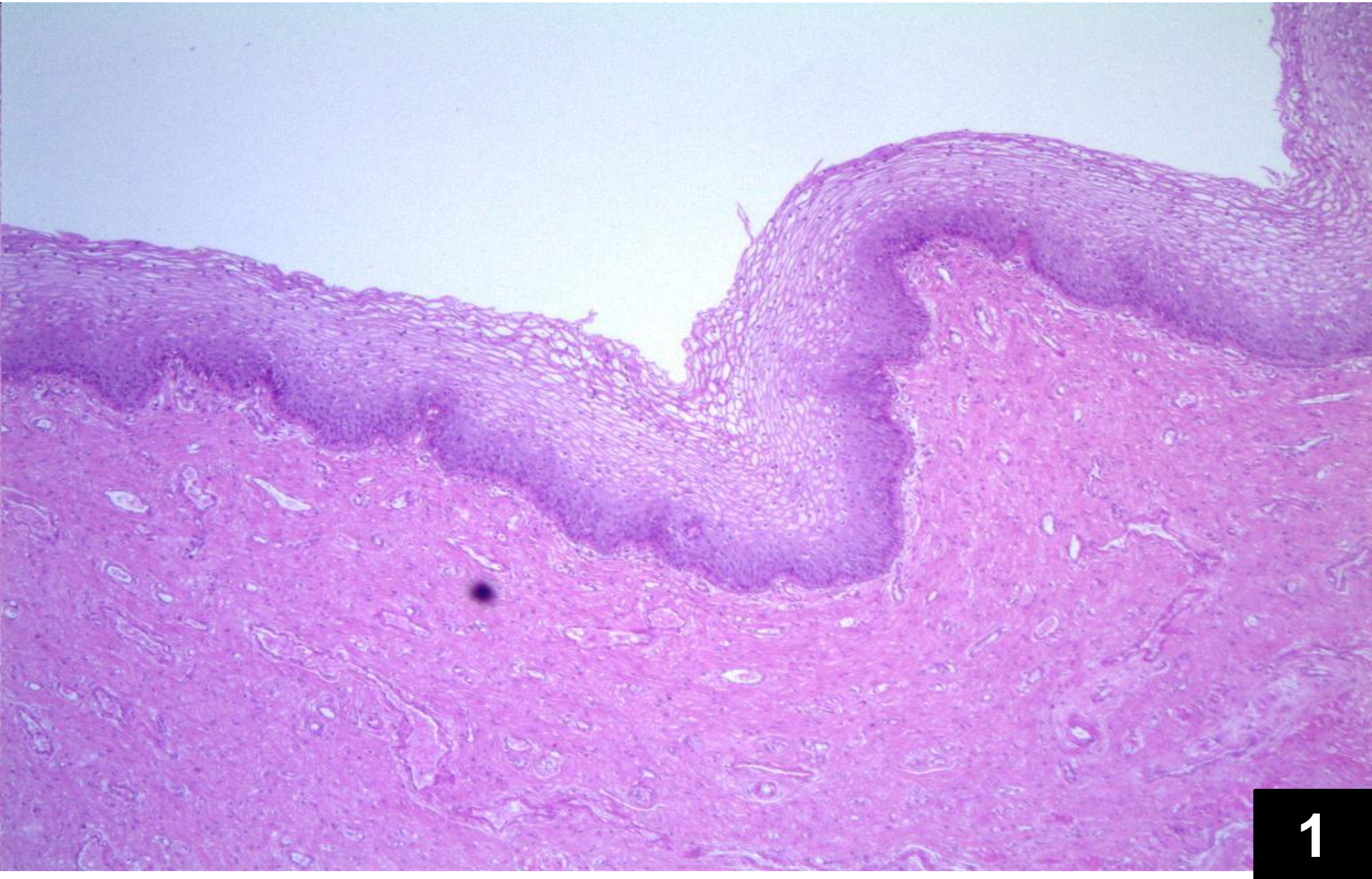
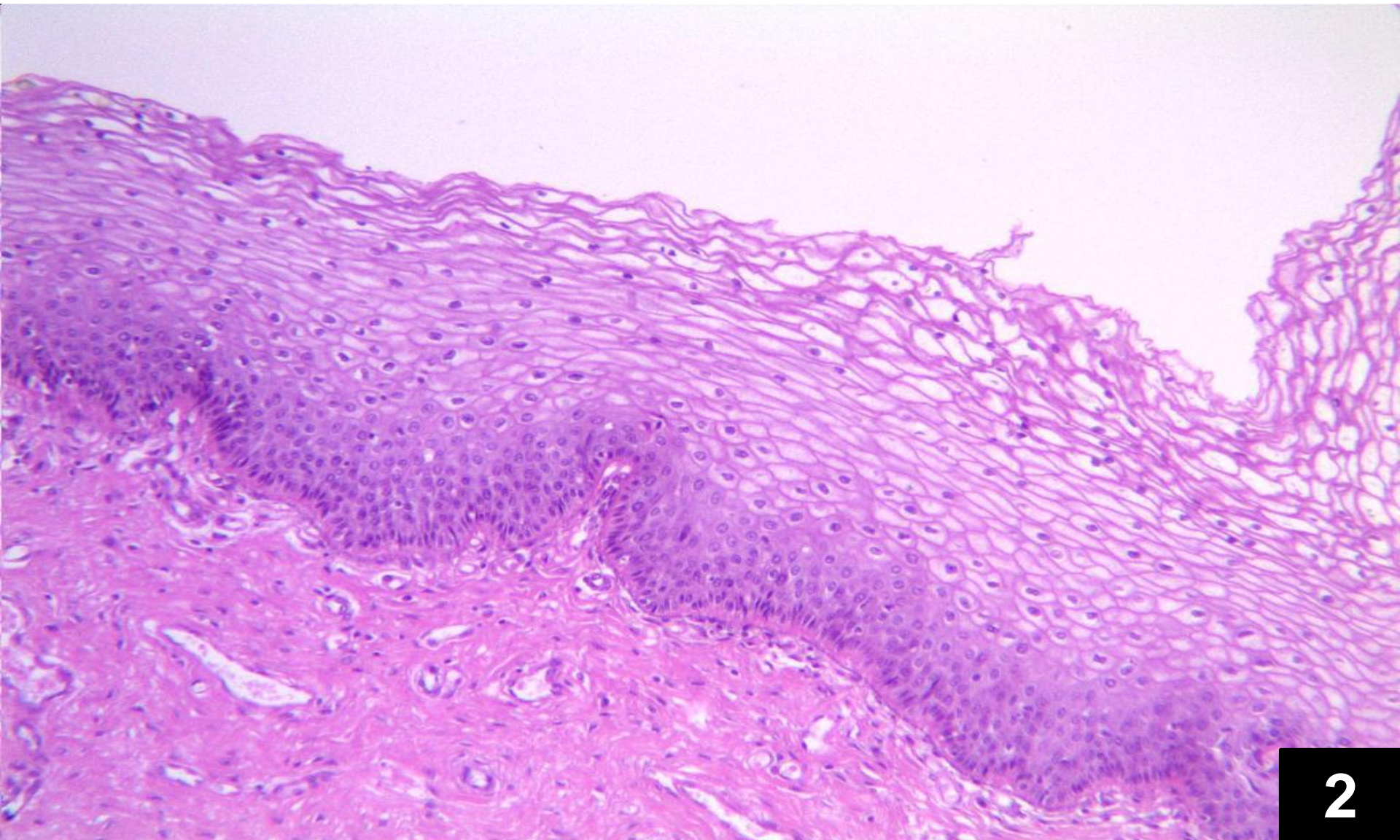


