Female Histology: Ovary

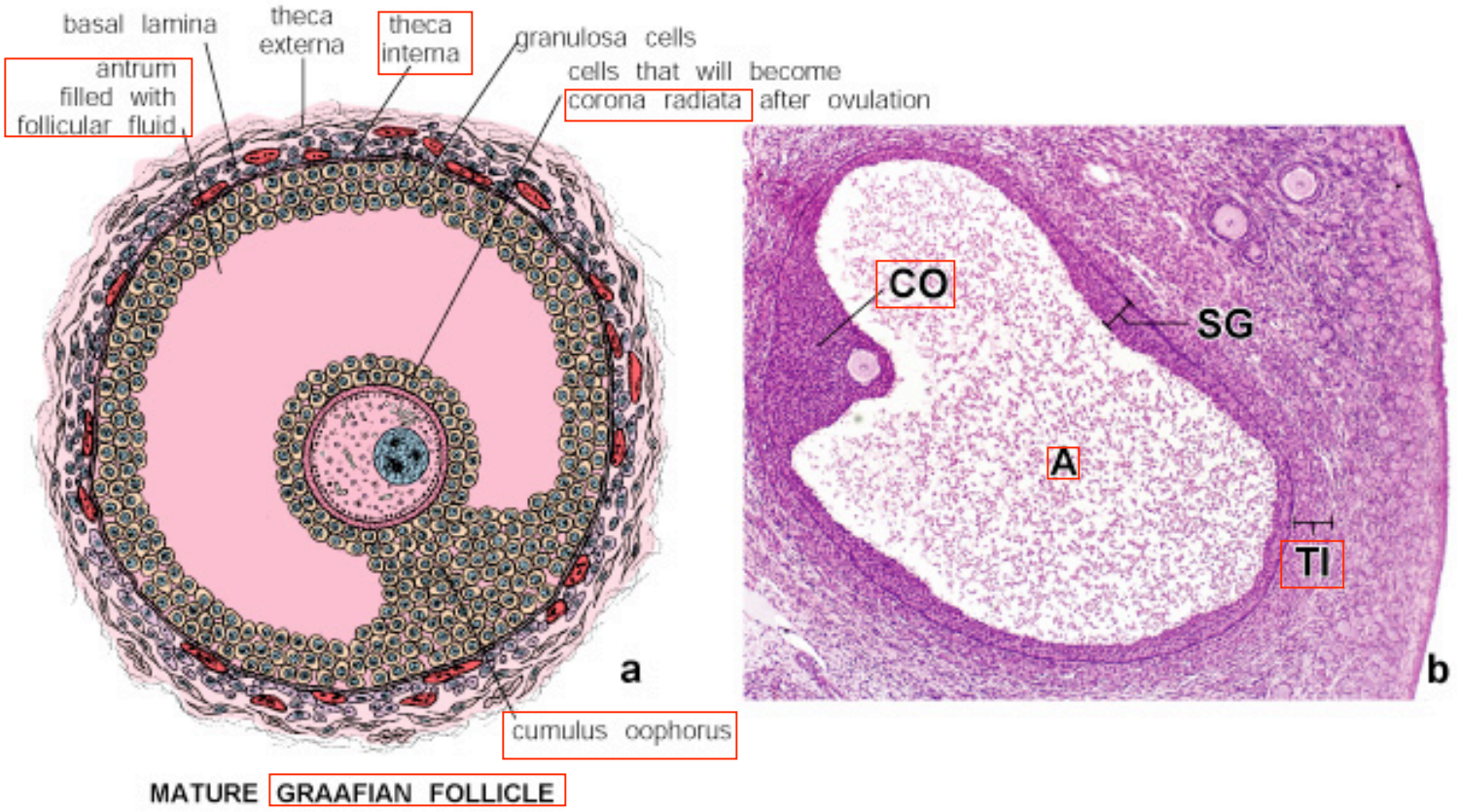


Figure 22.7. **Diagram and photomicrograph (X45) of a secondary follicle in a late stage of development.** = Graafian follicle
A, antrum; *CO*, cumulus oophorus; *MG*, membrana granulosa.

