

LAB 11

MALE / FEMALE REPRODUCTIVE SYSTEM & ENDOCRINE SYSTEM I

Assignments:

Due before lab:

Label diagrams of the male and female pelvis (pgs. 104 – 105) and be prepared for a **quiz**.

Due next lab:

Quiz: Complete Endocrine chart on pgs. 112 – 114.

Complete the case studies on page 115-118.

Objectives:

Identify designated slides of the male and female reproductive system and indicated structures

Identify the organs of the male and female reproductive system in the fetal pig

Identify structures on male and female human models

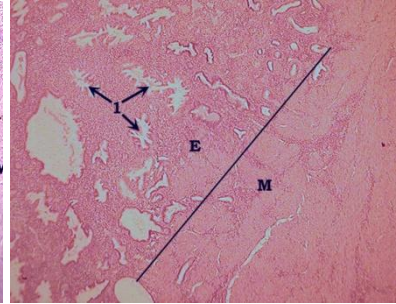
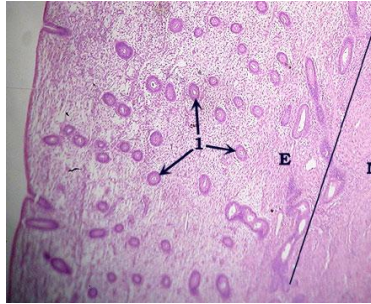
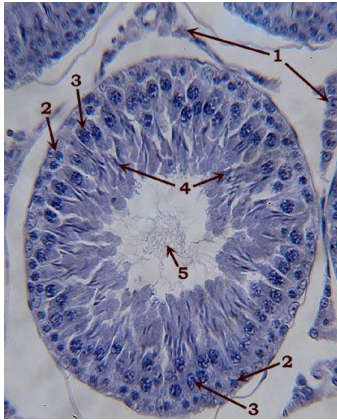
Identify designated slides of the Endocrine System and related structures and know what hormones are produced by these organs

Identify endocrine organs on a human model. Know the hormones and disorders associated with these organs

Identify endocrine organs in a fetal pig

Male/Female Histology

A. Slides



MALE

1. Testes

Identify: seminiferous tubules
 Spermatogonia (2)
 Spermatocytes (3)
 Spermatids (4) Sperm (5)
 interstitial cells - Leydig cells (1)

