

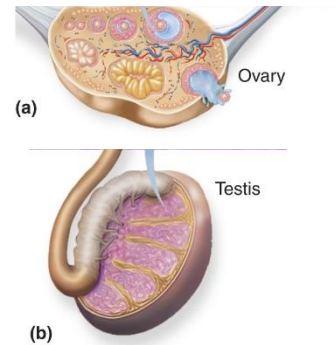


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Female Reproductive System

Primary Sex Organs for two sexes

- Gonads
 - Ovaries in female
 - Testes in male
- Gametes
 - Ovum or eggs in female
 - Sperms in male



Chromosomes

Chromosomes

- **Autosomes**
 - 46 Chromosomes, 23 Pairs in somatic cells
 - Diploid ($2N$)
- **Sex chromosomes**
 - 23 chromosomes in gametes
 - Haploid ($1N$)
 - Female: XX chromosomes
 - Male: XY chromosomes

More terminology

- Fertilization
- Zygote
- Cell division
 - Mitosis
 - Meiosis

Function of Female Reproductive System

- A. Production of eggs
- B. Site of fertilization and fetal development
- C. Fetal nourishment, birth and lactation
- D. Secretion of hormones (estrogen and progesterone)

Secondary/Accessory Organs

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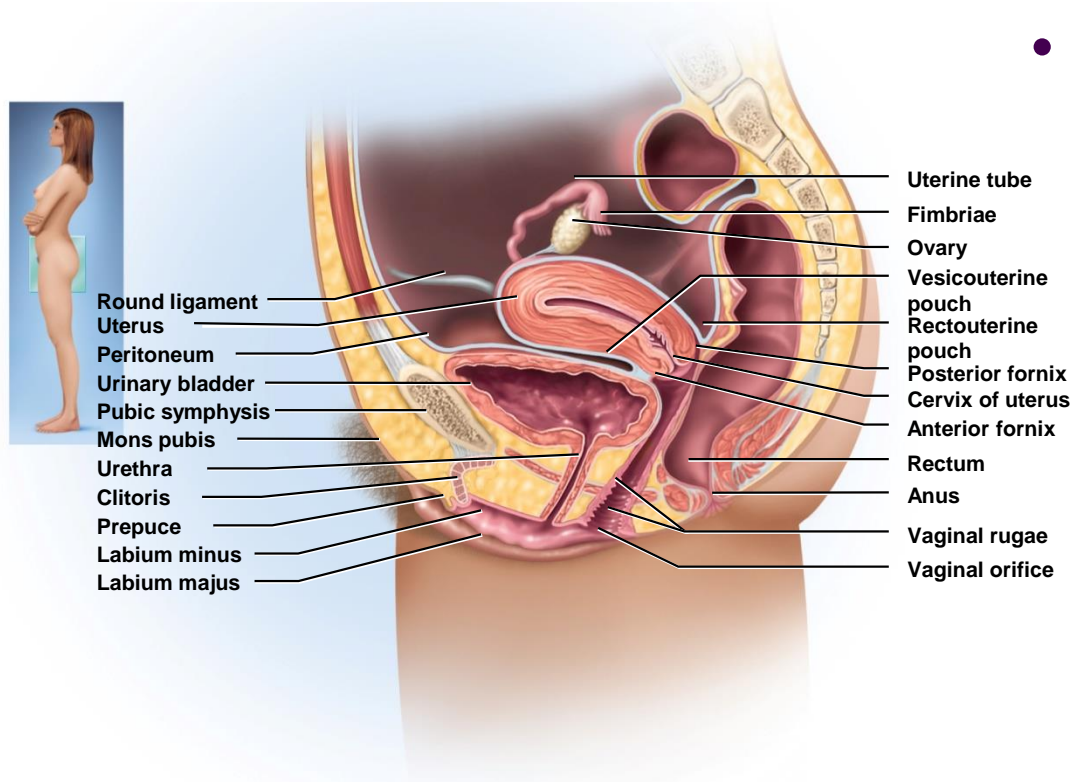


Figure 28.1

- Female
 - Uterine Tubes
 - Uterus
 - Vagina
 - External genitalia

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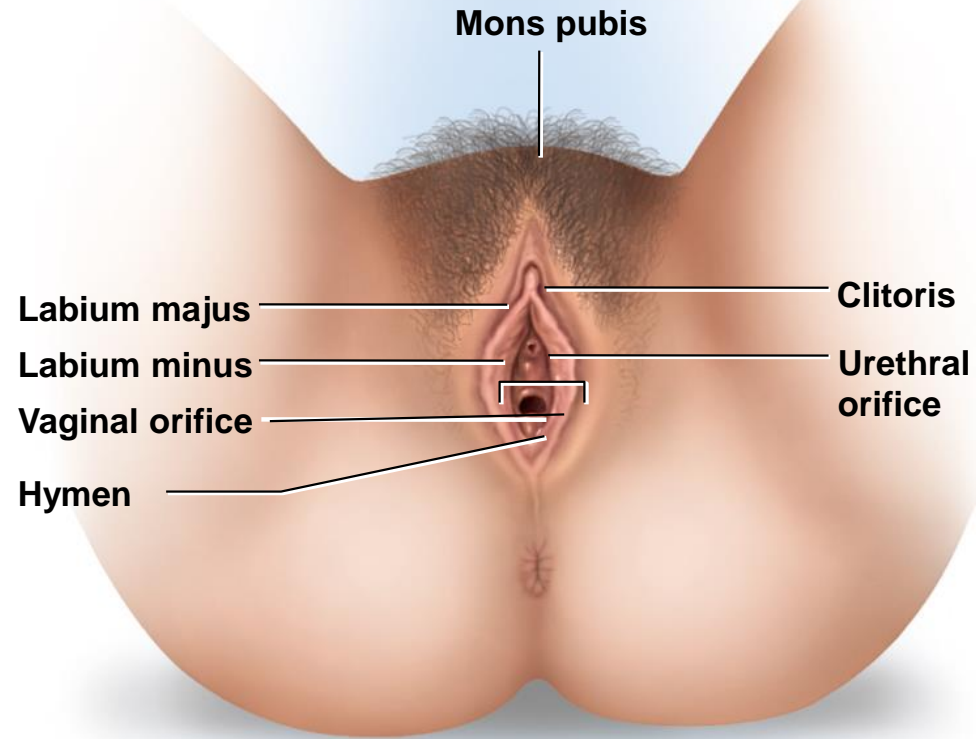
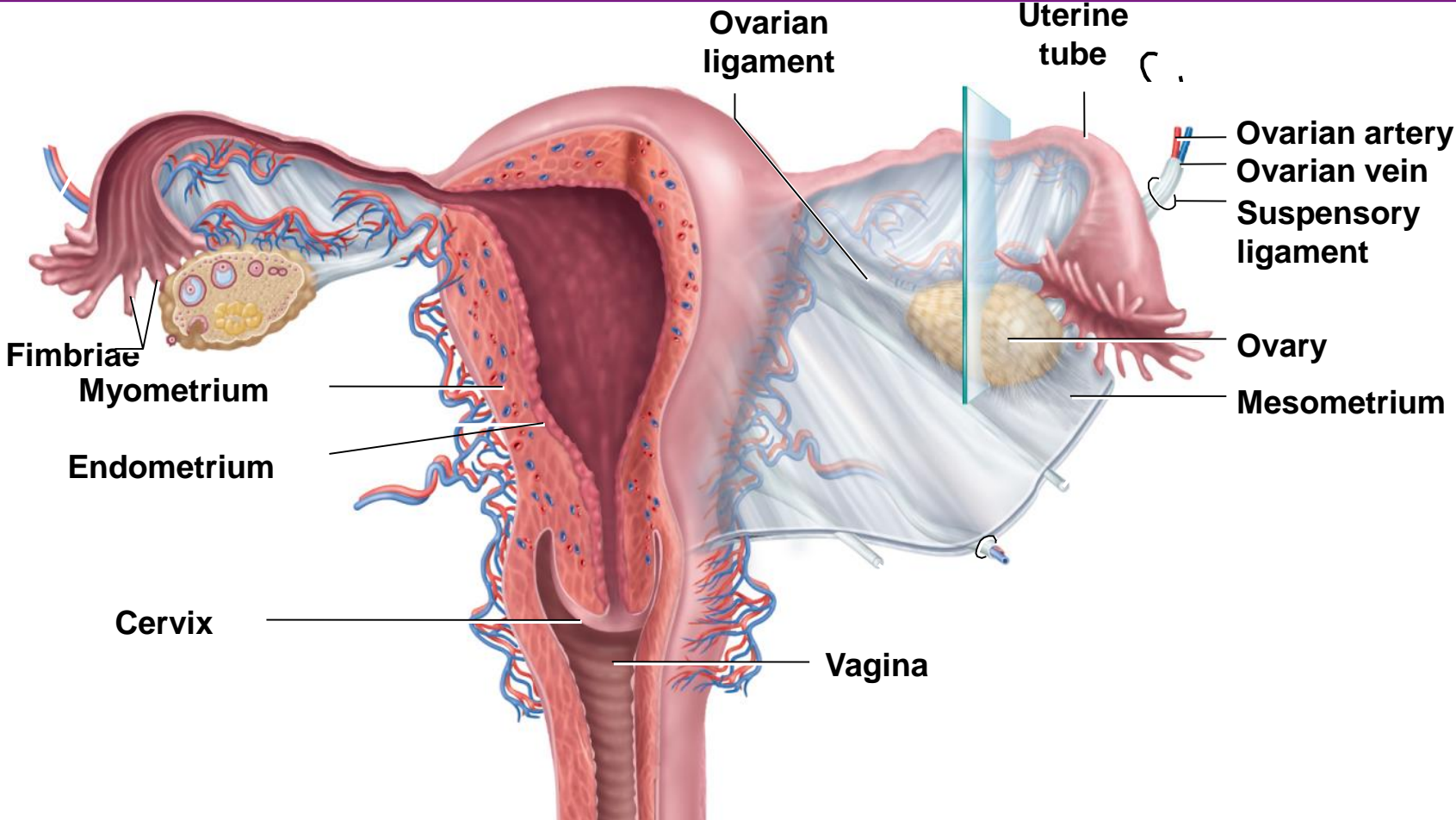


