

By Renal And Electrolyte Disorders Renal And Electrolyte Disorders Schrier Seventh 7th Edition 7e Textbook Non Kindle Paperback

Serious disturbances of fluid and electrolyte balance are frequently encountered in acutely ill patients; somewhat less often in the chronically sick. There seems to be a trend for such cases to increase, due probably to an increase in major surgical procedures on older patients whose renal function is less than adequate. There are already many publications dealing with the physiology of the homeostasis of fluid and electrolytes, and others dealing with the clinical aspects of the subject. It is often assumed that a knowledge of the basic principles of physiology will enable the doctor to prescribe suitable intravenous therapy. In practice this is often found not to be so and the evidence for this is the frequency of calls for help with electrolyte problems from well-qualified and experienced doctors who are undoubtedly equipped with adequate or even excellent knowledge of the basic principles. It is not an unusual observation that knowledge of theory and principles does not necessarily lead to successful practice in this or any other art or craft. Most doctors already possess knowledge of the physiology of the internal environment, but some are aware of being unable to deal effectively with clinical problems related to fluid and electrolyte disturbances and seek guidance to translate theoretical knowledge into practice.

Renal and Electrolyte Disorders Lippincott Williams & Wilkins

Ideal for residency, fellowship, clinical practice, and board review, the National Kidney Foundation's Primer on Kidney Diseases, 7th Edition, by Drs. Scott J. Gilbert and Daniel E. Weiner, offers comprehensive coverage of adult and pediatric kidney diseases in an authoritative, practical resource. Well organized and highly readable, it covers every relevant topic in the field, from anatomy, physiology, and pathophysiology, to diagnosis and management of kidney disease, to fluid and electrolyte disorders, hypertension, dialysis, and renal transplantation. Trusted by nephrologists at all levels of experience for nearly 25 years, this powerful learning tool and clinical reference is a joint publication of Elsevier and the National Kidney Foundation. Thoroughly covers hot topics in this fast-changing field, including ongoing clinical research and changing treatment protocols. A new chapter on inherited kidney diseases, with a specific focus on APOL1 and the implications of APOL1 carrier status for kidney disease in African-Americans. A new approach to membranoproliferative glomerulonephritis, focusing on the role of complement as a way to approach both the diagnosis and treatment of these diseases. Additions to the chapter on hemodialysis, specifically incorporating information on hemodiafiltration. Updates in the management of hypertension, incorporating results from SPRINT and ACCORD as well as data on treatment of renal artery sclerosis and renal denervation into the approach for blood pressure management. Nephrology and Acid-Base Disorders – as only Harrison's can cover it Featuring a superb compilation of chapters related to kidney function that appear in Harrison's Principles of Internal Medicine, Eighteenth Edition, this concise, full-color clinical companion delivers the latest knowledge in the field backed by the scientific rigor and authority that have defined Harrison's. You will find content from renowned editors and contributors in a carry-anywhere presentation that is ideal for the classroom, clinic, ward, or exam/certification preparation. Features Sections that reflect the scope of nephrology: Introduction to the Renal System; Alterations of Renal Function and Electrolytes; Acute Kidney Injury and Chronic Renal Failure; Glomerular and Tubular Disorders; Renal Vascular Disease; Urinary Tract Infections and Obstruction; and Cancer of the Kidney and Urinary Tract Complete coverage of a broad spectrum of topics, including acid-base and electrolyte disorders, vascular injury to the kidney, and specific diseases of the kidney Integration of pathophysiology with clinical management 41 high-yield questions and answers drawn from Harrison's Principles of Internal Medicine Self-Assessment and Board Review, 18e Content updates and new developments since the publication of Harrison's Principles of Internal Medicine, 18e 22 chapters written by physicians who are recognized experts in the field of nephrology and acid-base disorders Helpful appendix of laboratory values of clinical importance

In clinical medicine and in emergency medicine especially, is crucial to understand and manage the acid-base and electrolyte disorders. This text, the result of years of clinical and educational activity, is organized in three parts: acid-base balance, water and sodium and electrolytes. Clinical interpretation and therapy are discussed through clinical cases that are the main educational tools.

