Female Reproductive System

Histology

BY
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Female Reproductive System

- **Ovary**
- **Uterine tube**
- **Uterus**
- **Vagina**

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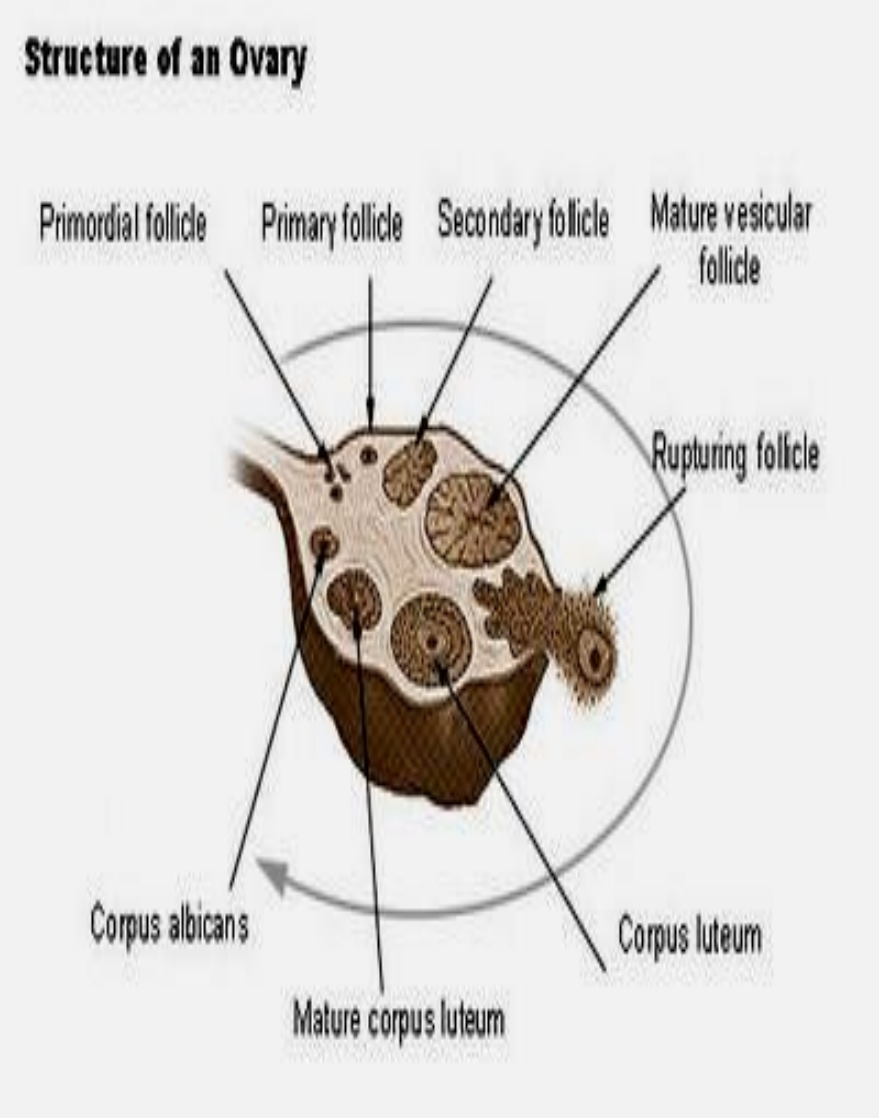
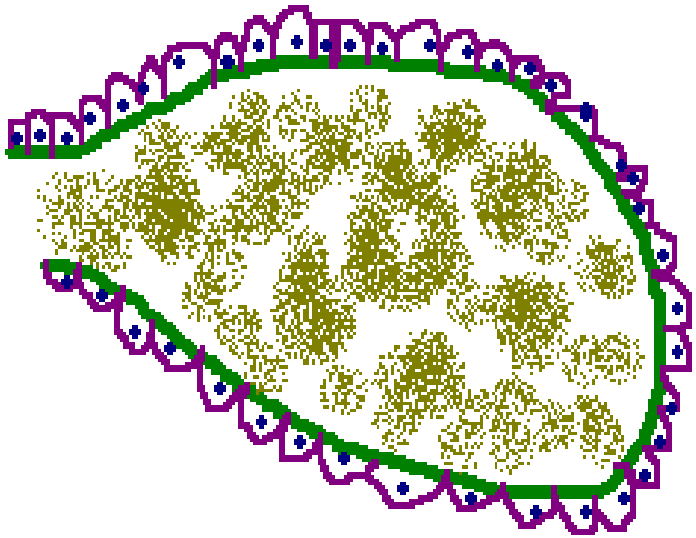
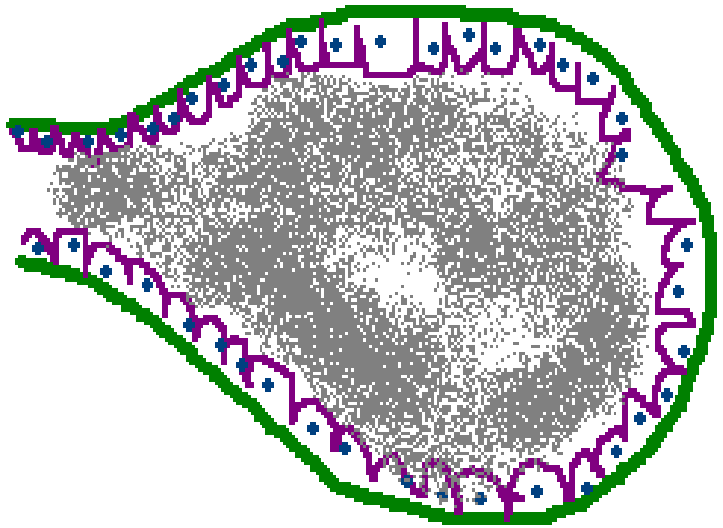
Ovary

- **Germinal Epithelium**
  - **cuboidal cells**
  - **Tunica albuginea**
- **Cortex**
  - **Primordial follicle**
  - **Primary follicle**
  - **Secondary(antral) follicle**
  - **Mature(Graafian) follicle**
  - **Atretic follicle**
  - **Corpus luteum**
  - **Corpus albicans**
- **Medulla**
  - **Connective tissue**
  - **Vessels**

