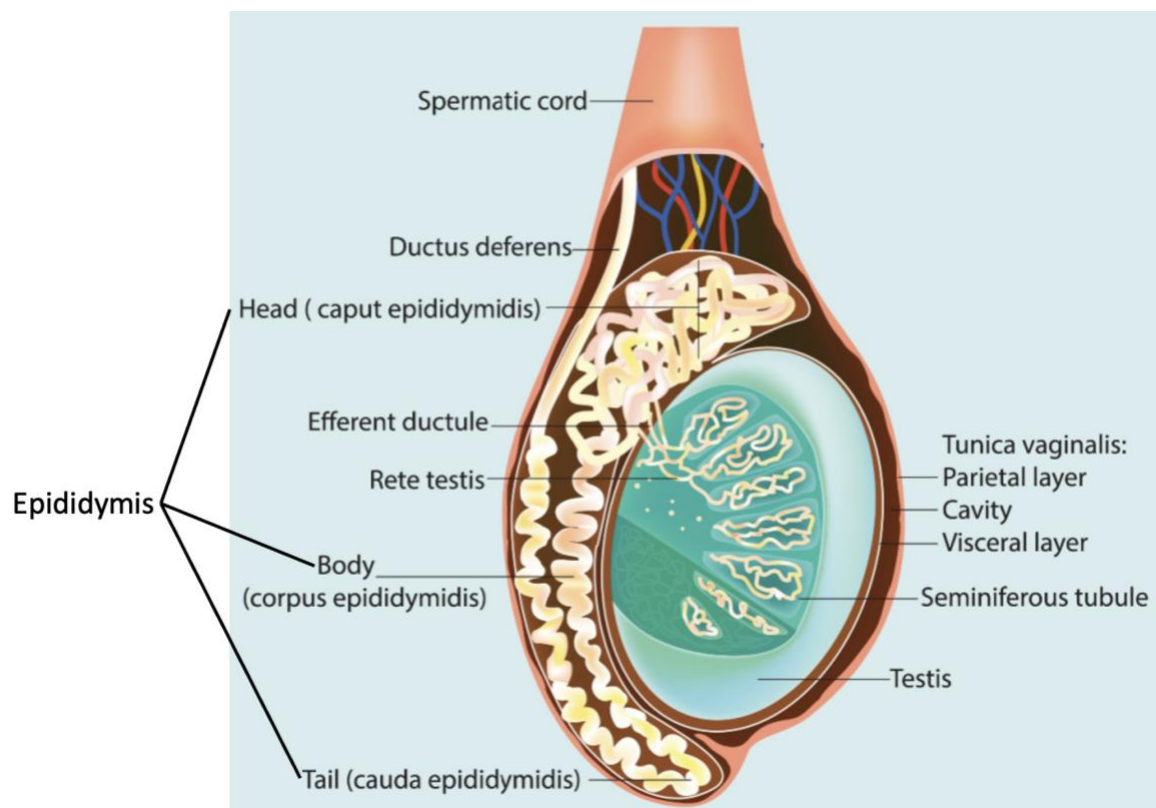
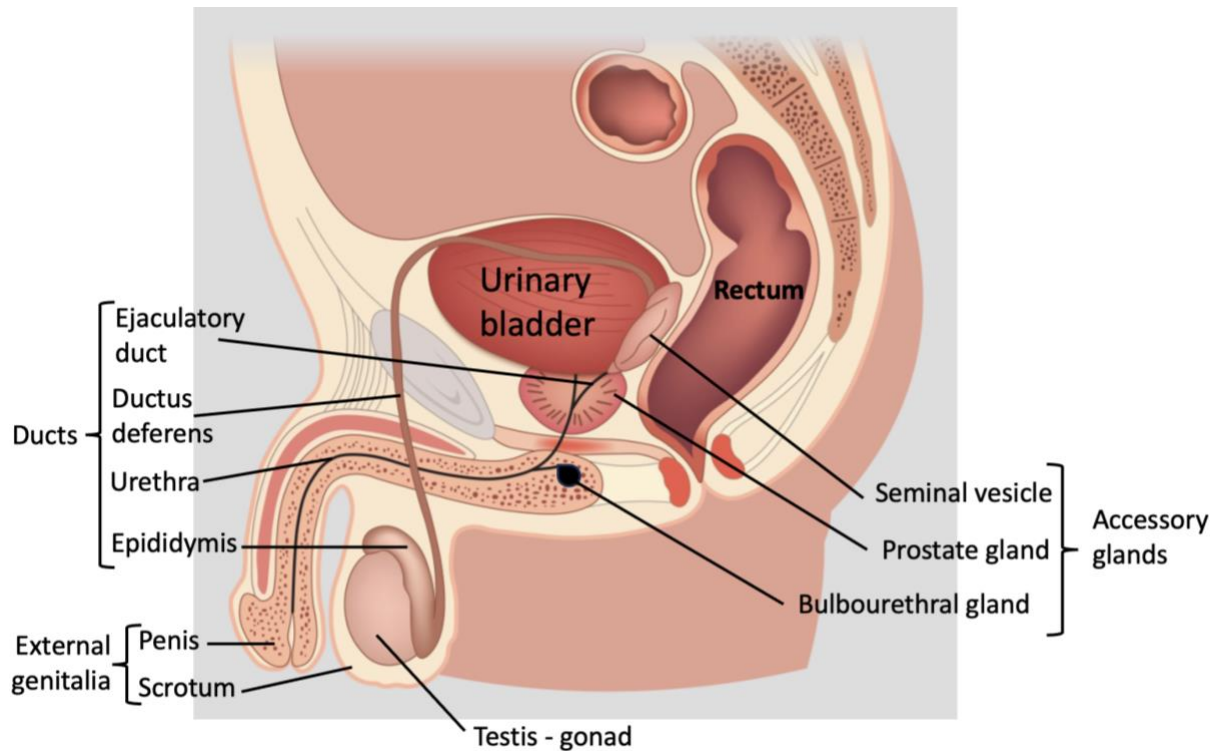


