

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

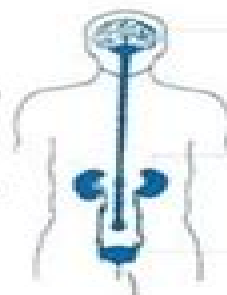
E: Electrolyte balance

D: D vitamin activation



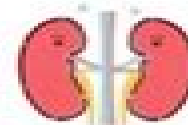
KIDNEY STRUCTURE & HOW PEE IS MADE

- 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



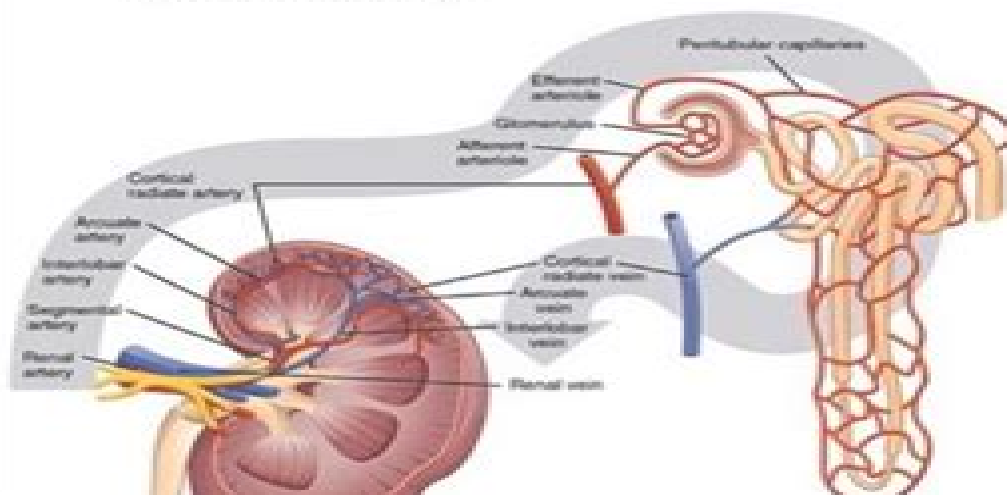
PH AND ELECTROLYTE BALANCE

- 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 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

Alluru S. Reddi



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

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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

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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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