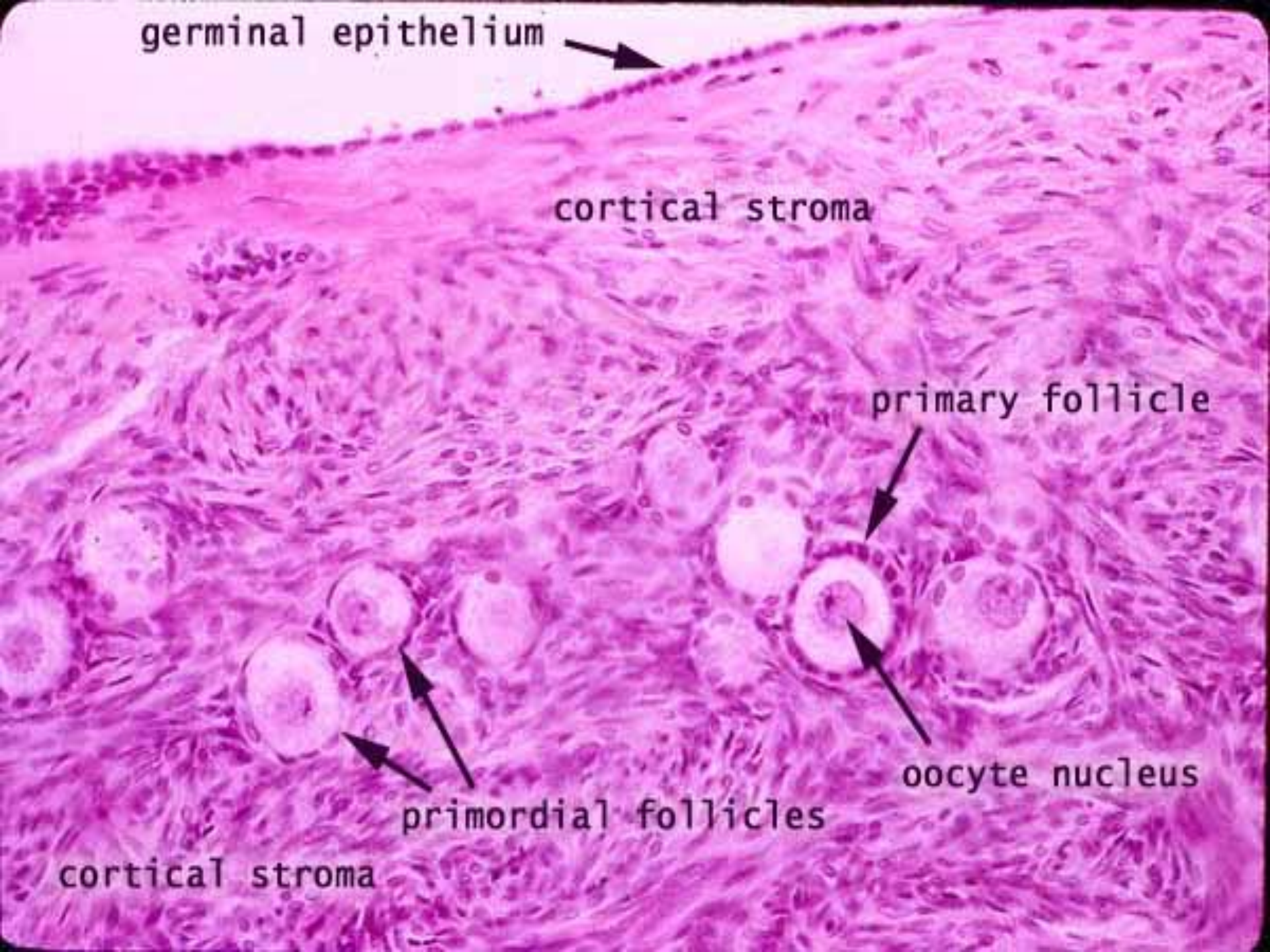


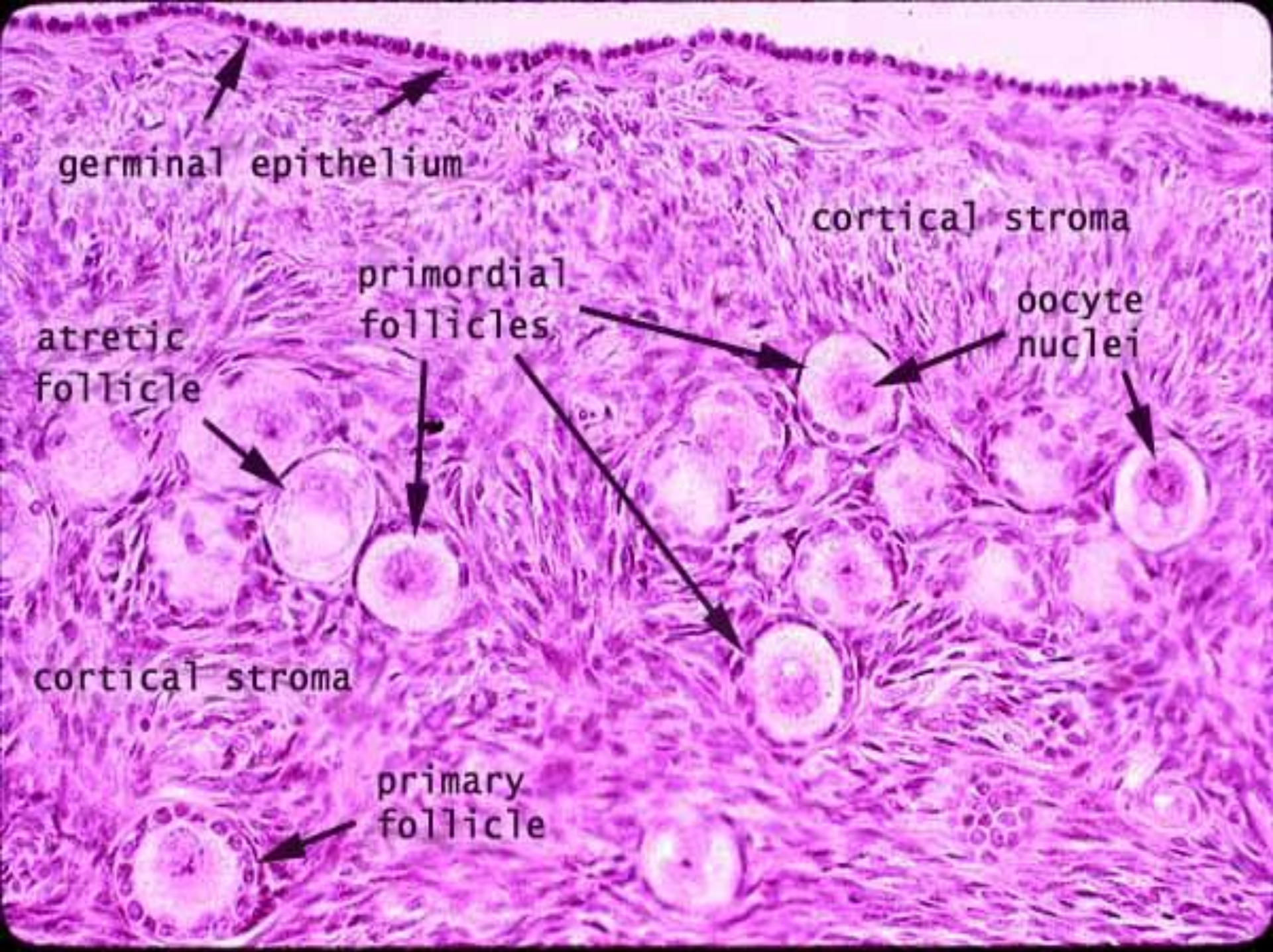


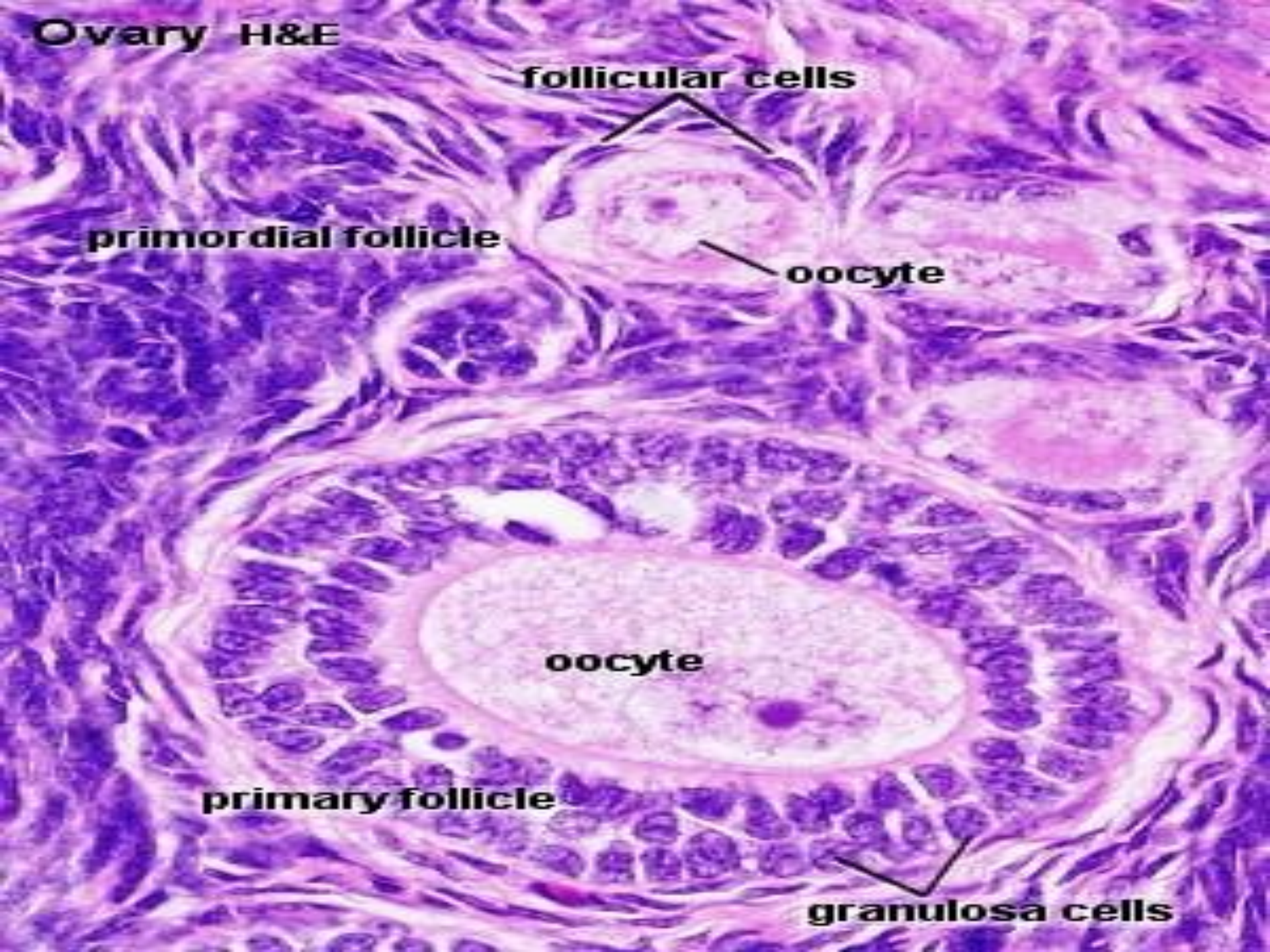
Ovary germinal epithelium

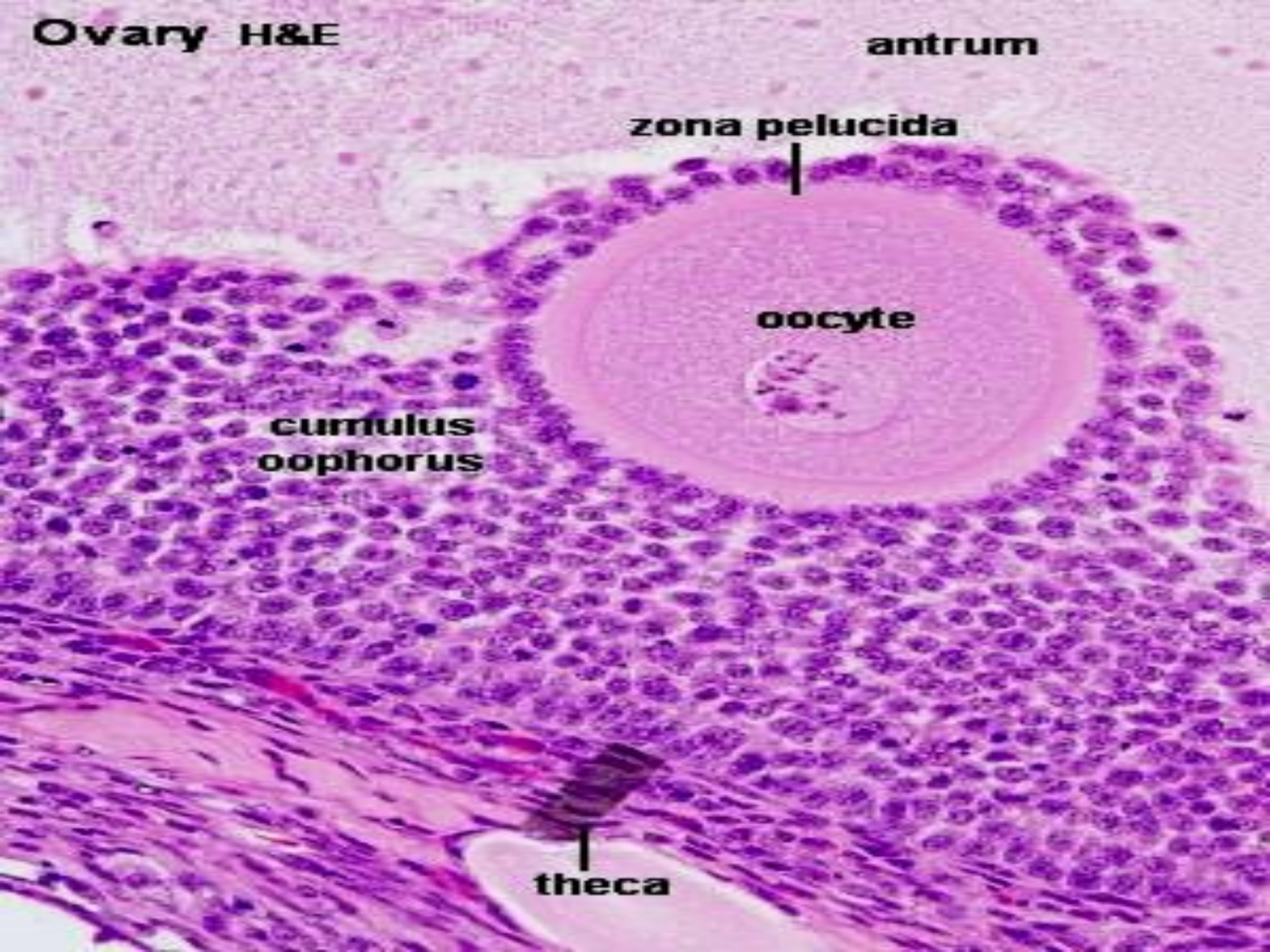


Normal germinal epithelium

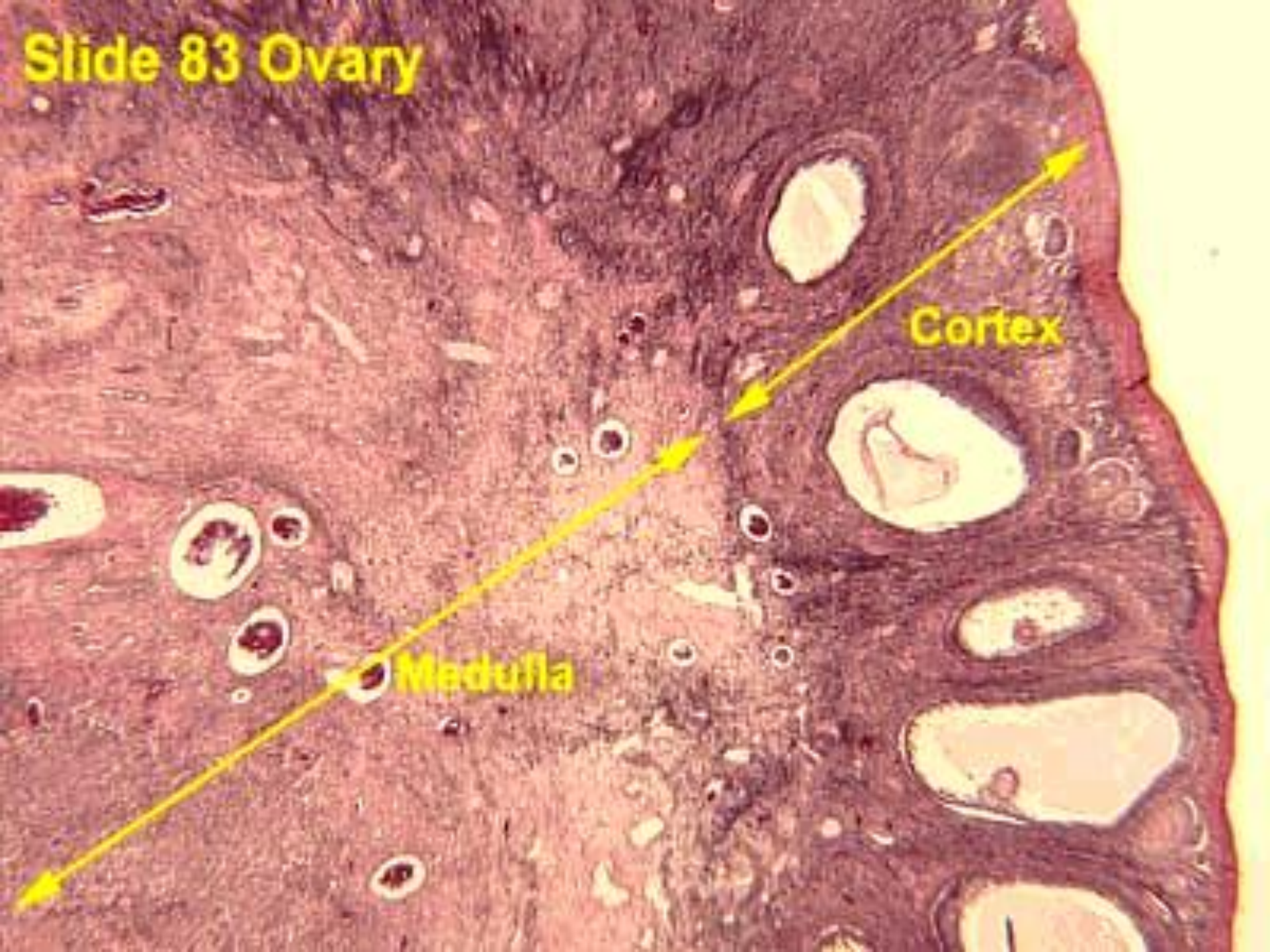

germinal epithelium
cortical stroma
primary follicle
oocyte nucleus
primordial follicles
cortical stroma

