KEY Male Reproductive Anatomy Pt. 2

- What are the functions of the Epididymis?
 Transport sperm from the Caput to the Cauda Sperm Concentration
 Maturation of Sperm
 Storage of Sperm
 - Can be stored for several weeks
- 2. What happens to unejaculated sperm?
 - Reabsorbed by the excurrent duct system
 - Sperm is lost in urine
 - Masturbation
- 3. Where are sperm produced in the testes? Seminiferous Tubules
- 4. Parts of the Spermatic Cord

Ductus Deferens (Vas Defererns)	Connects the cauda epididymis to the ampulla; transports sperm
Cremaster Muscle	Striated muscle supporting the testis
Pampiniform Plexus	Testicular vein that intertwines around the testicular artery, allows for countercurrent heat exchange

- 5. What are the functions of the Vas deferens and Ampulla for the transport of sperm? Low Level steady-state contractions of Vas Deferens
 - Occurs in a non-excited state

Increased contractions caused by sexual excitement

- Stimulated by nerves during sexual arousal
- 6. What happens to sperm stored in the Ampulla? Age Rapidly
 - Increased temperature
 - Poor environment for sperm
 - No secretions → increased metabolic activity

7. What are the functions of Seminal Plasma?

Transport Media

- Gives fluid volume to sperm, helps sperm move through urethra

Culture Media

- Proper environment for sperm viability and motility in the female reproductive tract (defense against the female's hostile vagina)

Stimulates sperm motility

- Activates metabolic activity in sperm that was reduced in the cauda epididymis

Retards Sperm Capacitation

- Prevents immediate fertilization of the oocyte by the sperm (do not want sperm to activate until it reaches site of fertilization (Al junction))

Stimulates sperm transport in female

- Oxytocin and PGF2a are in seminal plasma → involved in muscle contractions
- 8. What are the major and minor sources of Seminal Plasma?

Major Sources

Accessory Sex Glands

- Seminal Vesicles
- Prostate
- Cowper's (Bulbourethral) Gland

Minor Sources

- Testis
- Epididymis
- Vas Deferens
- Ampulla
- 9. What are the different species characteristics when it comes to their reproductive anatomy?

Ram - No body of the Prostate (only has disseminate prostate)

Boar - No Ampullae, Large Cowper's Gland

Stallion - No disseminate Prostate

10. What are the 3 main sections of the penis?

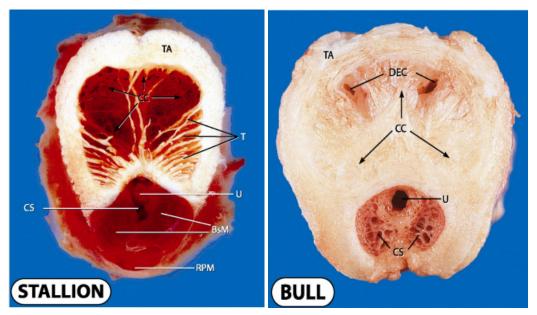
Base - attachment at the ischial arch

Shaft - main portion of the penis

Glans penis - Heavily populated with sensory nerves

- 11. What 2 parts form the penis?
 - Corpus Cavernosum (blood filled spaces lined by endothelium surrounded by smooth muscle)

• Corpus Spongiosum (spongy erectile tissue surrounding penile urethra)



CS: corpus spongiosum CC: corpus cavernosum TA: tunica albuginea

- 12. What are the two types of penis and what species have them?
 - Fibroelastic = bulls, boars, and rams (sigmoid flexure)
 - Musculovascular = stallion and human
- 13. Muscles associated with the Penis

Bulbocavernosus (bulbospongiosus)	A single muscle that functions to empty the extra-pelvic part of the urethra
Ischiocavernosus	Paired muscles that compresses and stop the return of blood through veins
Retractor Penis	Paired muscles that maintain the sigmoid flexure in a fibroelastic penis

- 14. What are the steps of Spermatozoa Transport?
 - 1. Seminiferous Tubules
 - 2. Rete Tubules
 - 3. Mediastinum
 - 4. Efferent Duct
 - 5. Caput Epididymis (Proximal -> Distal)
 - 6. Corpus Epididymis
 - 7. Cauda Epididymis
 - 8. Vas Deferens
 - 9. Ampulla (except Boar)
 - 10. Colliculus Seminalis
 - 11. Urethra

