

Day 22 – 5/5/14

Student Learning Objectives

By the end of this class you will be expected to understand:

- The major functions of the urinary system
- The major parts of the nephron and the function of each
- The purpose of reabsorption and what materials are always or sometimes reabsorbed
- The major components of urine and how this reflects the state of the body
- How major defects of the urinary system put the body at risk

Support videos:

- Urinary System
 - <http://www.youtube.com/watch?v=WtrYotjYvtU>
 - <http://www.youtube.com/watch?v=zEpUQkQ-uKM>

Assigned reading:

- Chapter 15: p356-367

Vocabulary:

- Urinary system (*Renal/Excretory system*)
- Kidney
 - Filtrate
 - Cortex
 - Medulla
- Bladder
 - Urine
 - Urethra
- Nephron
 - Glomerulus
 - Glomerular capsule
 - Glomerular filtration
 - Tubule
 - Tubular reabsorption
 - Tubular secretion
 - Loop of Henle
 - Collecting duct
- Renal circulation
 - Afferent arteriole
 - Efferent arteriole
 - Peritubular capillary
 - Vasa recta
- Kidney stone
- Urinary Tract Infection (UTI)
- Dialysis
- Urinary Drug Test