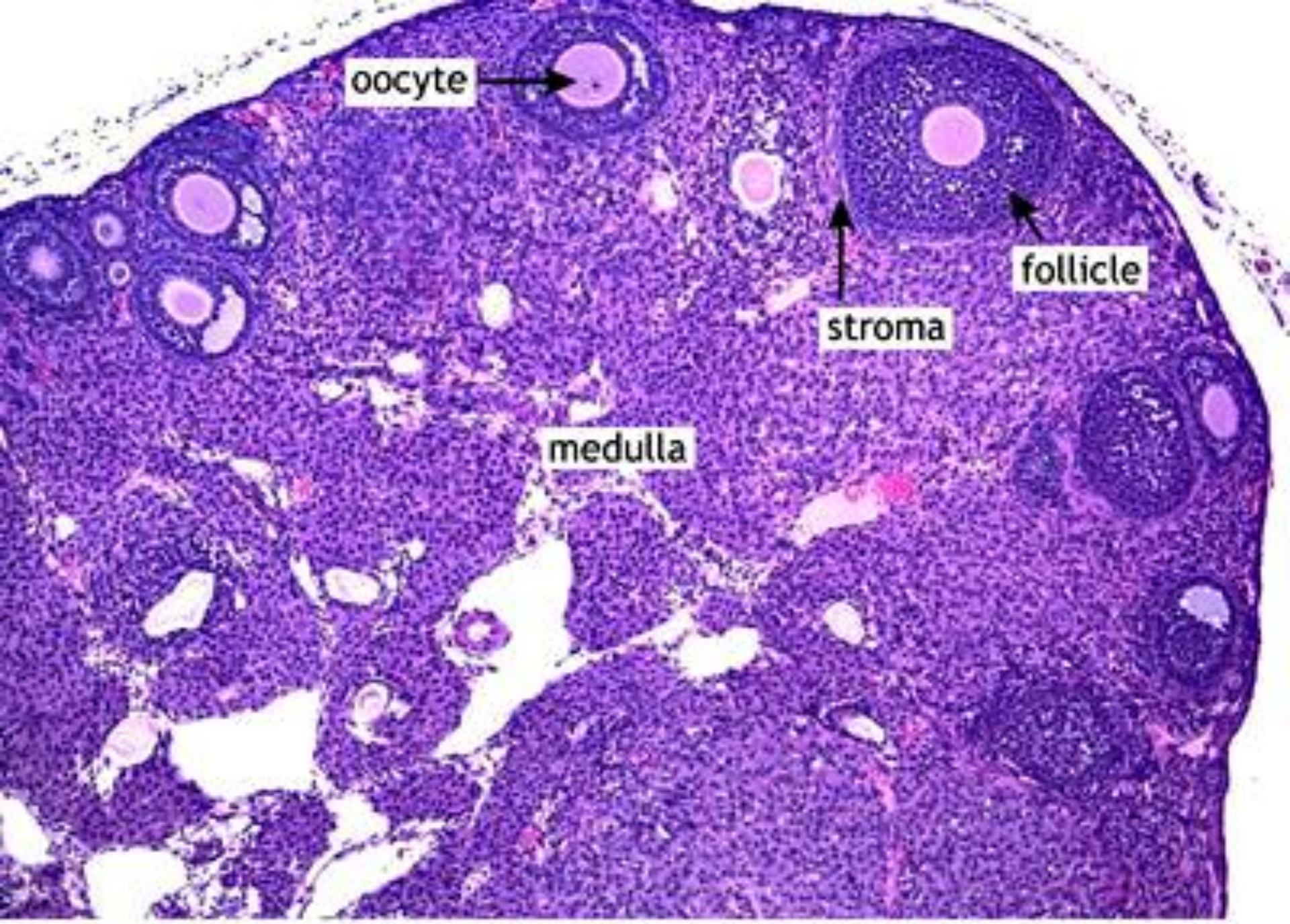

germinal epithelium
cortical stroma
primordial follicles
oocyte nuclei
atretic follicle
cortical stroma
primary follicle


Ovary H&E
follicular cells
primordial follicle
oocyte
oocyte
primary follicle
granulosa cells


Ovary H&E
antrum
zona pelucida
oocyte
cumulus
oophorus
theca

2.00 mm


Slide 83 Ovary
Cortex
Medulla



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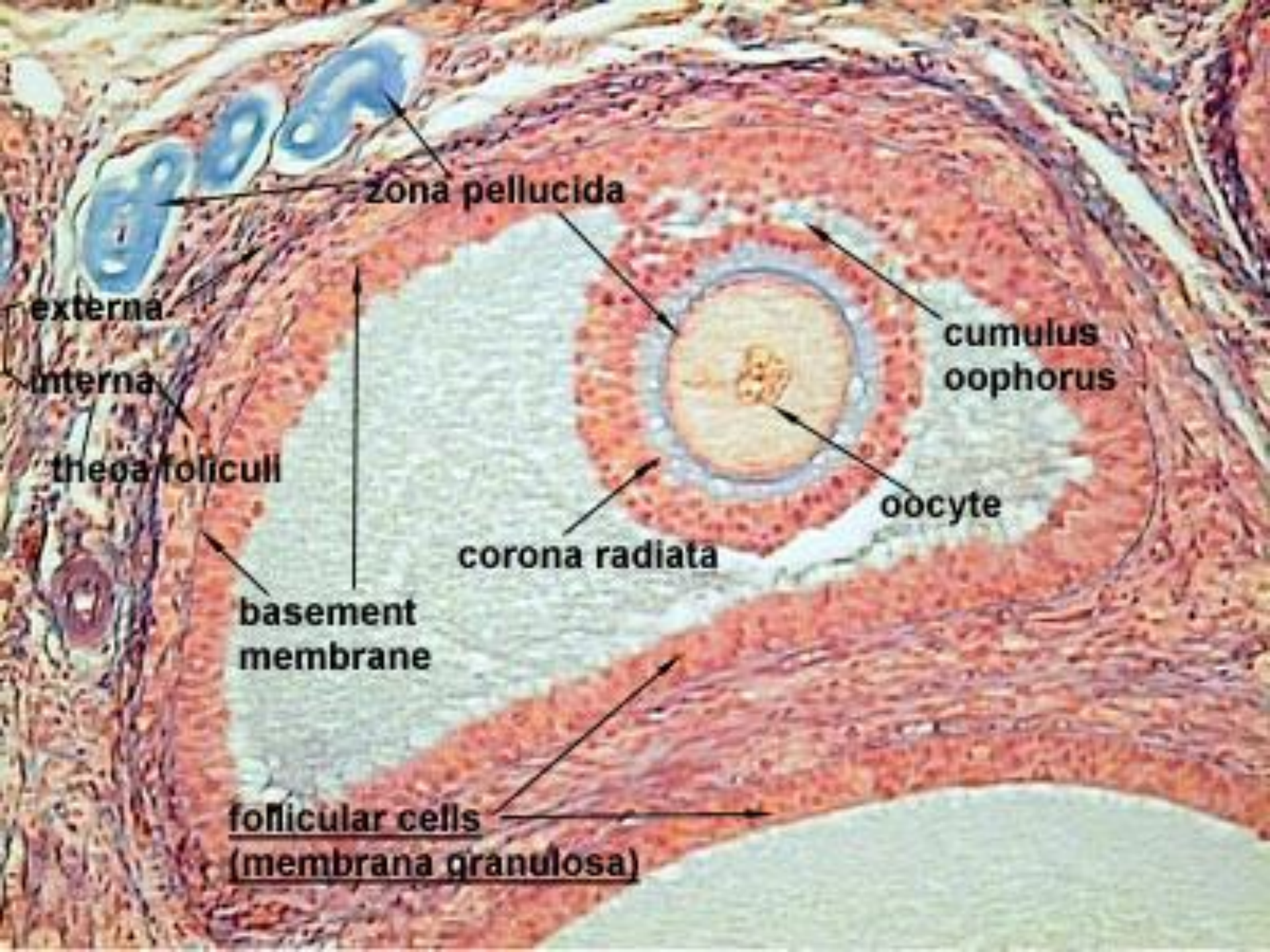
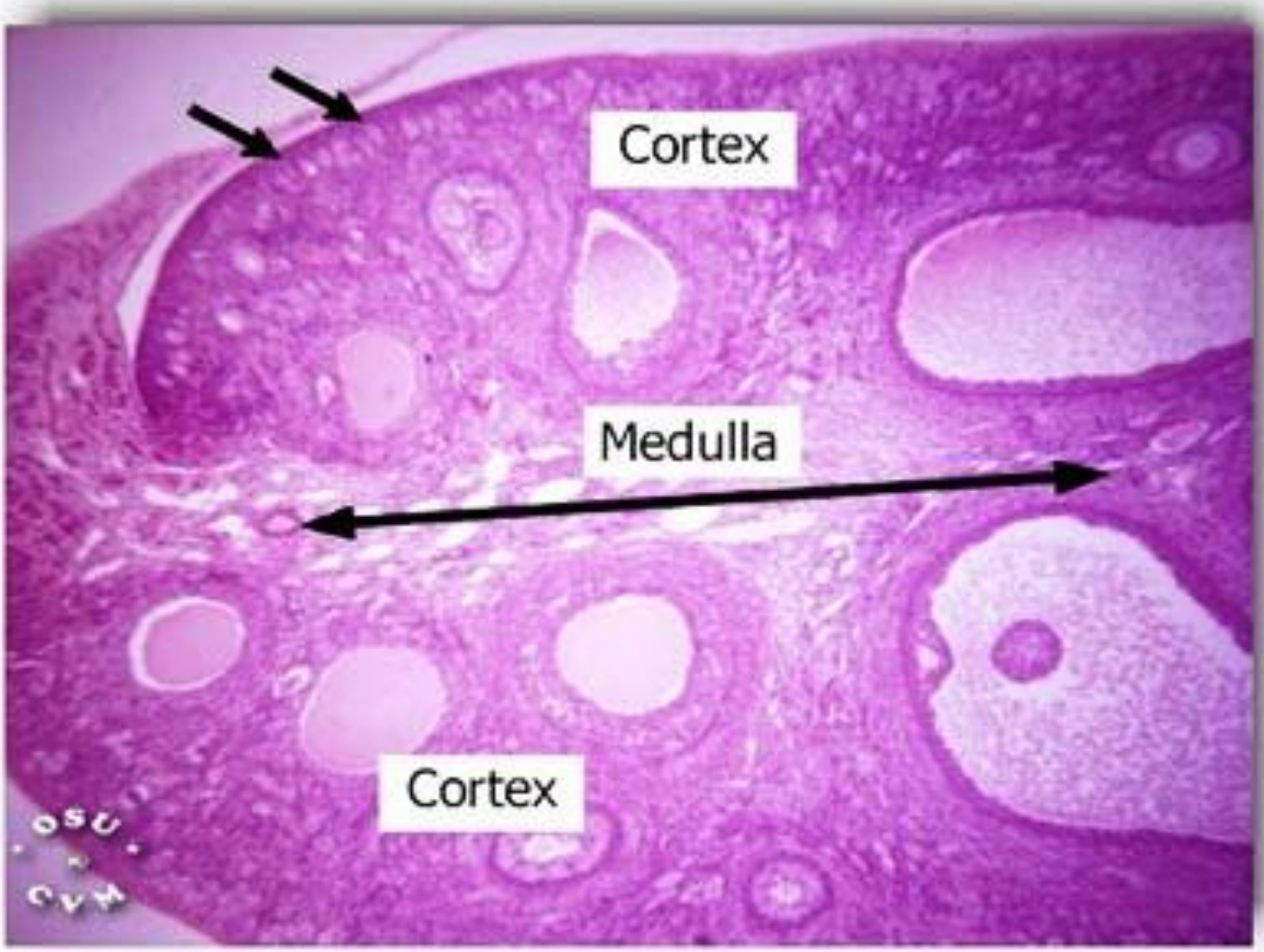
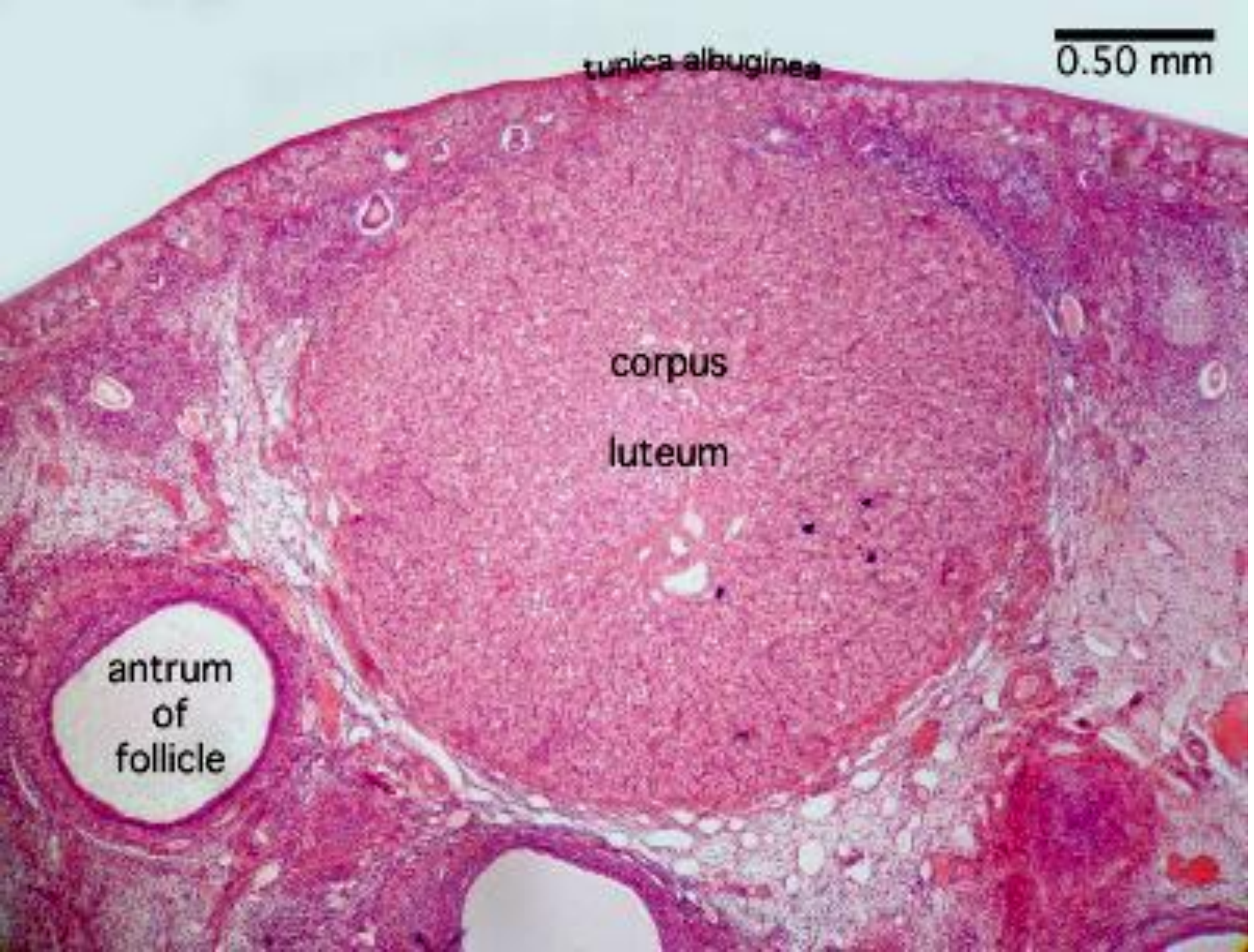