Copyright © 2003 Lippincott Williams and Wilkins

Female Histology: Ovary

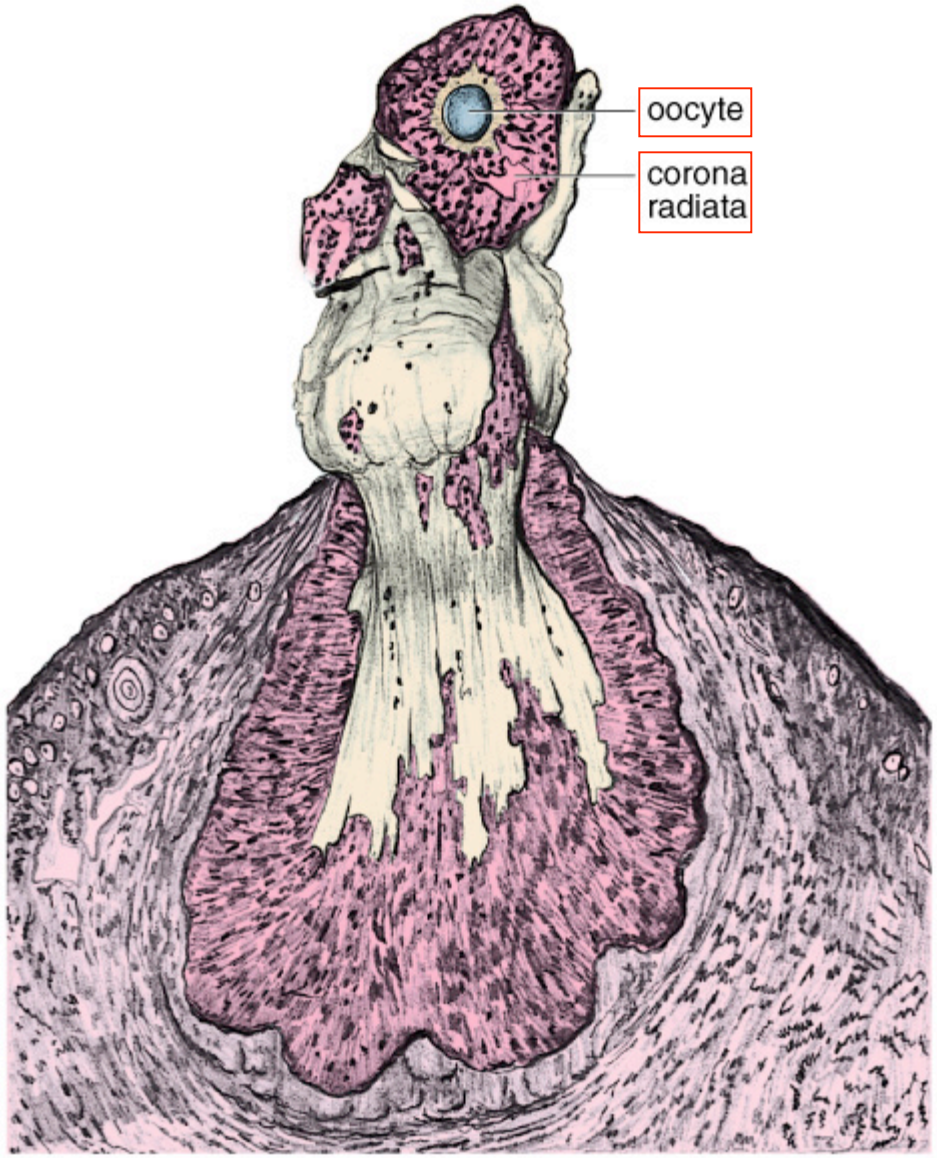


Figure 22.8. **Ovulation.**

Copyright © 2003 Lippincott Williams and Wilkins

Female Histology: Ovary

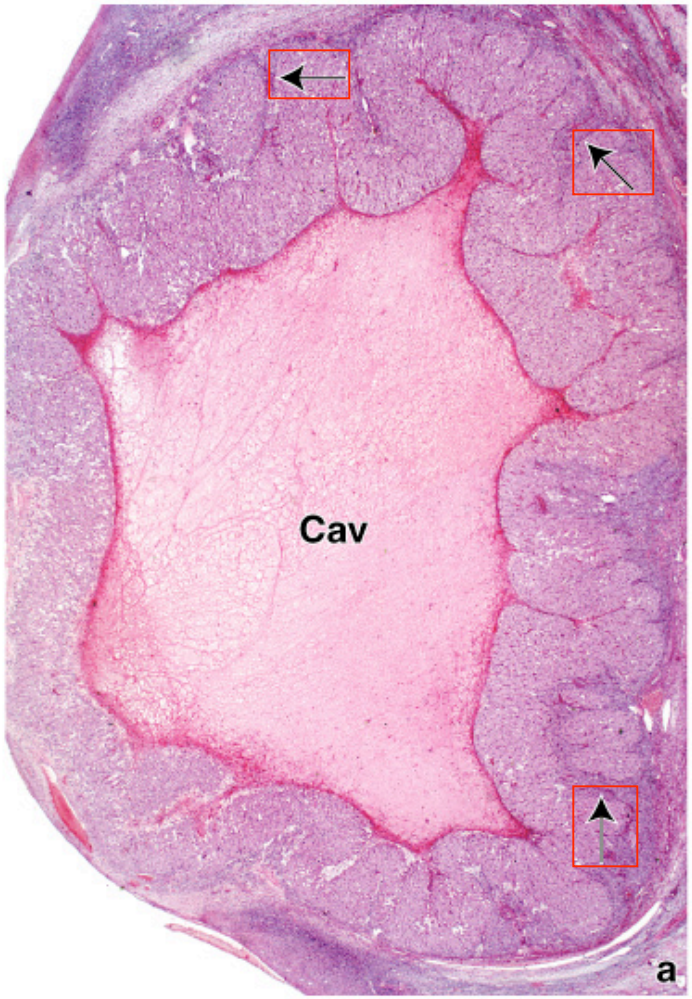


Figure 22.11a. **Photomicrograph of human corpus luteum.** *Cav*, follicular cavity; *arrows*, cells of the theca interna. X12.

