



GENITOURINARY 545TEM

SUBJECT: Anatomy

LEC NO.: Lab 4

DONE BY: Batool ALzubaidi

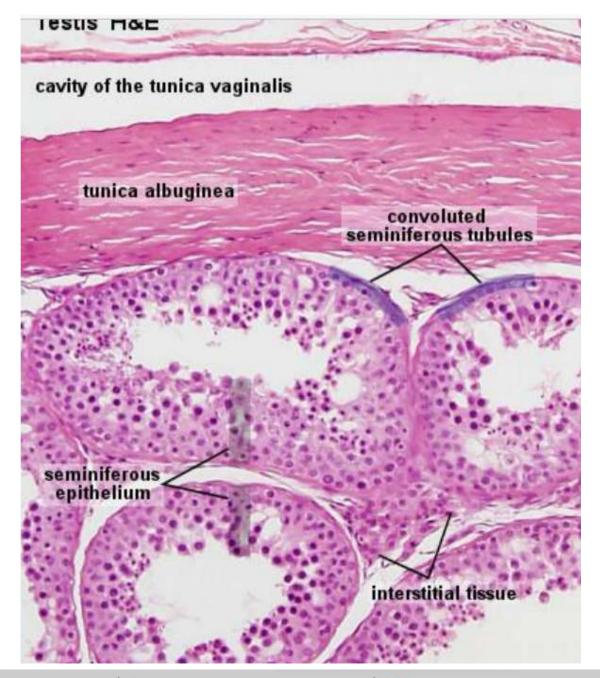
و قال سازدنی الما

The practical of Genital system

Testis

Identify the following

- Tunica vaginalis
- Tunica albuginea
- Seminiferous tubule
- Interstitial tissue Interstitial cell of leydig