FEMALE

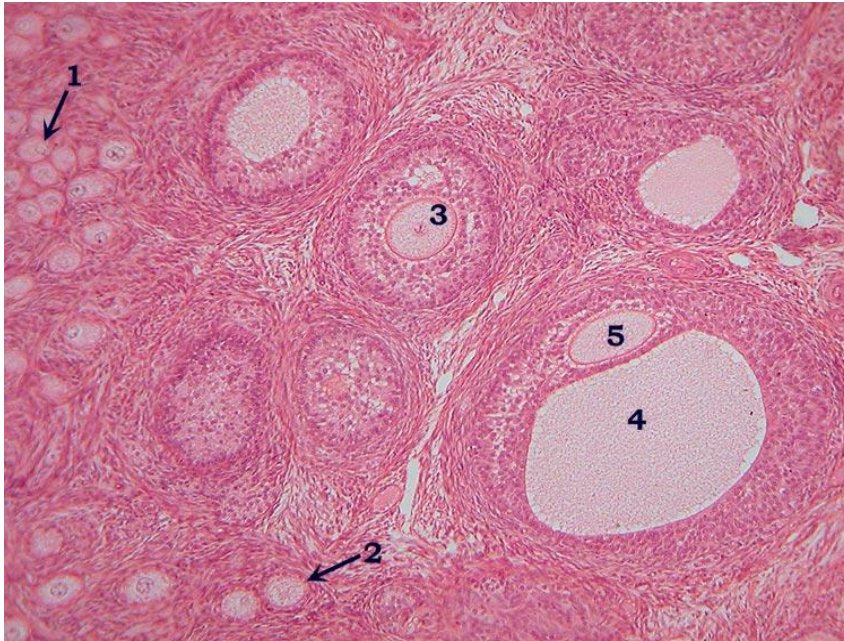
2. Uterus - proliferative phase

Identify: endometrium
 myometrium

3. Uterus - secretory phase

Identify: endometrium
 myometrium

4. Uterus - menstrual phase



5. Ovary (Graafian)

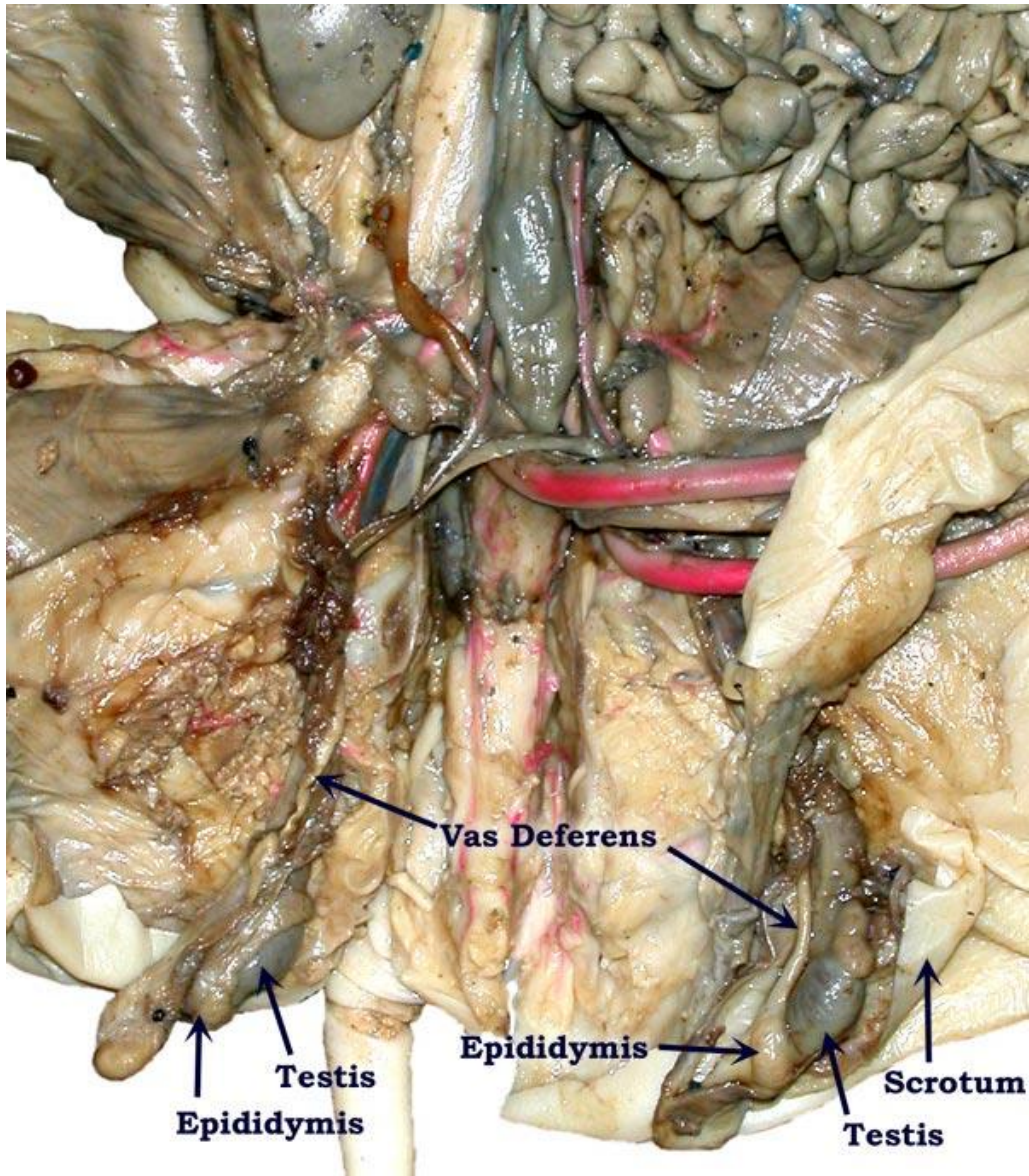
Identify:

