

Exercise 41 Anatomy of the Urinary System Eighth Edition

Objectives: 1-9

Gross Anatomy of the Human Urinary System

- know figure 40.1 a, & b, Urinary System Organs
- know figure 40.2, Urinary Bladder and Sphincters
- locate these structures on the human torso

Gross Anatomy of the Pig or Sheep Kidney

- omit dissection but read for comprehension
- cortex, medulla, renal pyramid and columns, pelvis, major/minor calyces, ureter
- know figure 40.3 (pay close attention to the branching patterns of the arteries and veins in the kidney)
- locate these structures on the kidney models

Microscopic Anatomy of the Kidney and Bladder

- know figure 40.4 (well!), Nephron Structure
- be able to identify structure and function of the nephron (How does it work? What is the flow of blood? – hint...use figure 40.5)
- full reading comprehension of this section
- know figure 40.6a, Kidney Histology (be able to identify all of these structures on a slide)
- be able to list the function of individual regions of the nephron

Dissection of the Cat Urinary System

- Dissection Exercise 8
- Follow the procedure in the lab manual for the proper sex of your cat. If you have a male, be very careful not to damage any of the reproductive organs. You might want to read ahead to the reproduction dissection (Dissection Exercise 9).
- Know what to look for BEFORE you cut.

[Kidney Blood Supply](#)