UGS Lab 3



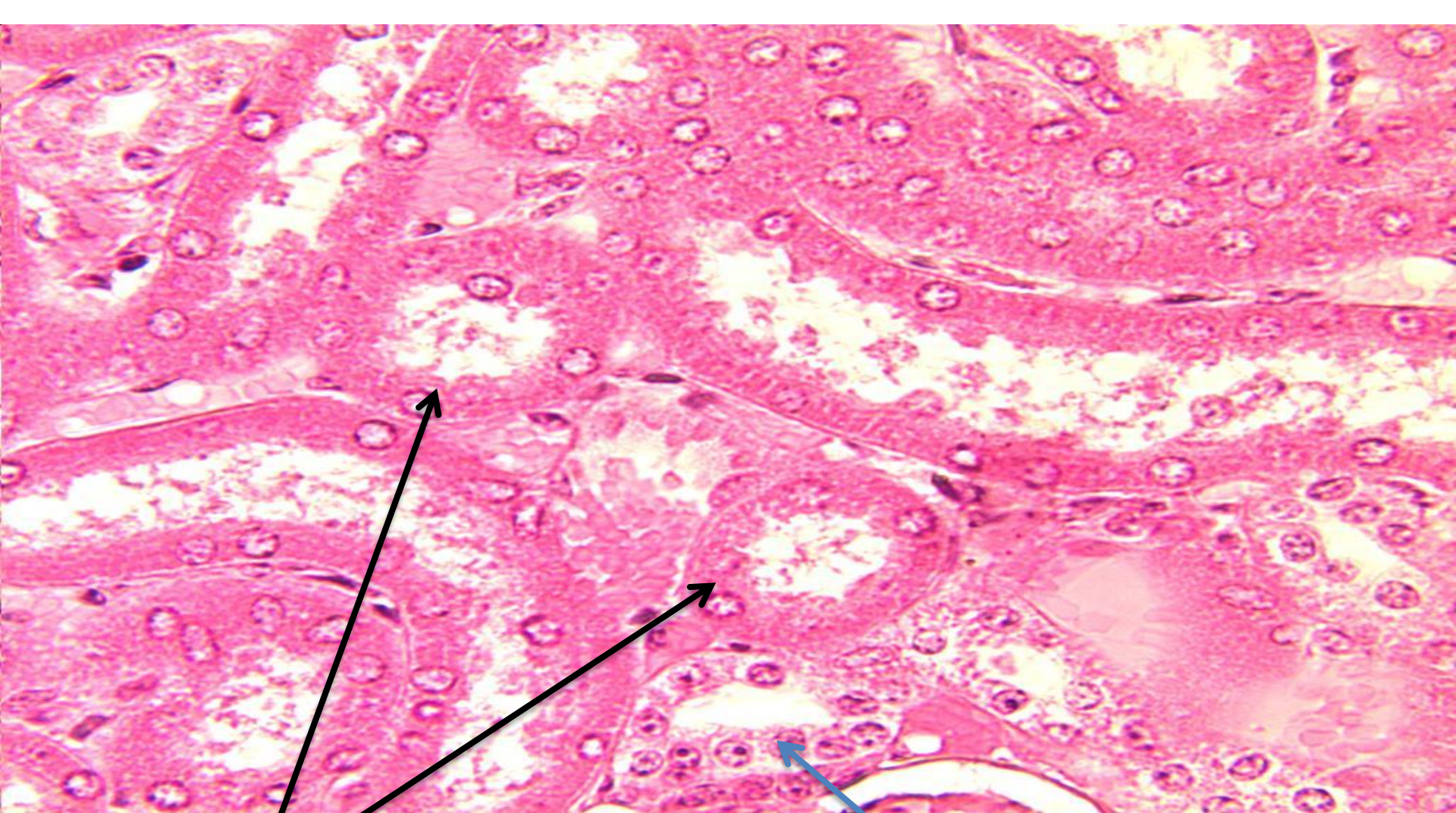
1

Section Through the Vagina (Medium Power)



2

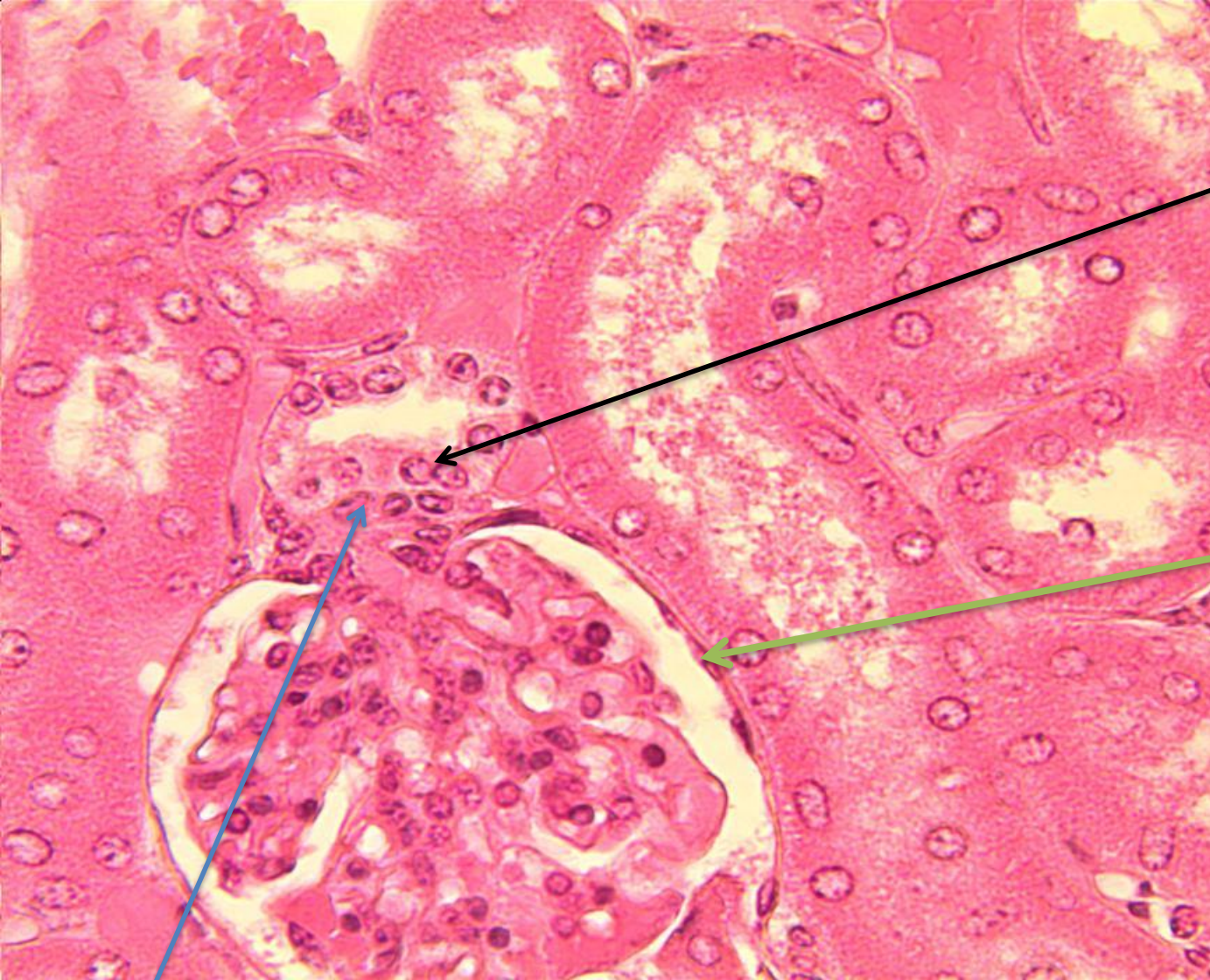
Section through vagina (high Power)