Copyright © 2003 Lippincott Williams and Wilkins

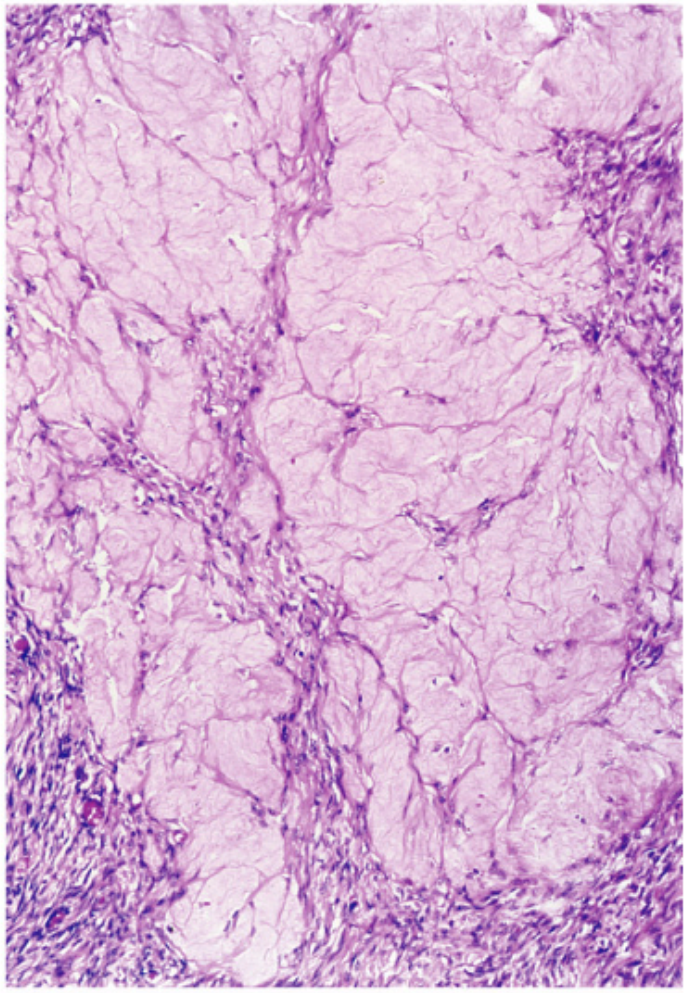
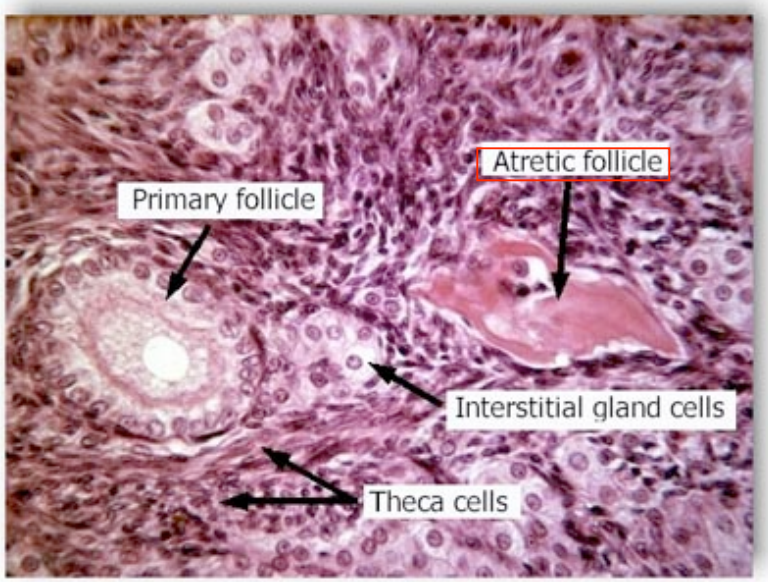
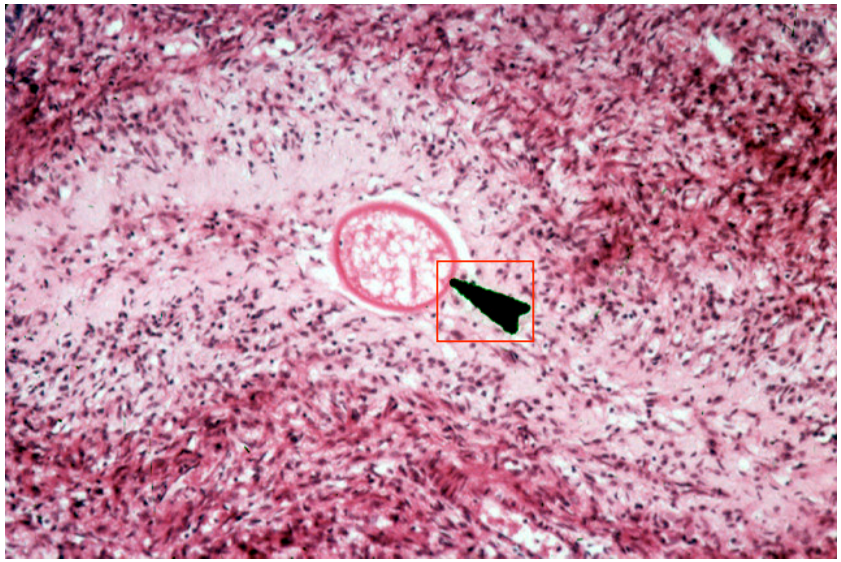


