

# RENAL ANATOMY AND PHYSIOLOGY



## FUNCTION OF THE KIDNEYS

Kidneys function as the washing machines of the body. The body excretes waste and cleans the body by putting the waste in the potty.

**A:** Acid Base balance

**W:** Water removal/ waste removal BUN

**E:** Erythropoiesis

**T:** Toxin removal

**B:** Blood pressure control

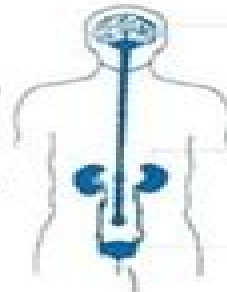
**E:** Electrolyte balance

**D:** D vitamin activation



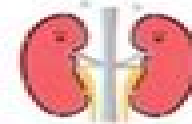
## KIDNEY STRUCTURE & HOW PEE IS MADE

- The kidneys are located to either side of the body at the level of the last thoracic vertebra to the first three lumbar vertebrae.
- On top of each kidney are adrenal glands. These help maintain blood pressure and influence sodium and water balance.
- The kidneys are enclosed in a renal capsule.
- The renal cortex makes up the outer layer of the renal capsule. The renal capsule contains the glomeruli.
- The renal medulla is the inner aspect of the kidney. The renal medulla contains the renal pyramids & renal tubules. This constitutes the parenchyma.
- **Glomerulus:** A gathering of capillaries that filter large plasma proteins and blood cells. Blood flows into the glomerulus via the afferent arterioles and out via efferent arterioles.
- **Bowman's Capsule:** Houses the glomerulus. Electrolytes, waste, glucose, and amino acids are filtered into Bowman's space from the glomerular membrane and enters the proximal convoluted tubule PCT.
- **Nephrons:** The functional part of the kidney. Located in the parenchyma. Made of glomerulus and tubules. Selectively secretes and reabsorbs ions, electrolytes and water.
- **Tubules:** Proximal convoluted tubules, distal convoluted tubule and loop of henle. The PCT receives filtrate from the glomerular capsule and reabsorbs water and electrolytes. The descending loop of henle reabsorbs water. The Ascending loop of henle reabsorbs sodium and chloride to maintain osmolality. The DCT removes sodium and water. Filtered fluid is converted to urine in the tubules and urine moves into the Renal pelvis of the kidney. Urine then moves into the ureters down to the urinary bladder.
- **Bladder:** A detrusor muscle composed of smooth muscle. distends when the bladder is filled and contracts upon micturition (emptying of the bladder). Total bladder capacity is 1 L/ day. Normal adult urine output is 1500-2000 mL/ day.



## RISK FACTORS FOR RENAL DISORDERS

- Chemical exposure
- Contact sports
- Family history
- Frequent UTI
- Heart failure
- High Sodium diet
- Hypertension
- Medications
- Trauma
- Urolithiasis
- Nephrolithiasis