Testis

Identify the following

• Myoid cells -> Flat cells

• **Spermatogonia** → Usually at the base

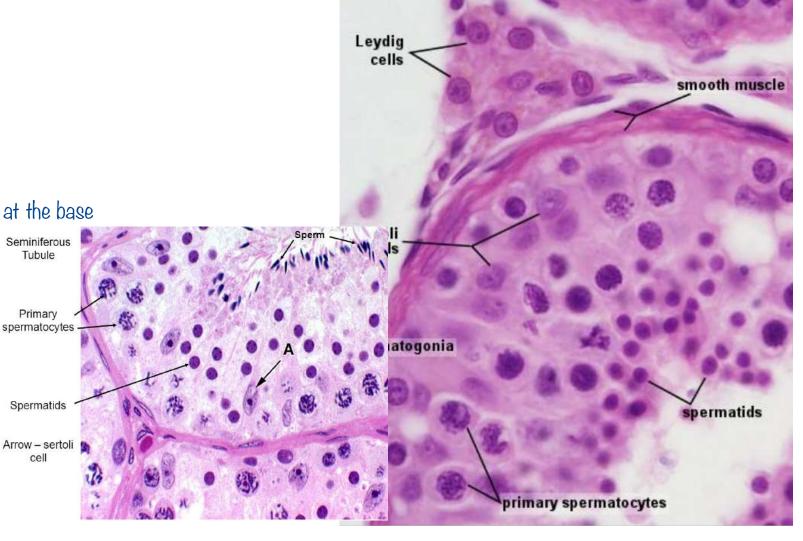
• Primary spermatocyto

Spermatid

• Spermatozoa

Sertoli cells

• Interstitial cells of Lyc

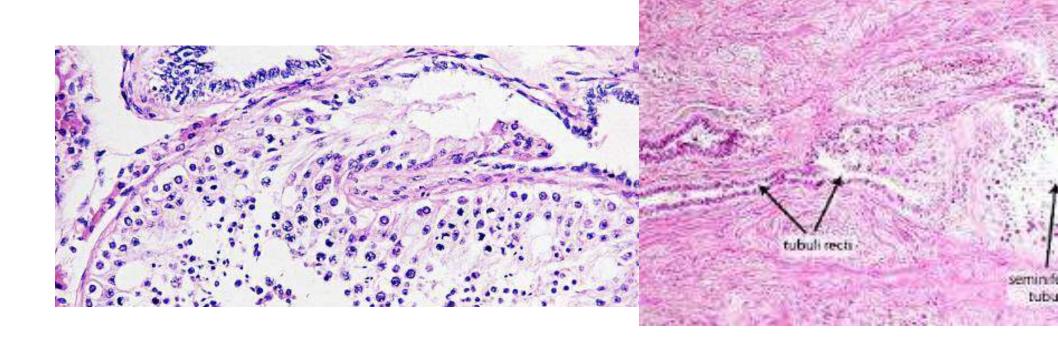


rete testis بنشوفهم جنب ال

- Sortoli cells → cuboidal epithelium

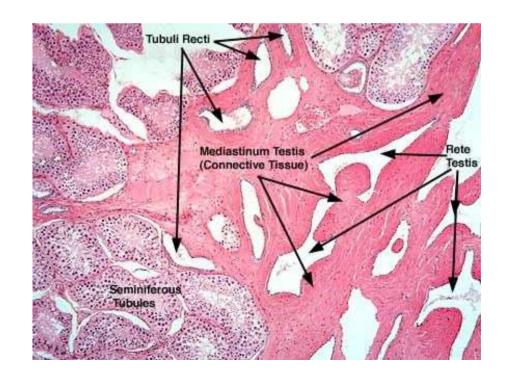
- Notice the seminiferous tubule ends with tubuli recti
- Appreciate the type of epithelium lining straight tubules

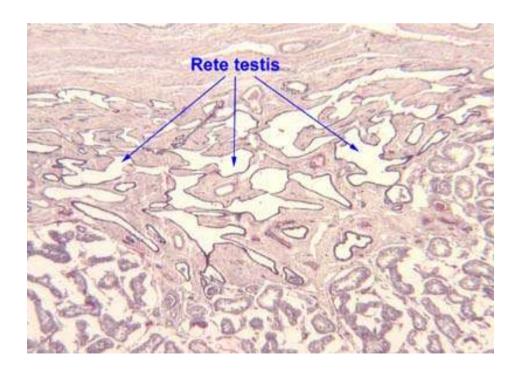
Simple cuboidal epithelium



Rete Testis

- Notice the interconnected channels with irregular lumens
- They are found in dense connective tissue (Mediastinum Testis)





