

3.02 Urinary System Functions Note Guide

Name _____

Date _____

Directions: List and describe each urinary system function while reviewing the 3.02 PowerPoint Presentation.

A. Functions of the Urinary System:

1. Elimination of waste products.
2. Maintenance of blood.
3. Maintaining Water/ Electrolyte Balance
4. Maintaining Acid (Base Balance in Blood)

B. Formation of Urine:

Filtration: Beginning step of the urine formation; Occurs at the glomerulus, nonselective passive process. Filtrate is collected in the glomerular (Bowman's capsule) and leaves via the renal tubule.

Reabsorption: The composition of urine is different from the composition of glomerular filtrate. Most reabsorption occurs in the proximal convoluted tubule, where microvilli cells act as transporters to the peritubular capillary blood.

Secretion: The composition of urine is different from the composition of glomerular filtrate. Most reabsorption occurs in the proximal convoluted tubule, where microvilli cells act as transporters to the peritubular capillary blood.

C. Fluid and Electrolyte Balance:

Regulation is primarily by hormones. Antidiuretic hormone (ADH) prevents excessive water loss in urine. Aldosterone regulates sodium ion content of extracellular fluid. Cells in the kidneys and hypothalamus are active monitors

D. Elimination of Urine:

Average urinary output: 50-60ml per hour normal, less than 30ml per hour may indicate kidney failure

Urinalysis: Colored somewhat yellow due to the pigment urochrome and solutes, sterile, slightly aromatic, normal pH around 6, specific gravity of 1.001 to 1.035

Urinary System Functions And Disorders Study Guide

Michael Hoelscher



Urinary System Functions And Disorders Study Guide:

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