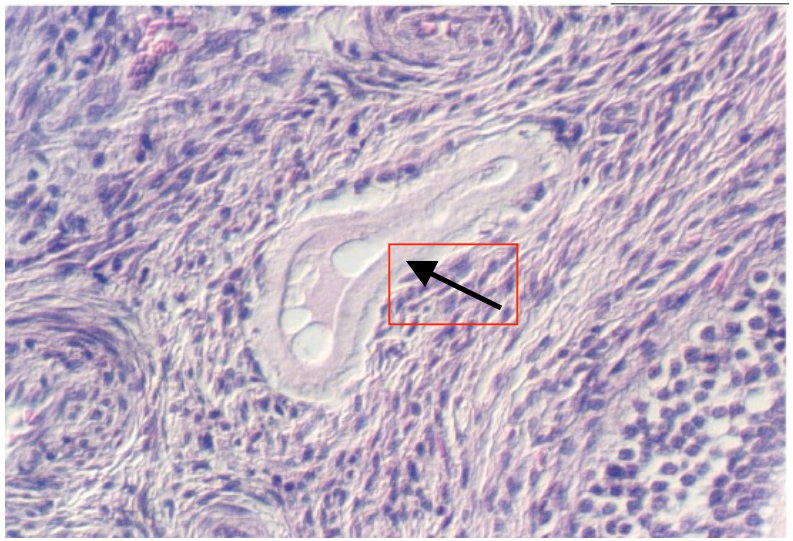
Figure 22.13. **Photomicrograph of corpus albicans of a human ovary.** X125.

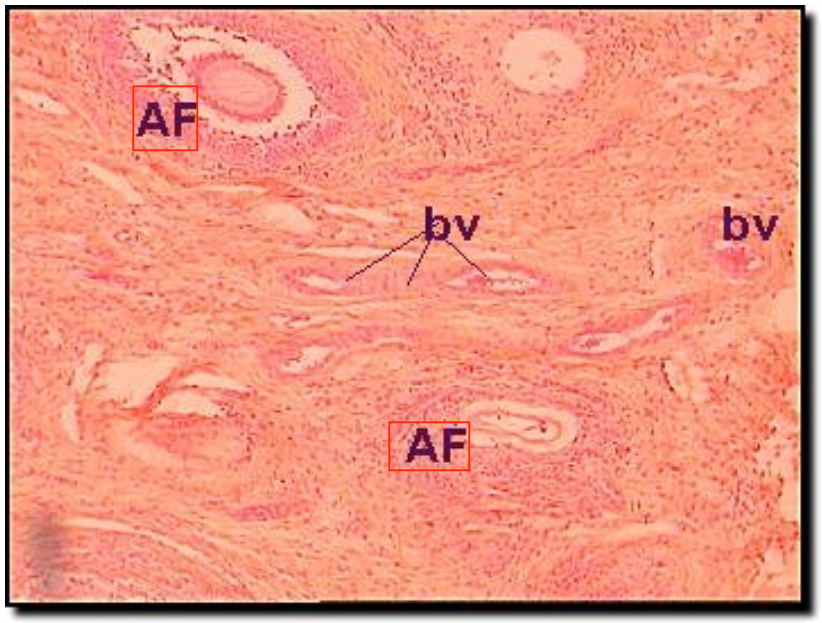
Copyright © 2003 Lippincott Williams and Wilkins