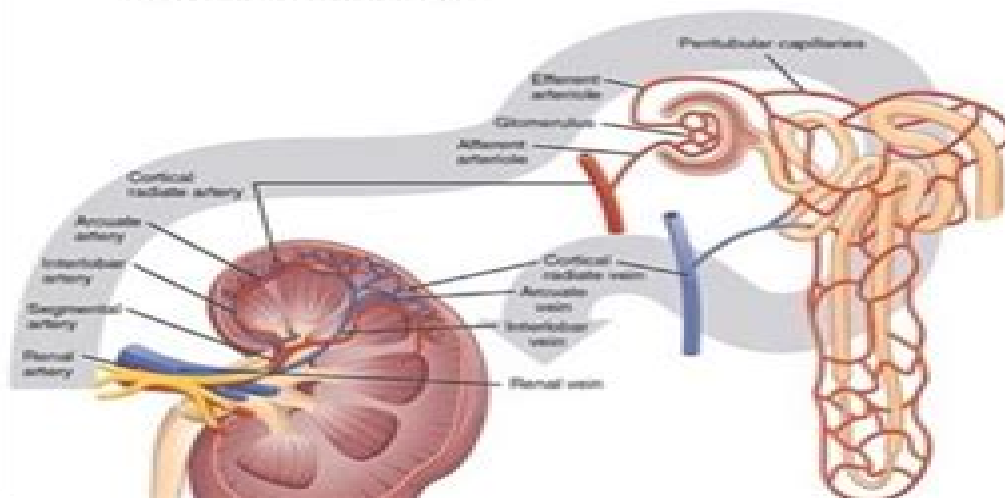
## PH AND ELECTROLYTE BALANCE

- Increases in serum potassium levels stimulate the production and release of aldosterone. Aldosterone signals the tubules to secrete potassium causing potassium levels normalize.
- PH levels are controlled by buffer systems. Sodium bicarb is controlled by the kidneys. Normal PH levels are 7.35-7.45. When acids become too high in concentration the kidneys release sodium bicarb to neutralized by ammonia and excreted as ammonia and potassium salts. If alkalosis is occurring then more bicarb and  $\text{NH}_3$  are excreted.



## RENAL FUNCTION STUDIES

- **BUN: 8-25 mg/ dL** Elevated bun could indicate dehydration. as long as creatinine is normal think "Burnt BUNS"
- **Serum Creatinine: 0.7-1.4 mg/dL** : Body is burning muscle. If your washing machines are broken serum creatinine will be elevated, serum creatinine and elevated BUN can indicate renal failure.
- **Uric Acid : 2.5-8.0 mg/dL**



# Nephrology Study Guide

**Donna Bednarski**



## **Nephrology Study Guide:**

Absolute Nephrology Review Alluru S. Reddi, 2022-01-27 Written in a succinct question and answer format this comprehensive book is a resource on all areas of nephrology and common clinical scenarios The updated volume covers the basic physiology of fluids electrolytes and acid base problems renal disorders and management chronic kidney disease hypertension and other essential subjects The nearly 1000 detailed questions and answers prepare readers for nephrology and internal medicine boards and provide a better understanding of nephrology as a whole This new edition of Absolute Nephrology Review features the latest evidence and guidelines needed by nephrology fellows practicing nephrologists and clinicians

**Nephrology Specialty Review and Study Guide** William Johnson, 2015-09-25 Includes Multiple choice fact scenario and case based questions Correct answers and explanations to help you quickly master specialty content All questions have keywords linked to additional online references The mission of StatPearls Publishing is to help you evaluate and improve your knowledge base We do this by providing high quality peer reviewed educationally sound questions written by leading educators StatPearls Publishing

*Nephrology* Surjit Tarafdar, 2020-02-05 Lecture Notes Nephrology is a concise introduction to the fundamental principles of nephrology An ideal study guide for medical trainees this accessible resource combines the depth of a textbook with the accessibility of a handbook Succinct chapters describe the clinical implications of renal physiology examine major renal disorders and diseases and explain a wide range of management and treatment options A new addition to the popular Lecture Notes series this handbook provides trainees in nephrology with core subject knowledge and enables medical students to gain a more comprehensive understanding of this complex specialty Offers clear easy to understand coverage of all relevant nephrology topics Includes MCQs and discussion around the answers ideal for those preparing for written Internal Medicine examinations including the certification examination of the American Board of Internal Medicine the UK based MRCP and the Australia and New Zealand based FRACP examinations Features chapter summaries and numerous infographics tables and figures Emphasises core management skills needed by medical students and junior doctors Is presented in the consistent and well recognised Lecture Notes format