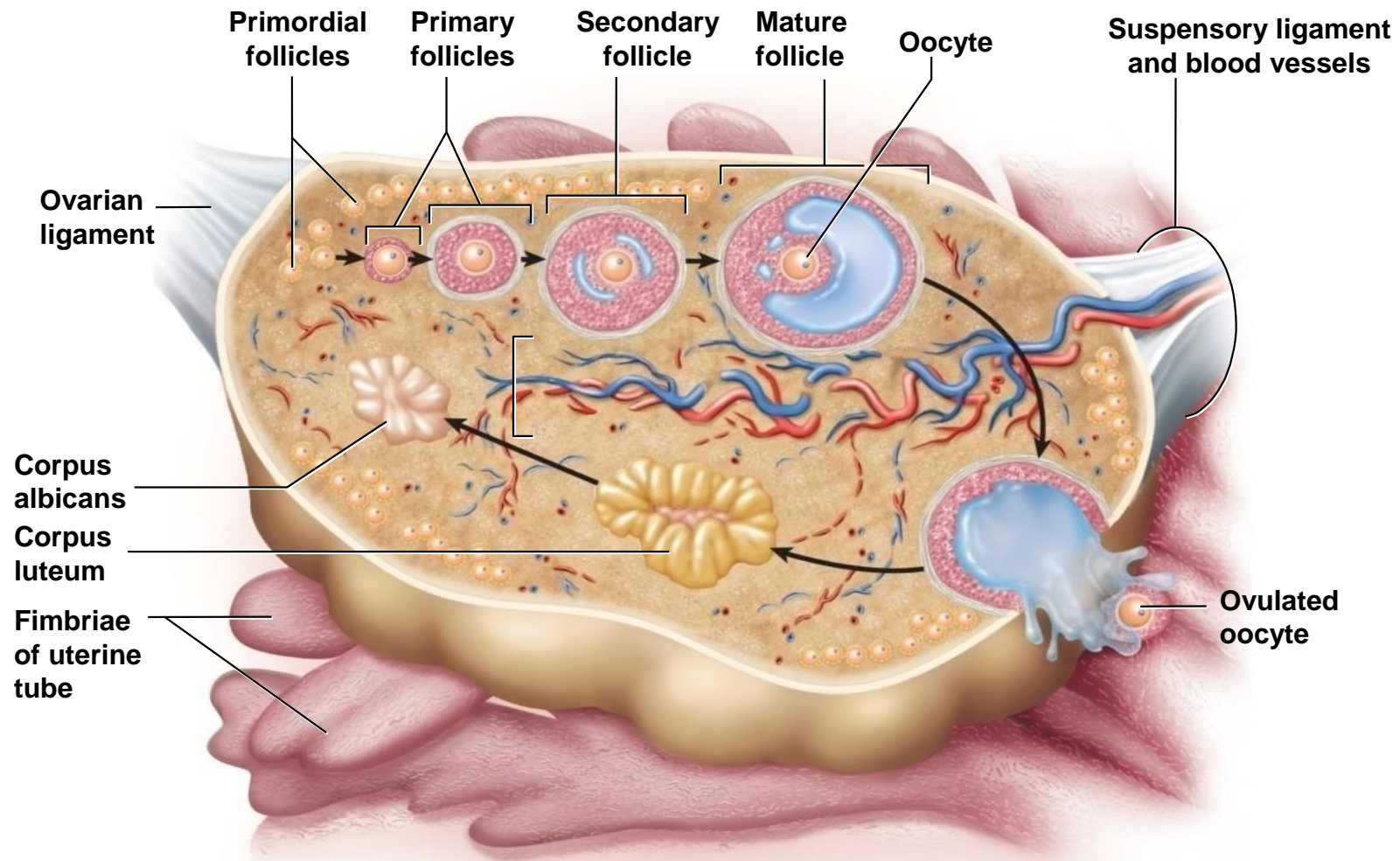
Figure 28.8a

(a)

