabetes has established itself as the modern, well-illustrated, international guide to diabetes. Sensibly organized and easy to navigate, with exceptional illustrations, the Textbook hosts an unrivalled blend of clinical and scientific content. Highly-experienced editors from across the globe assemble an outstanding set of international contributors who provide insight on new developments in diabetes care and information on the latest treatment modalities used around the world. The fifth edition features an array of brand new chapters, on topics including: Ischaemic Heart Disease Glucagon in Islet Regulation Microbiome and Diabetes Diabetes and Non-Alcoholic Fatty Liver Disease Diabetes and Cancer End of Life Care in Diabetes as well as a new section on Psychosocial aspects of diabetes. In addition, all existing chapters are fully revised with the very latest developments, including the most recent guidelines from the ADA, EASD, DUK and NICE. Includes free access to the Wiley Digital Edition providing search across the book, the full reference list with web links, illustrations and photographs, and post-publication updates Via the companion website, readers can access a host of additional online materials such as: 200 interactive MCQ's to allow readers to self-assess their clinical knowledge every figure from the book, available to download into presentations fully searchable chapter pdfs Once again, Textbook of Diabetes provides endocrinologists and diabetologists with a fresh, comprehensive and multi-media clinical resource to consult time and time again. Prepare with confidence for the Endocrinology and Diabetes Speciality Certificate Examination with this dedicated revision guide containing over 300 best of five questions covering the main themes of the curriculum. The questions mirror the format that the candidates can expect to find in the exam and cover all of the key topics, including pituitary and hypothalamus gland, thyroid gland, bone disease, adrenal glands, diabetes, and lipid metabolism. Explanatory answers include references to guidelines and other sources to enable further reading and study. Providing a thorough assessment of the reader's endocrinological knowledge, this is the only revision book candidates will need to pass the Endocrinology and Diabetes Speciality Certification Examination first time. Research in the field of senescence has boomed recently due to the gradual realization that senescent cells are associated with a significant number of diseases. The genetic or pharmacological elimination of senescent cells can cause widespread benefits and improves outcomes for most of those diseases. Cellular Senescence in Diseases presents an updated review of the role of cellular senescence in multiple pathologies. Focus is given to those diseases where the implication of senescence has been more extensively documented, such as (cancer, lung and liver diseases, diabetes, Neurodegenerative diseases and others). The Editors recruited a group of worldwide experts in each individual pathology to review the role of cellular senescence in each one of them, aiming at identifying potential therapeutic pathways. The first two chapters provide an overview of the cellular senescence principles. Next, the chapters are divided into specific diseases. Cancer, including premalignant lesions (OIS), Advanced disease (TIS), and Metastasis are covered. The following condition covered is Lung diseases, including IPF, COPD, and Pulmonary Hypertension. Next Liver Diseases are covered, including Fibrosis and Cirrhosis, and Fatty liver disease. Next there is coverage for Kidney implications, including fibrosis and transplantation. Vascular diseases are covered next including infarction and hear fibrosis, and atherosclerosis. Both diabetes types 1 and 2 are covered next. Following chapters cover Obesity, Sarcopenia, and Bone and Cartilage disorders, respectively. Neurodegenerative diseases are covered next, focusing on Alzheimer and Parkinson. The next chapter discusses accumulation of senescent cell in tissues during aging. The two final chapters cover current developments and conclusions. Cellular Senescence in Diseases is designed for researchers and clinicians with a focus on the cellular mechanisms of diseases. All chapters cover current experimental therapeutic approaches to eliminate or cancel the pathological effects of senescent cells. Pharmaceutical scientists may also benefit from the contents of the book in the exploration of novel therapeutic opportunities. Provides a thorough introduction to Cellular Senescence Covers all major pathologies for which cellular senescence has shown evidence of involvement Focuses on possible therapeutic pathways Edited and authored by worldwide experts Written in a friendly, easy-to-read way, with summaries for quick reference and detailed information when needed, this book is aimed at health care professionals in primary, community and secondary care, helping experienced staff update their

