

Renal Physiology Notes

Function of the Kidney

Filtration, Excretion, Electrolyte balance, Acid-base balance (long term), Endocrine functions - blood pressure (via renin secretion) and stimulating production of red blood cells (via erythropoietin)

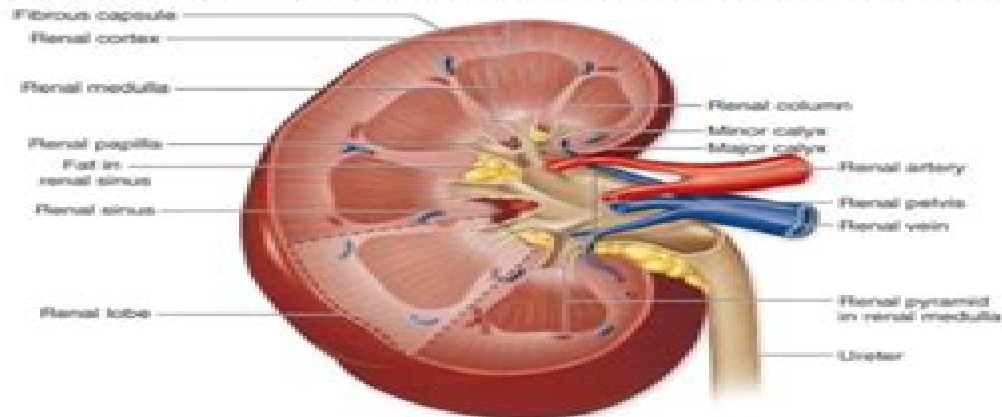
Anatomy of the Kidney

The kidneys lie against the posterior abdominal wall at the level of T12 to L3

Right kidney is slightly lower because of the liver

Rib 12 cross the approximate middle of the left kidney

Retroperitoneal, along with ureters, urinary bladder, renal artery and vein, and the adrenal glands



Renal artery and vein come off the abdominal aorta and the inferior vena cava respectively

Blood flow through kidney

Aorta → Renal a. → Segmental a. → Interlobar a. → Arcuate a. → Interlobular a. → Afferent arteriole → Glomerulus → Efferent arteriole → Peritubular capillaries → Interlobular v. → Arcuate v. → Interlobar v. → Renal v. → Inferior vena cava

Note: juxtamedullary nephrons have their blood flow through the vasa recta rather than the peritubular capillaries

The Nephron

Each nephron is composed of two principle parts – renal corpuscle (which filters the blood plasma) and the renal tubule (which converts filtrate to urine)

Renal corpuscle

Consists of the glomerulus and the two layered Bowman capsule that encloses it.

Outer layer of Bowman's capsule = simple squamous epithelium

Inner layer of Bowman's capsule = consists of podocytes which wrap around the capillaries of the glomerulus

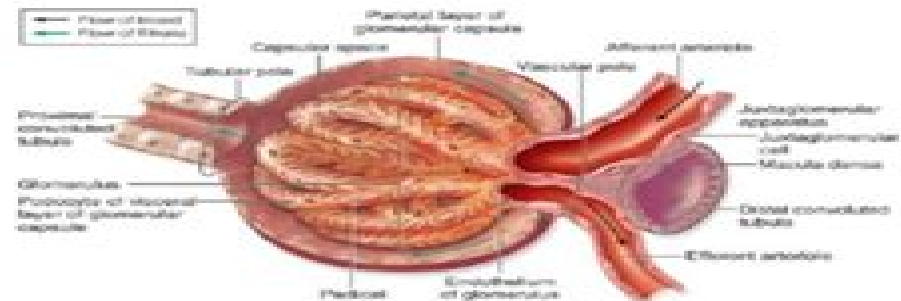
The two layers are separated by the collecting capsular space

Vascular poles of renal corpuscle → afferent arteriole enters

Urinary poles of renal corpuscle → proximal convoluted tubule leaves

Renal tubule

Four Regions:



Renal System Physiology Answers

**Bernadette Madara, Vanessa Pomarico-
Denino**



Renal System Physiology Answers:

The Renal System Ian Peate, 2025-01-09 PEATE S BODY SYSTEMS THE RENAL SYSTEM A CONCISE ILLUSTRATED AND ACCESSIBLE GUIDE TO THE RENAL SYSTEM Each of the twelve volumes in Peate s Body Systems series is rooted in the belief that a deep and thorough understanding of the human body is essential for providing the highest standard of care Offering clear accessible and up to date information on different body systems this series bridges the gap between complex scientific concepts and practical everyday applications in health and care settings This series makes for an invaluable resource for those committed to understanding the intricacies of human biology physiology and the various systems that sustain life The Renal System is the perfect companion for students and newly registered practitioners across nursing and allied health fields with an interest in renal care providing a comprehensive yet easy to digest guide for both academic and clinical application Equips healthcare students and practitioners with the necessary information to provide safe and competent care Features colourful illustrations to aid comprehension clarify complicated concepts and render content more engaging and accessible Empowers readers to adapt to a rapidly evolving healthcare landscape preparing them for the future of healthcare delivery Contains information necessary for effective patient care of those with chronic and acute kidney disease urinary tract infection and other renal diseases and conditions

Examination Questions and Answers in Basic Anatomy and Physiology Martin Caon, 2020-08-03 This third edition provides 2900 multiple choice questions on human anatomy and physiology and some biophysical science separated into 20 chapters and 68 categories In addition there are 64 essay topics The answer to each question is accompanied by an explanation Each chapter has an introduction to set the scene for the questions to come However not all possible information is provided within these Introductions so an Anatomy and Physiology textbook is an indispensable aid to understanding the answers The textbook offers a more holistic approach to the subjects of anatomy and physiology by also including biomechanics biophysics and biochemistry The questions have been used in end of semester examinations for undergraduate anatomy and physiology courses and as such reflect the focus of these particular courses and are pitched at this level to challenge students that are beginning their training in anatomy and physiology The question and answer combinations are intended for use by teachers to select questions for their next examinations and by students when studying for an upcoming test Students enrolled in the courses for which these questions were written include nursing midwifery paramedic physiotherapy occupational therapy nutrition and dietetics health sciences exercise science and students taking an anatomy and physiology course as an elective

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