zona pellucida
externa
interna
theca folliculi
basement membrane
cumulus oophorus
oocyte
corona radiata
follicular cells
(membrana granulosa)

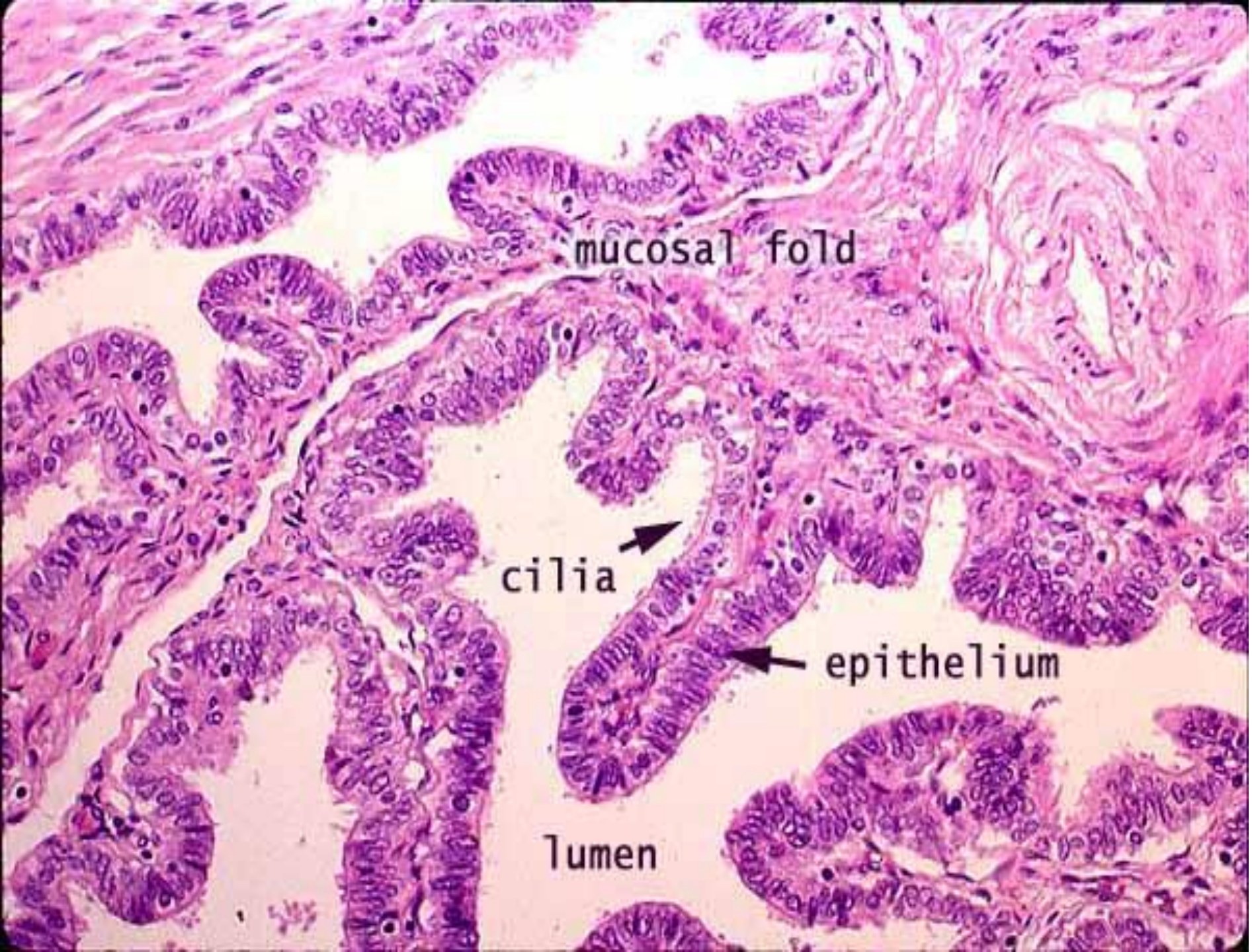

Cortex
Medulla
Cortex

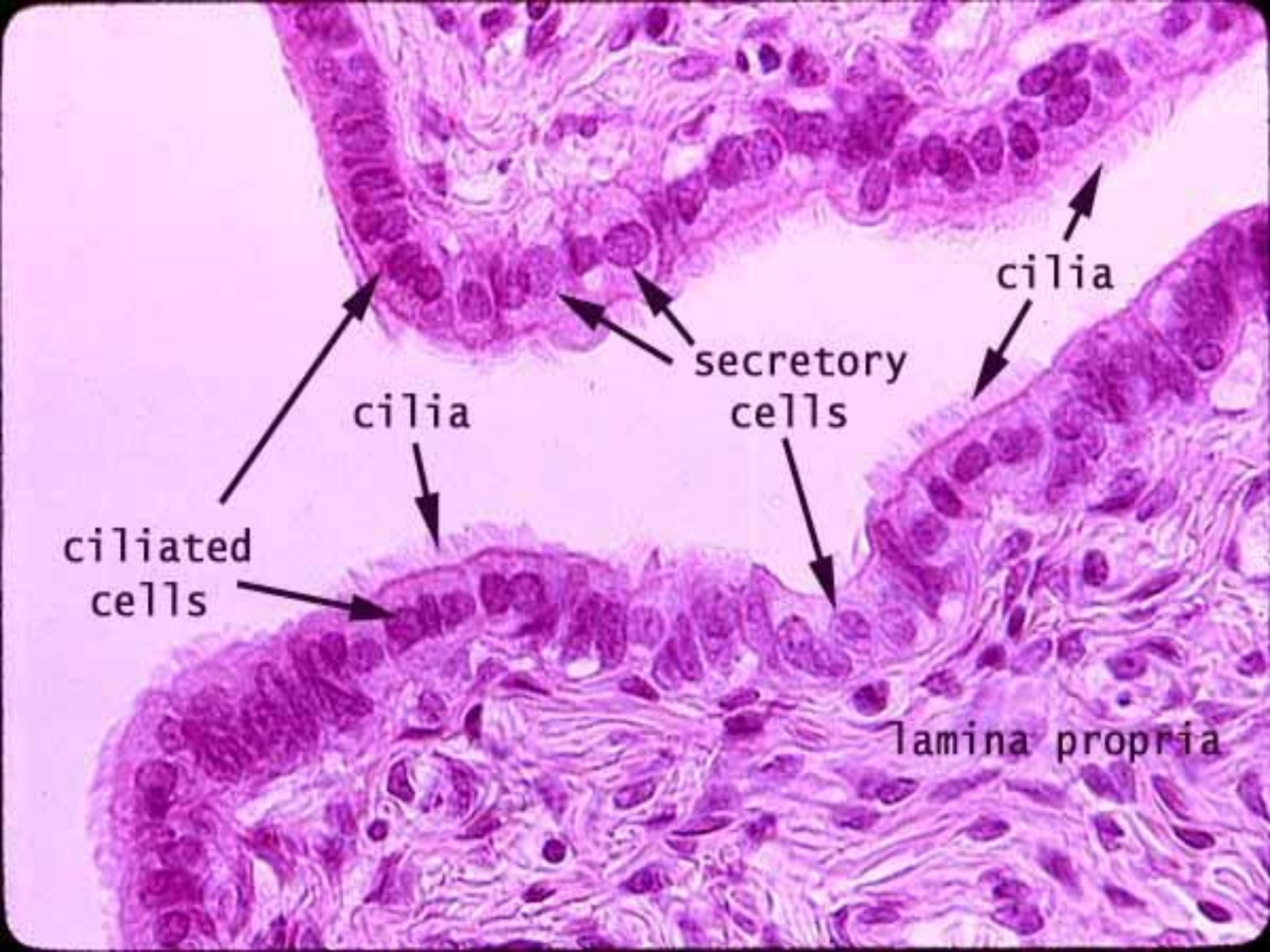

tunica albuginea
0.50 mm
corpus
luteum
antrum
of
follicle

Uterine tube

- **Mucosa**
- **-branching, irregular folds**
- **Epithelium**
- **Ciliated columnar and Non ciliated secretary cells**
- **Lamina propria**
- **Muscle layer**
- **Inner circular**
- **Outer longitudinal**
- **Serosa**