Proximal convoluted tubules

Distal convoluted tube

Section Through the Kidney

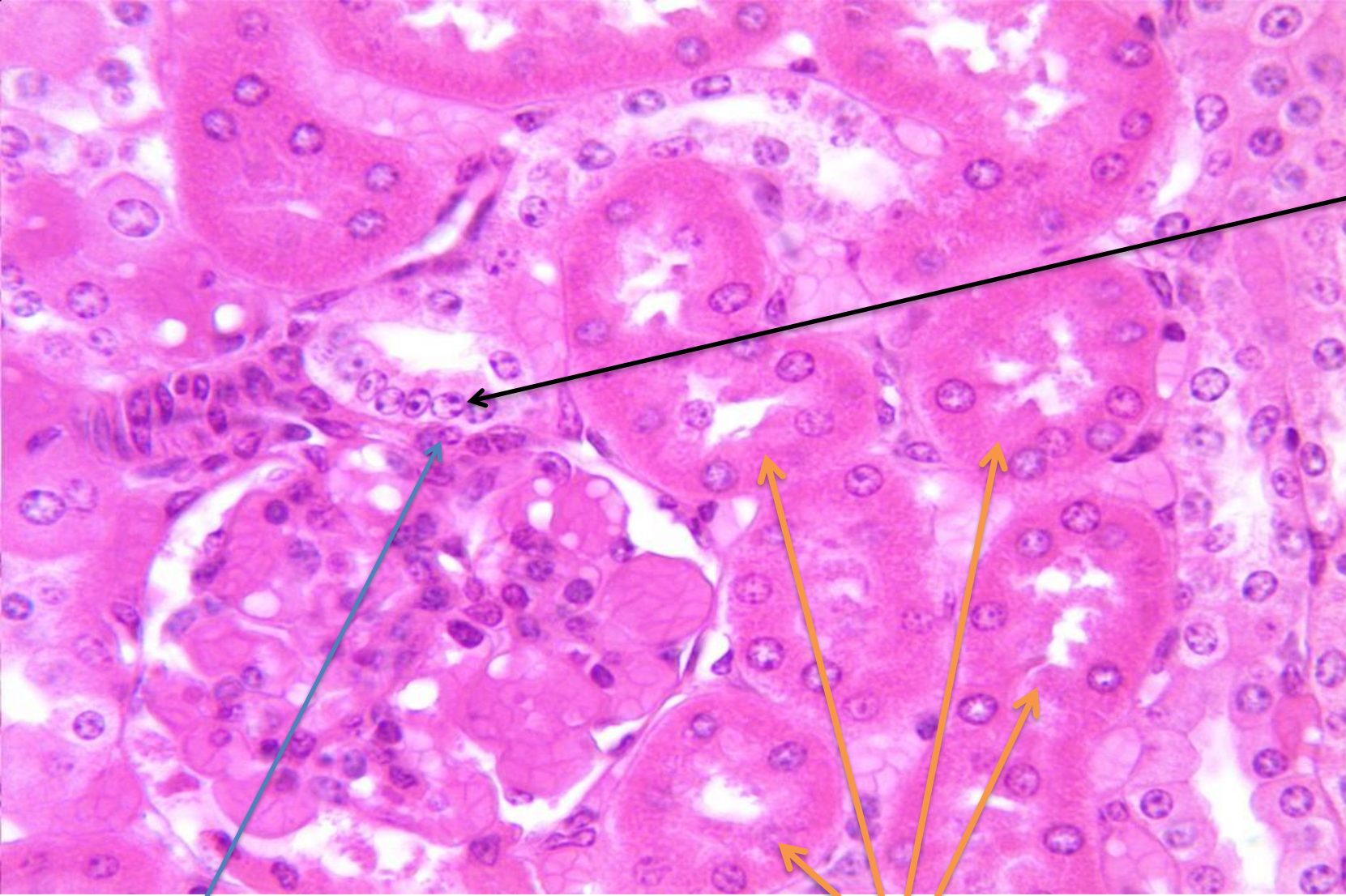


Macula densa

Parietal layer of glomerular capsule

Juxta glomerular cells

Section Through the Kidney



Macula densa

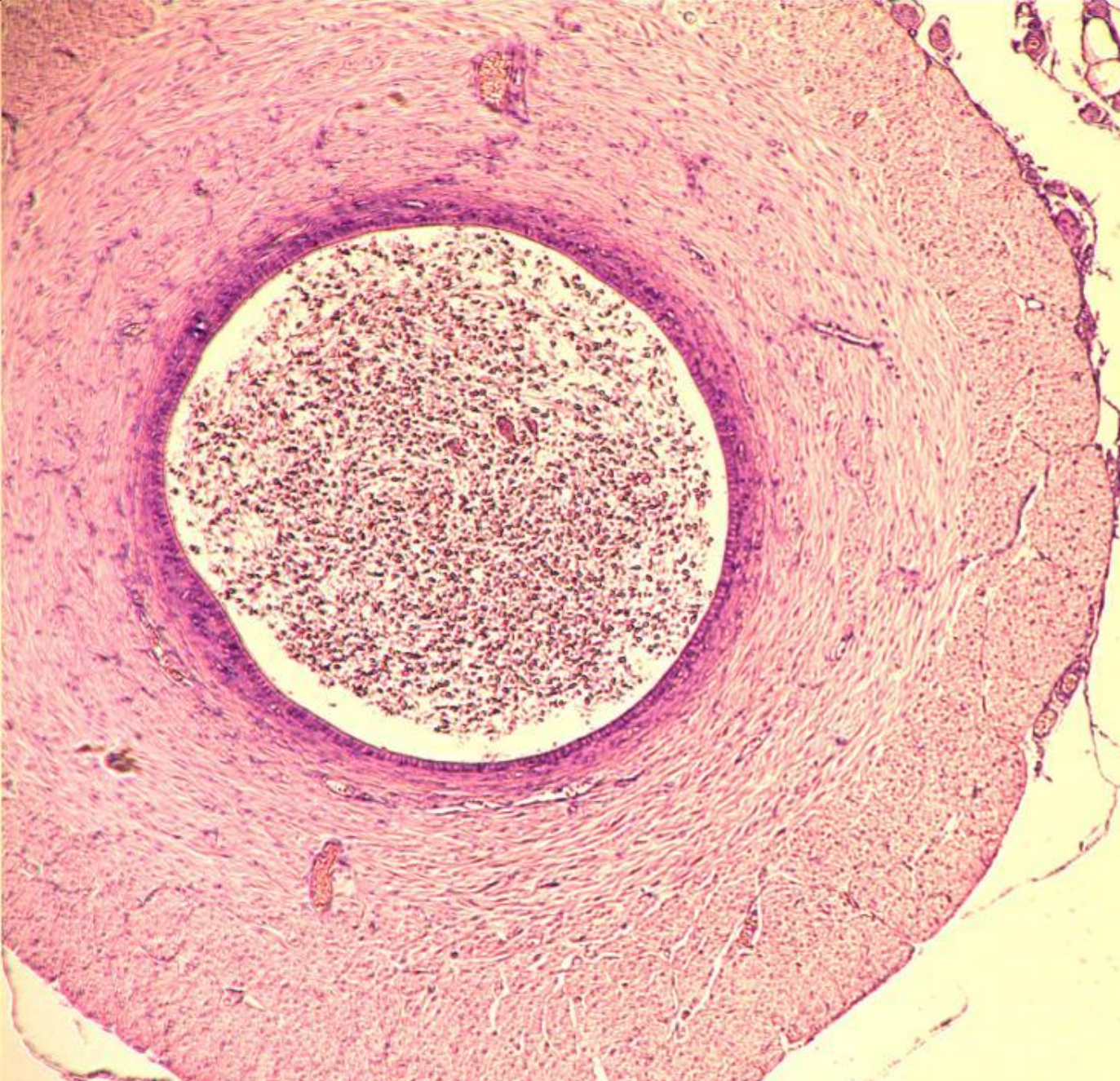