Female Histology: Atretic Follicles of the Ovary

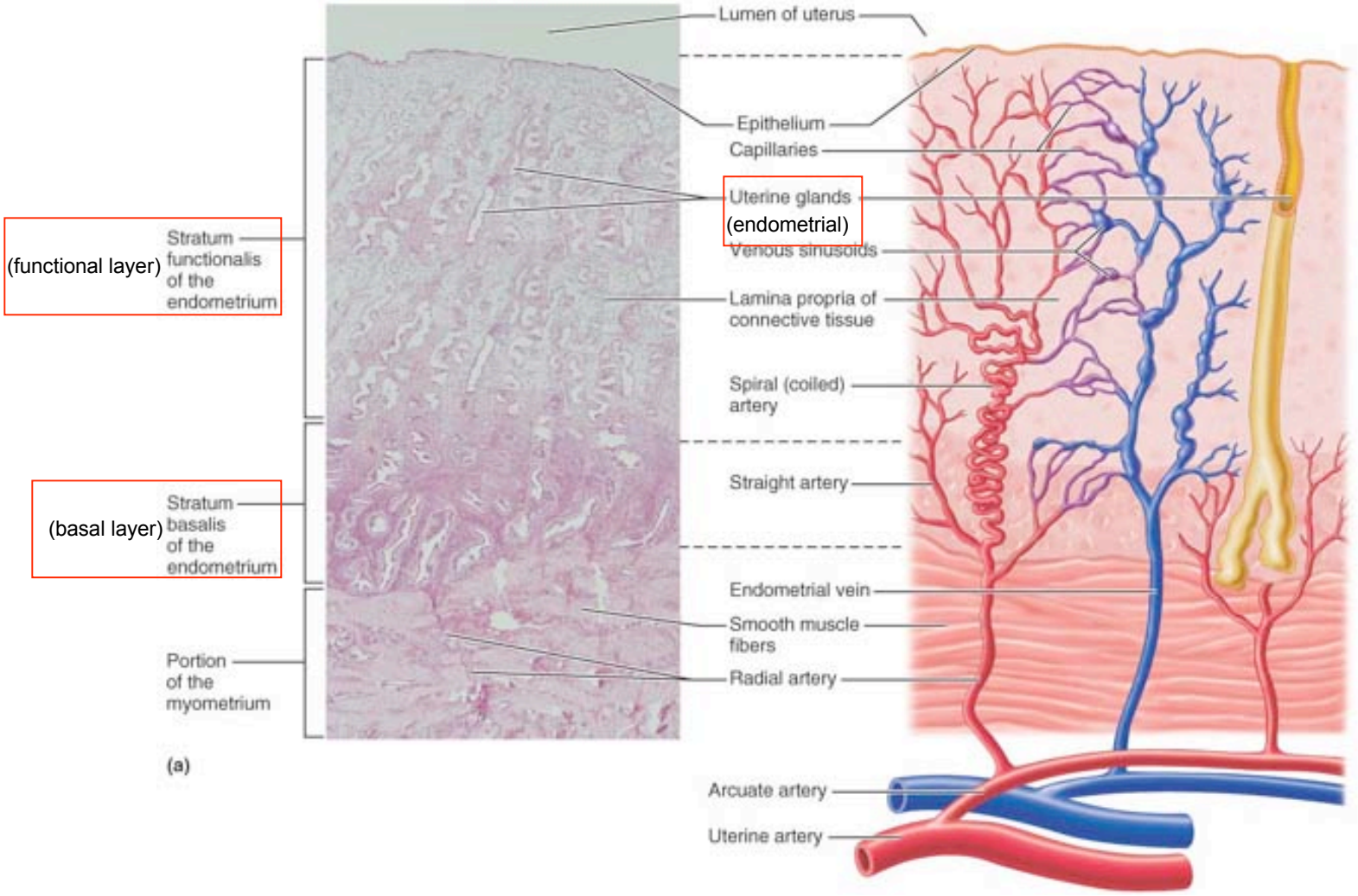








Female Histology: Uterus



Note: blood begins to pool in venous sinusoids during the secretory phase of the uterine cycle, forming venous sinuses (lakes), which will ultimately burst in the menstrual phase, with the blood being shed with the functional layer of the endometrium

