

Dialysis: A Review of the Mechanisms Underlying Complications in the Management of Chronic Renal Failure

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Disclosures can be found in Additional Information at the end of the article

Abstract

Chronic renal failure (CRF) is the most prevalent, worldwide public health problem of the elderly population. The main cause of CRF is a damaged kidney. There are five stages of CRF based on the glomerular filtration rate (GFR), and stage 5 (GFR < 15 ml/min/1.73m²) is often called an end-stage renal disease (ESRD). In CRF, there is an accumulation of toxins and excess water due to compromised renal function. Dialysis is the preferred way to treat ESRD and remove accumulated toxins from the body. The cardiovascular risk associated with dialysis is 10 to 20 times higher in patients undergoing dialysis than in normal people. The inflamed kidneys and the process of dialysis also affect endothelial function, aggravating the risk of hypertension and cardiac problems. Therefore, both physicians and patients should be aware of the consequences of undergoing dialysis. There is an urgent need to educate CRF patients regarding facts about the disease, medications, dietary habits, and various measures required to manage the condition and lead a normal life. This paper attempts to delineate the mechanisms that could result in cardiovascular and other complications among CRF patients undergoing dialysis.

Categories: Endocrinology/Diabetes/Metabolism, Urology, Epidemiology/Public Health

Keywords: chronic renal failure, hypertension, dialysis, cardiovascular risk, glomerular filtration rate, end stage renal disease

Introduction And Background

The process of removal of waste and extra water from blood is called dialysis [1]. It is an artificial replacement of kidney functioning, especially in renal failure cases. Dialysis cannot completely perform lost kidney function, but, to some extent, manages its activities by means of diffusion and ultrafiltration [2]. It is done in chronic renal failure (CRF) when the glomerular filtration rate falls below 15 ml/min/1.73m² [3]. CRF is a condition where there is a loss of kidney function over a period of months or years. CRF can be diagnosed by measuring serum creatinine levels, which are a degradative product of muscle protein. Creatinine levels indicate the glomerular filtration rate (GFR) and in CRF, its activities are raised, indicating a lowered GFR [4]. There are five stages of CRF based on the GFR, and dialysis is preferred in stage 5 (GFR < 15 ml/min/1.73m²); this stage is also called end stage renal disease (ESRD) [5]. Dialysis is performed in CRF patients to remove accumulated toxins from the body. This procedure may be responsible for the development of oxidative stress, due to an imbalance between the overproduction of reactive oxygen species or toxins and a reduced defense mechanism of the body [6]. Oxidative stress disrupts the normal functioning of the cell. It was observed in a

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Mechanisms And Clinical Management Of Chronic Renal Failure

Cailin R. McKenna



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Mechanisms and Clinical Management of Chronic Renal Failure Mohamed Yousri el Nahas, Kevin Harris, Sharon Anderson, 2023 This is review of the mechanisms underlying kidney scarring the clinical aspects related to progressive chronic renal failure It covers diabetic non diabetic kidney diseases addresses issues related to renal diseases in tropical areas

Mechanisms and Clinical Management of Chronic Renal Failure A. Meguid El Nahas, Kevin P. G. Harris, Sharon Anderson, 2000 This book provides the reader with a comprehensive review of the mechanisms underlying kidney scarring and the clinical aspects related to progressive chronic renal failure It deals with aspects of diabetic and non diabetic kidney diseases It also addresses issues related to the progression of renal diseases in tropical areas It is written by experts in the field who provide the readers with an up to date review of the literature and share their own experience and views on the subjects they cover The authors also provide when appropriate some guidelines and recommendations for the management of progressive renal insufficiency This book should appeal to nephrologists and general physicians with an interest in nephrology It should be a valuable source of information for trainees in the field of nephrology who may want an up to date review on a topic related to the progression of renal diseases

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heavily revised illustrations visually highlight pathophysiology concepts NEW More than 30 new 3D animations on Evolve bring difficult concepts to life for a new perspective on disease processes *Hypokalemia: Pathophysiology, Clinical Management, and Emerging Perspectives* Dr. Spineanu Eugenia, 2025-02-19 Hypokalemia Pathophysiology Clinical Management and Emerging Perspectives is a comprehensive treatise exploring the intricate mechanisms clinical manifestations and cutting edge advancements in the understanding and management of hypokalemia From genetic insights into potassium regulation to personalized treatment strategies and innovative therapeutic approaches this authoritative work delves into the complexities of electrolyte balance disorders It offers invaluable insights for healthcare professionals researchers and clinicians seeking to optimize patient care enhance treatment efficacy and improve outcomes in hypokalemic disorders

The Genetics of Renal Disease Frances Flinter, E. R. Maher, Anand Sagar-Malik, 2003 Renal genetic disorders may become apparent at any time in life and recognition of specific renal disorders is important in allowing accurate genetic counselling Active counselling requires knowledge about the natural history of the disorder an understanding of the genetic component and mode of inheritance risk of the disorder in other family members information about patient attitudes towards family planning and the possibility of pre natal diagnosis The Genetics of Renal Disease provides a comprehensive account of both the hereditary nephropathies and more generalised disorders which may affect the renal tract It includes comprehensive guidelines from an international group of authors on renal function and development chromosomal disorders dysmorphic syndromes inherited predisposition to kidney cancer and gene therapy for renal cancer Specific chapters deal with individual renal tract disorders such as an extensive discussion of Alport's disease cystic renal diseases the Bardet Biedl and Alstrom syndromes Each section gives a brief description of the clinical and pathological features of a particular disorder followed by a review of the genetics of the disorder including incidence inheritance of familial occurrence genetic linkage and gene assignment and prenatal diagnosis and carrier detection Original studies are extensively quoted and are referenced at the end of each section There are a great many dysmorphic syndromes that involve the urinary tract These are incorporated within the book