This volume was designed as a text for medical students, house officers, and even clinicians. It deals with the most common problems in nephrology, providing new insight into how to improve clinical skills. A comprehensive overview of renal physiology and electrolyte disorders lays the groundwork for a clear presentation of the pathophysiological principles that underlie these disorders and a step-by-step presentation of the mechanisms behind the signs and symptoms of kidney failure. The origins of this book can be traced to the teaching of a Renal Pathophysiology course at the Washington University School of Medicine, beginning in the mid-1960s. When changes in the medical school curriculum took place in the early 1970s, an effort was made to synthesize the minimum core curriculum for sophomore medical students, and the distillation of "essential material" to be covered in the area of renal pathophysiology led to the development of the first edition of a renal syllabus. This syllabus has been used in our department since 1974, and, following some of the recommendations and critiques of students and faculty, it has been entirely reworked many times to improve its effectiveness and value. This book is a direct extension of that syllabus, integrated with contributions from faculty members in our Renal Division, and expanded to include a section on therapy in most chapters. It is our hope that this format will serve the needs of not only sophomore and senior medical students, but also house officers, nephrology fellows, and clinicians.

Consolidating a wealth of information and the latest research results into one comprehensive reference, Medical Management of Kidney and Electrolyte Disorders is an authoritative guide to diagnosing, understanding, and treating

patients with kidney and electrolyte disorders. Covers a breadth of nephrology topics, especially the symptoms, diagnoses, and treatment of major electrolyte and acid-base disorders. Supplemented with useful and easily understandable tables, summaries, and guidelines! Combining patient, clinical, and diagnostic perspectives for more encompassing care, *Medical Management of Kidney and Electrolyte Disorders* identifies how to determine symptoms of renal or electrolyte disorders interprets physical and laboratory results, defines characteristic patient syndromes, and charts hallmarks of laboratory findings details the diagnosis and management of a large number of diseases, including glomerular diseases, urinary tract infections, inherited renal diseases, and acute and chronic renal insufficiency examines renal disease in pregnancy, obstructive uropathy, diabetic nephropathy, and transplantation highlights preventive nephrology and strategies to slow progression to end-stage renal disease addresses drug dosage modification in patients with renal disease and more! Expertly authored by 45 specialists and containing nearly 600 literature references, tables, drawings, photographs, and equations, *Medical Management of Kidney and Electrolyte Disorders* is a plenary and necessary reference for nephrologists, primary care and emergency room physicians, internists, intensivists, and medical school students in these disciplines.

Announcing the newly updated Sixth Edition of a classic text that was a 2001 Brandon-Hill Selection. Geared to residents and fellows in nephrology, internal medicine, and other specialties, this text bridges the gap between basic and clinical sciences for the many disorders associated with electrolyte imbalances and kidney dysfunction. This edition has been thoroughly revised by world-renowned contributors to reflect the past five years' advances, especially in genetics and molecular biology. Each chapter begins with normal function and pathophysiology and quickly moves to clinical conditions and treatment. Numerous illustrations, tables, charts, and graphs make complex subjects understandable. Up-to-date references are also included.

A comprehensive text that focuses on fluid, electrolyte, and acid-base disorders. It addresses both specific electrolyte disorders and clinical conditions associated with electrolyte imbalances. Includes chapters on electrolyte disturbances in pediatric patients, and starvation and nutrition. Offers even more useful guidance than ever with 3 new chapters on Fluid and Electrolyte Abnormalities in Children, Fluid and Electrolyte Disorders in the Elderly, and Fluid and Electrolyte Disturbances in Starvation. Presents recent advances in the understanding of the pathophysiology, diagnosis, and treatment of many conditions that evoke derangements of salt, water, and acid-base homeostasis. Offers a comprehensive appendix on the nephron segment characteristics that regulate salt, water, and acid-base transport. Includes the expertise of 16 new contributing authors.

Completely updated for its Sixth Edition, this best-selling Spiral® Manual is a practical quick-reference guide to the diagnosis and treatment of renal disorders. The book covers all common renal problems in a user-friendly outline format designed for rapid information retrieval. Coverage includes acute and chronic kidney diseases, fluid and electrolyte disorders, acid-base disturbances, urinary tract infections, kidney stones, and hypertension. This edition includes up-to-date guidelines on use of newer radiologic techniques, a new chapter on glomerulonephritis and vasculitis, and expanded coverage of dialysis and transplantation. A chapter on drug dosing in patients with renal impairment provides specific recommendations for 500 drugs.