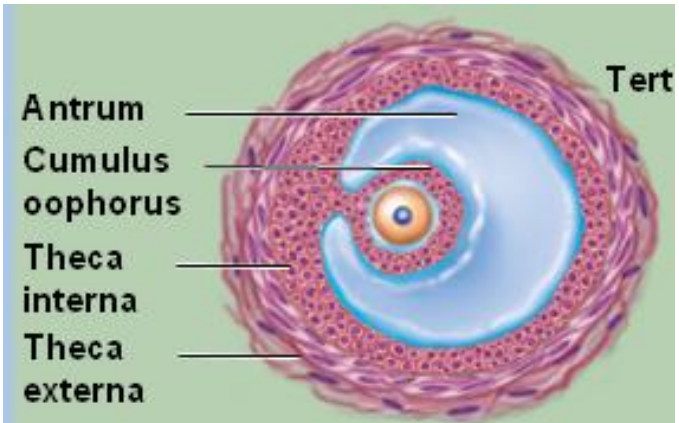
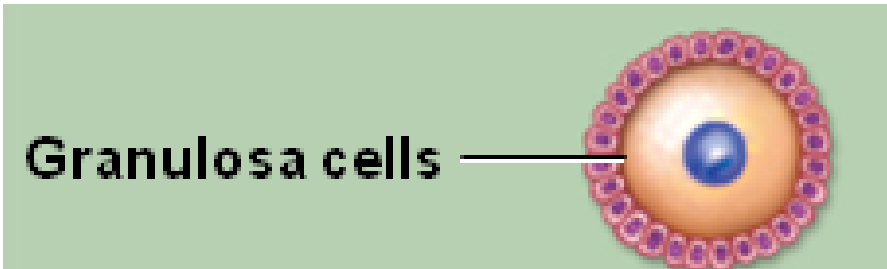
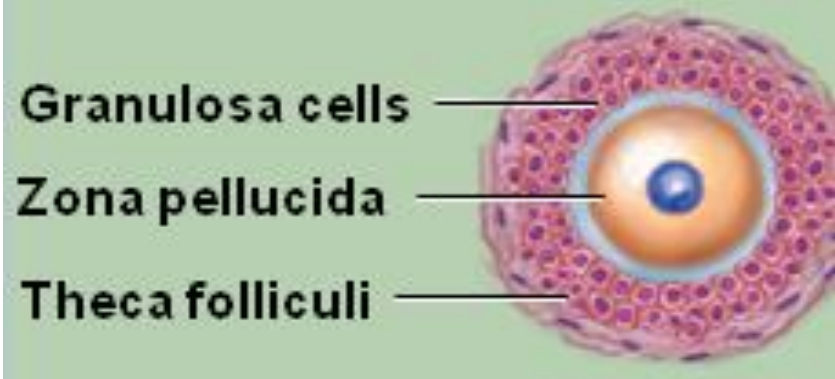
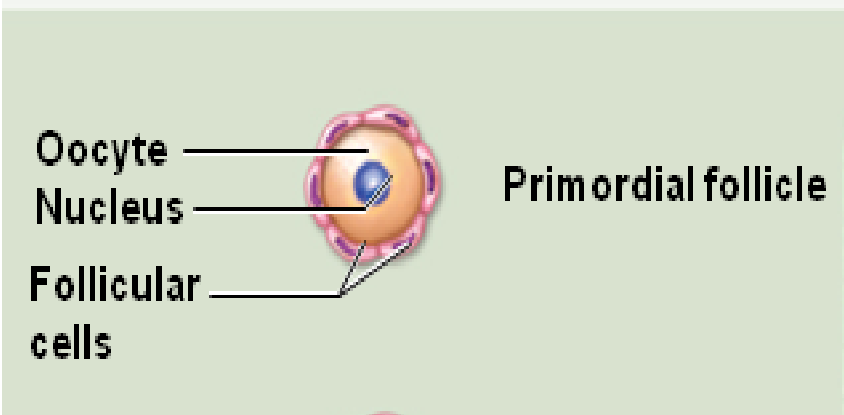
Female Reproductive organs



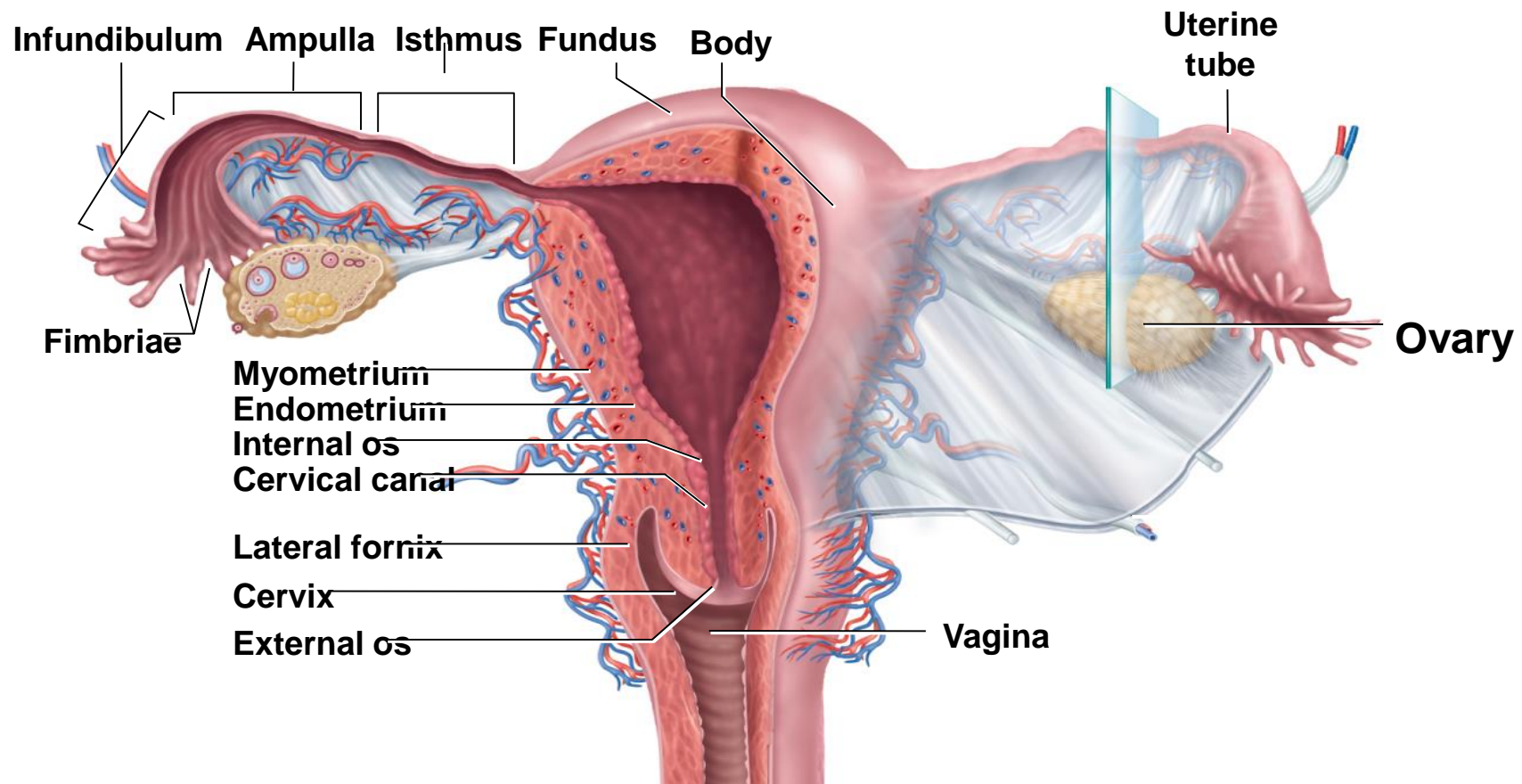
Inside the ovary:



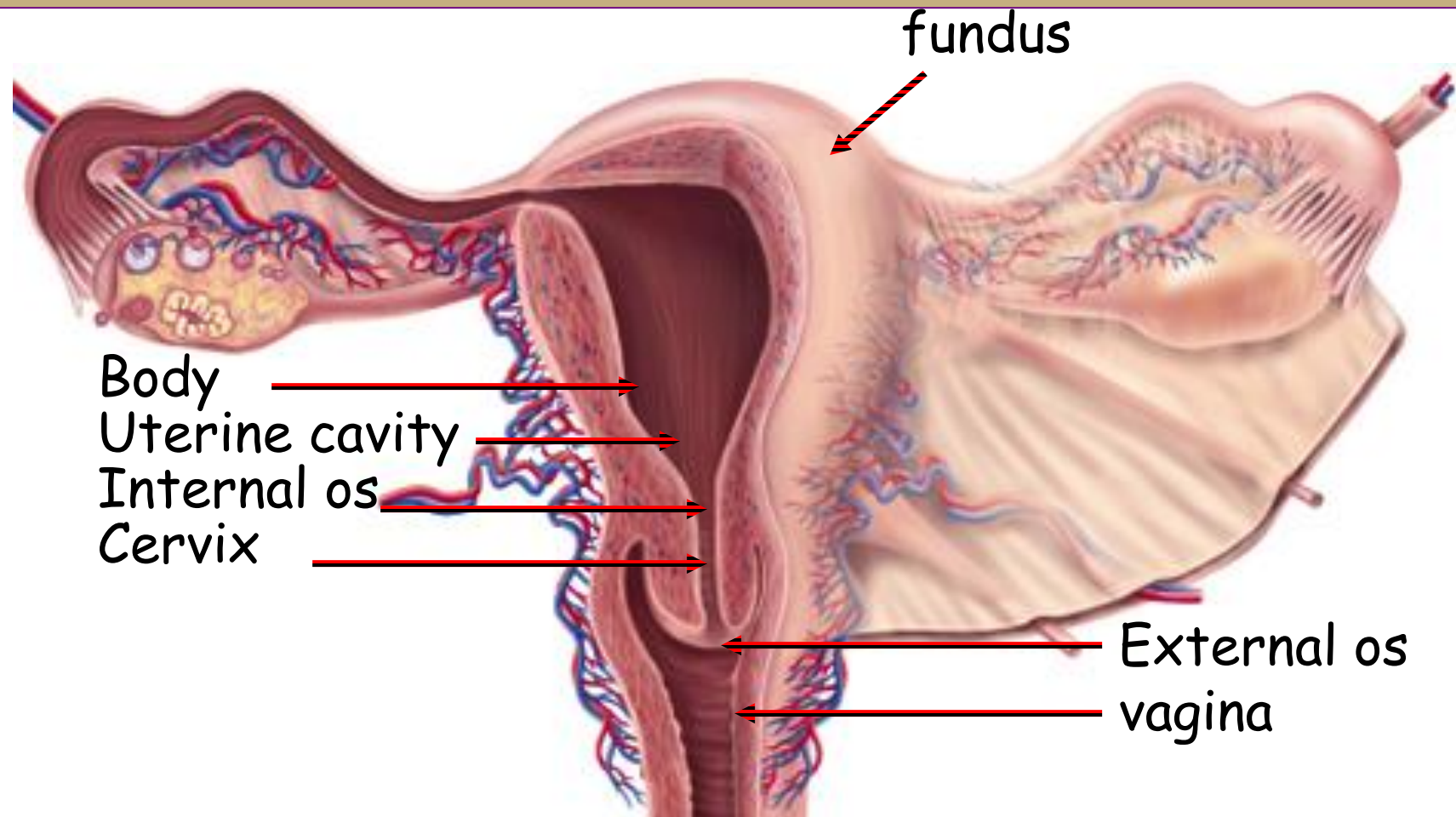
Ovarian Follicles



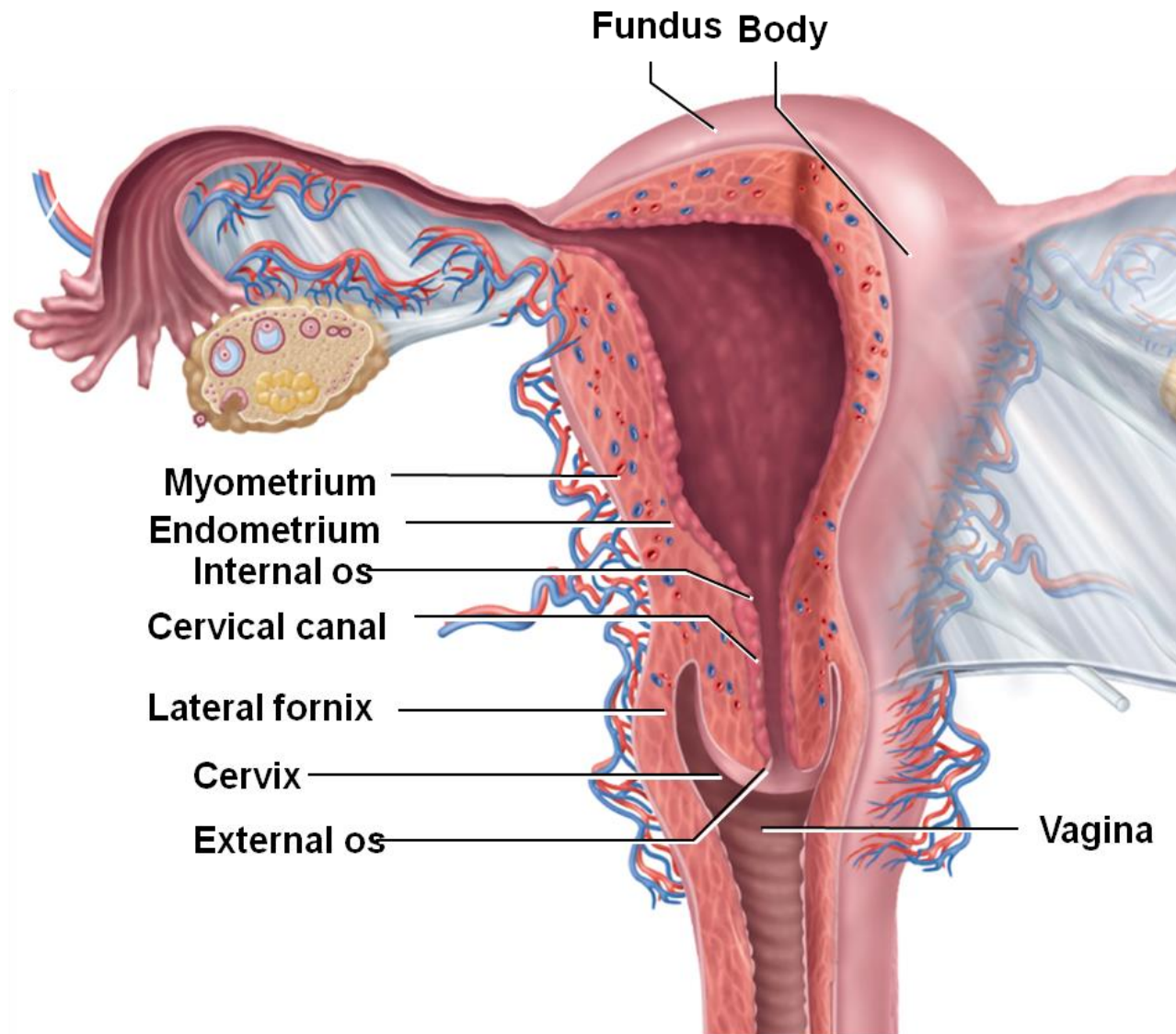
Uterine (Fallopian) tubes