Research Awards Index, 1988 *Cumulated Index Medicus*, 1977

Annual Report of the Director, National Institute of Arthritis, Diabetes, and Digestive and Kidney Diseases National Institute of Arthritis, Diabetes, and Digestive and Kidney Diseases (U.S.), 1983

Diseases of the Kidney and Urinary Tract Robert W. Schrier, 2007 The thoroughly updated Eighth Edition of this classic three volume work provides the most comprehensive current and authoritative information on diseases of the kidney and urinary tract This clinically oriented reference focuses on diagnosis and treatment of specific diseases disorders and complications and incorporates the basic science practicing physicians need to evaluate and manage the disease process Each of the fourteen sections is written by internationally renowned contributors and provides coverage comparable to a complete book The first two sections review renal basic science and describe current diagnostic tools The remaining twelve sections cover various

types of diseases including hypertension urological problems and urinary tract concerns Each disease oriented section begins with an up to date review of pathophysiology and then focuses on specific diseases This edition has new lead authors for more than 25 chapters and separate chapters on heart disease and the kidney liver disease and the kidney and the nephrotic syndrome **Brenner and Rector's The Kidney E-Book** Alan S. L. Yu, Glenn M. Chertow, Valerie Luyckx, Philip A. Marsden, Karl Skorecki, Maarten W. Taal, 2019-09-25 Put the world s most well known kidney reference to work in your practice with the 11th Edition of Brenner Rector s The Kidney This two volume masterwork provides expert well illustrated information on everything from basic science and pathophysiology to clinical best practices Addressing current issues such as new therapies for cardiorenal syndrome the increased importance of supportive or palliative care in advanced chronic kidney disease increasing live kidney donation in transplants and emerging discoveries in stem cell and kidney regeneration this revised edition prepares you for any clinical challenge you may encounter Extensively updated chapters throughout providing the latest scientific and clinical information from authorities in their respective fields Lifespan coverage of kidney health and disease from pre conception through fetal and infant health childhood adulthood and old age Discussions of today s hot topics including the global increase in acute kidney injury chronic kidney disease of unknown etiology cardiovascular disease and renal disease and global initiatives for alternatives in areas with limited facilities for dialysis or transplant New Key Points that represent either new findings or pearls of information that are not widely known or understood New Clinical Relevance boxes that highlight the information you must know during a patient visit such as pertinent physiology or pathophysiology Hundreds of full color high quality photographs as well as carefully chosen figures algorithms and tables that illustrate essential concepts nuances of clinical presentation and technique and clinical decision making A new editor who is a world renowned expert in global health and nephrology care in underserved populations Dr Valerie A Luyckx from University of Z rich Board review style questions to help you prepare for certification or recertification Enhanced eBook version included with purchase which allows you to access all of the text figures and references from the book on a variety of devices **Reviews in Frontiers in Nephrology** Eleni Frangou, Motonobu Nakamura, Sayna Norouzi, 2025-03-10 Frontiers in Nephrology is delighted to present the Reviews in series of article collections Reviews in Frontiers in Nephrology will publish high quality scholarly review papers on key topics in nephrology It aims to highlight recent advances in the field whilst emphasizing important directions and new possibilities for future inquiries We anticipate the research presented will promote discussion in the nephrological community that will translate to best practice applications in clinical public health and policy settings The Reviews in Frontiers in Nephrology collection welcomes full length mini or systematic review papers New articles will be added to this collection as they are published **Oral Radiology - E-Book** Stuart C. White, Michael J. Pharoah, 2014-05-01 With more than 1 000 high quality radiographs and illustrations this bestselling book visually demonstrates the basic principles of oral and maxillofacial radiology as well as effective clinical application You ll be able to

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alleviating the misery and losses to society of this vicious behavioural disorder

Fluid, Electrolyte, and Acid-Base Disorders in Small Animal Practice Stephen P. DiBartola, 2011-06-22 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

Smith's Anesthesia for Infants and Children E-Book Peter J. Davis, Franklyn P. Cladis, 2021-11-30 Written and edited by renowned experts in pediatric anesthesia Smith's Anesthesia for Infants and Children provides clear concise guidance on effective perioperative care for any type of pediatric surgery The 10th Edition contains significantly revised content throughout bringing you fully up to date with recent advances in clinical and basic science that have led to changes in today's clinical practice Offers comprehensive coverage of physiology pharmacology and clinical anesthetic management of infants and children of all ages Contains new chapters on Airway Physiology and Development Normal and Difficult Airway Management Ultrasound Acute Pain Management Chronic Pain Management Palliative Pain Management Infectious Diseases and Education plus extensively revised content on cardiovascular physiology induction maintenance and recovery organ transplantation and more Features more than 100 video demonstrations including regional anesthesia videos echocardiograms of congenital heart lesions anatomic dissections

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Kidney Disease and Nephrology

Index, 1977-07

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