An official publication of the National Kidney Foundation (NKF), the book provides a current overview of the pathophysiology, diagnosis, and management of kidney diseases, fluid and electrolyte disorders, hypertension, dialysis, and kidney transplantation. Includes new chapters on pathogenesis and pathophysiology of diabetic nephropathy and genetic basis of glomerular and structural kidney disorders.

The female patient with chronic kidney disease often requires care that differs from the male patient. Particularly in the pregnant patient, a specialized body of knowledge is required to provide optimal care. This book focuses on such issues encountered during pregnancy including physiology and pathophysiology of pregnancy, hypertension, preeclampsia, various electrolyte disorders, nephrolithiasis, pharmacological management in the pregnant patient with kidney disease and during breastfeeding, acute kidney and chronic kidney disease, dialysis of the pregnant patient, lupus nephritis, thrombotic microangiopathy, glomerular disease management, use of renal biopsy during pregnancy, care of the female transplant patient, contraceptive counseling and postpartum care, various endocrine disorders, and bone disease in the female patient with chronic kidney disease. This book features the latest evidence and clinical approaches for the beginner or for the experienced practitioners who care for pregnant woman or even for those who require expertise in women's health. Written by experts in the field, *Obstetric and Gynecologic Nephrology: Women's Health Issues in the Patient with Kidney Disease* is a valuable resource for clinicians and practitioners involved in the care and treatment of obstetric and gynecologic patients afflicted with kidney disease.

The leading reference for the diagnosis and management of fluid, electrolyte, and acid-base imbalances in small animals, *Fluid, Electrolyte, and Acid-Base Disorders in Small Animal Practice*, 4th Edition provides cutting-edge, evidence-based guidelines to enhance your care of dogs and cats. Information is easy to find and easy to use, with comprehensive coverage including fluid and electrolyte physiology and pathophysiology and their clinical applications, as well as the newest advances in fluid therapy and a discussion of a new class of drugs called vaptans. Lead author Stephen DiBartola is a well-known speaker and the "go-to" expert in this field, and his team of contributors represents the most authoritative and respected clinicians and academicians in veterinary medicine. Over 30 expert contributors represent the "cream of the crop" in small animal medicine, ensuring that this edition provides the most authoritative and evidence-based guidelines. Scientific, evidence-based insights and advances integrate basic physiological principles into practice, covering patient evaluation, differential diagnosis, normal and abnormal clinical features and laboratory test results, approaches to therapy, technical aspects of therapy, patient monitoring, assessing risk, and prediction of outcomes for each disorder. Hundreds of tables, algorithms, and schematic drawings demonstrate the best approaches to diagnosis and treatment, highlighting the most important points in an easy-access format. Drug and dosage recommendations are included with treatment approaches in the Electrolyte Disorders section. Clear formulas in the Fluid Therapy section make it easier to determine the state of dehydration, fluid choice, and administration rate and volume in both healthy and diseased patients. Updated chapters cover the latest advances in fluid therapy in patient management, helping you understand and manage a wide

range of potentially life-threatening metabolic disturbances. Expanded Disorders of Sodium and Water chapter includes information on a new class of drugs called vaptans, vasopressin receptor antagonists that may soon improve the ability to manage patients with chronic hyponatremia. Hundreds of new references cover the most up-to-date advances in fluid therapy, including renal failure and shock syndromes. A carefully designed educational text, this book presents sections which contain outlines of the pertinent renal physiology, and case presentations with accompanying questions regarding pathophysiology, diagnosis, and therapy. Answers and important references are included.