Juxta glomerular cells

Proximal convoluted tubules

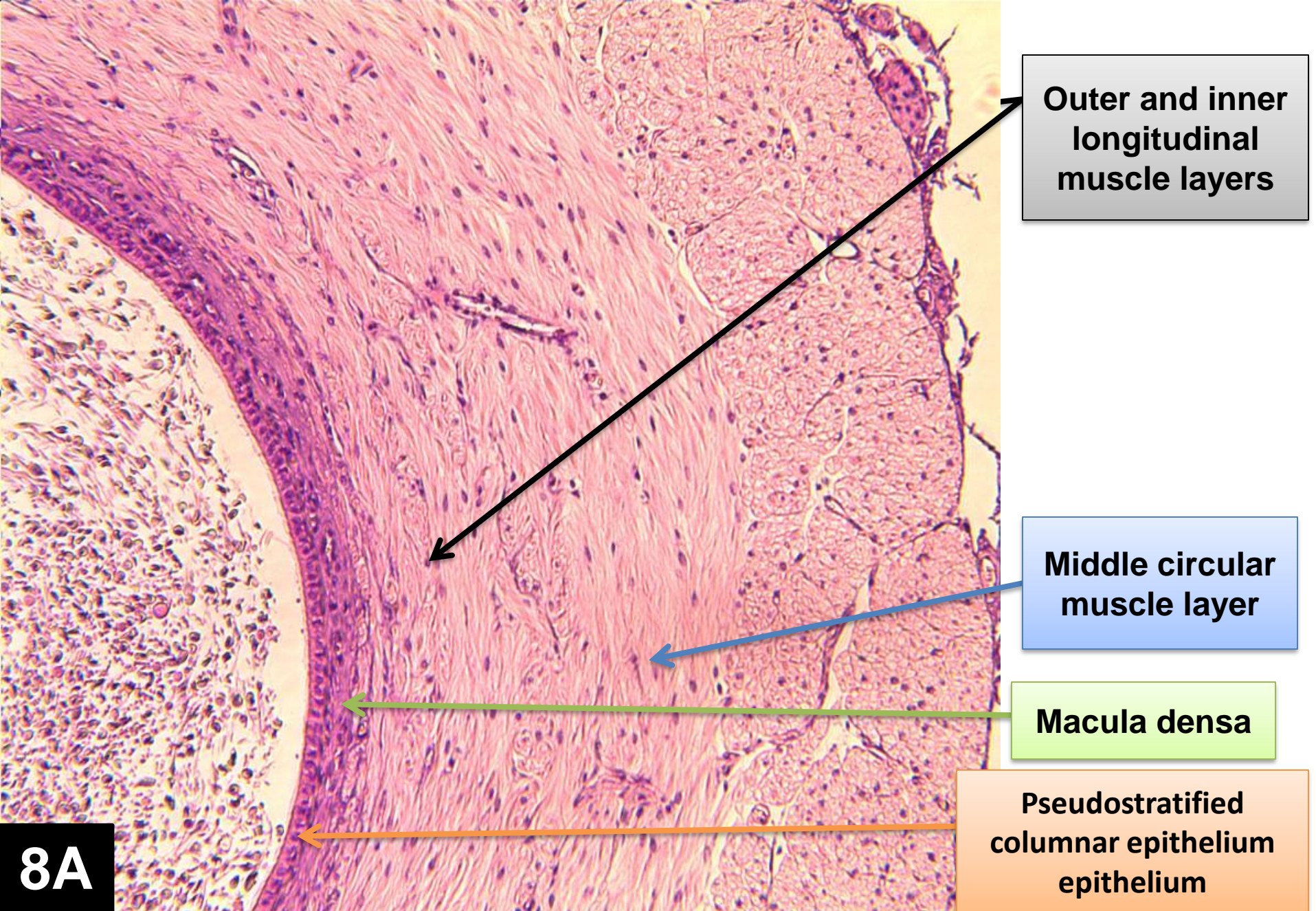
Section Through the Kidney



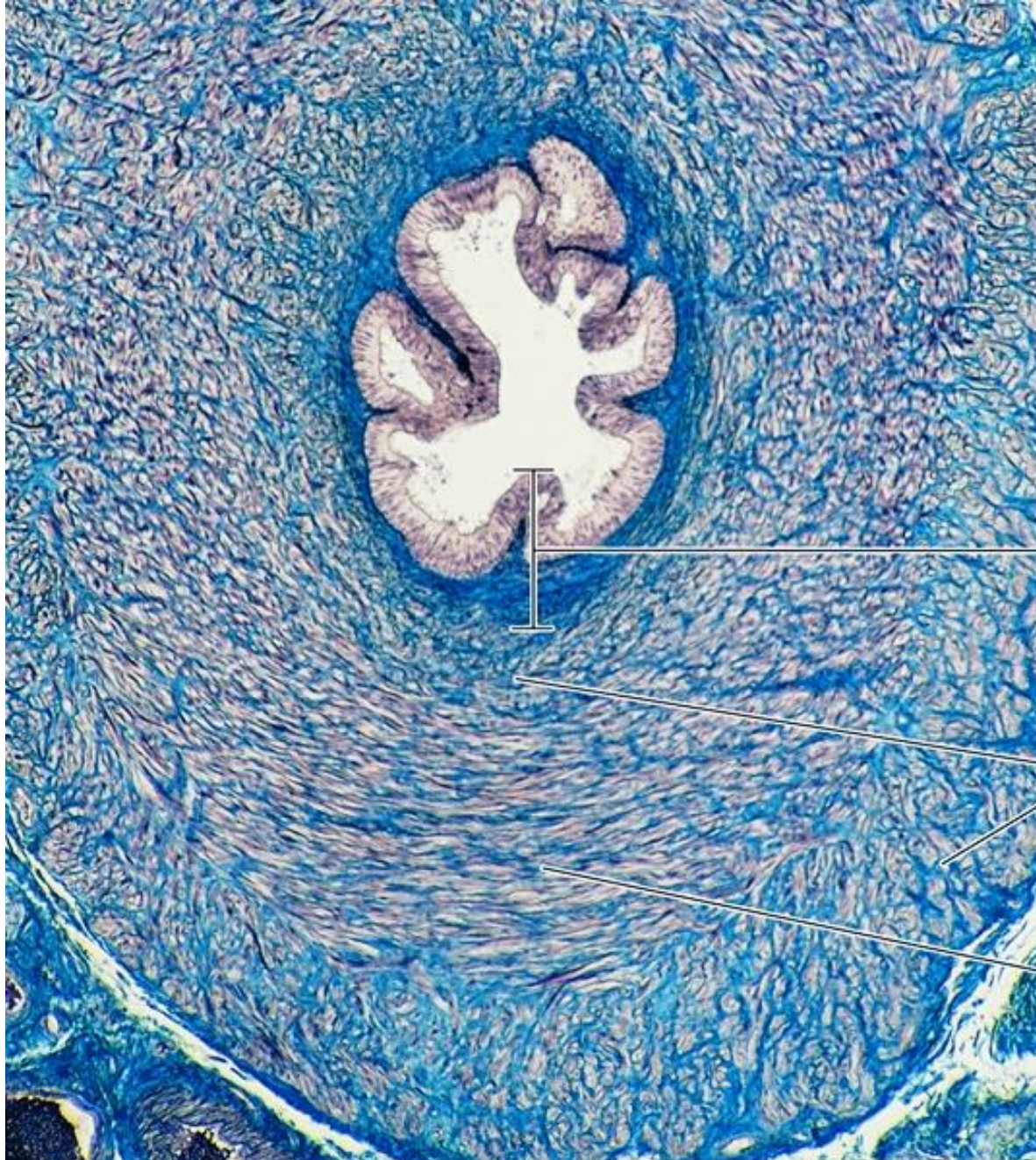
Section Through the Ureter



Section Through the Vas deferens (Low power)



Section Through the Vas deferens (High power)