Female Histology: Uterus

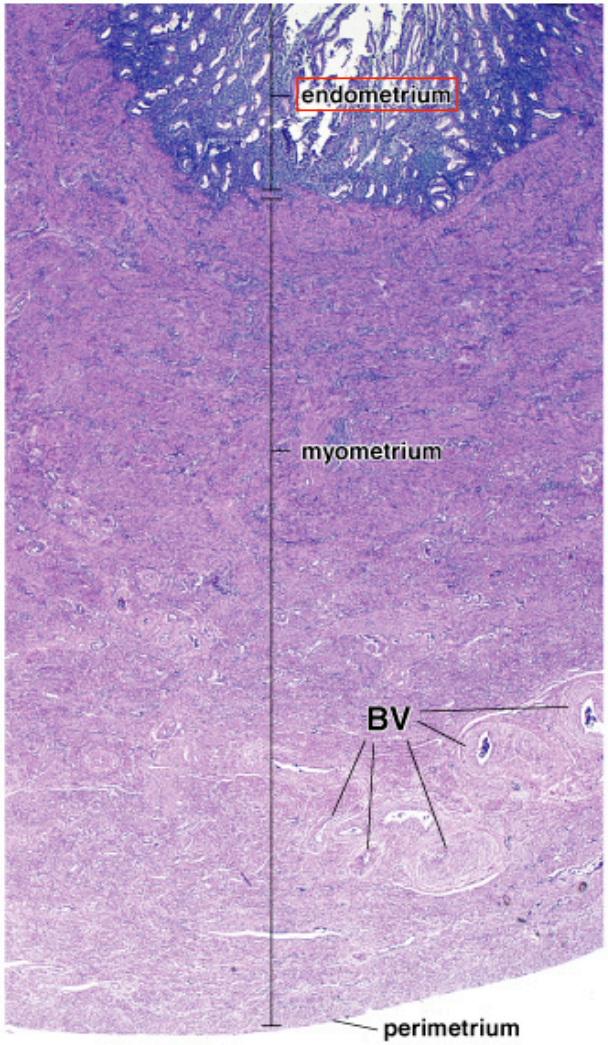


Figure 22.16. **Photomicrograph of a sagittal section of a human uterus.** *BV*, blood vessels.

Copyright © 2003 Lippincott Williams and Wilkins

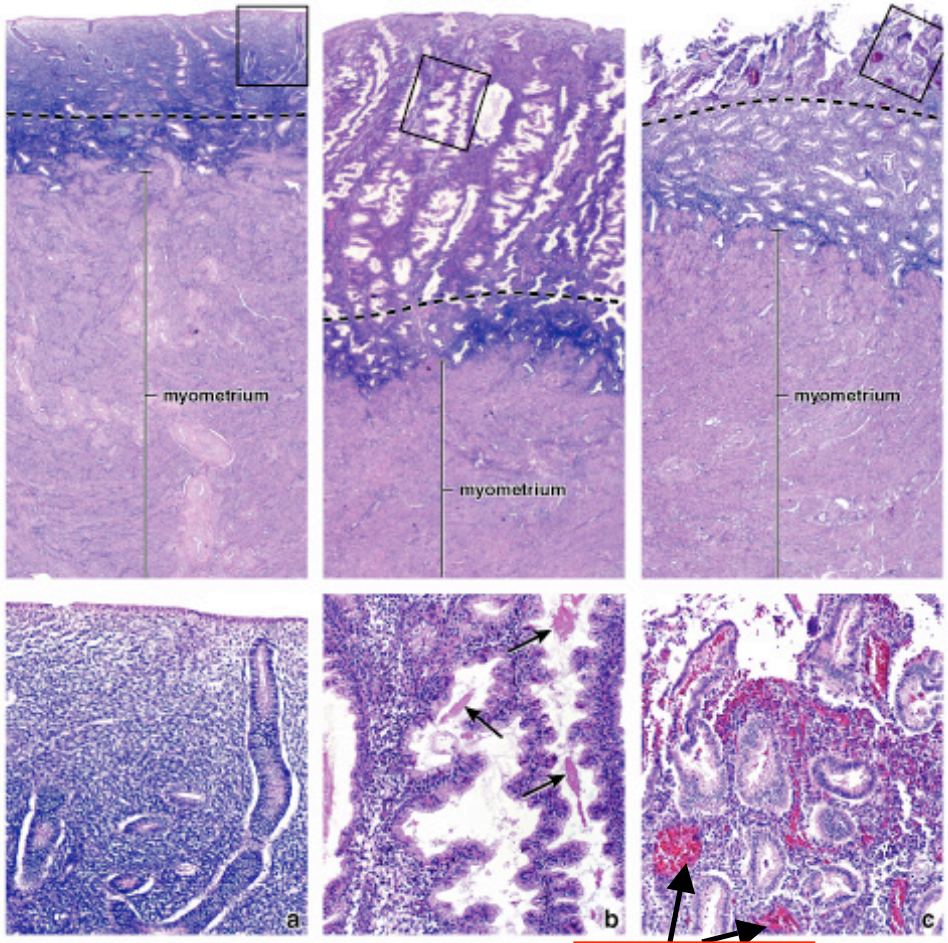


Figure 22.18. **Photomicrographs of the uterine lining in proliferative (a), secretory (b), and menstrual (c) phases of the menstrual cycle.**