"Renal physiology is at the heart of practice of medicine. Concepts such as fluids, electrolytes and acid/base disorders are central to medical disciplines in almost all fields of medicine. There are very few physicians who do not need to be well versed in these concepts. On the other hand, these concepts are some of the most poorly understood concepts in medicine. As an example, there is often confusion that has led to hyponatremia, and physicians are often in doubt as to what fluids are required for a patient with hypernatremia. This book will clarify the logic behind these central concepts and hopefully lead to less doubt in the management of patients with these problems. The book is not intended to be a comprehensive discussion for all aspects of renal physiology; rather, it is intended to clarify the understanding of few core concept of renal physiology as it relates to patient care. As each patient with electrolyte or renal disorder presents in their own unique way, we find it useful to understand the basics behind those core concepts to be able to explain why the patient does not completely fit the textbook case. The purpose of this book is not to serve as a textbook on renal disorders. As such, not all topics in nephrology are covered, but only the ones where we find it beneficial for the physician to better understand those aspects of renal physiology. The book is intended for all physicians; clearly, medical students in their clinical years would benefit from it and especially renal fellows and nephrologists would find it useful. It is often the case that physicians act as the developers of renal physiology and equations, but not much time is spent on understanding how those equations and concepts came about. This book is intended to shine light on these important concepts. Having a true understanding of these concepts would enable one to treat patients who often don't present as a textbook case. In general, this textbook would be helpful for all physicians. However, the group of physicians who would benefit most from it would be those who encounter patients with electrolyte disorders. First and foremost, nephrologists are included in that list, especially nephrology fellows who are just starting to develop a deeper understanding of serum electrolytes. The next group of physicians who would benefit would be intensivists, internists, family practitioners and emergency room physicians who often act as the first line of responders for these patients. Our book is unique among books on renal physiology in that it is not a comprehensive discussion of renal physiology, but it gives the physician reader some helpful hints in understanding key concepts of renal physiology. As such we believe it would be especially helpful in the management of patients with complicated electrolytes or renal disorder. (Nova Biomedical)"--

The National Kidney Foundation Primer on Kidney Diseases is your ideal companion in clinical nephrology! From anatomy, histology, and physiology, through the diagnosis and management of kidney disease, fluid and electrolyte disorders, hypertension, dialysis, and kidney transplantation, this trusted manual from Elsevier and the National Kidney Foundation provides an accessible, efficient overview of kidney diseases that's perfect for residency, fellowship, clinical practice, and board review. Incorporate the latest NKF Kidney/ Outcome Quality Initiative guidelines on chronic kidney disease staging and management. Review the basics with a current and practical review of the anatomy, physiology, pathophysiology, diagnosis, and management of kidney disease, fluid and electrolyte disorders, hypertension, dialysis, and renal transplantation.

This companion to Brenner and Rector's The Kidney offers a concise, practical approach to acid-base and electrolyte disorders, emphasizing pathophysiology and its link to a logical diagnostic approach in treating these disorders. Unlike other traditional textbooks on the subject, ACID BASE AND ELECTROLYTE DISORDERS, focuses less on physiological and pathophysiological concepts and more on providing specific recommendations for therapy and patient care - resulting in an excellent clinical resource that is also an ideal core curriculum or exam review. Many of the topics in this book are not covered in any other resource, including acid-base and electrolyte disorders in the critical care setting. In addition, recent advances in fast-developing areas such as genetic and molecular biology are discussed in detail. Emphasizes acid-base and electrolyte abnormalities in the critical care setting - a topic not fully covered in any other resource. Includes the most up-to-date information on hot topics such as molecular biology and genetics of tubular transport abnormalities, hypertension, and calcium, sodium, and potassium homeostasis. Authors and contributors are experts in their field, providing the most authoritative information available. Figures and tables throughout the book help clarify important concepts. A detailed reference list for each chapter directs the reader to sources for further information, and readers are referred back to Brenner and Rector's The Kidney for complete discussions the complex physiology of certain disorders.

The underlying premise of this text is that clinical disturbances of acid-base and electrolyte balance are most effectively managed by understanding the basic principles of renal and electrolyte physiology. Toward that end the text begins with a review of normal renal function and extrarenal fluids and regulatory processes. Next, the major disorders of acid-base and electrolyte balance are reviewed with concise summaries of etiology, symptoms, diagnosis and treatment. Discussion of pathophysiology of each disorder is cross-referenced to earlier chapters to tie together basic principles and clinical applications.

A reference book offering up-to-date, comprehensive coverage of every aspect of nephrology. Topics covered include the physiology of the kidney, the pathophysiology of renal and electrolyte disorders, pathogenesis, clinical features and the management of kidney diseases. This superbly written text gives students, residents, and practitioners the edge in understanding the mechanisms and clinical management of acid-base disorders. Presents the core information to understand renal and electrolyte physiology, and reviews the treatment rationale for all major acid-base and electrolyte disturbances. The entire text is exhaustively revised, and now includes questions and answers in each chapter.