Efferent Tubules

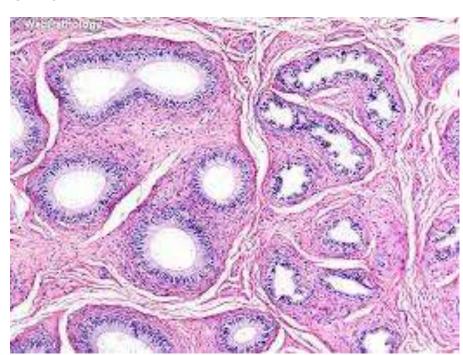
Appreciate

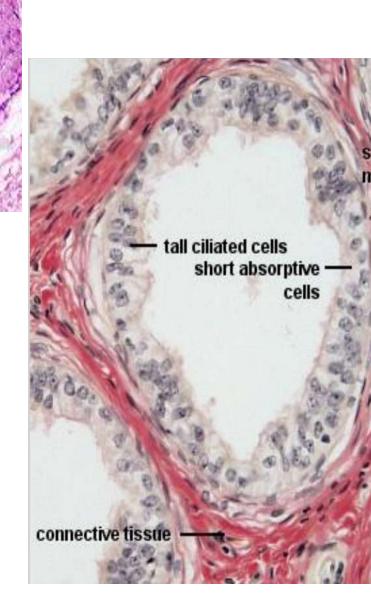
Type of epithelium and cel

• Irregular epithelium

Ciliated and non ciliated cuboidal epithelium

They absorb water and with it they more the sperms into the ejaculatory duct





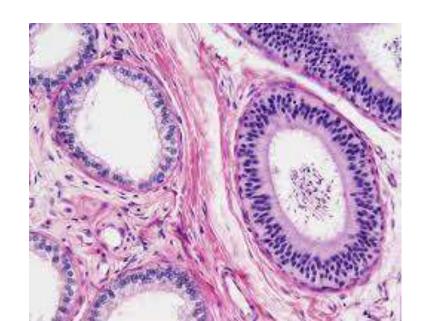


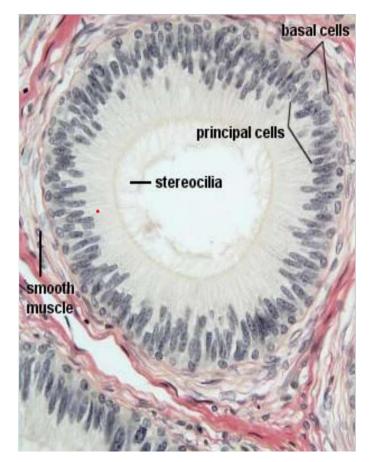
Appreciate the following:

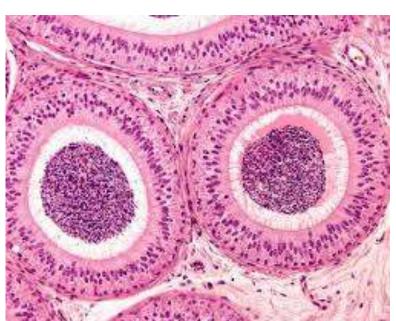
• Type of epithelium - Pseudostratified ciliated columnar

