Functional anatomy (for pathobiology graduate students)

Female Genital System



Ie-Ming Shih, MD, PhD e-mail: ishih@jhmi.edu

The organs:

Ovaries

Ovaires
Fallopian tubes
Uterus (corpus + cervix)
Lower genital tract (vagina and vulva)
Placenta

The functions:

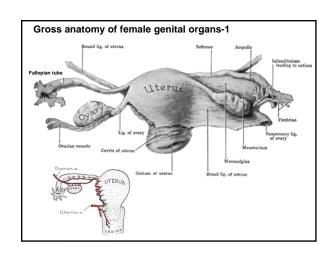
Conception Delivery of the baby Synthesis of estrogen and progesterone (hormonal organ)

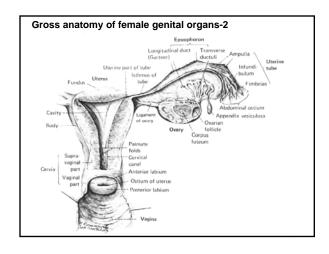
How to:

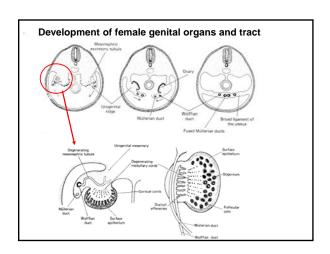
Ovaries provide the oocyte(s) and ovulate
Fertilization in the fallopian tubes and transportation to uterine cavity
Implantation and placental formation in the uterus
Ovaries and placenta function as hormonal organs to maintain the

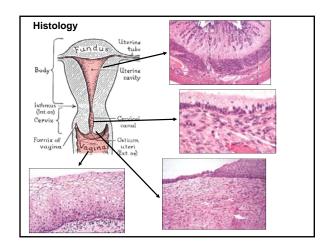
pregnancy Induction of labor and delivery through <u>vagina</u>