Oviduct H&E
serosa
muscularis
mucosa


mucosal fold
cilia
epithelium
lumen


cilia
secretory cells
cilia
ciliated cells
lamina propria

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Uterus

- **Perimetrium((Peritomiun)**

  -serous coat of mesothelium

- **Myometrium (muscles)**

  -ill-defined three layers of smooth muscles

  - Inner and outer- longitudinal

  - Middle circular (stratum vasculare)

- **Endometrium (Mucosa)**

  Epithelium

  -simple columnar cells

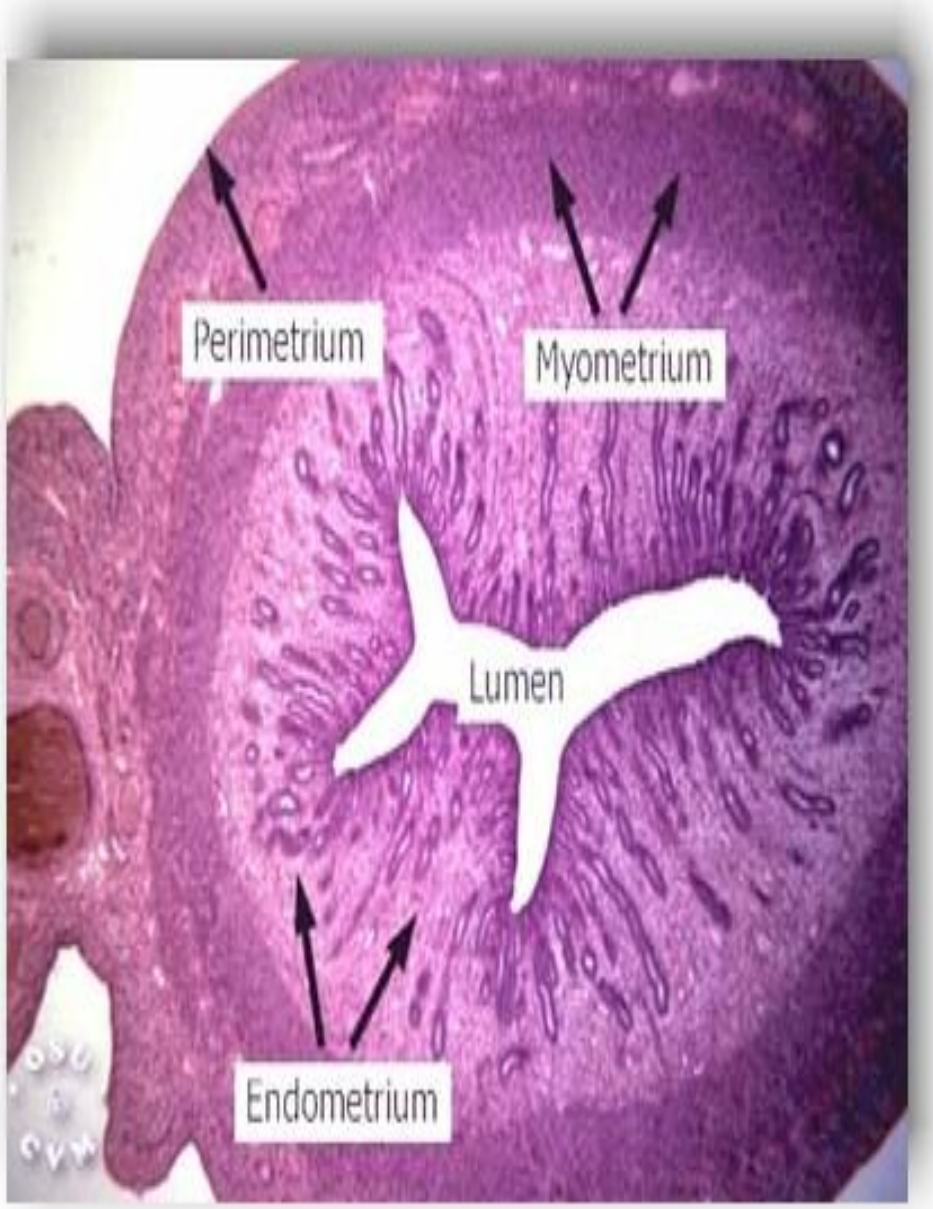
  Lamina propria

  - Uterine glands

  -Vessels