- primordial follicle
- primary follicle
- secondary follicle
- Graafian follicle

B. Fetal Pig Anatomy

MALE

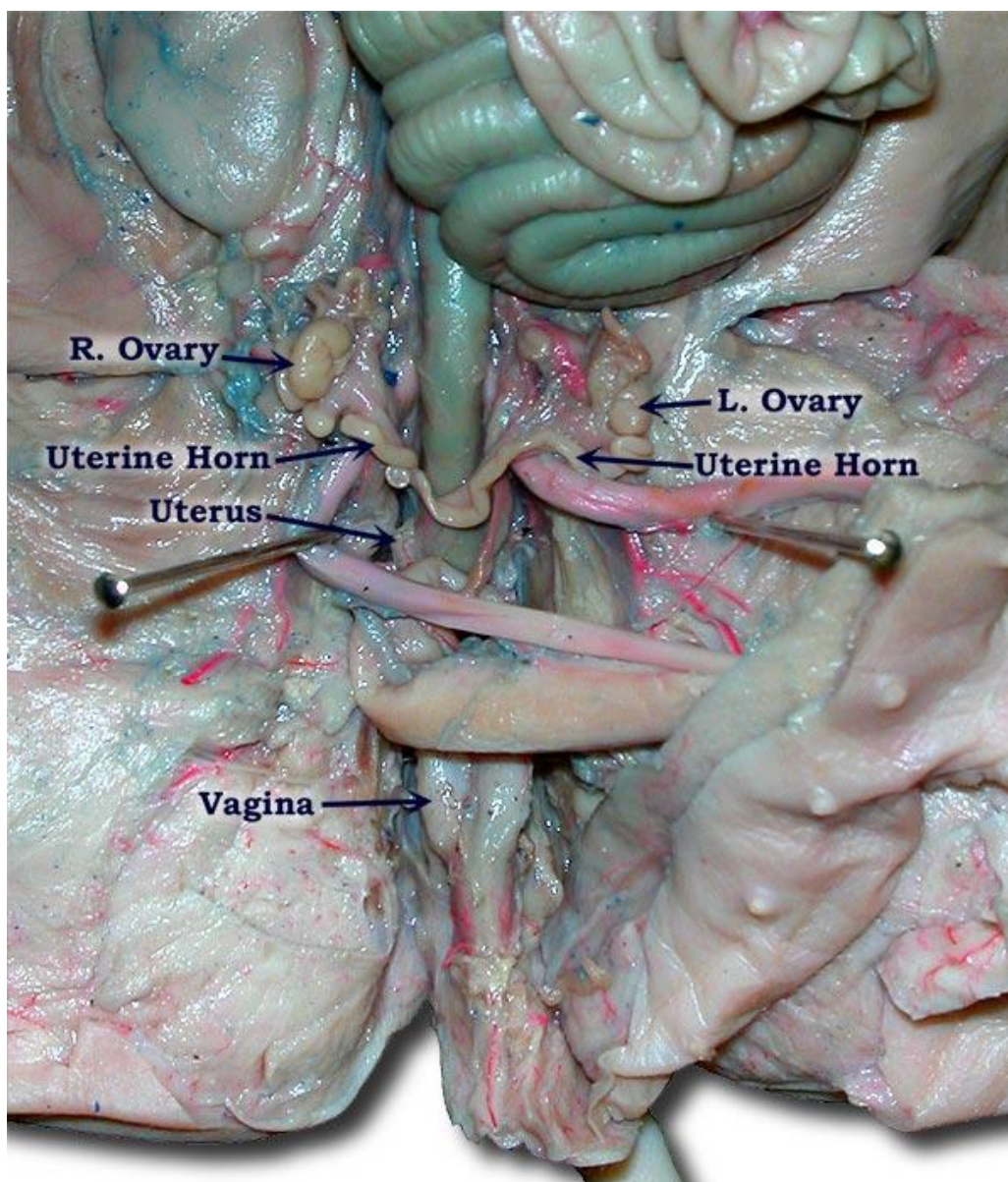
- right vas deferens
- left vas deferens
- right epididymis
- left epididymis
- right testis
- left testis
- scrotum