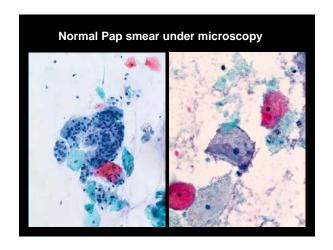
Review of anatomy

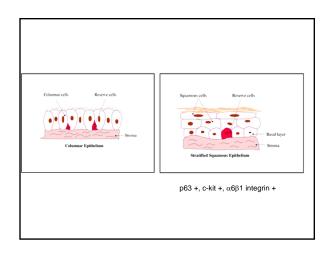


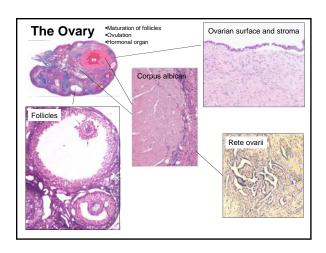


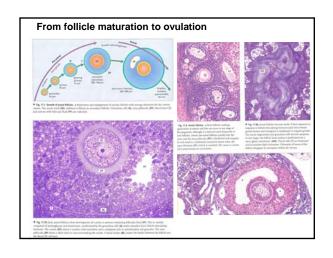


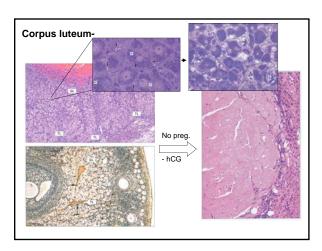


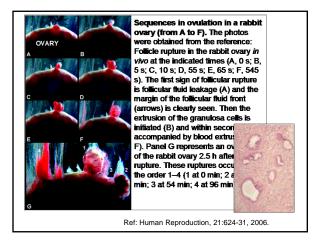


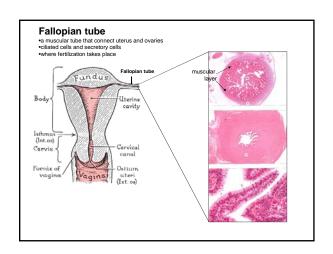


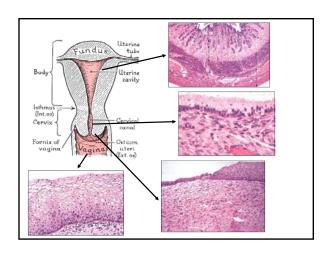


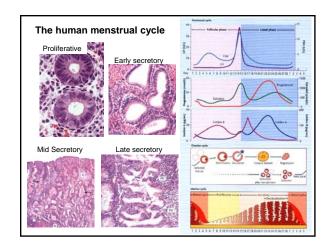


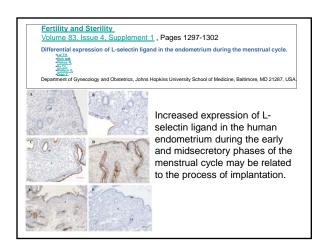


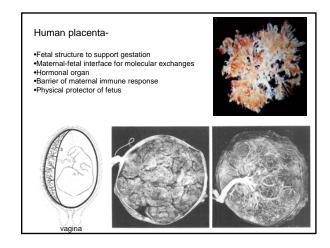


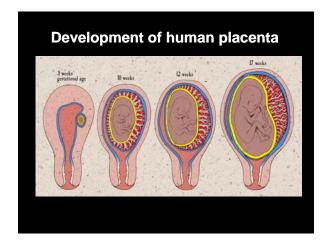


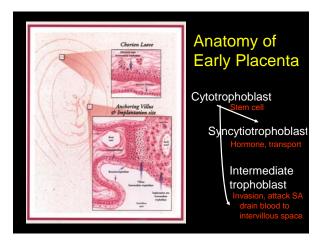


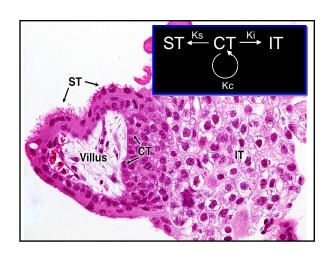


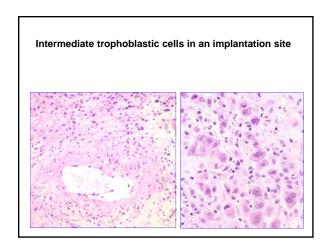


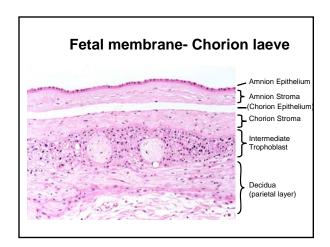


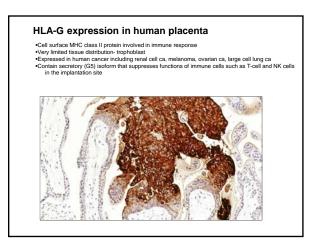


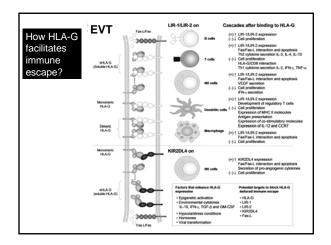


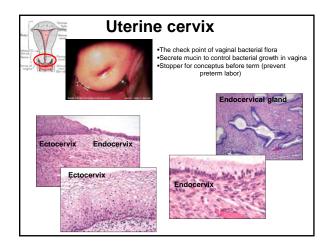


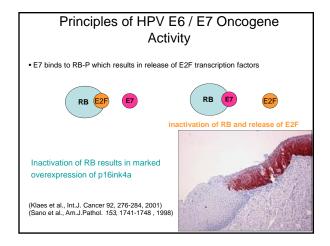


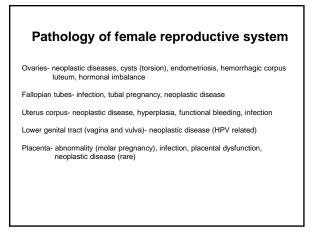


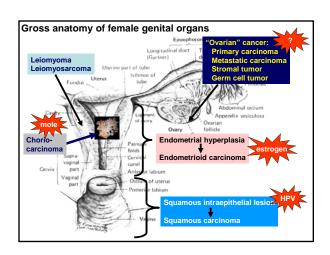


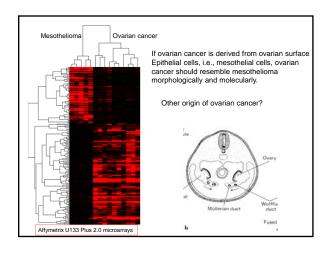




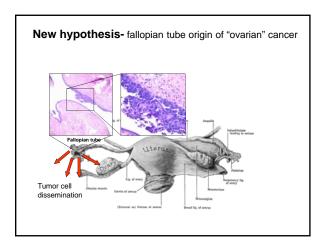








The fact Bristow et al. J Am Coll Surg 2003; 197: 565.



Review question set

- ... Which of the following cell type does NOT produce hormone(s):
 A. Theca cells.
 B. Corpus futual cells.
 C. Syncyfiotrophoblast.
 D. Ovarian surface epithelium.
 E. Ovarian streame cells.

- 2. Which of the following statement is NOT correct regarding human endometrium?
 A it is composed of glandular epithelium and underlying stromal tissues.
 B it is the site for implantation occurs.
 C. Subnuclear vacuolization is a sign of the late menstrual cycle.
 D. Progesterone is the major homoner responsible for secretory changes in the endometrium.
 E. All of above is correct.
- The pregnancy (except the first few weeks) is maintained and progressed by:
 Estogen secreted by follicular cells in the ovary.
 Progsetine secreted by copus laterum in the ovary.
 C. NCG secreted by human placenta.
 U. H secreted by pillutary algorithms.
 FSH secreted by pillutary glands.

- 4. Which of following statements is correct?
 A Fallopian tube connects uterus and ovary in a continuum.
 B. Ovary is the most common site for ectopic pregnancy.
 C Endometrial gland is the primary source of mucin in vaginal wall.
 D. Corpus luterum is no longer present in postmenopassal ovaries.
 Uvula is not considered as skin because it does not contain skin appendages.
- Which of the following structure is NOT derived from Mullerian duct?
 Ret ovarii.
 Ret ovarii.
 Fallopian tube.
 Endometrium.
 Endocevix.
 Upper third of vagina.

- Which of following condition is most likely associated with a preterm labor?
 A Fallopian tube attesia.
 B. Cervical incompetence.
 Cemoval of ovary in late pregnancy.
 D. Vagrant wan releasation.
 LI

- 7. Which of the following statement is correct regarding HLA-G molecule?
 A. The secreted form is produced by the ovary.
 B. It is essential to stimulate the placental growth during pregnancy.
 C. It participates in immune suppression in the placenta.
 D. It belongs to MHC class I molecules.
 E. None of above.

- Which of the following statement is NOT correct regarding the development of female genital organs?
 Ovaries developed from urogenital ridge.
 Rete ovari is the embryonic remnant of mesonephric duct.
 Upper third and lower third of vagina are derived from different embryonic structures.
 Wolffian ducts fused to form the uterine body.
 Vulva developed from the skin not the Mullerian duct.

6