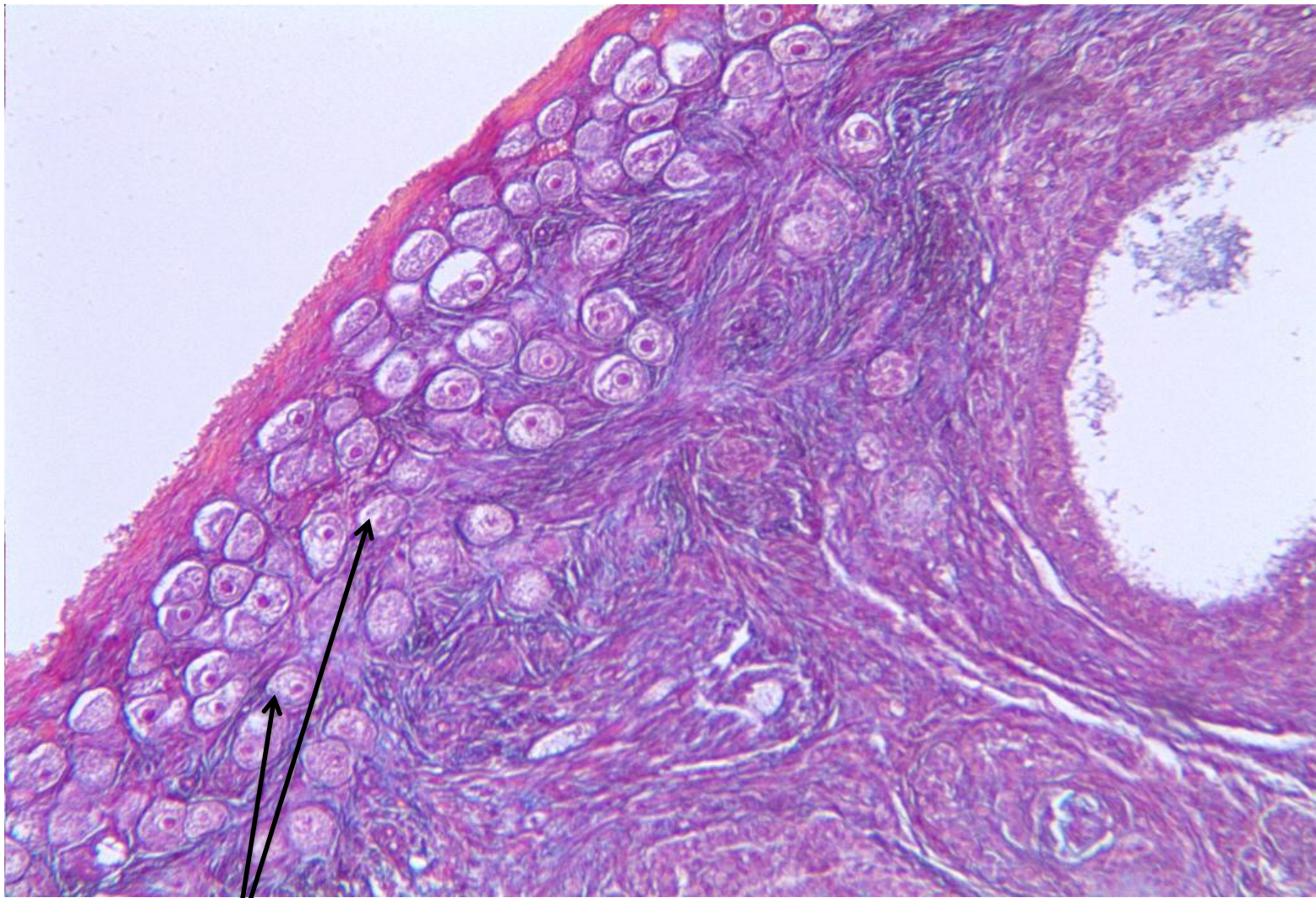
Mucosa

Longitudinal
smooth muscle
layer

Circular
smooth muscle
layer

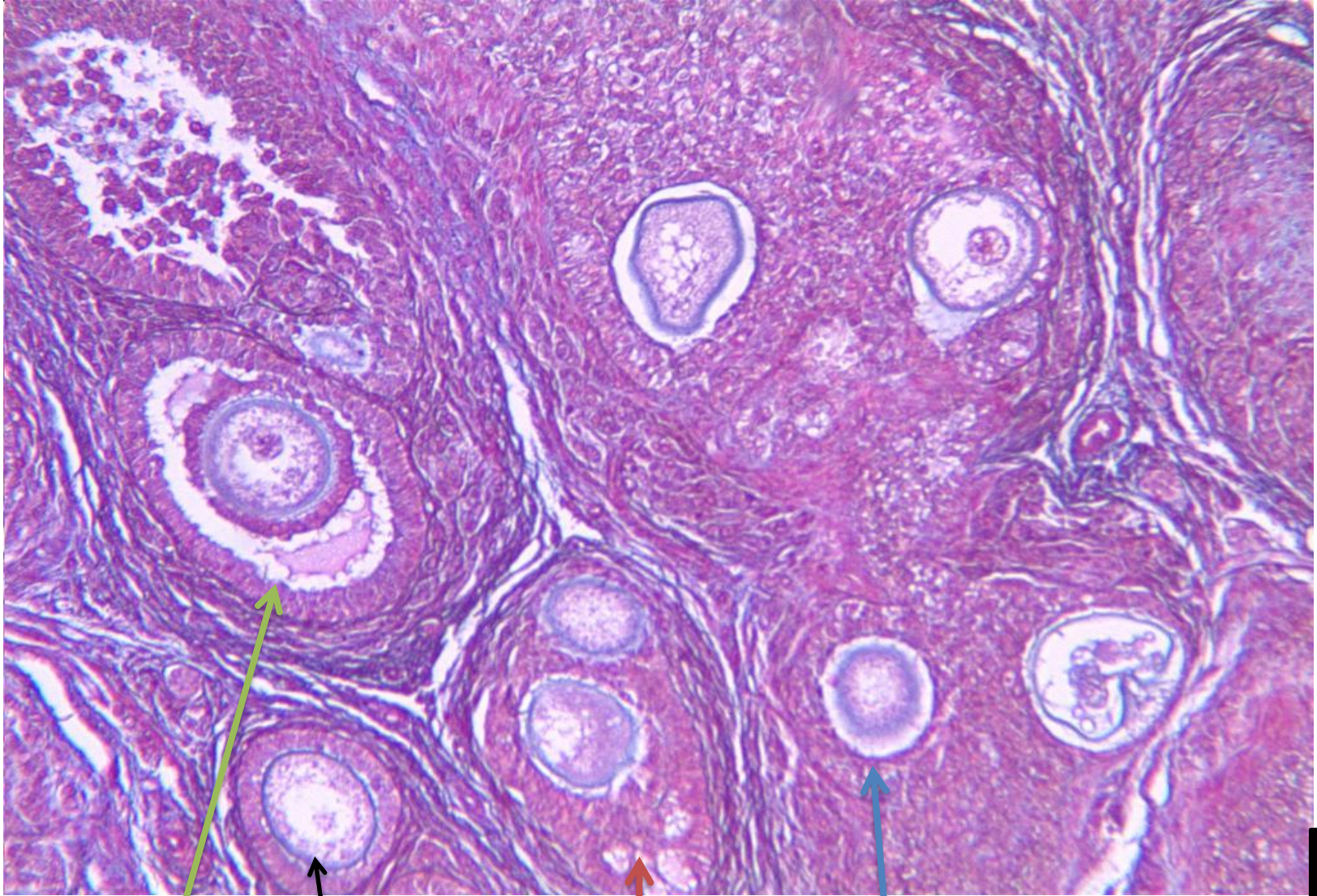
8B

Section Through the Vas deferens (High power)



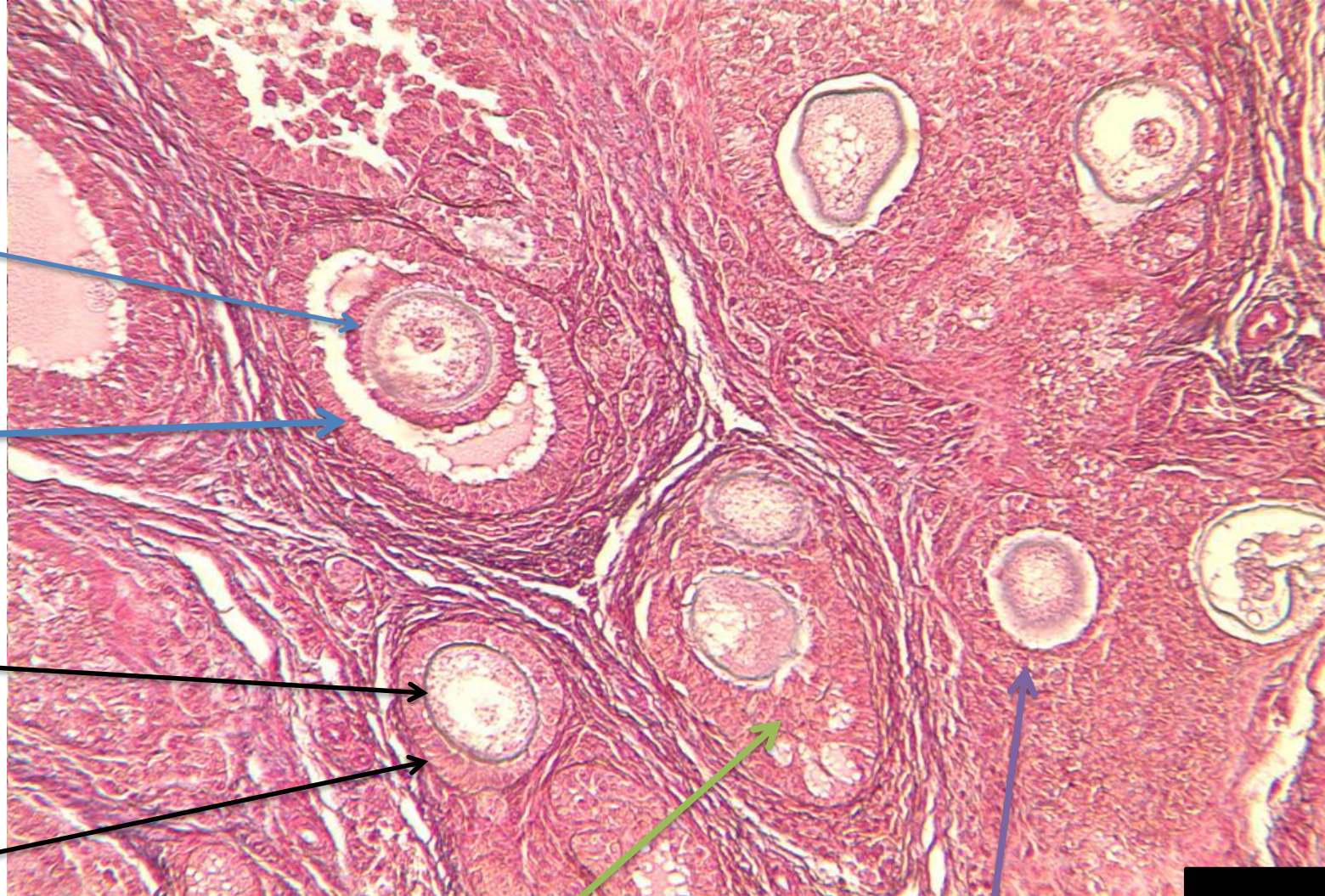
Primordial follicles

Section Through Ovary



10

Mature follicle (Green arrow); Unilaminar primary follicle (black arrow); Multilaminar primary follicle (Blue arrow); and Antral follicle (pink arrow)