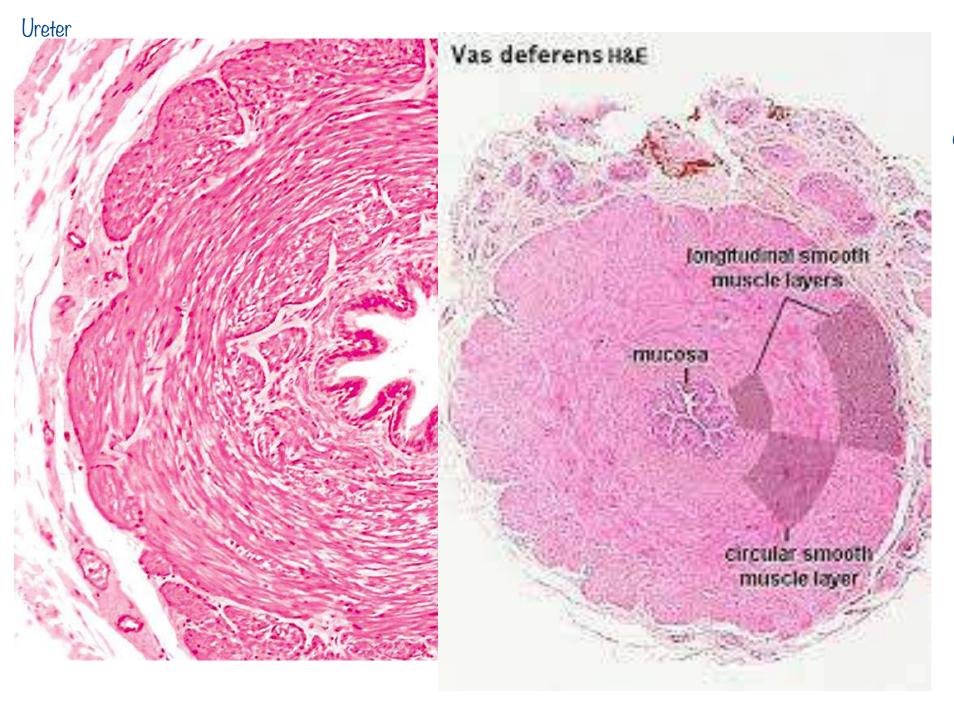
Regular

- Shape of lumen
- Stereocilia
- Smooth muscles







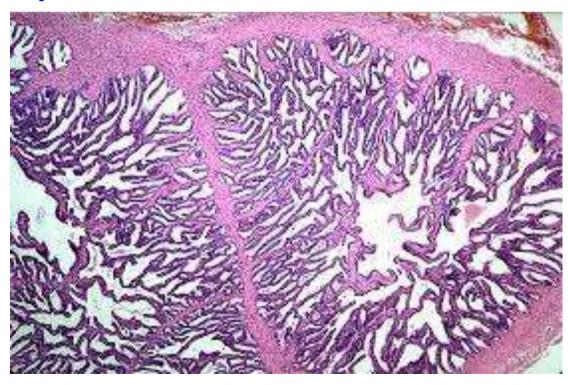


muscular بنفرق بينهم من البه muscular بنفرق بينهم من البه epithelium و من نوع البه ayer تذكروا البه ureter نوعه transitional

Seminal Vesicle

- Surrounded by dense connective tissue capsule
- Notice excessive epithelial foldings
- Distinguish two smooth muscle layers in muscularis



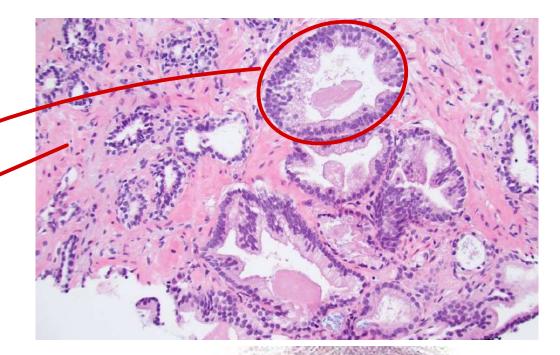


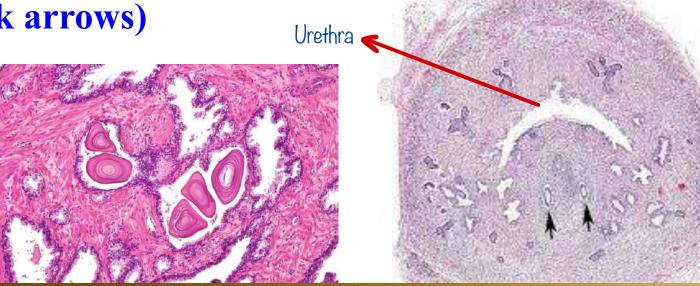
The Prostate Gland

Notice

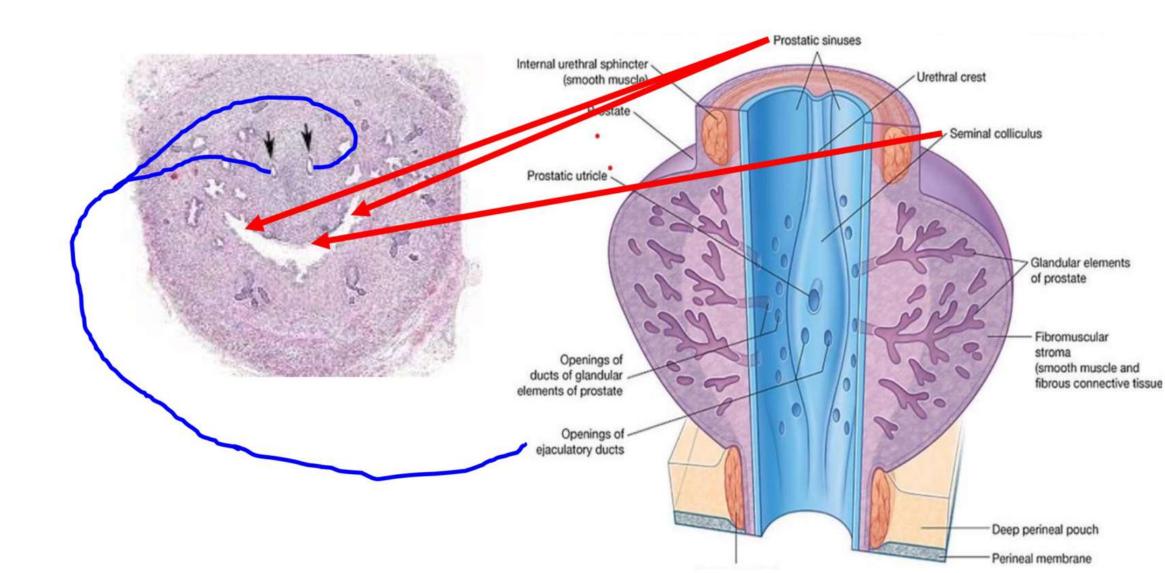
- The tubuloalveolar glands
- Fibromuscular tissue
- Prostatic urethra
- Ejaculatory ducts (black arrows)
- The epithelial lining
- Corpora amylacia