B. Fetal Pig Anatomy

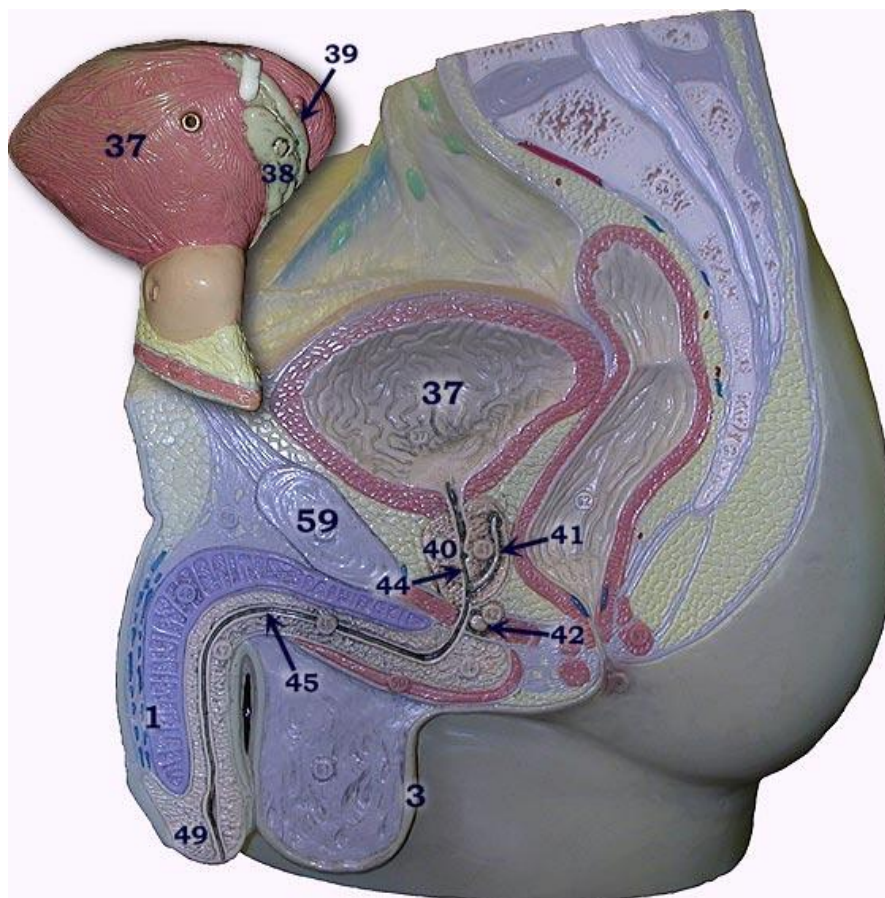
FEMALE

right ovary
left ovary
uterine horns
uterus
vagina



C. Human Male Pelvis Model

Old model		new model
1.	Penis	11
3.	Scrotum	
32.	Ductus deferens or Vas deferens	8
37.	Urinary bladder	4
38.	Seminal vesicle	7
39.	Ampulla of vas deferens	
40.	Prostate	5
41.	Ejaculatory duct	
42.	Bulbourethral gland	
44.	Prostatic urethra	
45.	Spongy or penile urethra	
49.	Glans penis	12
52.	Testis	15
53.	Epididymis	16
59.	Pubic symphysis	1