  - Basal arteries

  -Spiral arteries



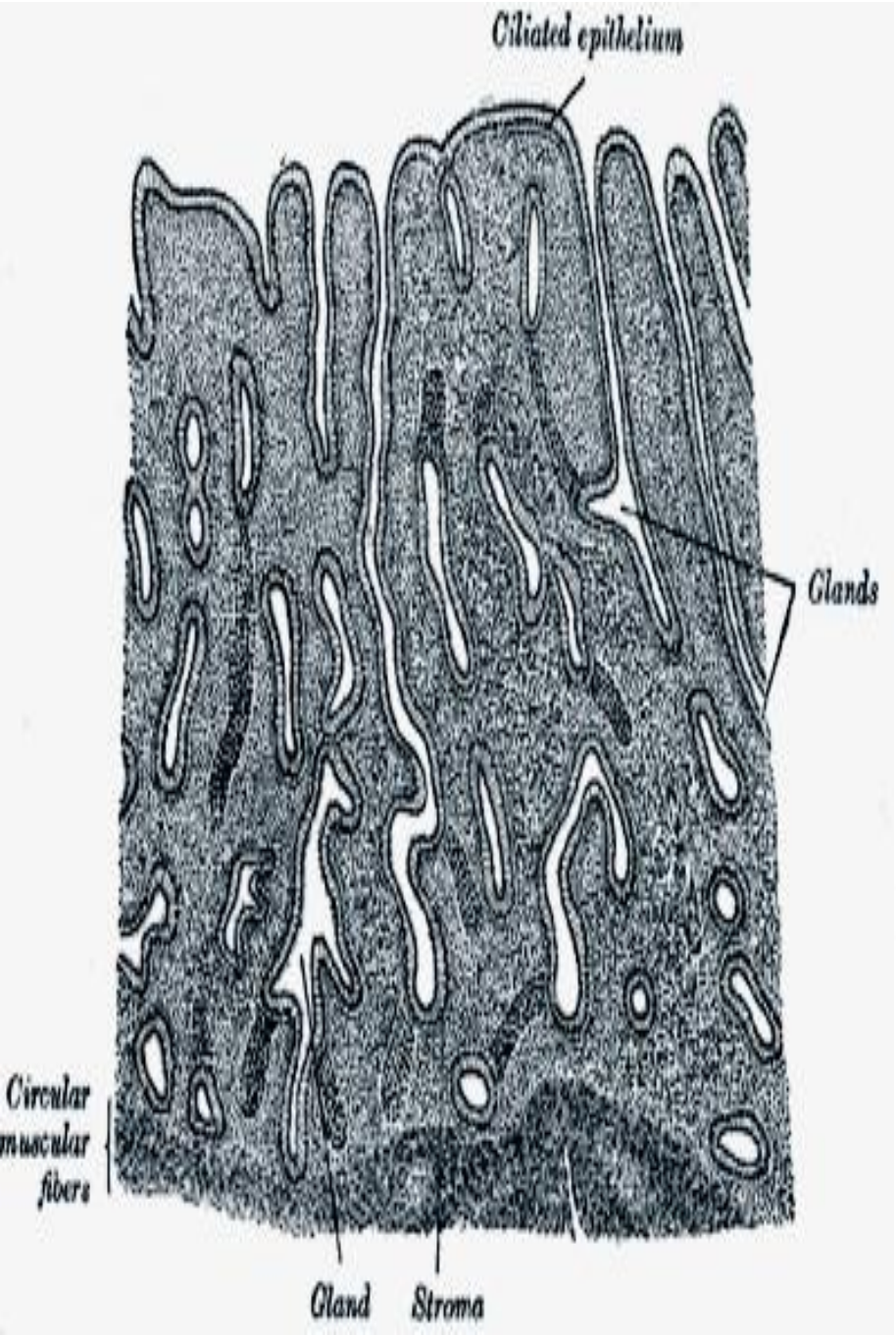
Endomatrium

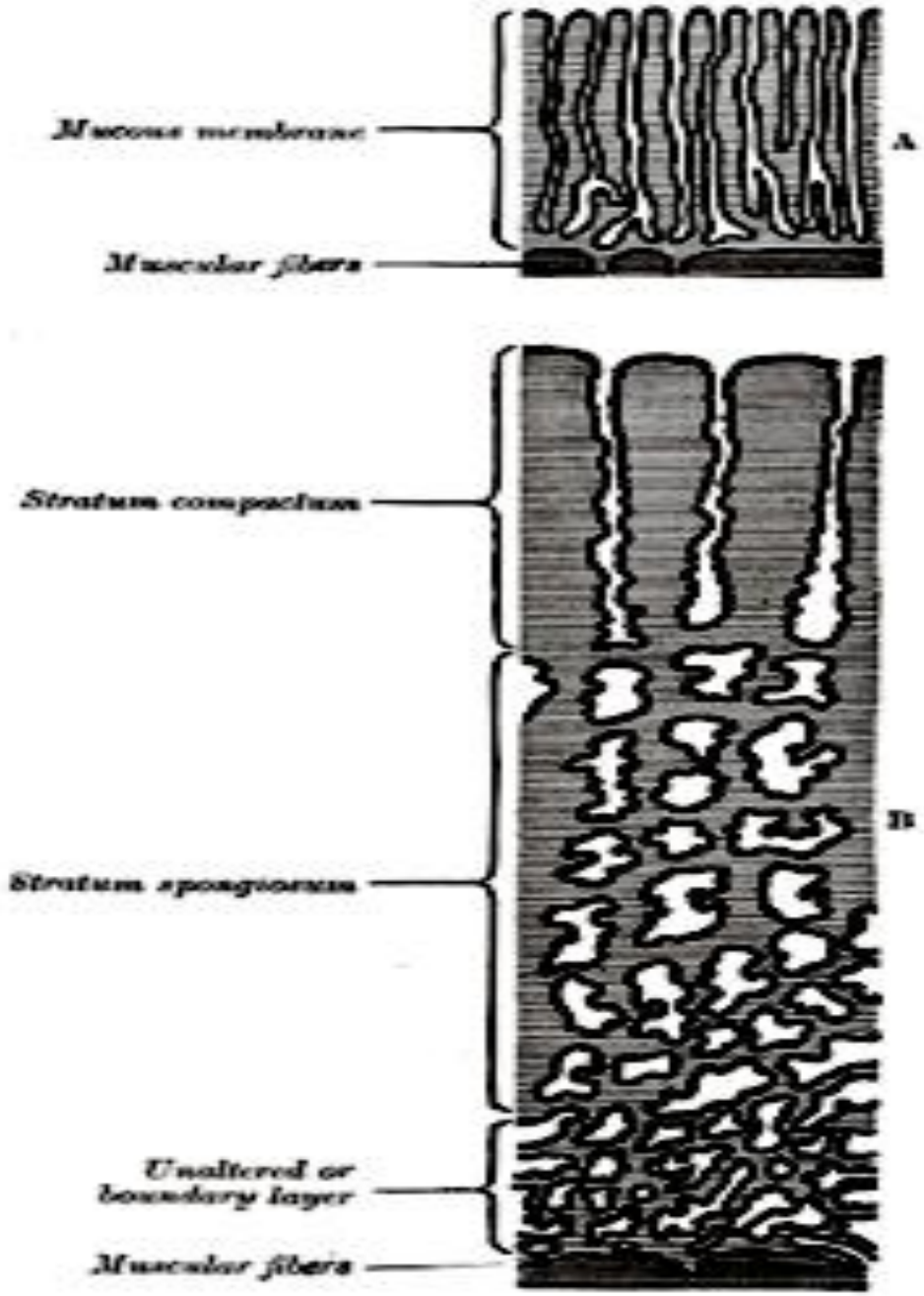
Stratum functionalis

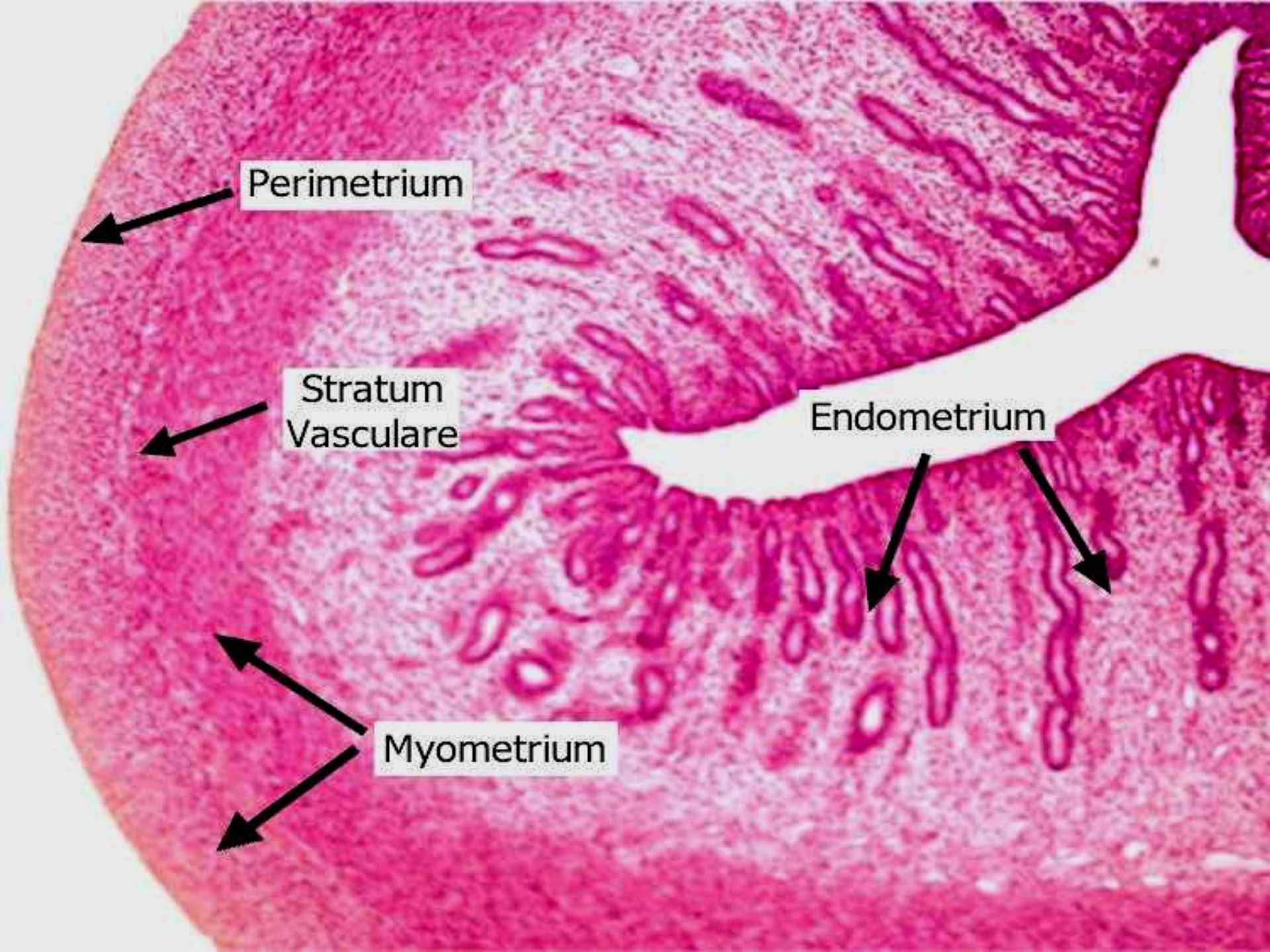
- Stratum compactum

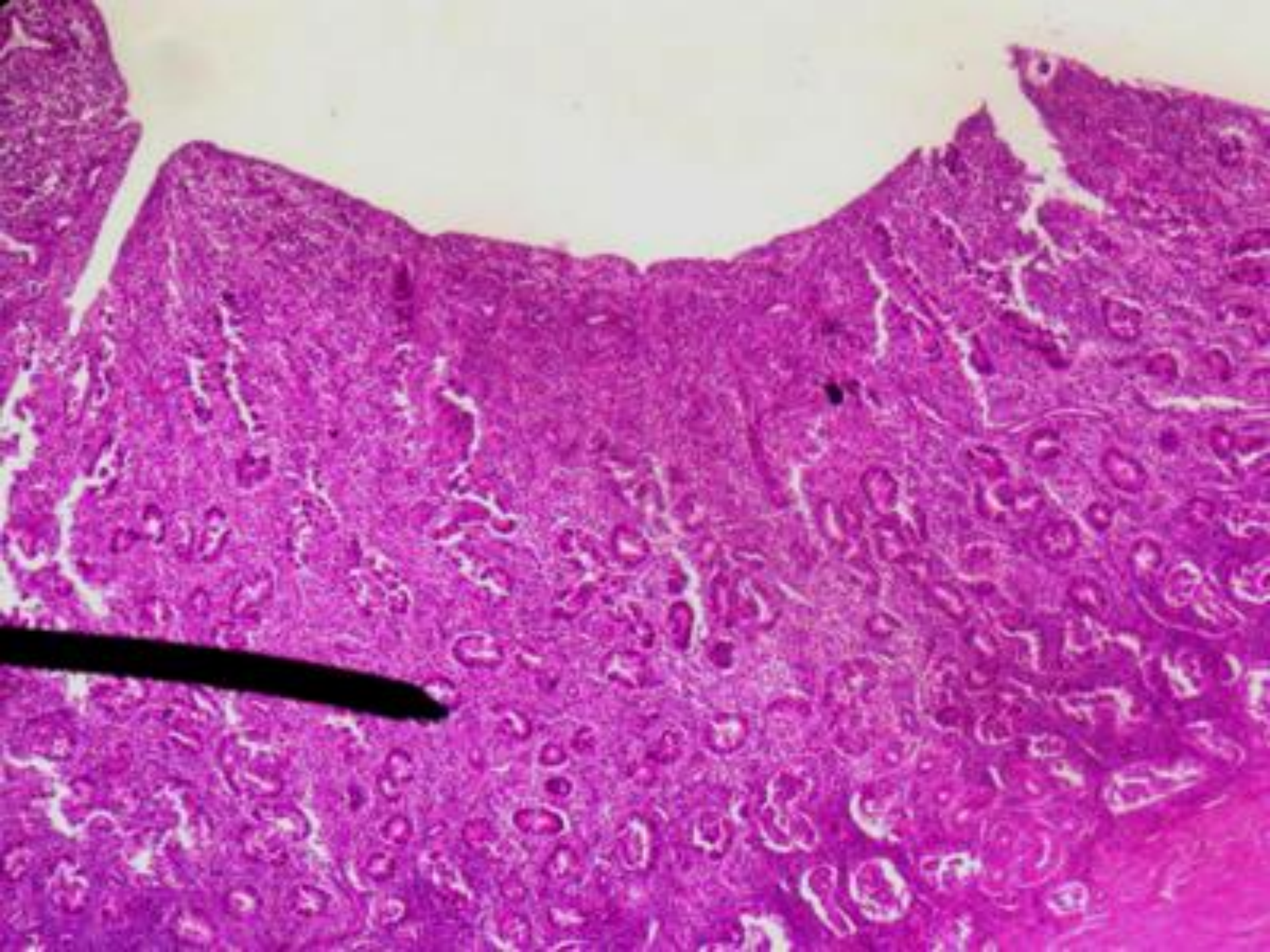
-Stratum songiosum

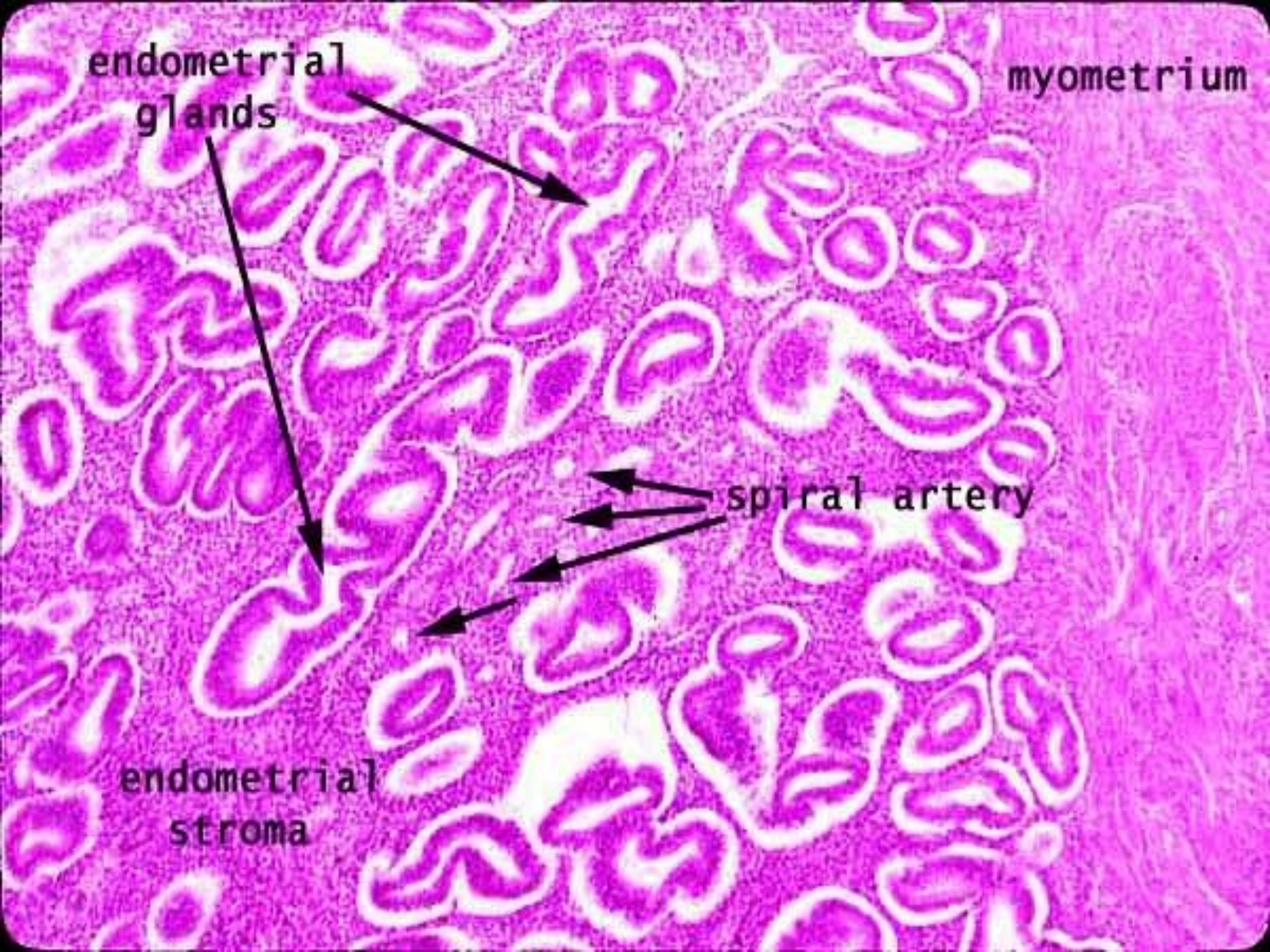
Stratum basalis


Ciliated epithelium
Glands
Circular muscular fibers
Gland
Stroma

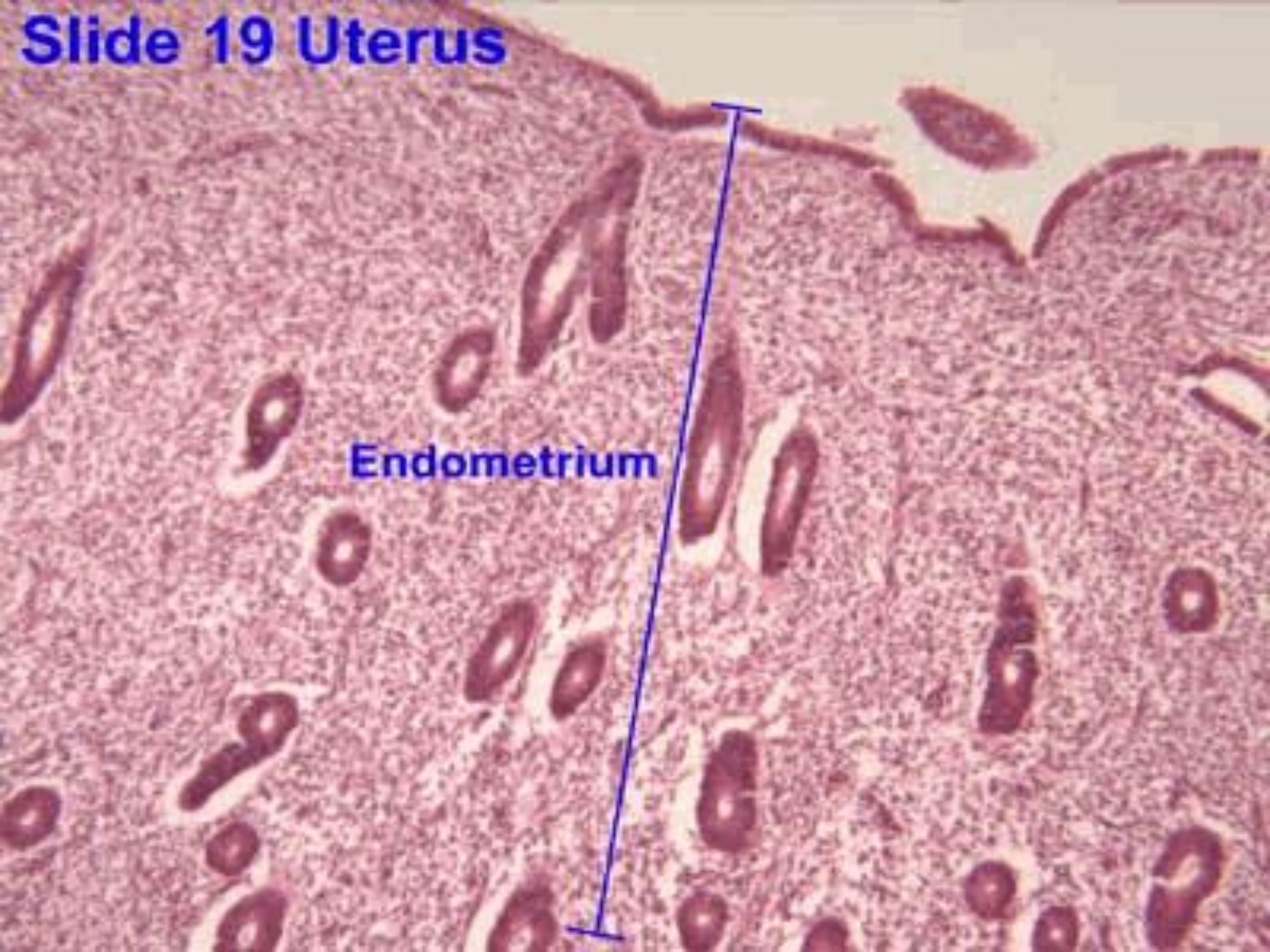

Mucous membrane
Muscular fibers
A
Stratum compactum
Stratum spongiosum
Unaltered or boundary layer
Muscular fibers
B