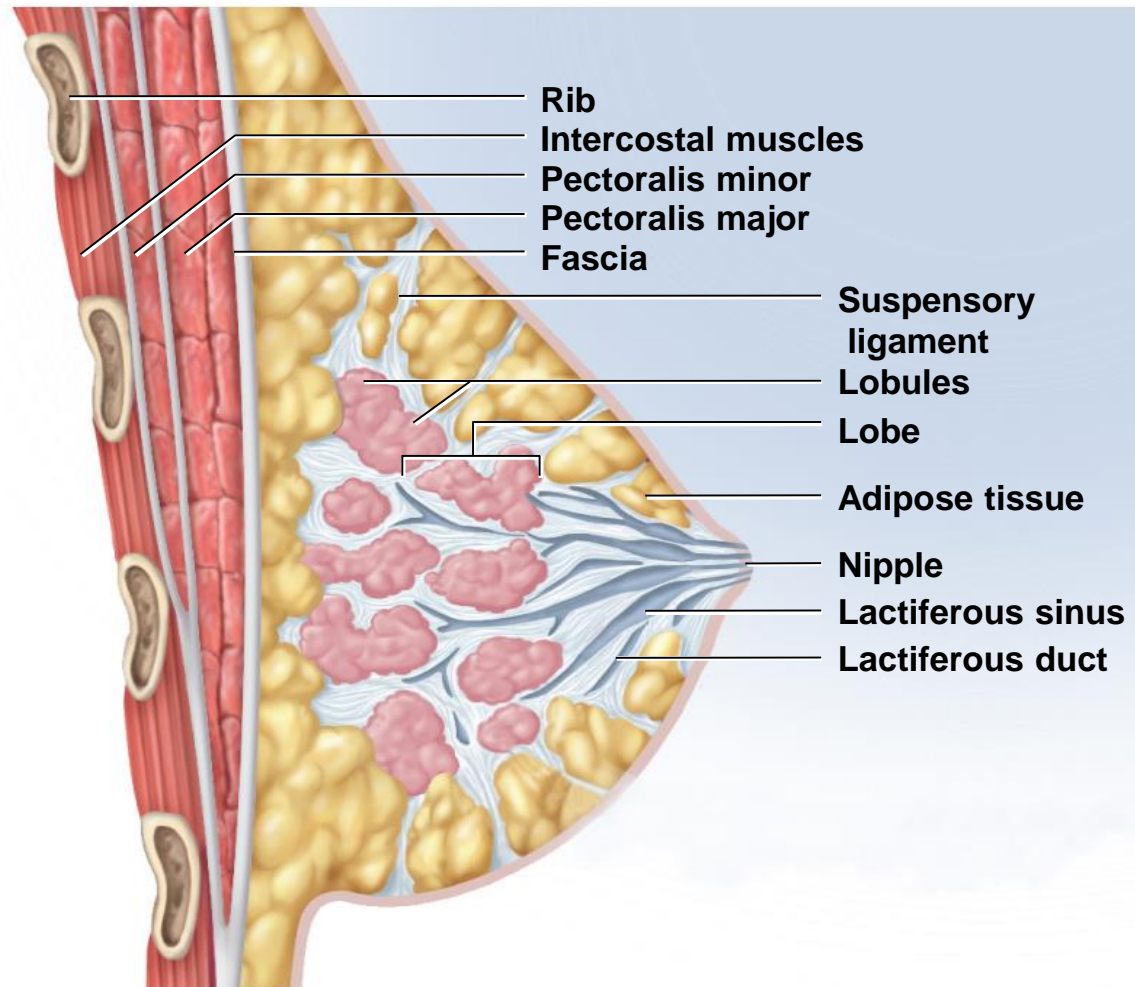
The Uterus



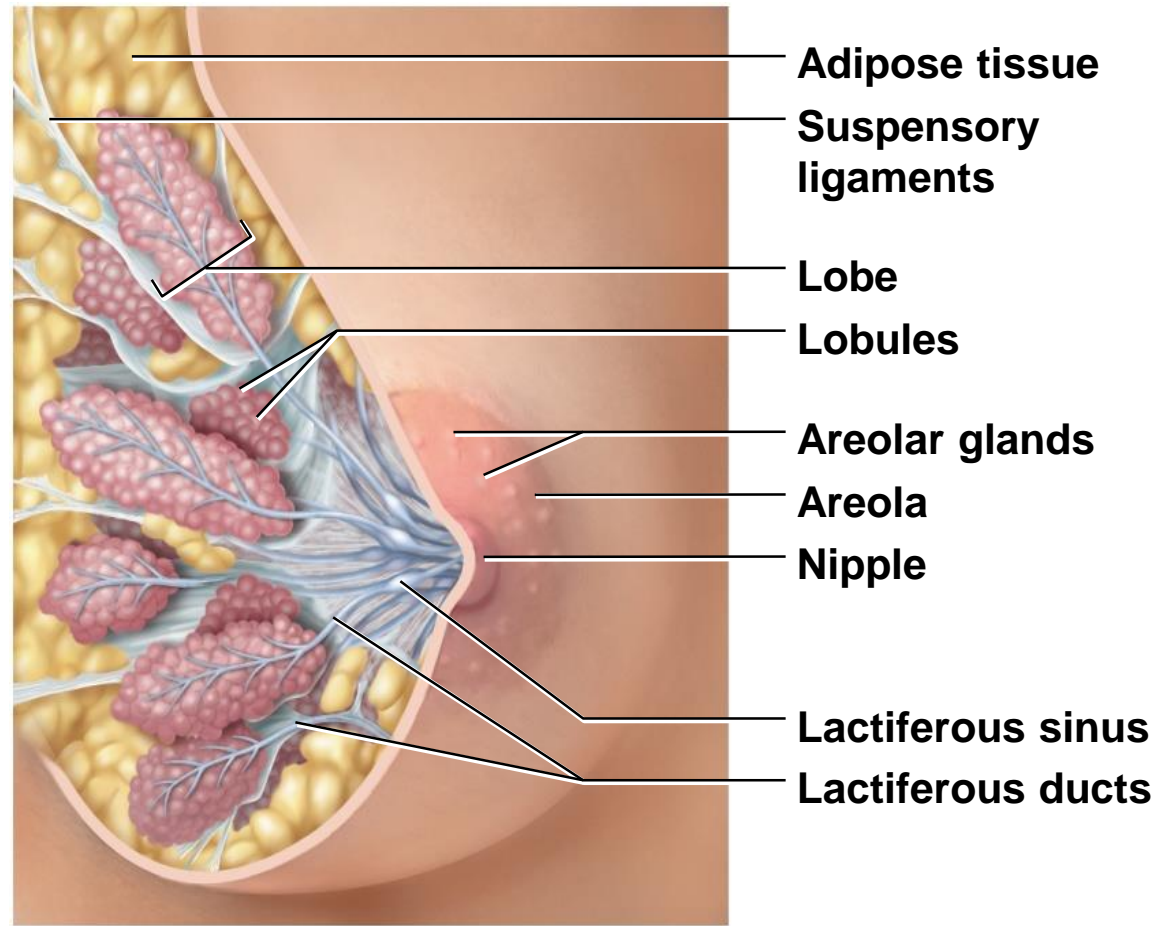
Uterine wall:



Mammary glands

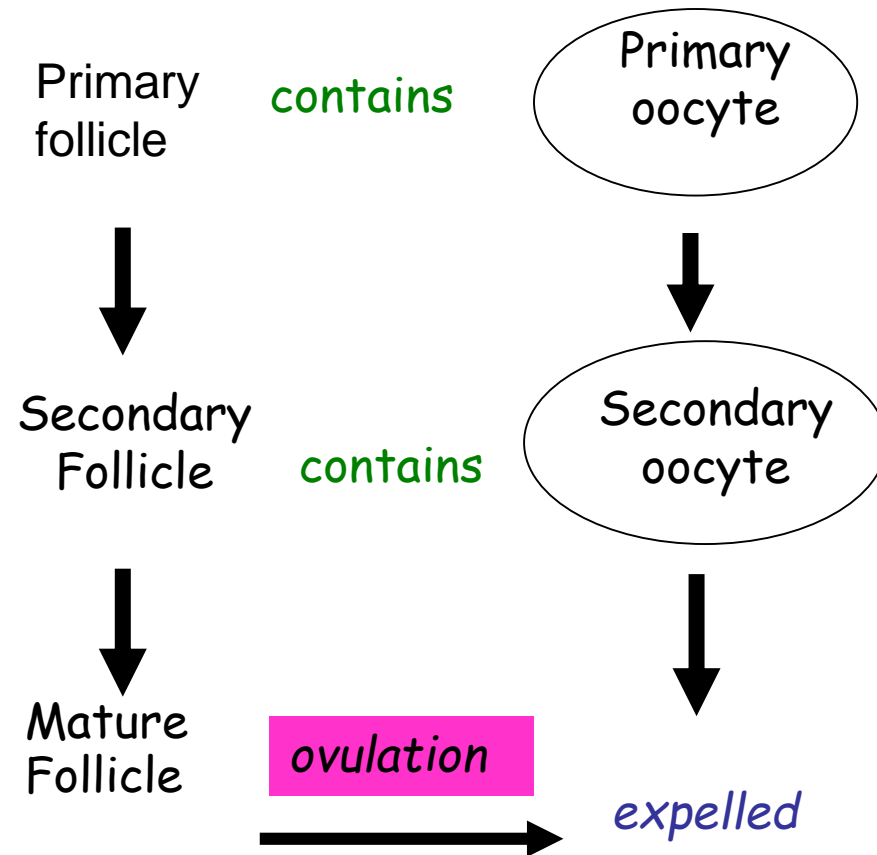


Lactating breast



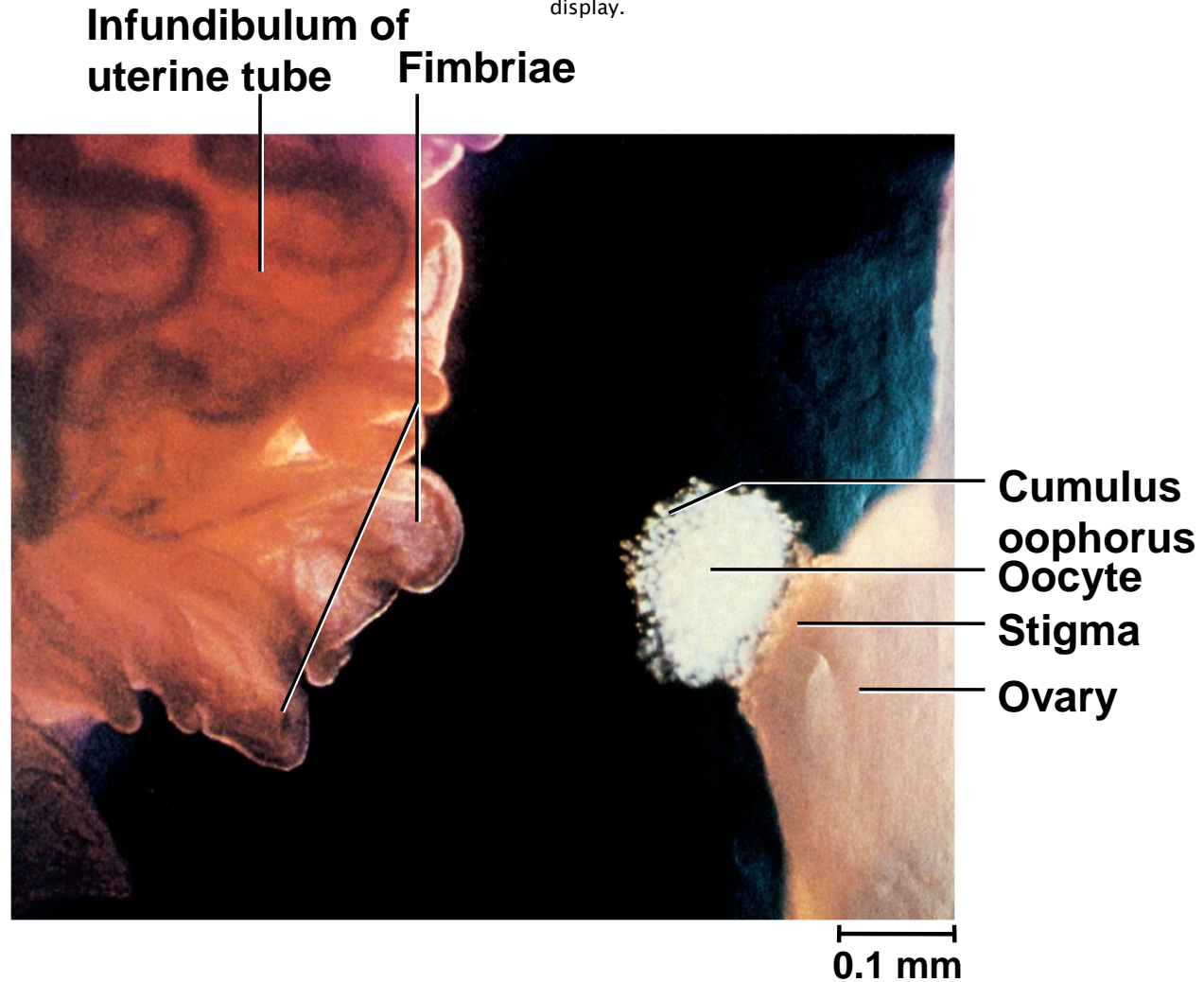
Development of germ cell

- A. Oogonia (2n)
- B. Primary oocyte (2n)
- C. Secondary oocyte (n)



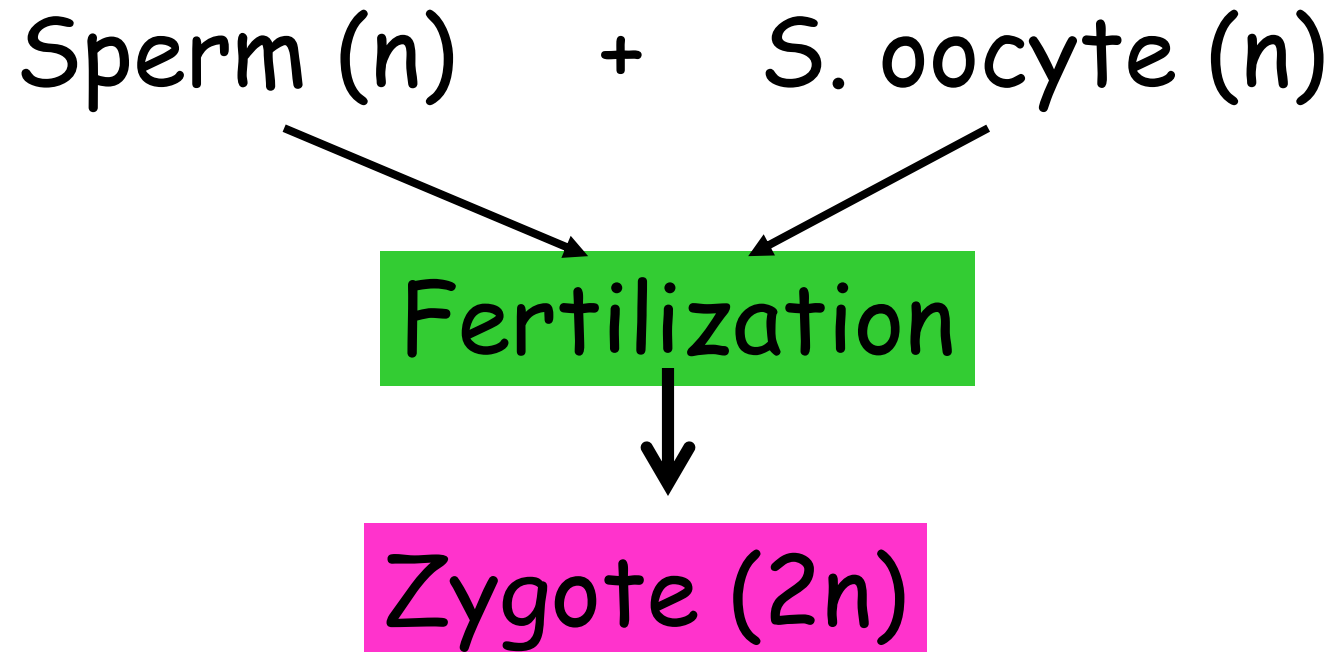
Endoscopic View of Ovulation

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If sperms are present in the fallopian tube:

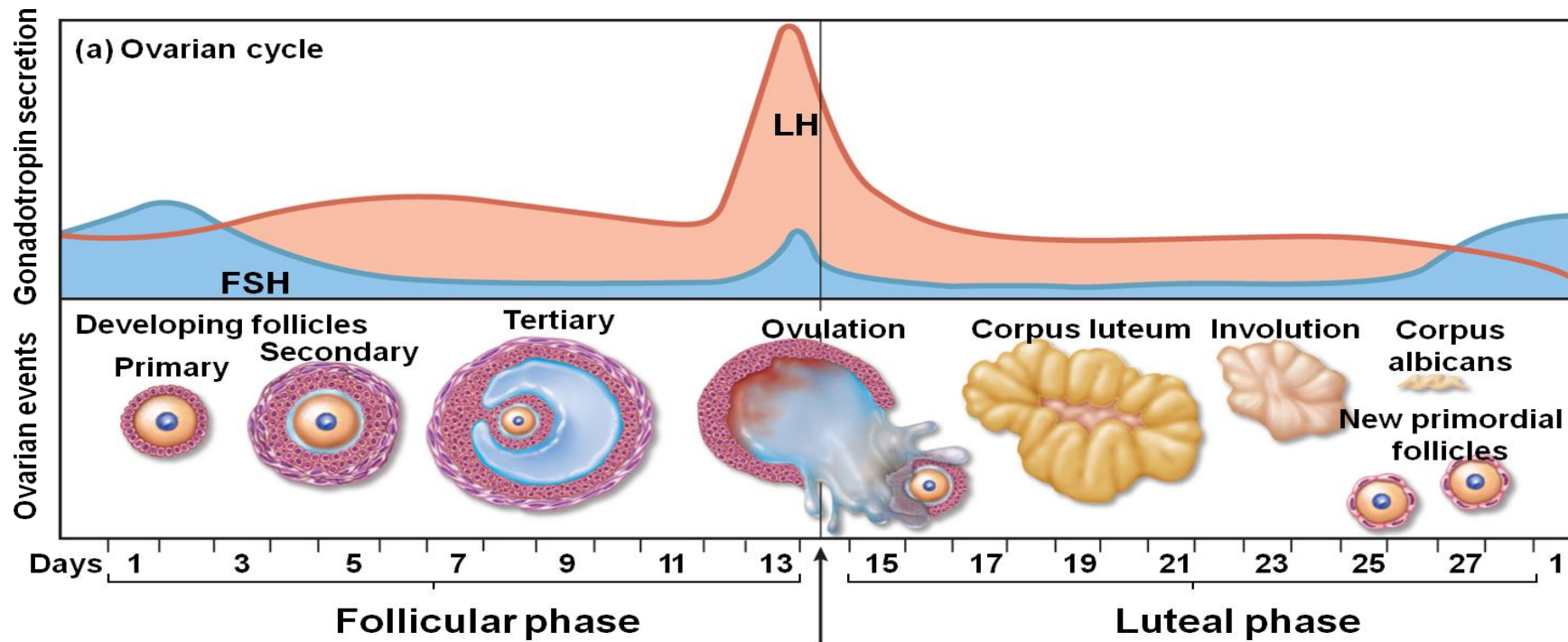


Female reproductive cycles:

1. Ovarian cycle
2. Uterine/Menstrual cycle

Ovarian cycle:

- Associated with maturation of egg every month.
- Ovulation
- FSH and LH and estrogen regulates it.
- Three main events:
 - Follicular phase, ovulation, luteal phase