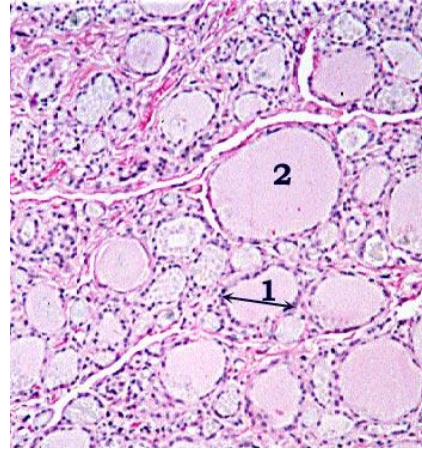
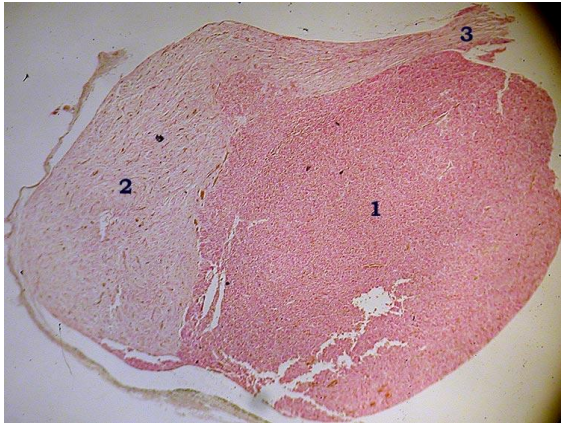
D. Human Female Pelvis Model

Old model		new model
1.	Mons pubis	
3.	Labium majus (labia majora)	4
4.	Labium minus (labia minora)	5
20.	Uterine tube	14
21.	Ovary	15
22.	Uterus	11
23.	Cervix	12
29.	Vagina	10
31.	Urethra	7
32.	Urinary bladder	8
36.	Pubic symphysis	1
37.	Clitoris	4



Endocrine Histology

A. SLIDES – Know what hormones are produced in each organ. Know disorders associated with each organ.

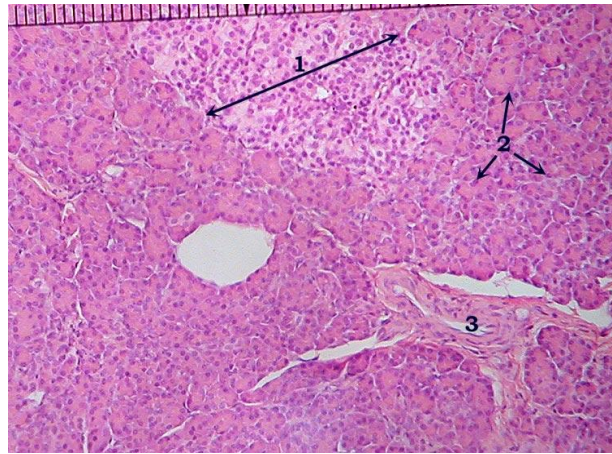
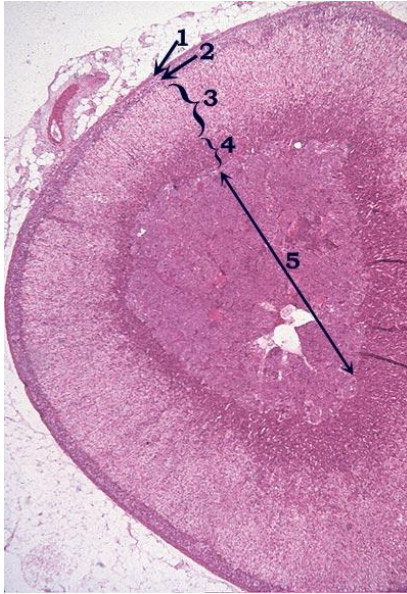


1. Pituitary

Identify: anterior pituitary lobe (1)
posterior pituitary lobe (2)

2. Thyroid Gland

Identify: thyroid follicles
colloid
cuboidal epithelium
parafollicular or C-cells



3. Adrenal Gland

- Identify:
- capsule (1)
 - adrenal cortex (2 -4)
 - zona glomerulosa (2)
 - zona fasciculata (3)
 - zona reticularis (4)
 - adrenal medulla (5)

4. Pancreas

- Identify:
- islets of Langerhans (1)
 - acini cells (2)

Web Sites:

<http://biomed.brown.edu> (Go to: Biology, Courses,
(BI/0189 (Human Histology)
www.kumc.edu/instruction/medicine/anatomy/histoweb/index.htm)