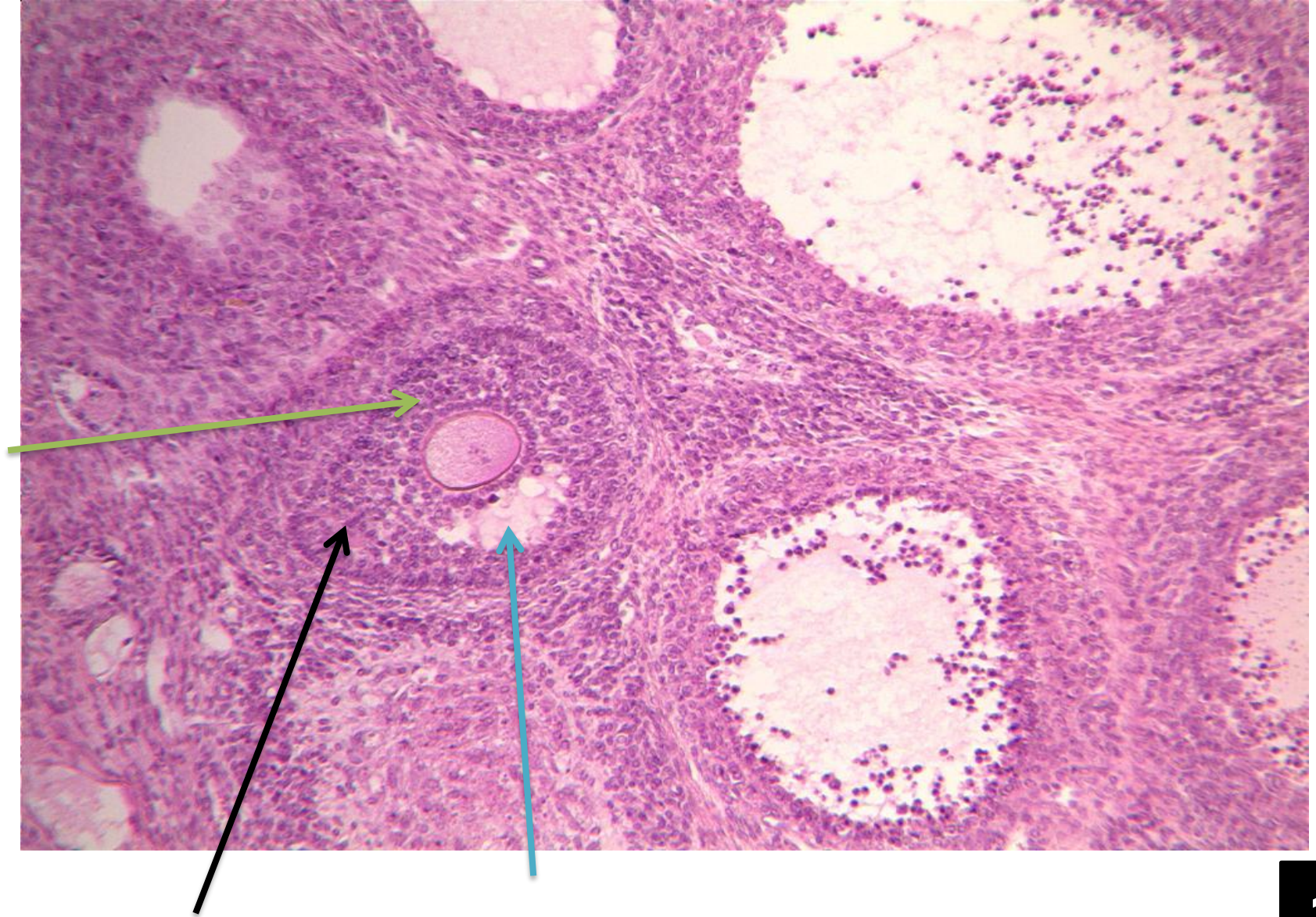


Corona radiata

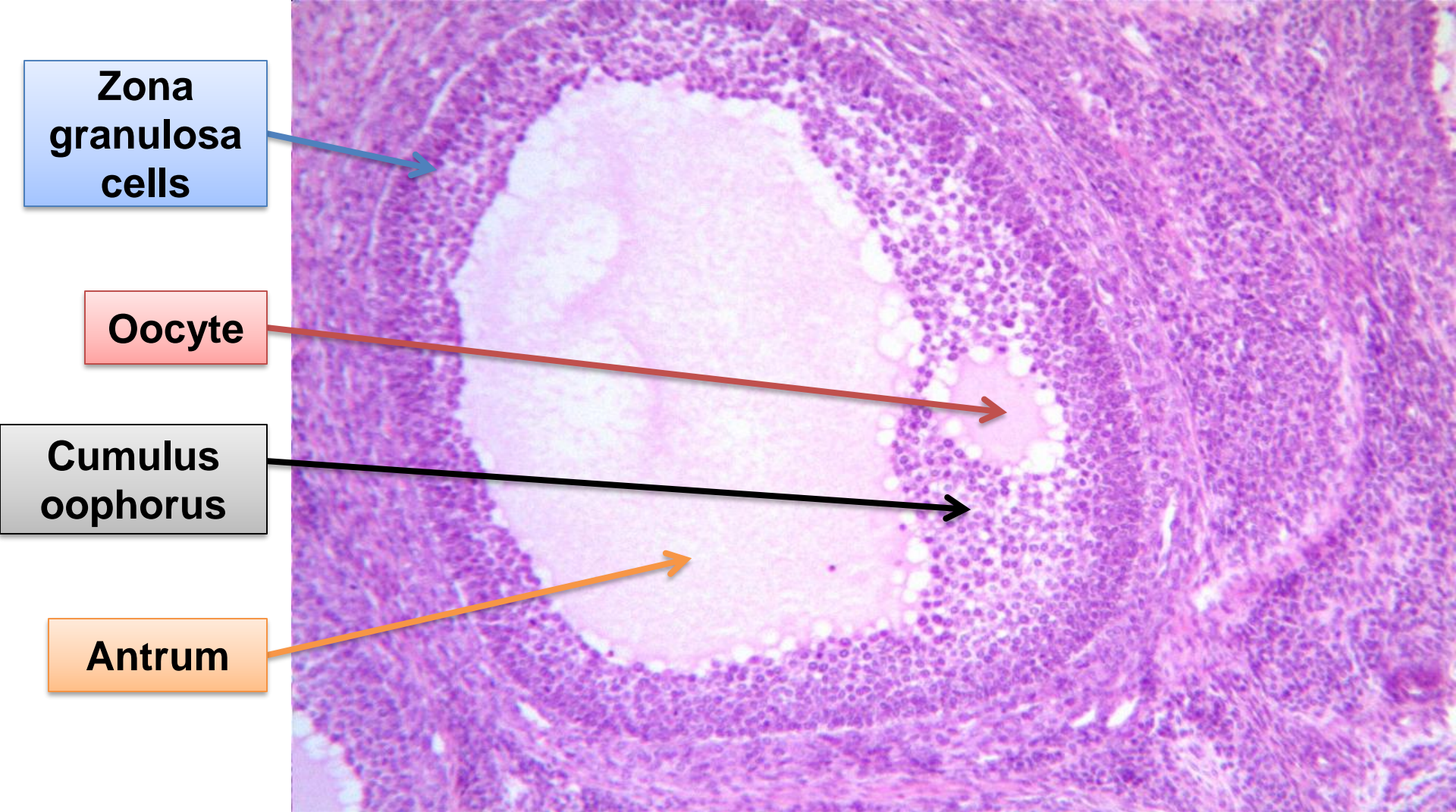
Zona pellucida

11

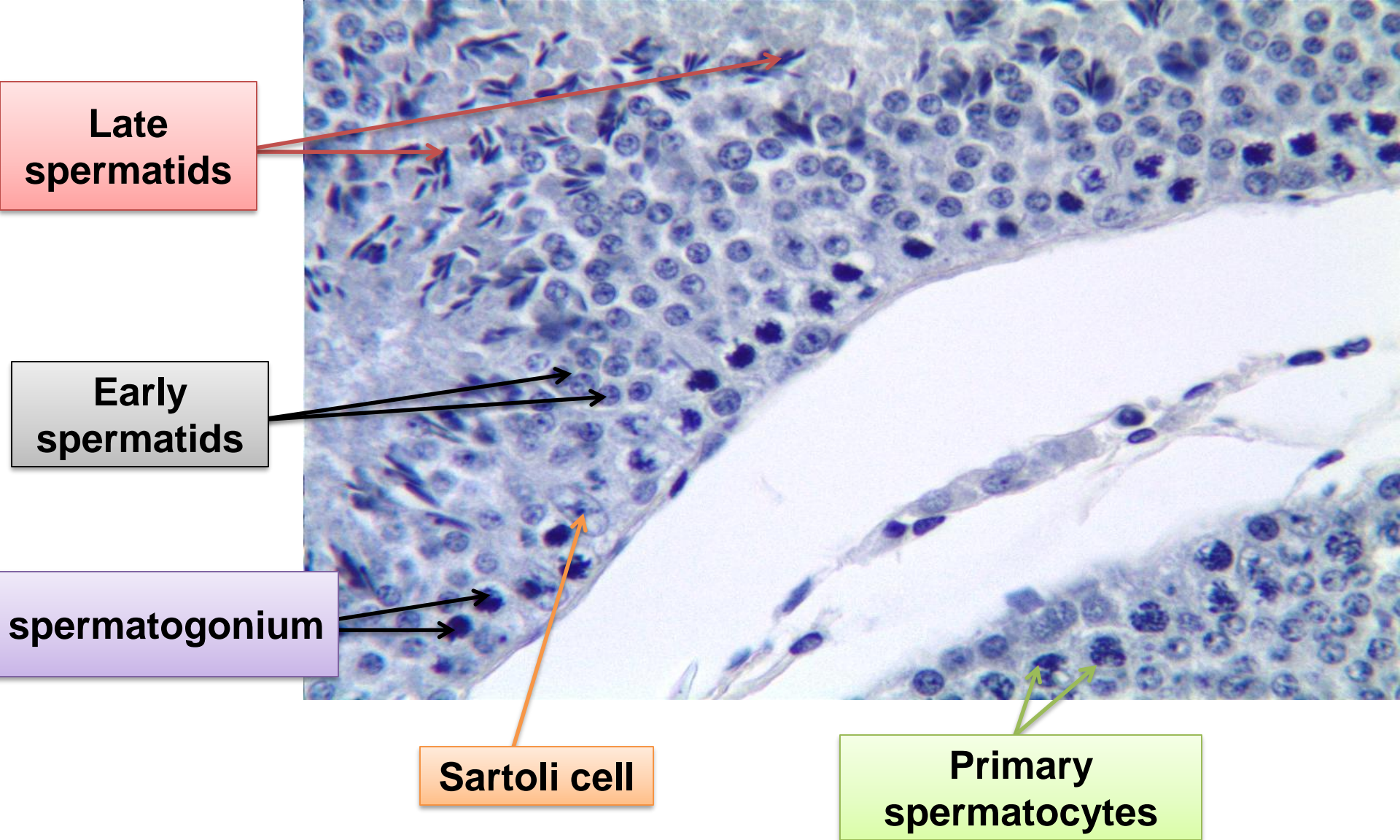
Mature follicle (blue arrow); Unilaminar primary follicle (black arrow); Multilaminar primary follicle (purple arrow); and Secondary or Antral follicle (green arrow)