knowledge, and acting as a quick guide for those new to diabetes. A bold new indictment of the racialization of science Decades of data cannot be ignored: African American adults are far more likely to develop Type 2 diabetes than white adults. But has science gone so far in racializing diabetes as to undermine the search for solutions? In a rousing indictment of the idea that notions of biological race should drive scientific inquiry, *Sweetness in the Blood* provides an ethnographic picture of biotechnology's framings of Type 2 diabetes risk and race and, importantly, offers a critical examination of the assumptions behind the recruitment of African American and African-descent populations for Type 2 diabetes research. James Doucet-Battle begins with a historical overview of how diabetes has been researched and framed racially over the past century, chronicling one company's efforts to recruit African Americans to test their new diabetes risk-score algorithm with the aim of increasing the clinical and market value of the firm's technology. He considers African American reticence about participation in biomedical research and examines race and health disparities in light of advances in genomic sequencing technology. Doucet-Battle concludes by emphasizing that genomic research into sub-Saharan ancestry in fact underlines the importance of analyzing gender before attempting to understand the notion of race. No disease reveals this more than Type 2 diabetes. *Sweetness in the Blood* challenges the notion that the best approach to understanding, managing, and curing Type 2 diabetes is through the lens of race. It also transforms how we think about sugar, filling a neglected gap between the sugar- and molasses-sweetened past of the enslaved African laborer and the high-fructose corn syrup- and corporate-fed body of the contemporary consumer-laborer. Before the discovery of insulin, a diagnosis of Type 1 diabetes was a death sentence. To mark the centenary of this landmark in medicine, this book charts the journey of how insulin was transformed from what one clinician called 'thick brown muck' into the very first drug to be produced using genetic engineering, and which earned the founders of US biotech company Genentech a small fortune. Taking the reader on a fascinating journey, starting with the discovery of insulin in the 1920s through to the present day, *Insulin - The Crooked Timber* reveals a story of monstrous egos, toxic career rivalries, and a few unsung heroes and heroines. It discusses in detail the circumstances of Canadian scientist Frederick Banting whose award of the 1923 Nobel Prize for this life-saving discovery proved to be both a blessing and a curse for him and explores how the human story behind this discovery still remains one of ongoing political and scientific controversy. The book is the result of the author's own shocking diagnosis with Type 1 diabetes and its story reminds us all of what technology can - and cannot do - for us. As the world struggles to emerge from the COVID-19 pandemic and face future challenges such as climate change, the lessons that we can learn from the story of insulin have never been more important. Written in a friendly, easy-to-read way, with summaries for quick reference and detailed information when needed, this book is aimed at health care professionals in primary, community and secondary care, helping experienced staff update their knowledge, and acting as a quick guide for those new to diabetes. The paediatric endocrinologist deals not only with common problems involving growth, puberty, and diabetes, but also with specific hormonal defects involving glands such as the thyroid, parathyroid, adrenals, and pituitary. These can vary from common variants of normals which will be encountered by all doctors dealing with children, to more rare disorders requiring specialist input. *Paediatric Endocrinology and Diabetes* is written by two experienced paediatric endocrinologists, and deals with anatomy and physiology before moving on to identification, investigation and management of specific endocrine disorders. As well as covering common and less common endocrine problems, there are also chapters on endocrine investigations and endocrine emergencies, designed for quick reference. The handbook is aimed at junior doctors in training both as specialists and as general paediatricians, as well as specialist nurses in endocrinology and diabetes, but will also be of interest to consultants in general paediatrics and paediatricians with an interest in endocrinology and diabetes. The indispensable guide to all aspects of clinical care, the *Oxford Handbook of Endocrinology and Diabetes* has been fully revised for its third edition. Concise, practical, and packed with vital information and invaluable hands-on advice, this is the must have resource for all those managing patients with endocrine and diabetic disorders. This unique pocket guide has been updated with new dedicated chapters on endocrine surgery, endocrinology and ageing, and obesity, as well as new topics, including intrinsic imperfections of endocrine replacement therapy, transition to adult care, and survivors of childhood cancer. Written in conjunction with the *Oxford Textbook of Endocrinology and Diabetes*, it covers clinical investigation and management of both common and rare conditions. Following the latest protocols and clinical guidelines it ensures readers are up-to-date with the latest clinical care and practice. Clear, concise, and easy-to-use, this handbook will ensure readers have all the information they need at their fingertips. The *Oxford Textbook of Medicine* provides all that any doctor needs to know to practice top-level internal medicine. It gives comprehensive coverage of the epidemiology, aetiology, and mechanism of disease, as well as clear, unambiguous coverage of the diagnosis, practical management and prevention of the entire spectrum of medical disorders. There are major introductory sections on the scientific basis of disease; and in the system-based clinical sections genetic predisposition, pathophysiology, pathogenesis, molecular mechanisms, and cell biology are covered in depth for all significant medical syndromes. Clinical descriptions of diseases are clearly and memorably written, based on the experience and insight of the authors--many of whom are among the world's most distinguished medical scientists. Chapters are not only "evidence based" but also on clinical experience and a thorough survey of all the relevant literature.