B. Fetal Pig Anatomy

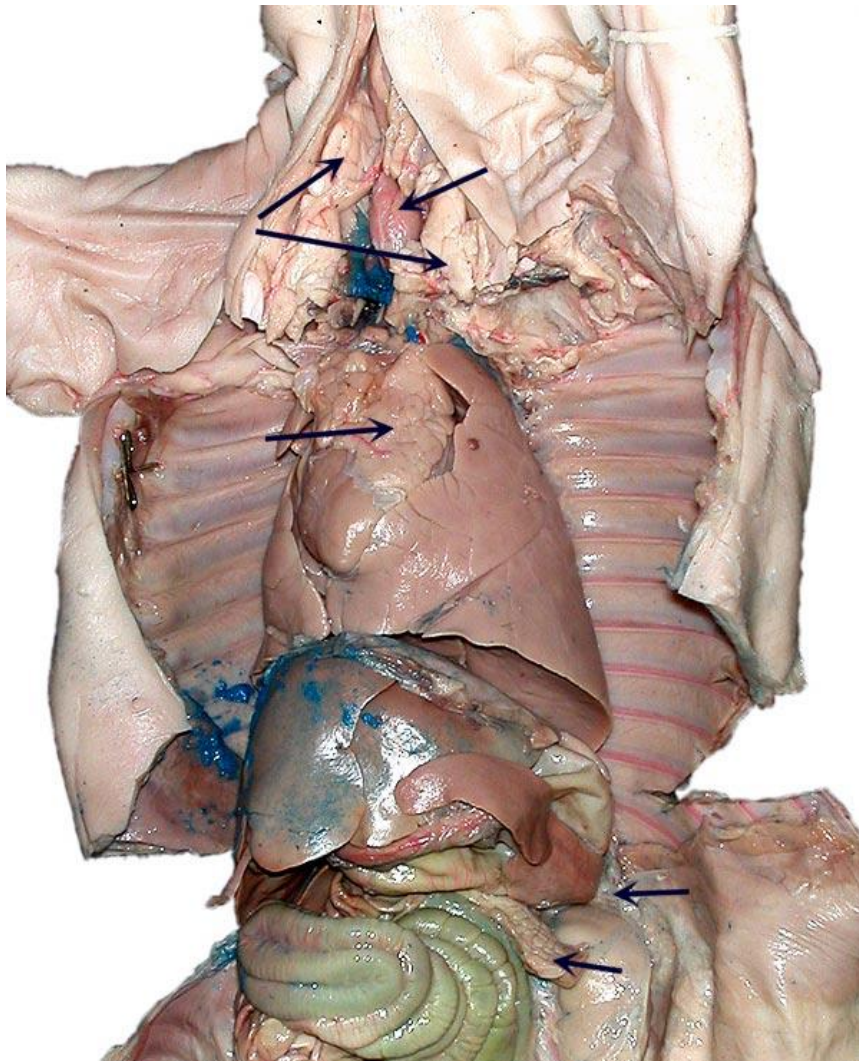
thyroid gland

cervical thymus gland

thoracic thymus gland

(pancreas)

(adrenal glands) (probably not on fetal pig)



C. Endocrine System Model Key

**** Know what hormones are produced by each organ.

**** Know what disorders are associated with each hyper(or hypo) secretion from each.

1. Pituitary gland (Hypophysis)
2. Anterior pituitary (adenohypophysis)
3. Posterior pituitary (neurohypophysis)
4. Infundibulum
5. Thyroid gland
6. Lateral lobe of thyroid
7. Isthmus of thyroid
8. Parathyroid gland
9. Adrenal gland
10. Capsule of adrenal gland
11. Cortex of adrenal gland
12. Medulla of adrenal gland
13. Islets of Langerhans (in pancreas)
16. Testes / testicle
18. Epididymis
20. Ovary
33. Fallopian tubes (oviducts)

New Endocrine Model (not pictured)

1. Pituitary (know which is anterior and which is posterior)
2. Thyroid
3. Adrenal Glands
4. Testes
5. Pancreas
6. Parathyroid Glands
7. Ovary