Gumulus oophorus (Green arrow); Antrum (Blue arrow); and Antral or secondary follicle (Black arrow).



Mature Follicle



Late spermatids

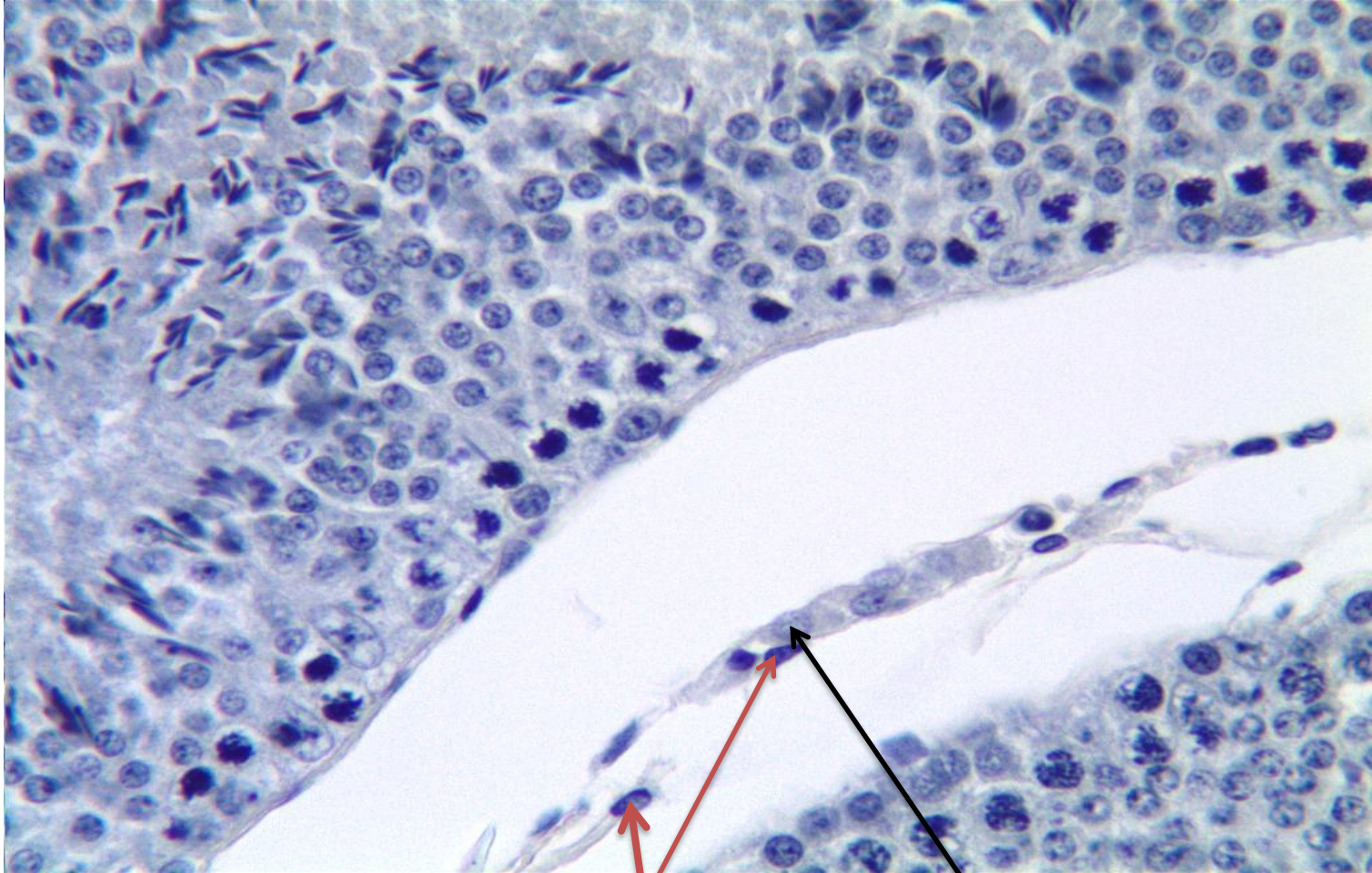
Early spermatids

spermatogonium

Sertoli cell

Primary spermatocytes