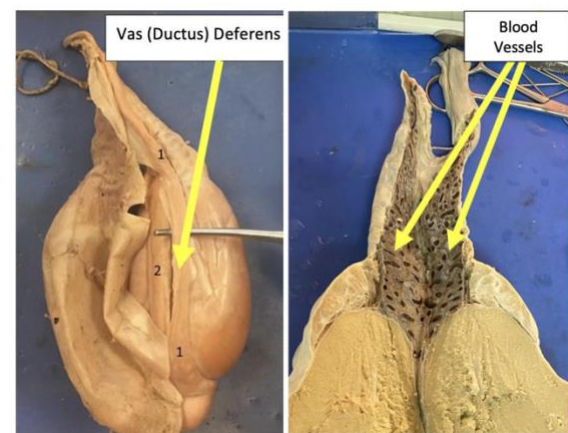
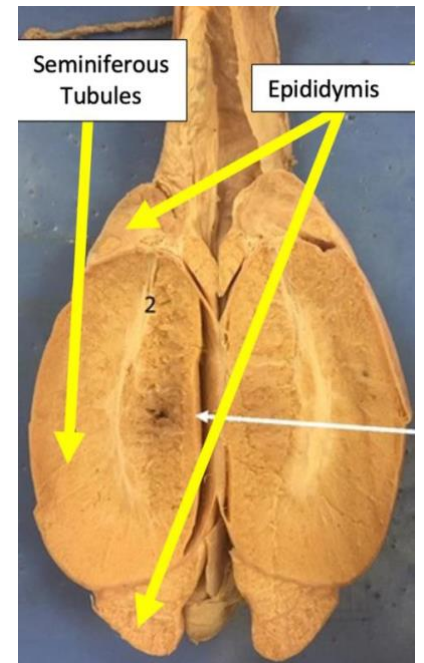
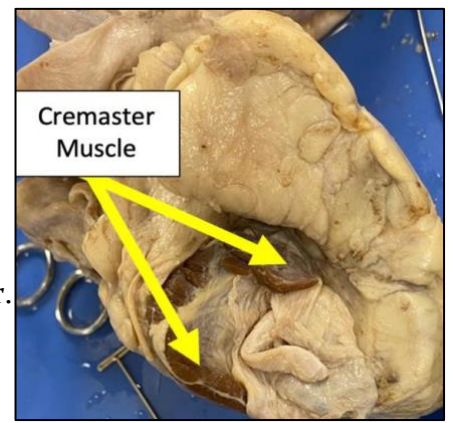
Objectives

1. Identify male reproductive system structures and functions while performing dissection of bull testicle.

Anatomy of the Male Reproductive System

Activity 1: Bull Testicle Dissection

- A. Obtain a pair of gloves.
- B. **Obtain a testis.** Hold the testis by the **spermatic cord** and identify the anterior, posterior, medial, and lateral sides. Try to identify the **cremaster muscle**, which will be found on the superior aspect of the spermatic cord and is a brownish/red color.
- C. **Note the connective tissue tunica covering the testis.** The testes are covered by two different connective tissue layers. Most bull testicles come covered in an outer tunica called the tunica vaginalis. If present, remove this connective tissue layer with a scissor.
- D. **Make a coronal cut along the testis.** This cut separates anterior from posterior. Be careful not to cut the vas (ductus) deferens which is located posteriorly to the testis.
- E. **Observe the testicle.** Sperm is produced within the microscopic, coiled tubules called the **seminiferous tubules**. These seminiferous tubules interconnect with each other forming the rete testis within the mediastinum. The rete testis connects to the efferent ductules, which will lead sperm towards the epididymis. The **epididymis** is the long-coiled duct outside the testis in which sperm mature. **Locate the approximate locations of the seminiferous tubules as well as the epididymis.**
- F. **Observe the superior end of the spermatic cord.** The spermatic cord consists of the vas (ductus) deferens, cremaster muscle, blood vessels (deferential artery, testicular artery, pampiniform plexus of the testicular vein), lymphatic vessels and autonomic nerves. **Looking at the bull testicle, identify the cremaster muscle, vas (ductus) deferens, and associated blood vessels.**
- G. Dispose the bull testicle when finished into the biohazard bin. Clean the dissection instruments & your table thoroughly.



Questions:

- a) List the flow of sperm starting from where it is produced.
- b) How would damage to the dartos & cremaster muscles affect sperm count?