Perimetrium
Stratum
Vasculare
Endometrium
Myometrium

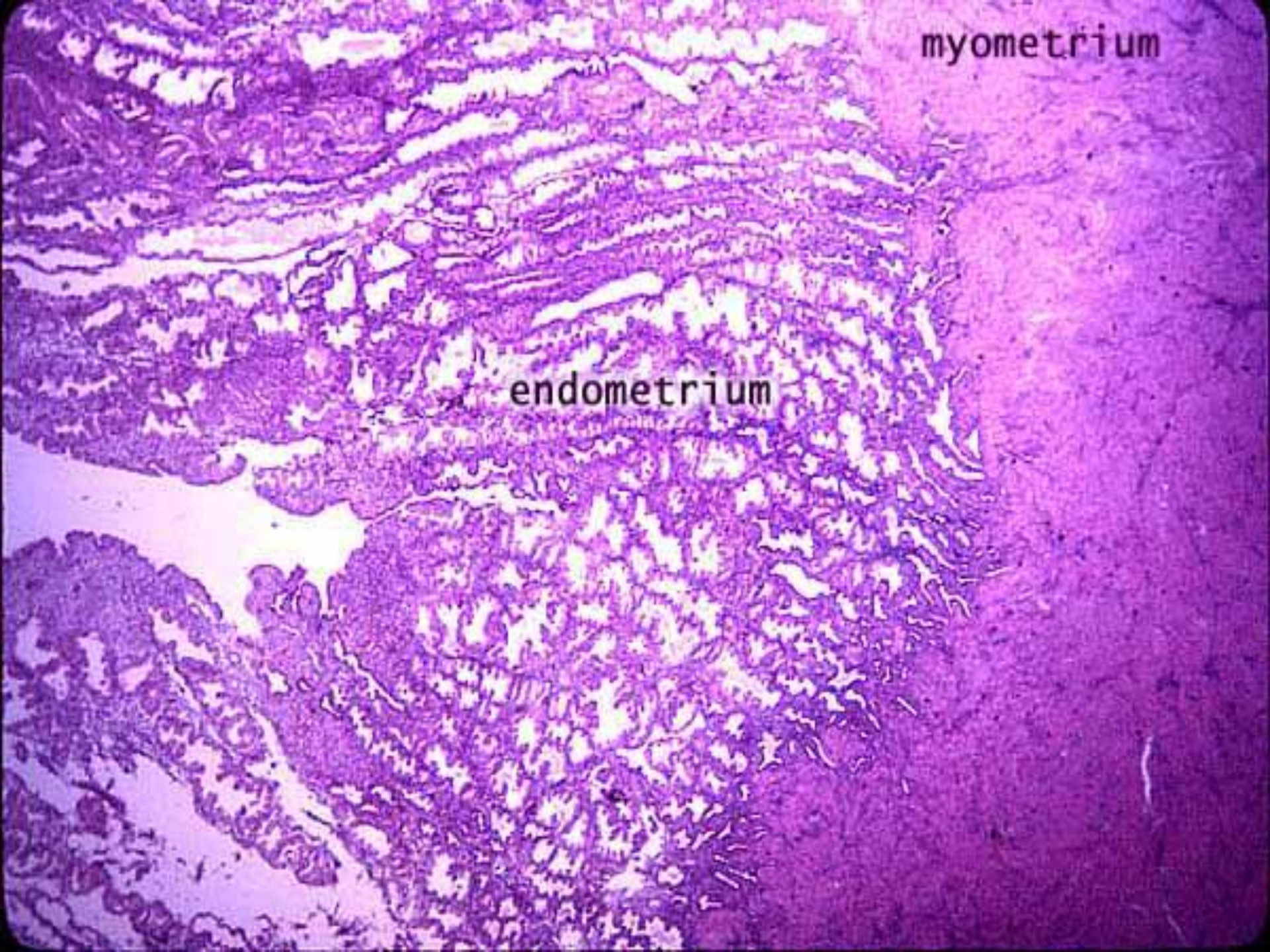



endometrial
glands
myometrium
spiral artery
endometrial
stroma

Slide 19 Uterus



Slide 20 Uterus

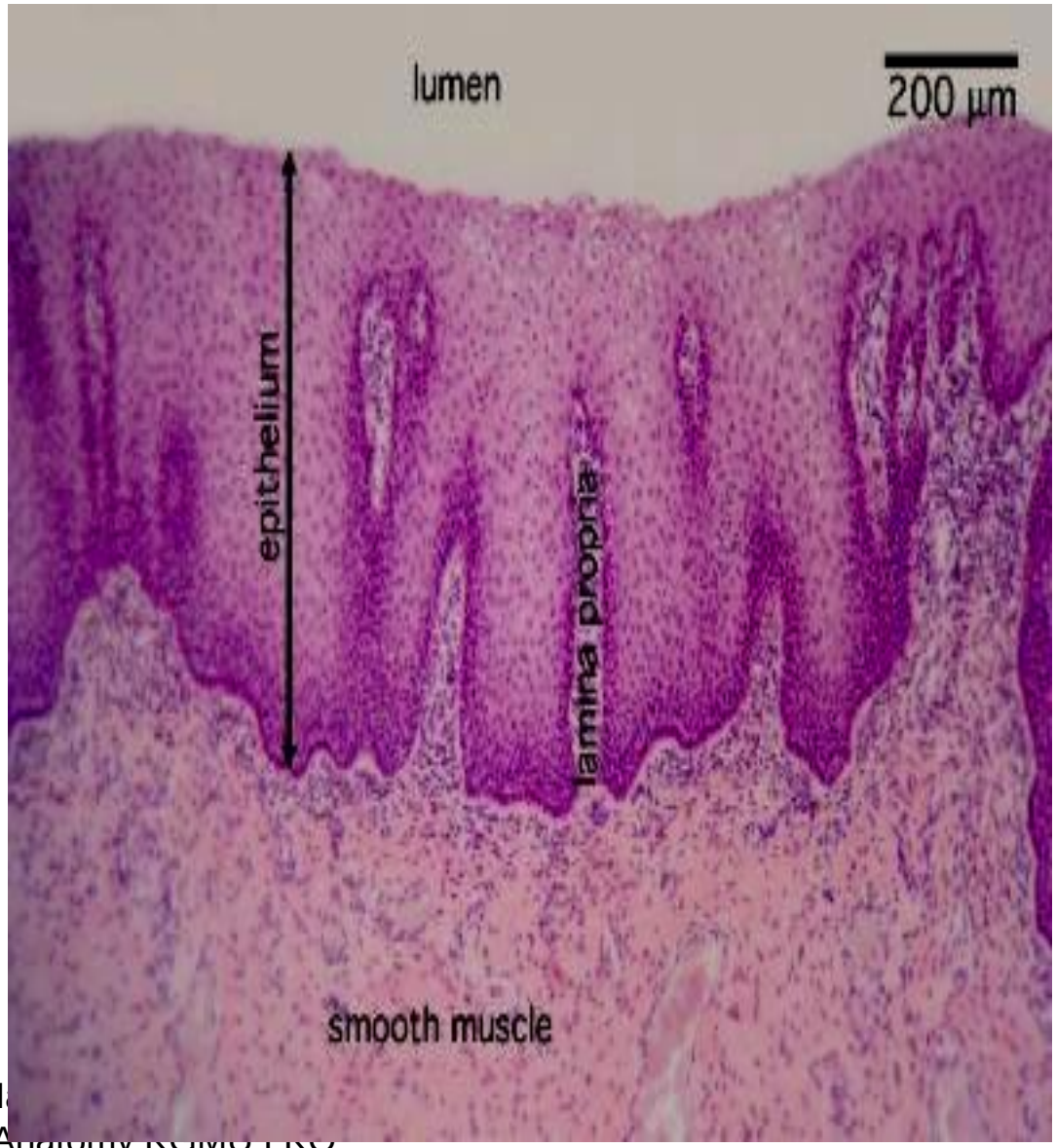

myometrium
endometrium

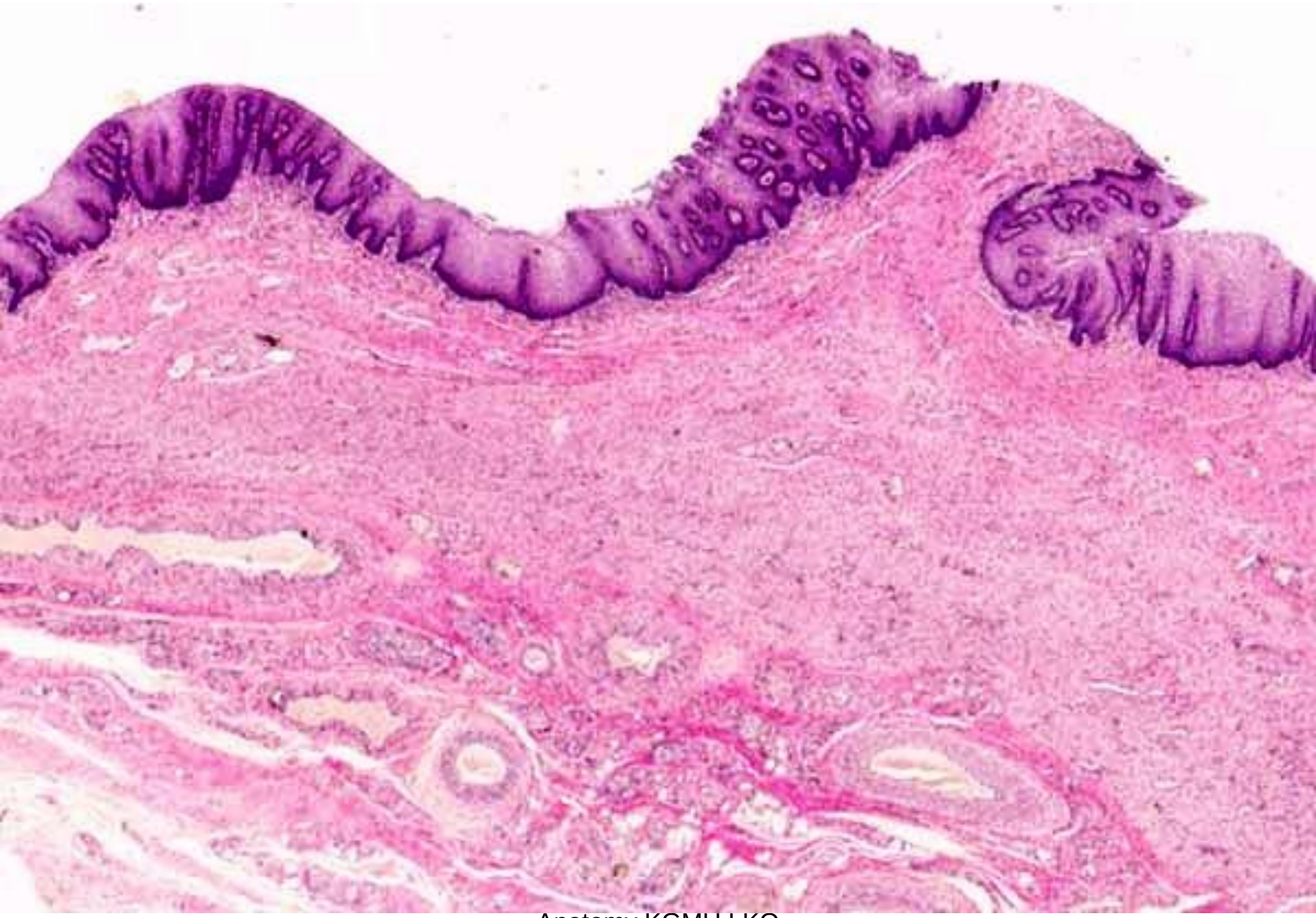
Vagina

- **Mucosa**
  - **-Epithelium**

Stratified squamous

  - **-Lamina propria**
  - ***No glands***
