

Lab 10: Reproductive System

Become familiar with the structures of the male and female reproductive systems using the models, slides & human cadavers (Exercises 42 & 43).

Male:

Use the models, human cadavers & diagrams 42.1, 42.2 & 42.3 to identify structures of the male reproductive system.

Know the structure and function of the following:

Scrotum	Testis	Epididymis
Vas Deferens	Bulbourethral Gland	Prostate
Seminal Vesicle	Urogenital Diaphragm	Glans Penis
Prepuce or Foreskin	Seminiferous Tubules	Spermatic Cord
Corpus Cavernosum	Corpus Spongiosum	Ejaculatory Duct
Urethra (Prostatic, Membranous & Spongy)		

Slides: Be able to differentiate seminiferous tubules of the testis, epididymis and seminal vesicle from one another. Look at sperm maturity and lining. See figure 42.4 & 43.3.

Female:

Use the models, human cadavers & figures 42.6 & 42.7 to identify structures of the female reproductive system.

Know the structure and function of the following:

Labia Majora	Labia Minora	Hymen
Clitoris	Uterus	Ovary
Fimbriae	Uterine (Fallopian) Tubes	Cervix
Urogenital Diaphragm	Vagina	
Uterine Wall (Endometrium, Myometrium, Perimetrium or Serosa)		
Fornix (Anterior, Posterior, Lateral)		

Use the slides to identify the microscopic anatomy of: ovary, oviduct, uterus – second and third week of menstrual cycle. See figures 42.8, 42.9, 43.6 & 43.7.

Identifying fetal structures:

Look at the series of models showing human fetal development and growth. Identify the uterus with its cervix, the ovaries and structures of the oviduct (uterine tube), the umbilical cord, and the placenta. Exercise 44 is not necessary, but may help.

Which erectile body surrounds the urethra? _____

What is the collective function of the male accessory glands? _____

What is the function of the epididymis? _____

Which structures are part of the spermatic cord? _____

The female clitoris is the same as (homologous to) the male _____ .

Which layer of the uterus changes during the menstrual cycle? _____

What is the name of the mature follicle about to ovulate? _____

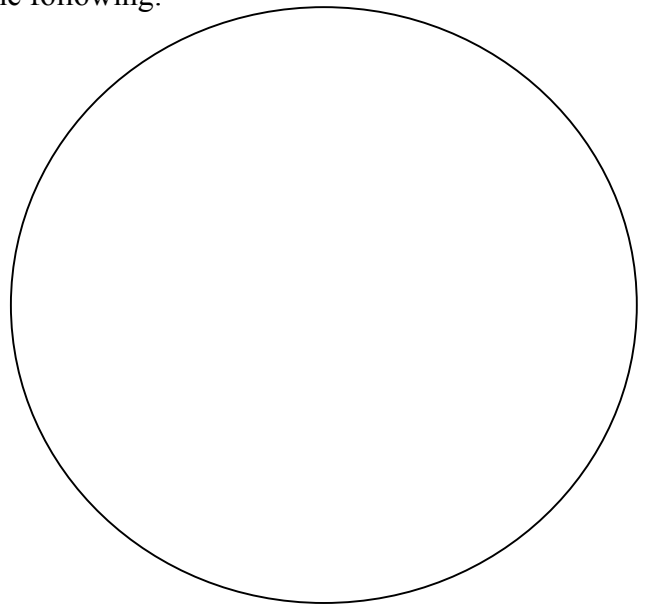
What is the function of the placenta? _____

Slide Assignment: Reproductive Anatomy

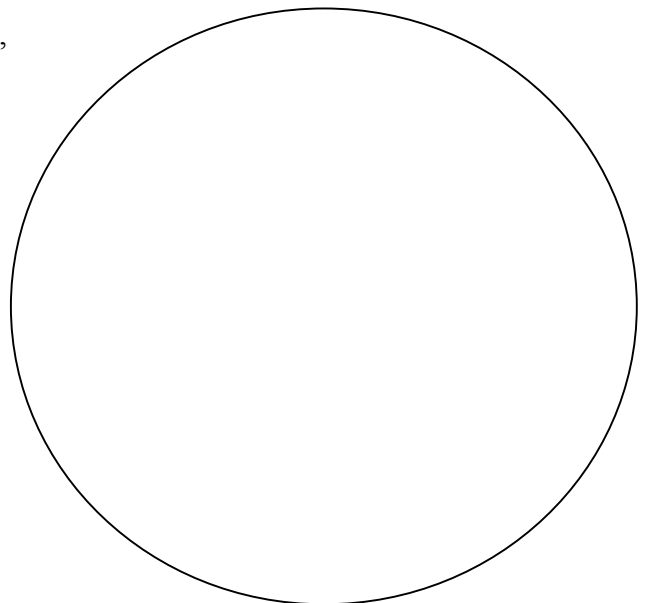
(Exercise 42 & 43 in Lab Text, Chapter 20 & 21 in Histology Text)

Draw the following slides using the figures in the lab and histology texts as a reference. Use whichever magnification works best to show all given structures. Please note that not every slide will show everything; you will need to look at multiple slides and/or sources. Your drawings should artistically combine views to include all structures.

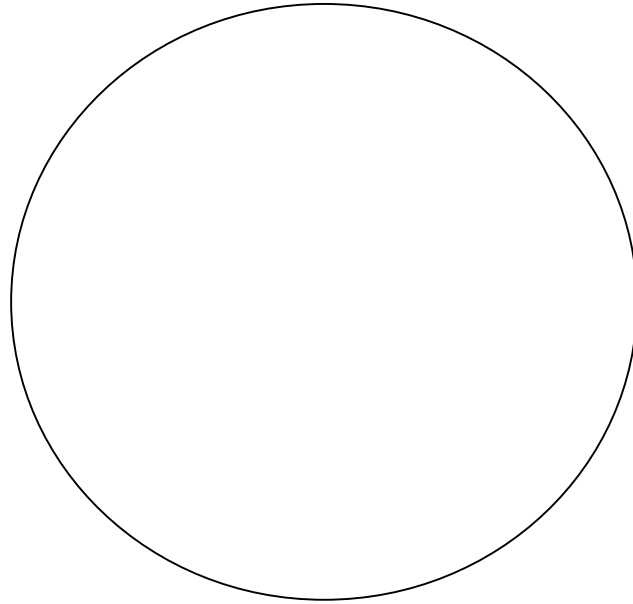
- **Penis** – label and understand function of the following:
 - Corpus Caverosae
 - Corpus Spongiosum
 - Urethra (lumen), and Deep Arteries



- **Testis** – label and understand function of the following:
 - Seminiferous Tubules
 - Spermatogonia, Primary Spermatocytes, Spermatids, & Immature Sperm



- **Ovary** – label and understand function of the following:
 - Primary Follicle, Secondary Follicle, Mature (Graafian) Follicle, and associated Antrum
 - Oocytes
 - Corpus Luteum



- **Uterus** – label and understand function of the following:
 - Three layers: Endometrium, Myometrium, & Perimetrium (Serosa)
 - Basal & Functional layer of the Endometrium