*Nephrology Study Guide; Concise Information That Every Med Student, Physician, NP, and Pa Should Know* Jt Thomas MD, 2015-04-12 Just the facts are included in this book This is the perfect text if you are looking for a quick review of the information you need to know about Nephrology This rapid access information won't waste your time This Nephrology Study Guide has distilled the key details down to the concise facts that you will understand and remember This Nephrology Study Guide is an ideal resource for medical students and anyone who wants to understand more about internal medicine This book quickly reviews the information about the most common Nephrology questions and answers Did you know the pathophysiology of contrast induced renal failure Did you know that renal artery stenosis accounts for approximately 4% of cases of hypertension Did you know that RBC casts reflect glomerular inflammation or ischemia The Nephrology Study Guide will present this

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**Review of Hemodialysis for Nurses and Dialysis Personnel - E-Book** Judith Z. Kallenbach, 2020-04-03. Get complete dialysis coverage and an excellent review for the certification exam. Review of Hemodialysis for Nurses and Dialysis Personnel, 10th Edition, uses a concise Q & A format to cover the principles, diseases, and problems of dialysis treatment for kidney failure. A new chapter on case management of the patient with chronic kidney disease keeps you current with the latest in dialysis treatment and equipment. Dialysis expert Judy Kallenbach provides clear, easy-to-read guidelines that will apply to every member of the dialysis team, from technicians and nurses to social workers and patients. Comprehensive coverage provides the knowledge needed to care for dialysis patients and to prepare for the certification exam, with topics including a review of body fluids and electrolytes, infection control, transplantation, and key psychosocial aspects of dialysis treatment. Question and answer format makes learning easier and makes the book suitable for independent study. Multidisciplinary approach includes a chapter on the different roles in the hemodialysis team, describing how dialysis care is coordinated and what patients go through during their treatment. Easy-to-understand style introduces new terms and concepts without assuming prior knowledge of dialysis. Home Dialysis Therapies chapter describes the use of home dialysis treatment as a possible cost-cutting measure. Useful appendixes offer a quick reference to the sodium and potassium content of various foods, nephrology organizations and resources, a list of dialysis lab tests, a glossary, and more. Coverage of the entire lifespan helps you care for patients of different ages, with separate chapters on pediatric dialysis and end-stage renal disease in the elderly. 70 illustrations depict all aspects of dialysis treatment and care. NEW Case Management of the Chronic Kidney Disease Patient chapter is added. EXPANDED Patient Education Guidelines chapter adds coverage of motivational interviewing. EXPANDED Psychosocial Aspects of Dialysis Therapy chapter adds information on patient care. UPDATED content includes new guidelines and information on medication.

**Nephrology and Hypertension Board Review** Phuong-Chi Pham, Phuong-Thu Pham, 2025-02-14. With its concise outline format, abundant illustrations, and features that promote high-yield study and effective retention, Nephrology and Hypertension Board Review Practice Test is

the go to book for those seeking certification and recertification in nephrology with the American Board of Internal Medicine or just mastering the knowledge required in the daily practice of nephrology and hypertension Edited by Drs Phuong Chi T Pham and Phuong Thu T Pham the fully revised 3rd Edition proportionally covers all topics listed in the updated blueprint for the exam offers ample opportunity for practice and helps with identifying areas for further study **Nephrology Nursing Certification Review Guide** Norma Gomez,2016-02-02 This fifth edition of the Nephrology Nursing Certification Review Guide is a popular and valuable resource for nurses as they prepare to sit for the Nephrology Nursing Certification Commission NNCC examinations This guide can be used for both the Certified Nephrology Nurse CNN and the Certified Dialysis Nurse CDN exams based on the blueprint from the Nephrology Nursing Certification Commission NNCC This edition includes a rationale for each answer When possible a reference has been provided if a reference was not available the answer was based on expert opinion A section for the Advanced Practice Registered Nurse in Nephrology focused on pharmacology and diagnosis is also included **Renal Transplantation Case Studies** Robert J. Corry, John Secord Thompson, 1977