- **Muscle layer**
  - **- ill-defined layers of smooth muscles**
  - -Inner -circular
  - -outer- longitudinal
- **Adventitia**





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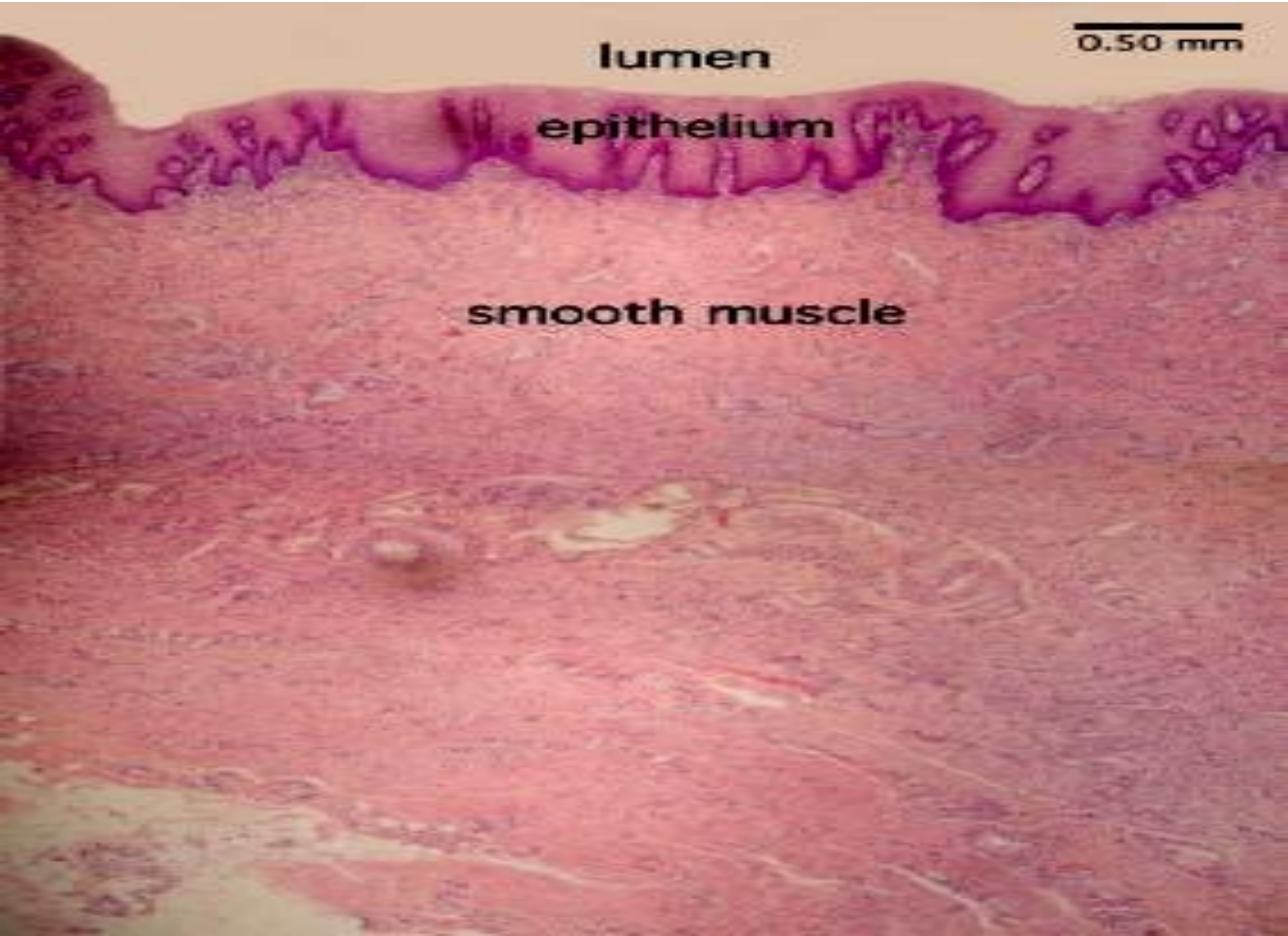
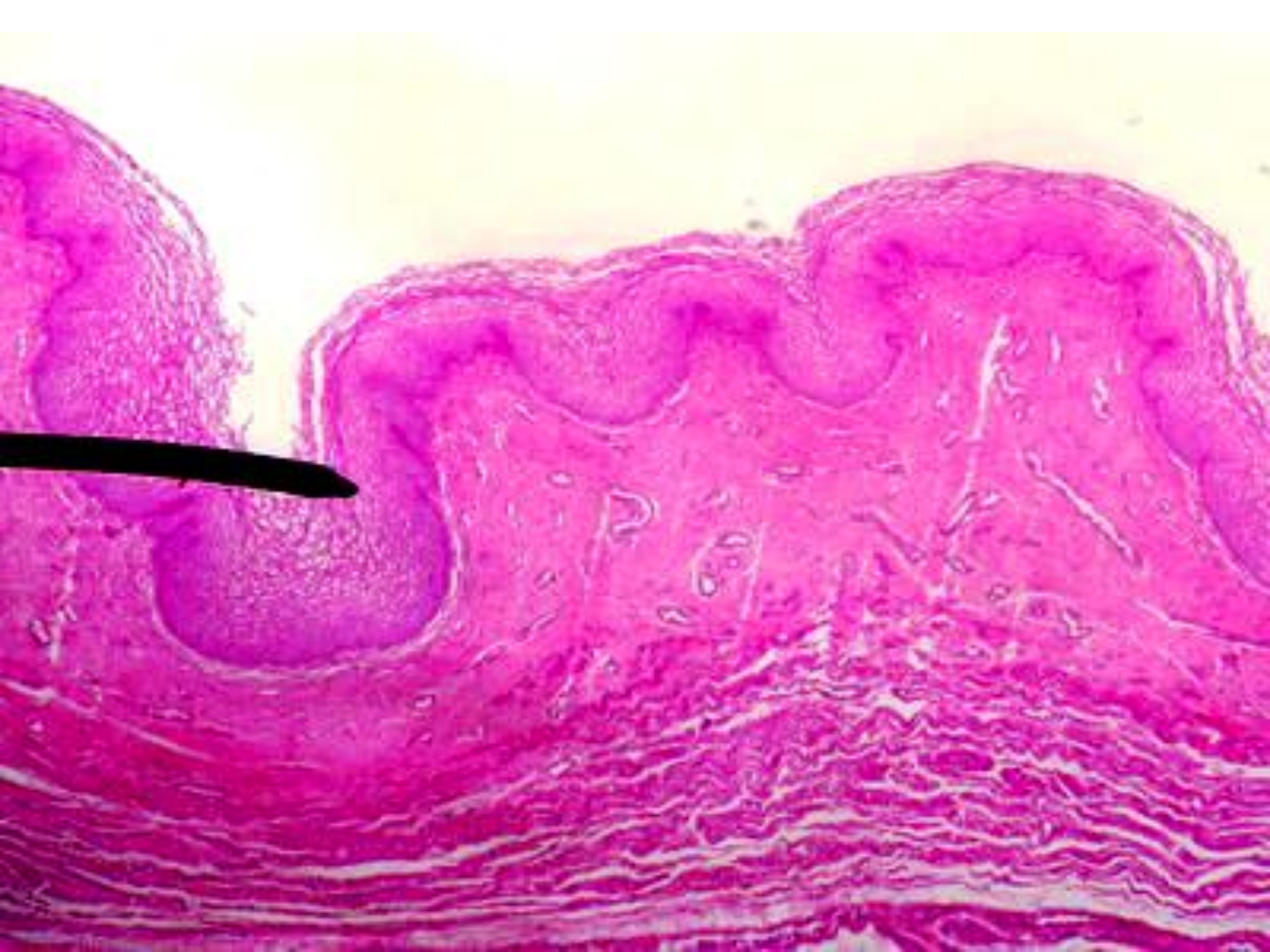

lumen
0.50 mm
epithelium
smooth muscle



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"Higgins, control yourself and sit down!"