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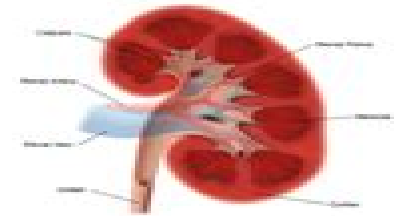
Review of the Renal System

The Basics: blood enters kidney → blood is filtered & waste is removed → filtered blood returns to body → waste is sent to bladder

Functions of the Kidneys

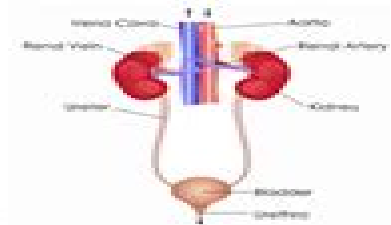
- **Filtration** (waste elimination) – any excess electrolytes, proteins, & solutes not needed in the body
- **Fluid & electrolyte balance** – the filtration process helps to maintain the fluid & electrolyte balance through the use of ADH and aldosterone
- **Acid-base balance** – kidneys regulate hydrogen and bicarb reabsorption and secretion
 - Hydrogen ions excreted through filtration & forms bicarb to buffer & maintain the body's pH
- **Blood pressure regulation** – regulated through the RAAS system through the use of aldosterone, renin, & ADH
- **Erythropoietin production** (for RBC synthesis) –when decreased oxygenation levels in the arteries, anemia, &/or decreased renal perfusion occurs, kidneys secrete erythropoietin to help stimulate synthesis of RBC's
- **Vit D conversion and Ca++ balance** – kidneys synthesize components to make vitamin D to help absorb calcium in the GI tract & prevent calcium from being released from the bones
- **Glucose homeostasis** – kidneys filter & reabsorb glucose, trying to retrieve as much as possible
 - Any excess glucose is secreted in the urine

*kidneys normally do **NOT** filter **blood cells** or **proteins** (important to understand for later)



Anatomy of the Kidneys & Urinary System

- **Nephrons:** functional unit of the kidneys responsible for removing waste & excess substances from the blood (regulation of blood plasma volume & solute concentration)
 - Adjusts volume of water lost in urine
 - Stabilized blood pH by controlling loss of hydrogen ions and bicarb in urine
- **Glomerulus:** a collection of blood capillaries in each nephron that filters blood
 - **GFR** (glomerular filtration rate): amount of fluid filtered from the blood into the glomerular capsule
 - normal rate is **120-125 ml/min**
 - factors that influence GFR: total surface area available for filtration, permeability of the membrane, and net filtration pressure
- **Proximal convoluted tubule (PCT):** reabsorbs chloride, bicarb, glucose, sodium, and water from the glomerular filtrate
- **Loop of Henle:** recovers water and sodium chloride from the urine
 - Descending loop – has thin and permeable membrane to reabsorb water into the bloodstream
 - Ascending loop – thicker and less permeable to water, but absorbs sodium and chloride
 - Urine becomes more concentrated here
- **Distal convoluted tube (DCT) & collecting ducts:** involved w/ secreting solutes into the filtrate rather than reabsorbing substances into it
 - Collecting ducts receive urine and channels it into renal pelvis & into ureter
- **Ureter:** transports urine to bladder (12-18 in long)
 - Pair of muscular tubes
 - Move urine to bladder by peristalsis
- **Urinary bladder:** stores urine (up to 1 liter) temporarily prior to elimination
 - Muscular organ
 - Detrusor muscle expels urine when contracted
- **Urethra:** conducts urine to exterior
 - Micturition reflex – **300-500 ml of urine increases internal bladder pressure** → internal urethral sphincter relaxes & signals need to void
 - External urethral sphincter: acts as a valve, voluntary muscle relaxes permitting micturition
 - Male urethra divided into 3 (prostatic, membranous, and spongy)
 - Female urethra – very short (3-5 cm), extends from bladder to vestibule



Renal System Study Guide

R Bogdan



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