Throughout, the approach of OTM is humane and ethical and, at the same time, factual, reliable, honest (especially where knowledge is limited) and rigorously scientific. This is not just a textbook of "First World" medicine. It provides practical guidance for doctors working in a variety of medical settings the value of a logical clinical approach rather than immediate resort to expensive imaging and laboratory tests. Moore of the contributing authors than ever before are from outside Europe, including strong representation of North American medicine. The new editorial team has ensured that the OTM continues to reflect rapid changes in medical practice: there are new sections on intensive care, alcohol and drug abuse, clinical pharmacology and therapeutics, world health, clinical trials and evidence-based medicine, adolescent medicine, sports medicine, and emergency medicine; more than half the contributors are new for this edition; and most of the text has been heavily revised. The striking new page and cover design reflect the significant changes made in this new edition. The Textbook is illustrated by over 2000 two-color diagrams and many color Plates. The index is the most detailed and user-friendly of any major medical textbook: in an emergency, the reader can access information quickly- whether on the ward, in office or at home. Like its predecessors, OTM4 will be the trusted and ultimate reference in libraries, hospitals, doctors' consulting rooms, solicitors' offices, press offices, and primary care practices worldwide. Now in its second edition, the Oxford Textbook of Endocrinology and Diabetes is a fully comprehensive, evidence-based, and highly-valued reference work combining basic science with clinical guidance, and providing first rate advice on diagnosis and treatment. The discipline of Endocrinology encompasses diabetes and obesity, two of the most common and pressing health care concerns today. The Oxford American Handbook of Endocrinology & Diabetes concisely reviews the entire discipline, providing a wealth of daily help for students and residents managing patients with diabetes and obesity as well as reproductive and neuroendocrine disorders, pediatric endocrinology, and problems of the thyroid, pituitary, and adrenal glands. Key topics such as genetics, therapeutic agents, and results of major clinical trials are included, all in a compact and easily-navigable package. The indispensable guide to all aspects of clinical care, the Oxford Handbook of Endocrinology and Diabetes has been fully updated for its fourth edition, providing comprehensive coverage of both disciplines in a practical and concise format. Featuring new chapters on transition in endocrinology and diabetes, practical nursing considerations, and the genetics of endocrinology, and expanded sections on inherited endocrine syndromes and MEN, it retains the clear organisation and layout for ease of reference as the previous edition over a broader range of topics. Combining authority, relevance, and reliability, this title includes new therapies and guidelines alongside 'clinical pearl' and 'tricky situation' boxes to aide readers in rare or complicated situations. This is the must-have guide for all trainees and specialist nurses in endocrinology and diabetes. The handbook concise reviews the entire discipline of endocrinology, including diabetes and obesity, two of the most common and pressing health care concerns today. In people with South Asian ancestry, the cardiovascular diseases of stroke and coronary heart disease (CVD) are epidemic, and type 2 diabetes mellitus (DM2) is pandemic. As South Asians comprise about 25% of the world's population their high susceptibility is of global public health and clinical importance. Eluding researchers across the globe, this phenomenon continues to be a subject of intensive enquiry. As Ban Ki-moon, the United Nations Secretary-General, points out, the epidemics of chronic diseases, which he describes as a public health emergency in slow motion, can be restrained but not stopped. With a focus on the global South Asian population, Epidemic of Cardiovascular Disease and Diabetes: Explaining the Phenomenon in South Asians Worldwide is a critical review of current literature investigating the increase in cases of CVD and DM2, and the data underpinning them. The book argues that the high risk of CVD and DM2 in urbanised South Asians is not inevitable, genetic, or programmed in a fixed way. Rather, exposure to risk factors in childhood, adolescence, and most particularly in adulthood, is the key to unravelling its cause. Drawing on current scientific literature and discussions with 22 international scholars, the book presents a unique synthesis of theory, research, and public health practice under one cover - from tissue research to human intervention trials. It also addresses the challenge many health professionals face in developing countries: to produce focused, low cost and effective actions for combating CVD and DM2. The lessons contained within will have ramifications in healthcare across the globe Epidemic of Cardiovascular Disease and Diabetes: Explaining the Phenomenon in South Asians Worldwide is ideal for scholars, researchers and health practitioners working towards understanding and preventing the epidemics of these modern chronic diseases across the world.

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