Copyright © 2003 Lippincott Williams and Wilkins

Female Histology: Vagina

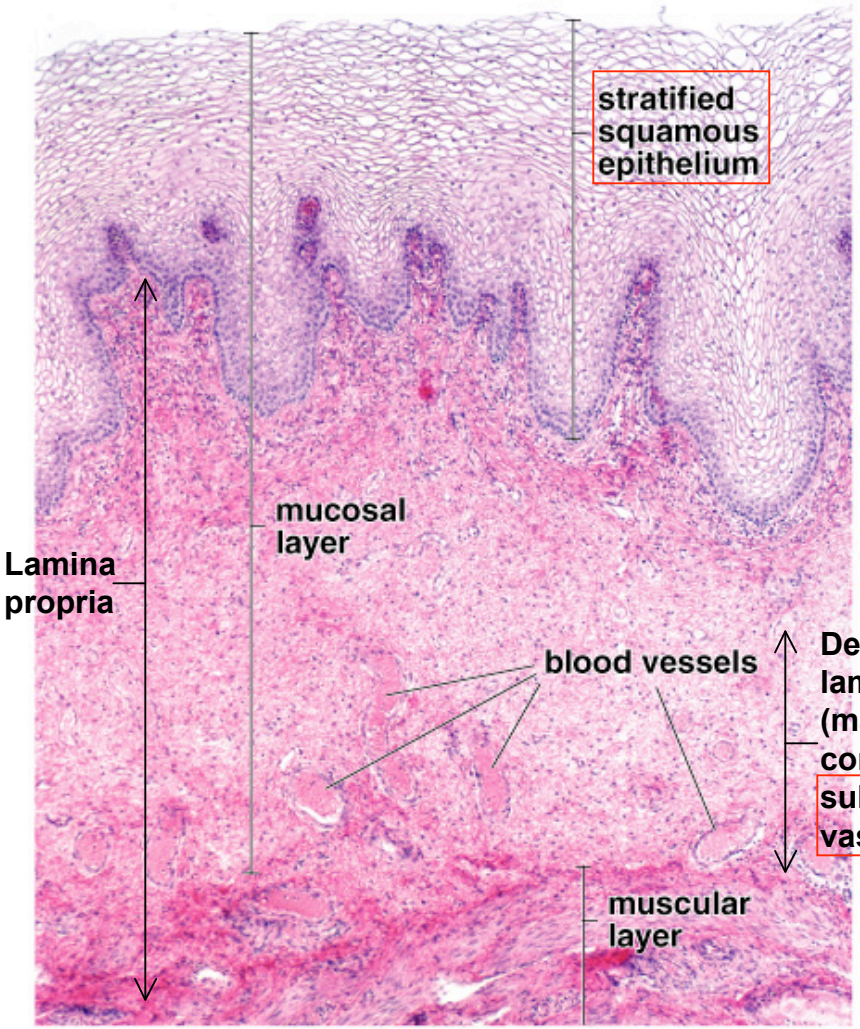


Figure 22.27. **Photomicrograph of the human vagina.** X40.