Now in its Seventh Edition, this best-selling Spiral® Manual is a practical quick-reference guide to the diagnosis and treatment of renal disorders. The book covers all common renal problems in a user-friendly outline format designed for rapid information retrieval. Coverage includes acute and chronic kidney diseases, fluid and electrolyte disorders, acid-base disturbances, urinary tract infections, kidney stones, and hypertension. Highlights of this Seventh Edition include updated information on kidney disease in diabetes. A chapter on drug dosing in patients with renal impairment provides sp.

Ideal for residency, fellowship, clinical practice, and board review, the National Kidney Foundation's Primer on Kidney Diseases, 7th Edition, by Drs. Scott J. Gilbert and Daniel E. Weiner, offers comprehensive coverage of adult and pediatric kidney diseases in an authoritative, practical resource. Well organized and highly readable, it covers every relevant topic in the field, from anatomy, physiology, and pathophysiology, to diagnosis and management of kidney disease, to fluid and electrolyte disorders, hypertension, dialysis, and renal transplantation. Trusted by nephrologists at all levels of experience for nearly 25 years, this powerful learning tool and clinical reference is a joint publication of Elsevier and the National Kidney Foundation. Thoroughly covers hot topics in this fast-changing field, including ongoing clinical research and changing treatment protocols. A new chapter on inherited kidney diseases, with a specific focus on APOL1 and the implications of APOL1 carrier status for kidney disease in African-Americans. A new approach to membranoproliferative glomerulonephritis, focusing on the role of complement as a way to approach both the diagnosis and treatment of these diseases. Additions to the chapter on hemodialysis, specifically incorporating information on hemodiafiltration. Updates in the management of hypertension, incorporating results from SPRINT and ACCORD as well as data on treatment of renal artery sclerosis and renal denervation into the approach for blood pressure

management. Expert Consult eBook version included with purchase. This enhanced eBook experience allows you to search all of the text, figures, and references from the book on a variety of devices.

This book provides readers with all the tools needed to handle interesting clinical challenges in the field of fluid and electrolyte disorders. It aims to offer an up-to-date clinical text for medical residents, fellows, practicing physicians, and nephrologists in a simple and easy-to-understand format. It provides the right balance between basic science and practical clinical guidance. It discusses the current evidence regarding the physiology, basic fundamentals, clinical presentation, and management of these disorders and will help clinicians to handle these disorders effectively. And all chapters have been extensively revised and bound to include the latest developments in the field. Early detection of renal problems coupled with the appropriate therapeutic strategy can radically reduce the progressive nature of, and complications associated with, chronic kidney disease, and in many instances will result in the successful treatment of acute kidney injury. As many patients will not be seen by nephrologists, it is essential that all healthcare professionals, in hospitals and in the community, have an awareness of renal disease – the presenting signs, differential diagnoses, treatment strategies and approach to the management of complications. 'Fast Facts: Renal Disorders' is an easy-to-read, evidence-based guide to renal diseases and disorders for all doctors, nurses and medical students. It includes:

- A clear explanation of proteinuria, hematuria, electrolyte imbalances and acid–base disorders
- A concise summary of kidney function tests, imaging techniques and biopsy
- Important questions for prompt diagnosis of acute kidney injury
- Management options for chronic kidney disease and its complications
- Practical guidance on the most common renal problems, including glomerulonephritis, systemic disease, UTIs and kidney stones

Written by three specialists of international repute, 'Fast Facts: Renal Disorders' provides the key information required for the optimal care of renal patients. This fully updated second edition will help healthcare professionals assess, identify, treat and refer patients with renal problems appropriately. Directly applicable to the clinical setting, it is essential reading for all primary care providers, junior hospital doctors, specialist trainees, renal nurses and medical students. Contents:

- Proteinuria, hematuria and renal investigations
- Electrolyte disturbances and acid–base disorders
- Acute kidney injury
- Chronic kidney disease
- Hypertension and diabetic nephropathy
- Glomerulonephritis
- Systemic disease
- Inherited kidney disease
- Urinary tract infection
- Kidney stones
- Urinary tract obstruction and tumors
- Renal replacement therapy and transplantation

