Study Guide – Chapter 23
The Urinary System

I. Know the parts of the urinary system. Kidneys, ureters, urinary bladder, and urethra.

II. Know the functions of the kidneys. They account for 0.4% of body weight but receive 21% of the blood. The kidneys filter the blood and excrete metabolic wastes, toxins, drugs, hormones, salts, and hydrogen ions. They also regulate blood pressure, blood volume, and blood osmolarity by regulating water output. Lastly, they regulate the electrolyte and acid-base balance of body fluids.

III. Know the main nitrogenous wastes and know why we want to eliminate them from the body. Nitrogenous wastes are toxic. About 50% of them is urea (from proteins). Others include uric acid(from nucleic acids) and creatine(from creatine phosphate).

IV. Know the anatomy of the nephron. Know what the parts of the renal tubule are. Functional unit of filtration. 1.2 mil in each kidney. Consists of a renal corpuscle and a long, coiled renal tubule. The renal Corpuscle includes the glomerulus and glomerular (Bowman's capsule), which encircles the glomerulus. PCT->Loop of Henle->DCT

V. Formation of Urine

A. Know the four steps of urine formation. Glomerular filtration, tubular reabsorption, tubular secretion, and water conservation.

B. Know how the names for the fluid changes as it moves through the nephron. Fluid in the capsular space is called glomerular filtrate (similar to blood plasma but with no protein), the fluid in the rest of the tubule is called tubular fluid, and the fluid from the collecting duct onward can be called urine.

C. Know what glomerular filtration is and know what drives the filtration. It creates a plasma-like filtrate of the blood. Filtration is driven by the high pressure in the glomerular capillaries (afferent arteriole is larger than efferent arteriole). Makes kidneys vulnerable to hypertension.

D. Know what GFR is and know that it is not always constant. Know the one example of regulation of glomerular filtration that was provided. GFR is the glomerular filtration rate, the amount of filtrate formed per min by both kidneys. Males' GFR is about 125ml/min and females' is about 105ml/min. 99% of this is reabsorbed. Regulation of GFR comes through the regulation of glomerular blood pressure. An example of not being constant is norepinephrine from sympathetic neurons and epinephrine from the adrenal medulla (both released in fight or flight situations) causing constriction to the afferent arterioles. That would lead to a decrease in glomerular filtration because less blood is coming through the afferent arterioles.

E. Tubular Reabsorption – Know what this is. The process of reclaiming water and other filtrates from the tubular fluid and returning them to the blood. About 99% of the filtered materials are reabsorbed. 65% of the glomerular filtrate is reabsorbed by the PCT, further reabsorption occurs in the loop of Henle, the DCT, and the collecting duct.

F. Tubular Secretion – Know what this is. The renal tubule extracts materials from the peritubular capillaries and secretes them into tubular fluid. This includes movement of nitrogenous wastes, drugs, and other contaminants.

G. Know how certain hormones affect reabsorption and/or secretion. Aldosterone- released when Na concentration in the blood decreases or when blood pressure is decreased.

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Raymond A. Serway

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