

**Lab 10: Reproductive System**

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

**Male:**

Use the models and diagrams 41.1, 42.2 & 42.3 to identify structures of the male reproductive system.

Know the structure and function of the following:

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

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 43.2) Know & identify all associated structures given for drawings.

**Female:**

Use the models and diagrams 42.5, 42.6 to identify structures of the female reproductive system.

Know the structure and function of the following:

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

Use the slides to identify the microscopic anatomy of: ovary, oviduct, uterus – second and third week of menstrual cycle. See diagrams 42.7, 43.5 & 43.6.

Know & identify all associated structures given for drawings.

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.

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? \_\_\_\_\_

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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? \_\_\_\_\_

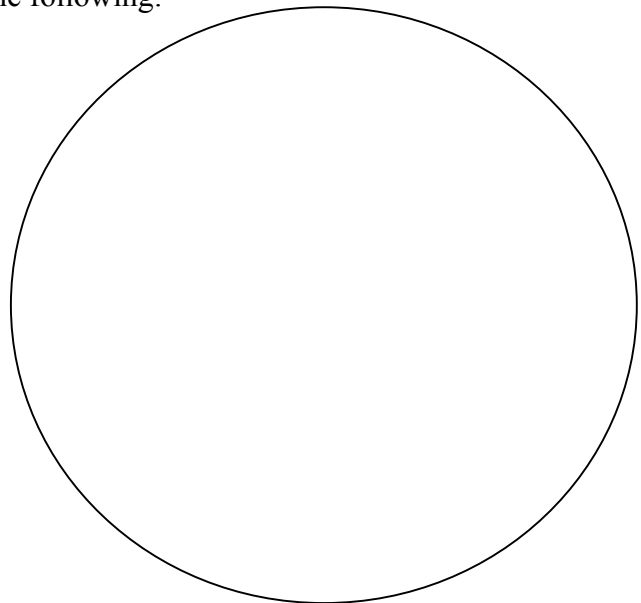
**Slide Assignment: Reproductive Anatomy**

(Beginning on p629 in Lab Text, beginning on p477 (male) & p505 (female) in Histology Text)

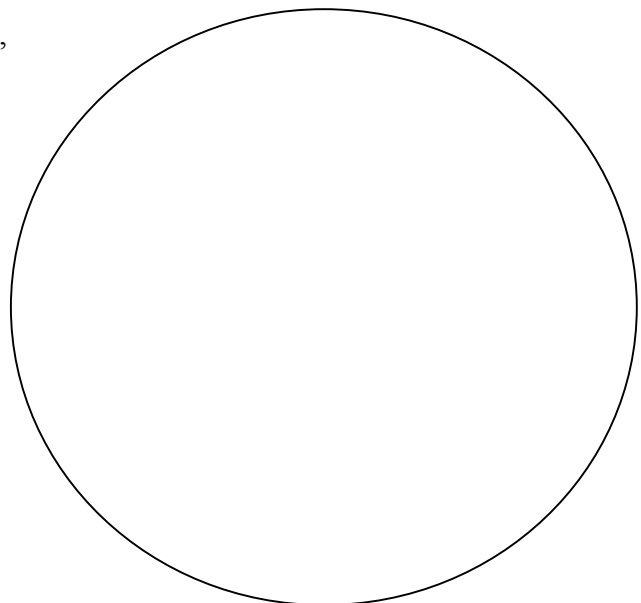
Draw the following slides using the figures in the lab and histology texts as a reference.

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.

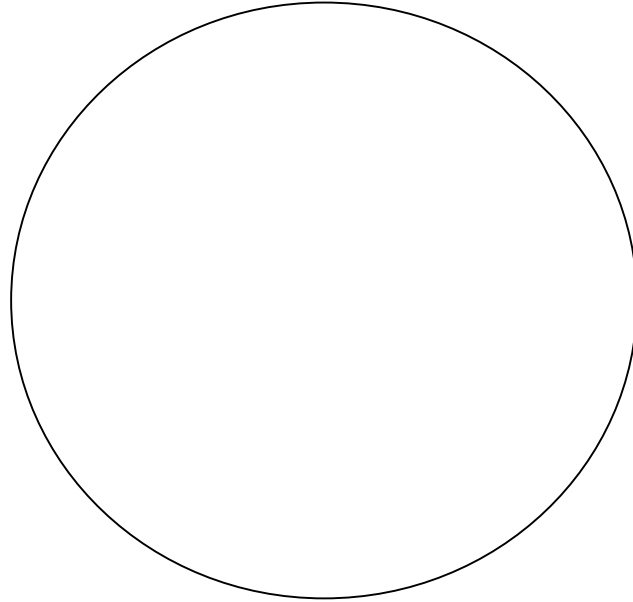
- **Penis** – label and understand function of the following:
  - Corpus Cavernosae
  - Corpus Spongiosum
  - Urethra (lumen), and Deep Arteries



- **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, Vesicular (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