This new text—a collaborative effort between students and teachers at the University of Wisconsin School of Medicine—provides a unique introductory overview of renal disease, including hypertension and renal transplantation, topics not always covered in other texts. It fully discusses the pathophysiology of renal disorders, using case histories and contemporary data to help you appreciate the mechanisms of these diseases and gain a better understanding of the treatment options available. A consistent chapter format—featuring chapter objectives, key points boxes, and helpful case questions with clinical applications throughout—makes the book user-friendly and easy to reference, while questions at the end of each chapter help you assess your mastery of the material. Discusses significant advances in the field—including those related to pathophysiology of glomerular diseases, electrolyte disorders, renal tubular transport systems, hypertension, transplantation, hereditary diseases, and chronic kidney disease—to keep your knowledge current. Uses a consistent chapter format—featuring chapter objectives, key points boxes, and helpful case questions with clinical applications throughout—to make the book user-friendly and easy to reference. Features questions at the end of each chapter to help you gauge your mastery of the material.

Geared to residents and fellows in nephrology, internal medicine, and other specialties, this classic text bridges the gap between basic and clinical sciences for the many disorders associated with electrolyte imbalances and kidney dysfunction. This edition has been thoroughly revised by world-renowned contributors to reflect recent developments in renal pathophysiology. Highlights include completely updated information on the role of the kidney in hypertension, afferent and efferent mechanisms of renal sodium retention, and delineation of mutation defects causing congenital nephrogenic diabetes insipidus. Each chapter begins with normal function and pathophysiology and quickly moves to clinical conditions and treatment. Numerous illustrations, tables, charts, and graphs make complex subjects understandable. Up-to-date references are also included.

This official publication of the National Kidney Foundation (NKF) covers all aspects of adult and pediatric kidney diseases and is ideal for nephrologists and non-nephrologists alike. The full-color design, high-quality photographs, and outstanding graphs and tables make information easy to access and understand. The latest management techniques and pearls from leading clinical experts—including international contributors—offer practical and authoritative guidance. Edited by Dr. Arthur Greenberg and members of the NKF Scientific Advisory Board, this state-of-the-art primer provides consistent depth of coverage, balanced discussion of controversy, and a uniform focus of information. Incorporates the latest NKF Kidney/Outcome Quality Initiative (K/DOQI) guidelines on chronic kidney disease staging and management. Features a current and practical review of the anatomy, physiology, pathophysiology, diagnosis, and management of kidney disease, fluid and electrolyte disorders, hypertension, dialysis, and renal transplantation. Covers the whole field of nephrology in concise and well-illustrated, four-color chapters. Puts complex material and the latest developments into perspective for in-depth, yet succinct summaries in every area. Includes high-quality photographs, as well as outstanding graphs and tables for a varied approach to the subject matter. new chapters on Disorders of Magnesium Homeostasis and Thrombotic Microangiopathies to reflect advances in management. Includes the most up-to-date management guidelines and pearls of wisdom to provide you with best practices. Presents new ideas and perspectives through 25% new contributing clinical experts.

Chronic Renal Disease comprehensively investigates the physiology, pathophysiology, treatment, and management of chronic kidney disease (CKD). This translational reference takes an in-depth look at CKD while excluding coverage of dialysis or transplantation, which are both well detailed in other textbooks and references. Chapters in the basic science sections are devoted to the scientific underpinnings of the development and progression of CKD, including consideration of different etiologic factors. Chapters in the treatment and management sections are geared towards the most common problems faced by nephrologists in the management of CKD. Each chapter relates specific illnesses to the CKD framework instead of covering only the specific illness. Readers will learn, for example, how the management of CKD in a patient with diabetic nephropathy differs from that of other CKD patients. Chapters indicate which unique complications the reader needs to be aware of when treating a specific patient or disease. Chronic Renal Disease includes a companion web-based question and answer supplement to each chapter. This is a valuable resource to reinforce the content of the chapters. The questions are multiple-choice, clinically focused and include referenced discussions of answers. The questions can be used for medical student, resident and fellow teaching, preparation for board or maintenance of certification examinations, and clinician teaching or conference preparation. Provides a useful resource to professors who need to create lectures for residents and fellows, and to identify and summarize relevant literature as it relates to various research projects Includes multiple choice questions and answers, which can be used as a teaching tool for conferences and continuing medical education activities Includes coverage of classification and measurement, epidemiology, pathophysiology,

complications of CKD, fluid / electrolyte disorders in CKD, CKD and systemic illnesses, clinical considerations, therapeutic considerations, and special considerations

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