Copyright © 2003 Lippincott Williams and Wilkins

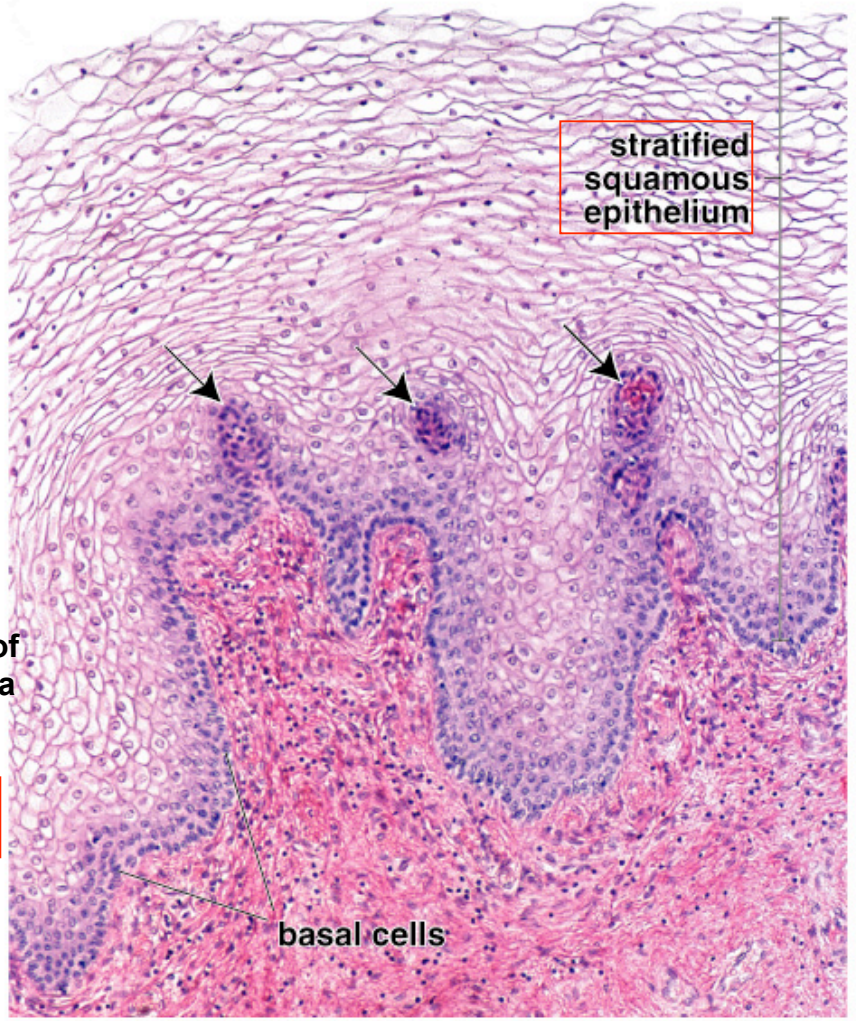


Figure 22.28. **Photomicrograph of the vaginal mucosa.** X180.

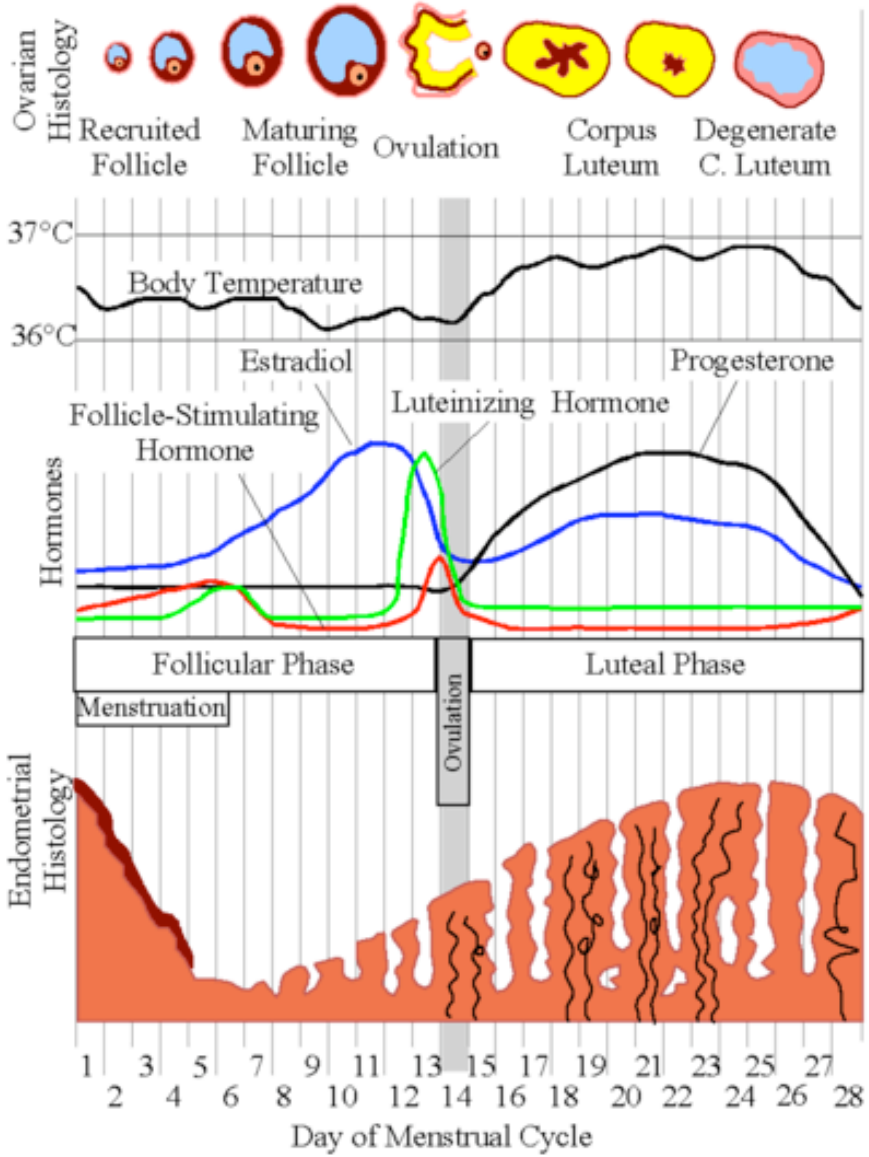
Copyright © 2003 Lippincott Williams and Wilkins

Stages of the Uterine (Menstrual) Cycle

Menstrual phase (Week 1) – detachment and shedding of functional layer and blood

Proliferative phase (Week 2) – rebuilding of functional layer; ovulation at the end (Day 14)

Secretory phase (Weeks 3-4) – preparation for implantation of embryo; ↑ endometrial gland activity



(Average values. Durations and values may differ between different females or different cycles.)

…and now you know.