**Nephrology Nursing Certification Review Guide** Norma Gomez, 2008 Nephrology Nursing Certification Review Guide c 2008 4th edition The 2008 edition of ANNA's Nephrology Nursing Certification Review Guide is an excellent resource to assist professionals in preparing for the Certified Nephrology Nurse CNN and Certified Dialysis Nurse CDN exams The review guide includes comprehensive case studies and questions covering multiple areas within the specialty a practice test answer sheet with suggested references and readings and sections on critical thinking related to test taking This resource can be used in conjunction with other primary sources such as ANNA's Core Curriculum for Nephrology Nursing 2008 as a study guide for the nephrology nursing certification exams **Nephrology Nursing Certification Review Guide** Donna Bednarski, 2021-05 The 2021 edition of the Nephrology Nursing Certification Review Guide Sixth Edition is an excellent resource to assist professionals in preparing for the Certified Nephrology Nurse CNN the Certified Dialysis Nurse CDN and the Certified Nephrology Nurse Nurse Practitioner CNN NP exams The review guide includes comprehensive case studies and more than 275 questions covering multiple areas within the specialty a practice test answer key with rationale as well as references and additional readings and sections on critical thinking related to test taking Focus areas include Concepts of Kidney Disease new in this edition Chronic Kidney Disease Hemodialysis Peritoneal Dialysis Transplantation expanded in this edition Acute Care and Advanced Practice Registered Nurse expanded in this edition This resource can be used in conjunction with other primary sources such as the Core Curriculum for Nephrology Nursing Seventh Edition as a study guide for the nephrology nursing certification exams **Manual of Nephrology** Robert W. Schrier, 1990 **Manual of Nephrology** Richard S. Muther, John Maynard Barry, William M. Bennett, 1990 **Nephrology Nursing Certification Exam Prep Guide : from the People who Create and Score the National Exam!** Canadian Nurses' Association, Janssen-Ortho Inc, 1999 **Clinical Nephrology** , 2010 **Review of Hemodialysis for Nurses and Dialysis**

**Personnel** Judith Z. Kallenbach, 2005 Using a practical straight forward introduction to dialysis this text is a must have reference for health care workers caring for hemodialysis patients Assuming no prior knowledge of patient care nursing procedures or dialysis principles it takes an interdisciplinary approach to provide an overview of dialysis technology and the relationship of dialysis to nursing nutrition medicine and psychosocial aspects of treatment Each chapter is presented in a logical question and answer format that promotes critical thinking and engages the reader Lifespan content home dialysis considerations and quick reference material enhance the text s comprehensive approach to care Its up to date material and comprehensiveness also make it an excellent resource for dialysis technicians preparing for a certification examination Features a question and answer format that streamlines the learning process and engages the reader Offers comprehensive coverage including a review of fluids and electrolytes through transplantation infection control and the important psychosocial aspects of dialysis treatment Introduces new terms and concepts using simplified language style to assist the patient novice health care worker and technician with the learning process Offers definitions of new terms and clear explanations of concepts along with the how and why of principles and effects to facilitate learning and foster critical thinking Covers the lifespan with separate chapters on pediatric hemodialysis and end stage renal disease in the elderly Includes home dialysis therapies to provide instruction on this important aspect of care Focuses on the roles of the multidisciplinary dialysis team including the patient and the patient s family to provide a comprehensive approach to dialysis and the related patient care Provides an excellent resource for dialysis technicians preparing for a certification examination Includes useful quick reference content including nephrology organizations and resources conversion table and a glossary Provides updated information to reflect current changes and technological advances in dialysis therapy Features two new chapters that offer up to date and comprehensive coverage Clinical Manifestations of ESRD and Laboratory Data Analysis and Interpretation Includes updated HCFA requirements and guidelines and DOQI guidelines to promote standards of nephrology care Offers new and expanded pharmacologic information to provide readers with a current and complete resource     Certification and Accreditation Programs Directory Michael A. Paré, 1996 Providing detailed profiles on certification and accreditation programmes in the US this book includes information on certification and accreditation programmes that denote skill level professionalism accomplishment and excellence     **Renal, Genitourinary and Breast Pathology and Pathophysiology Case Studies** Richert E. Goyette, 1976

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