Discriminated epithelial cells later on will be calcified





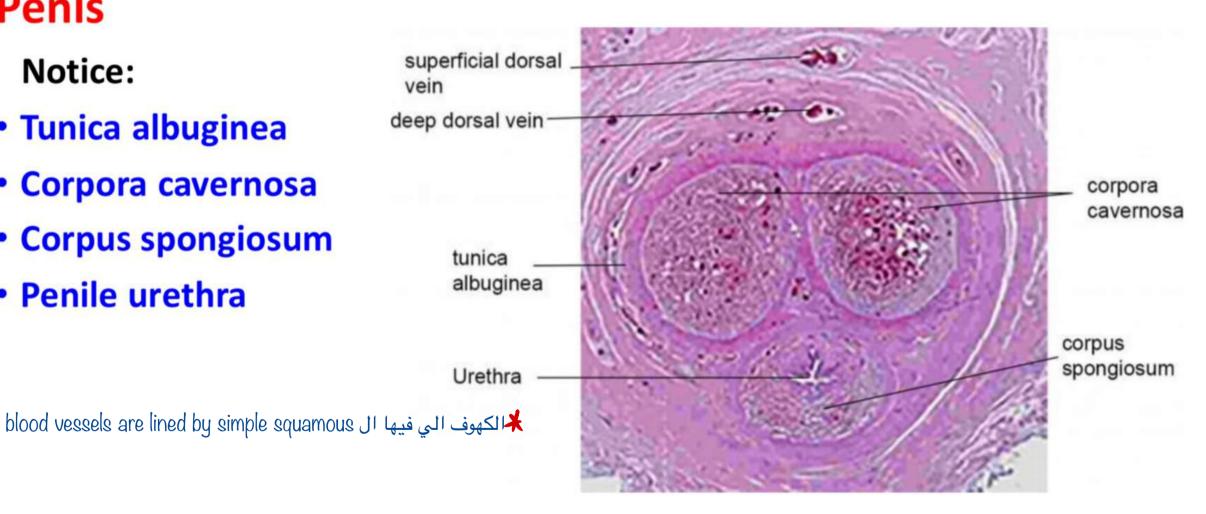
The Prostate Gland



Penis

Notice:

- Tunica albuginea
- Corpora cavernosa
- Corpus spongiosum
- Penile urethra

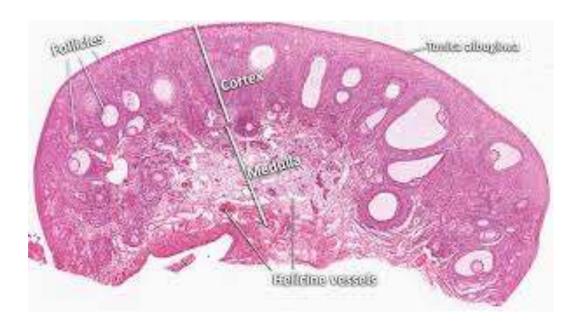


The Ovary

Consists of:

- Cortex filled with follicles
- Filled with blood vessels
- Medulla filled with connective tissue
- Covered by germinal epithelium
- Tunica albuginea

Cuboidal



The cortex of ovary

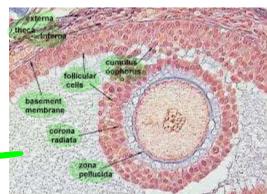
Notice ⊀ Follicular cells → simple squamons

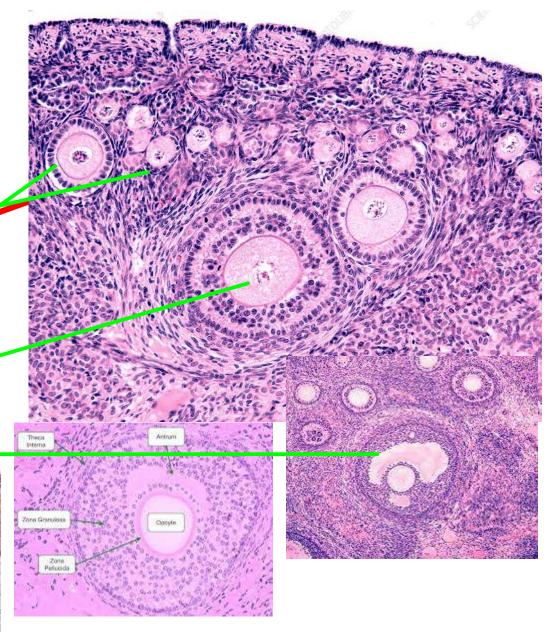
• Germinal epithelium Follicular cells + oocyte

- Tunica albuginea
- Primordial follicles -
- Primary follicle (unilamellar)
- Primary follicle (multilamellar)
- Secondary follicle (antral)__

Multiple layers and spaces



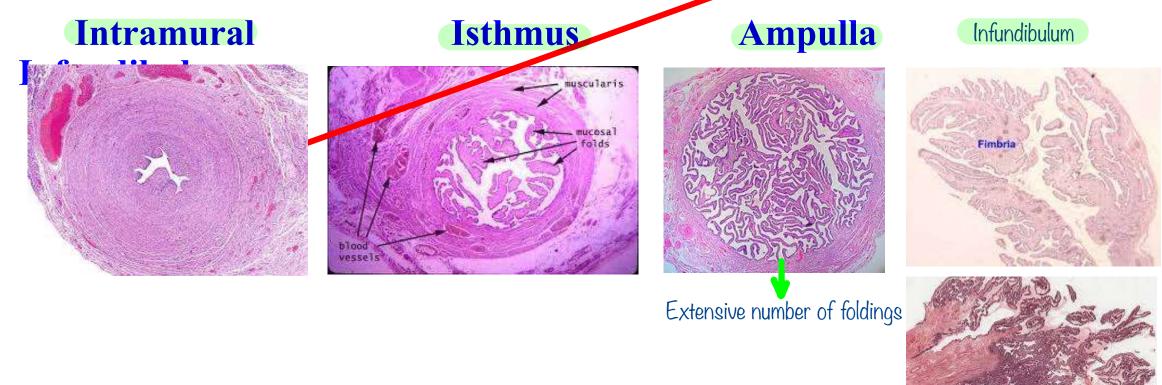




Uterine Tube

Identify the four regions of the oviduct:

Notice the complexity of folding of the lining mucosa

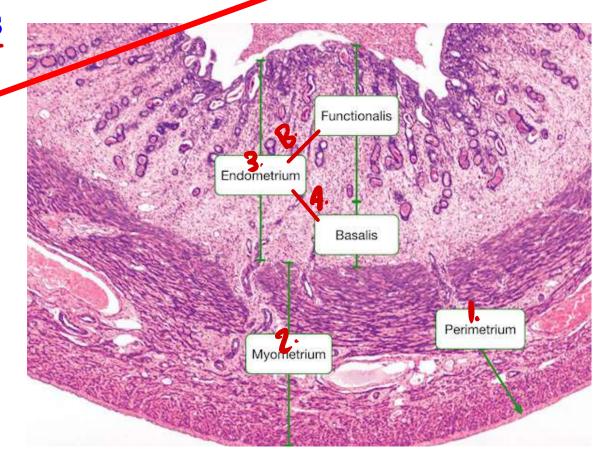


The Uterus

Notice

- Endometrium with the glands
- Basal and functional layers
- Myometrium
- Perimetrium

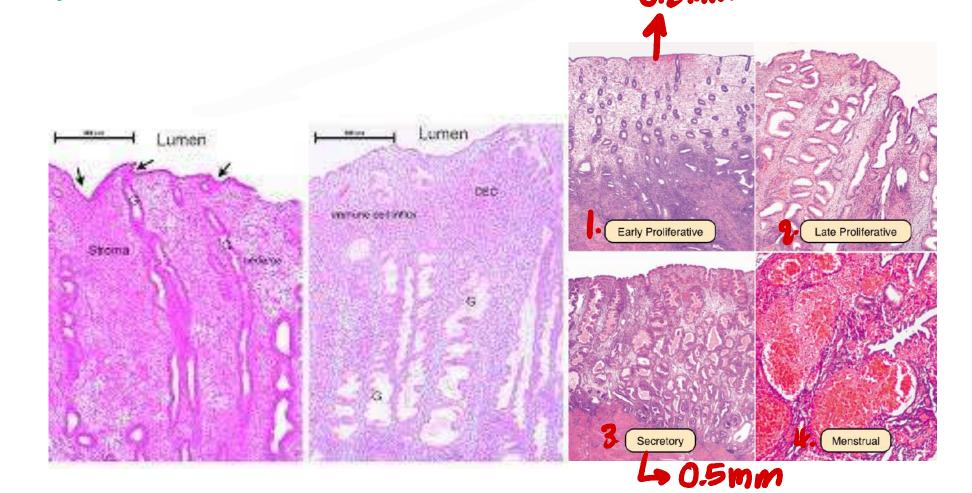




Endometrium during the menstrual cycle

• Notice the differences in the endometrium in relation to the menstrual cycle

0.2 mm



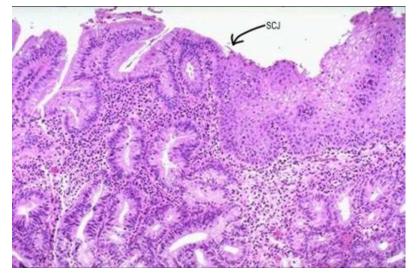
Few smooth muscles, high in collagen fibers The cervix of the Uterus

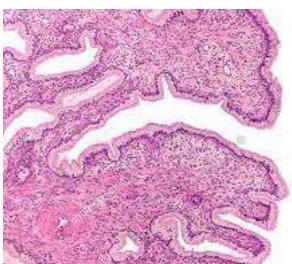
في البداية بكون زي ال uterus columnar بعدين بصير stratified equamous

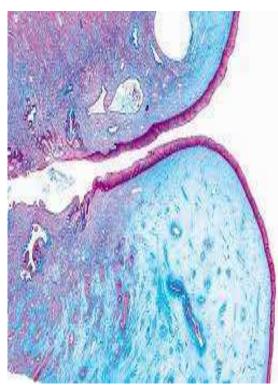
- The transition zone of epithelium
- The cervical glands

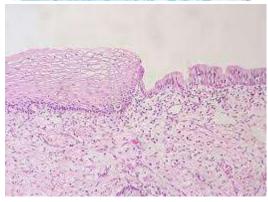
Notice

Secrete mucus









The Vagina

Notice:

- The layers of the vagina
- Type of epithelium
- No glands