Menstrual Cycle

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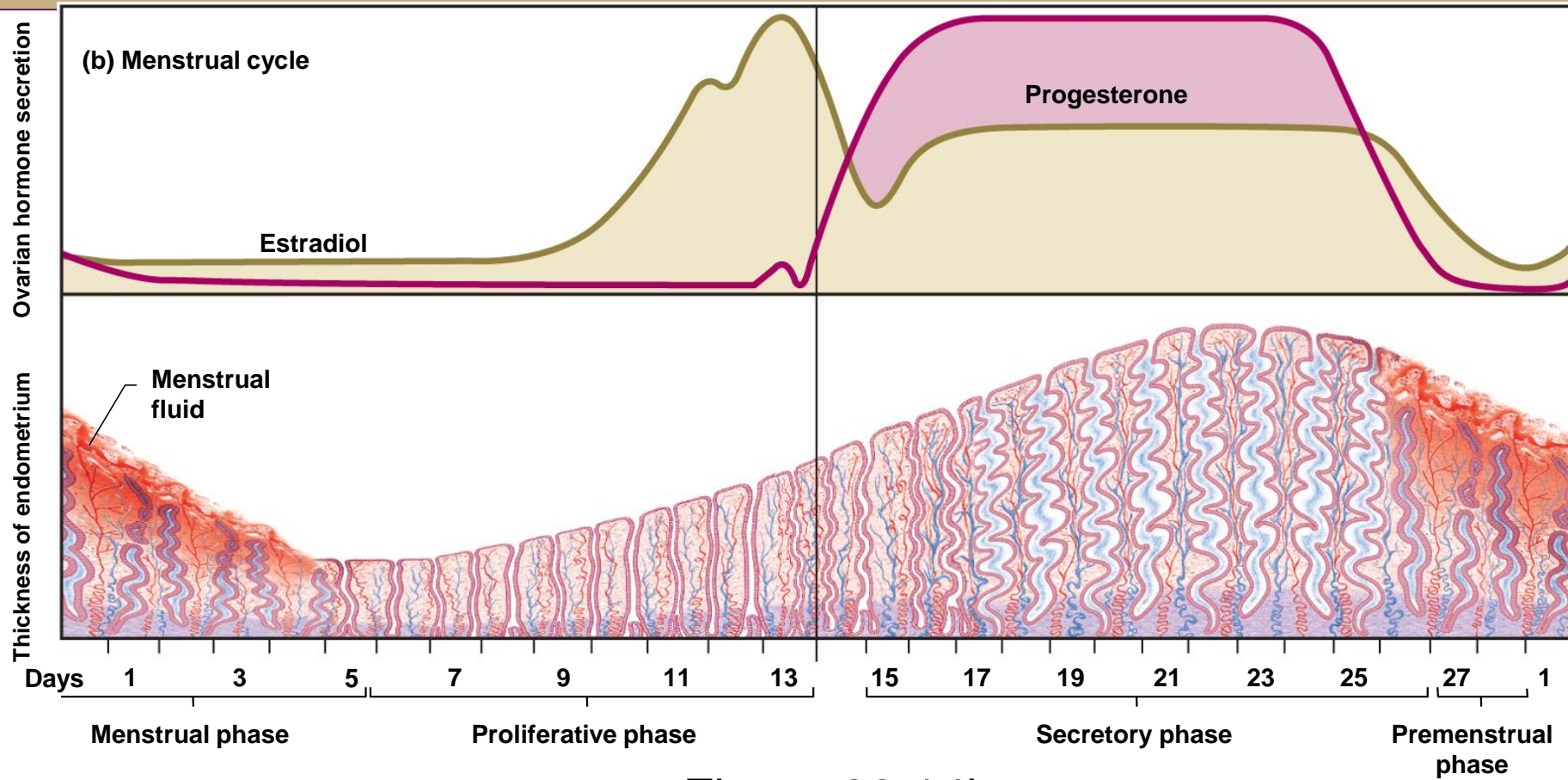
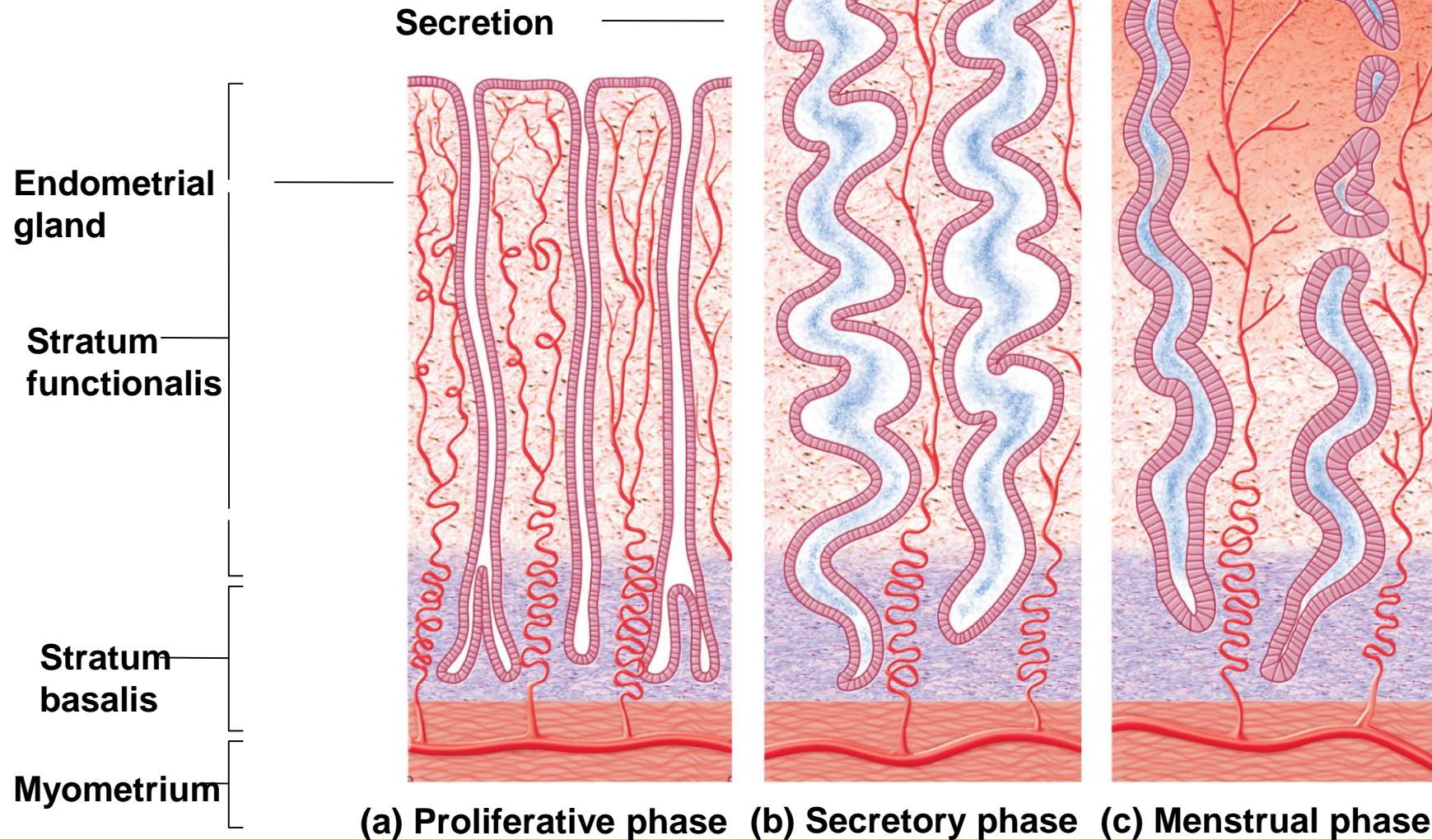


Figure 28.14b

Menstrual Cycle



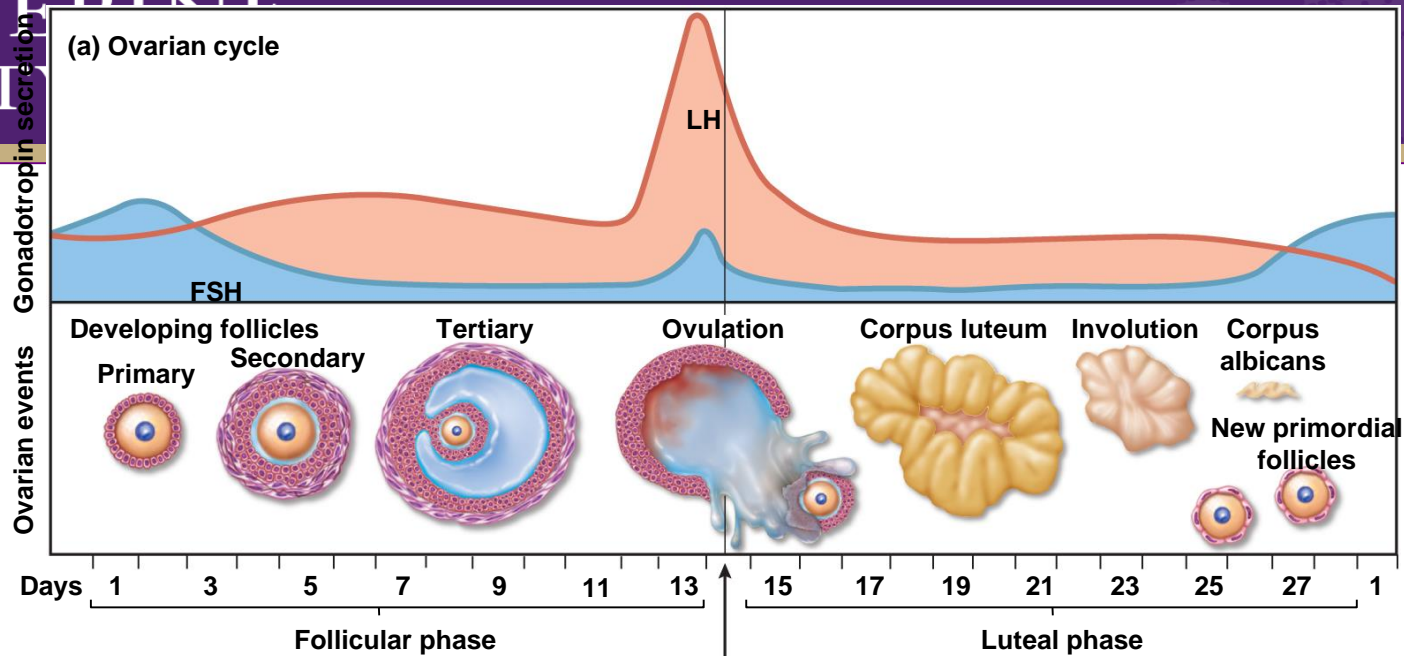


Fig. 28.14