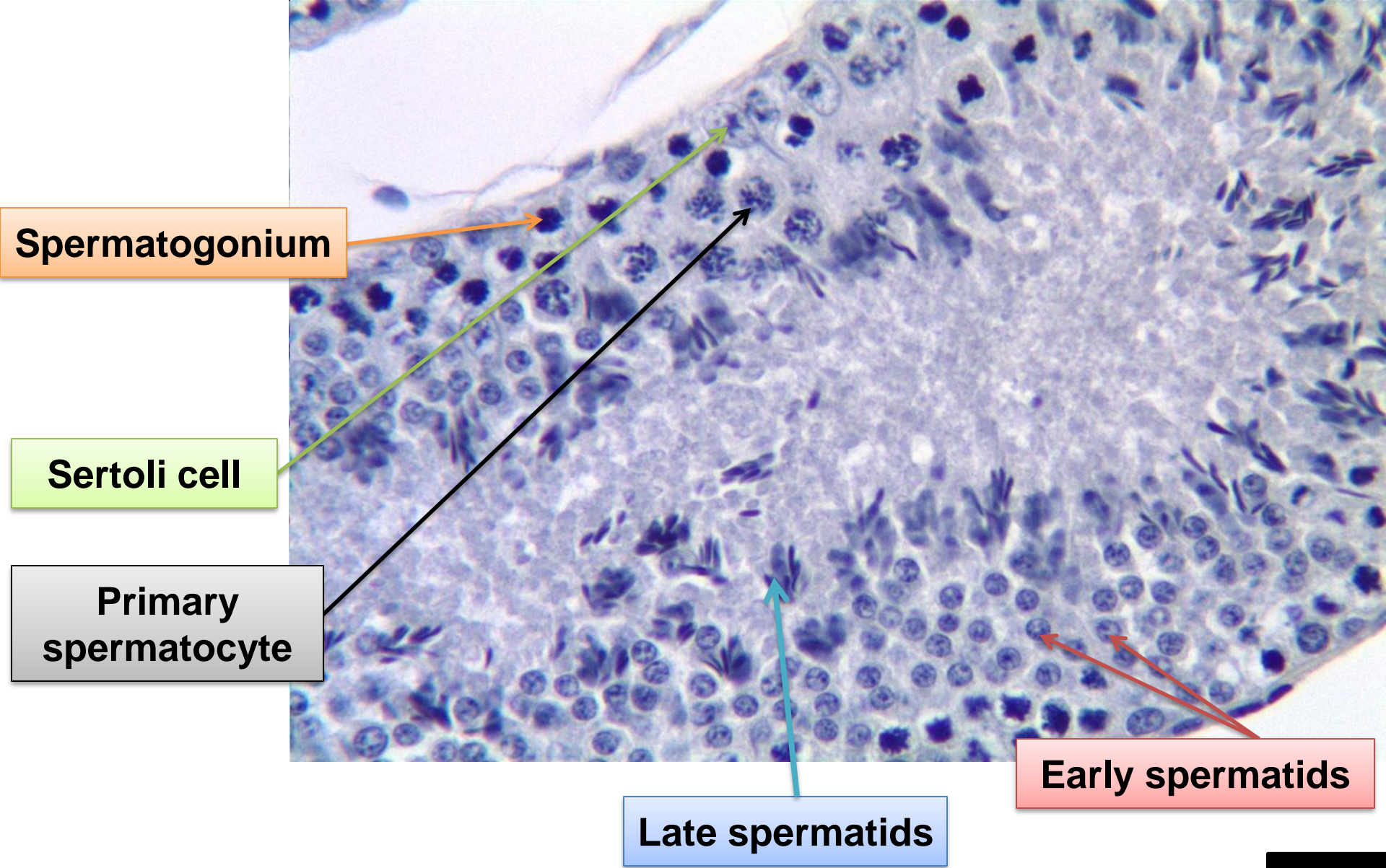
Seminiferous Tubules



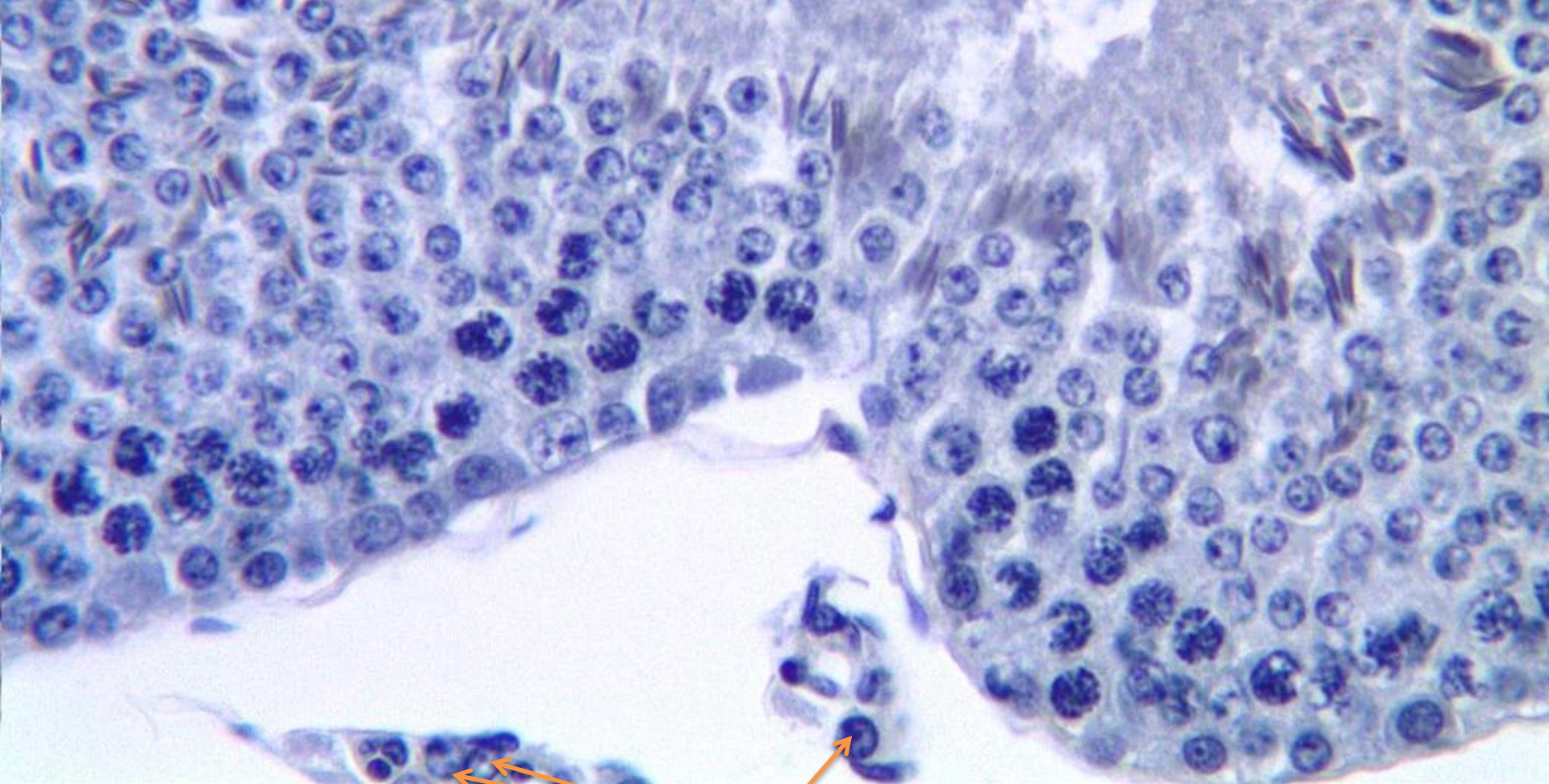
Fibroblasts

Lydig cell

Seminiferous Tubules

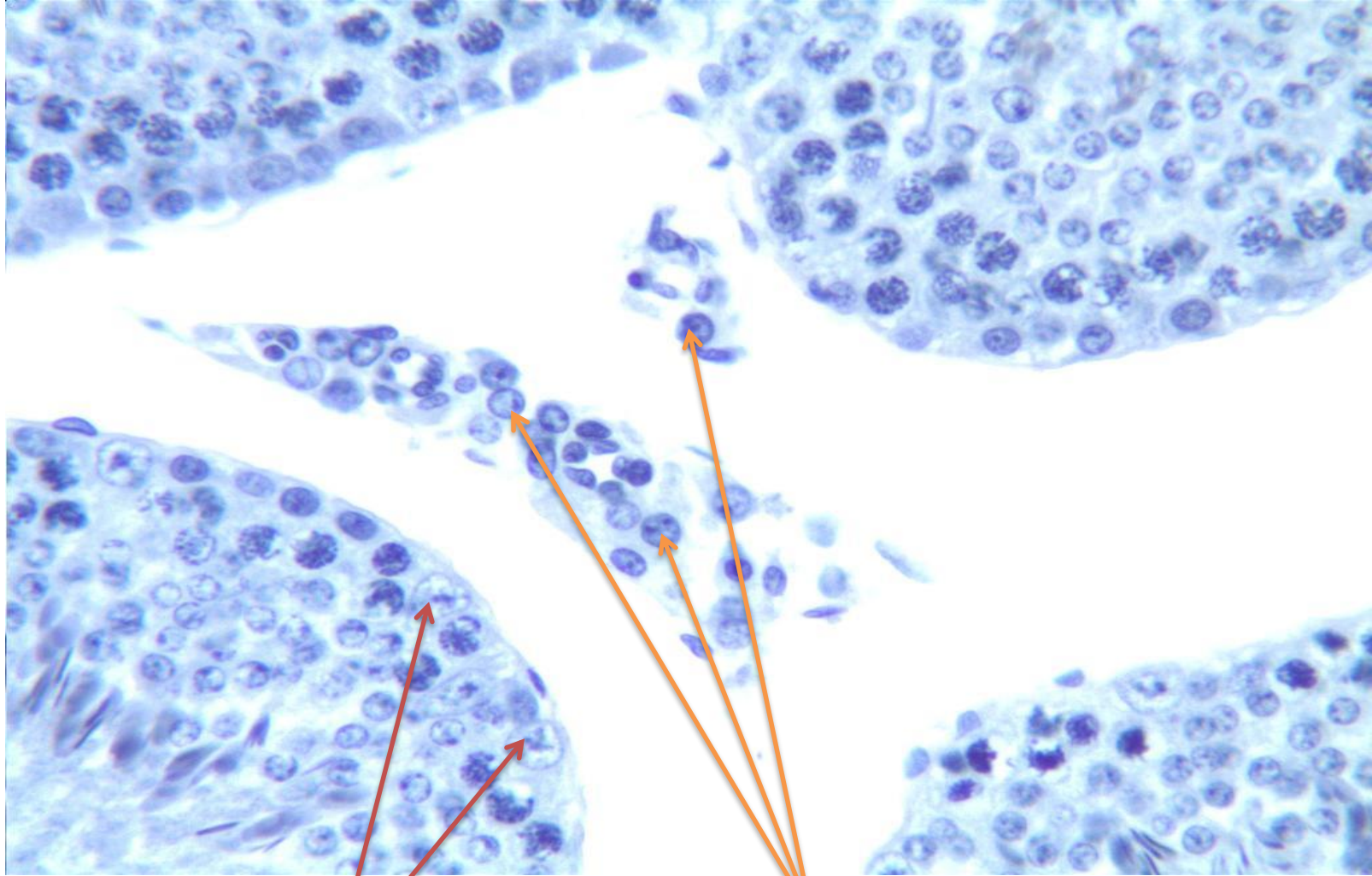


Seminiferous Tubules



Lydig cells

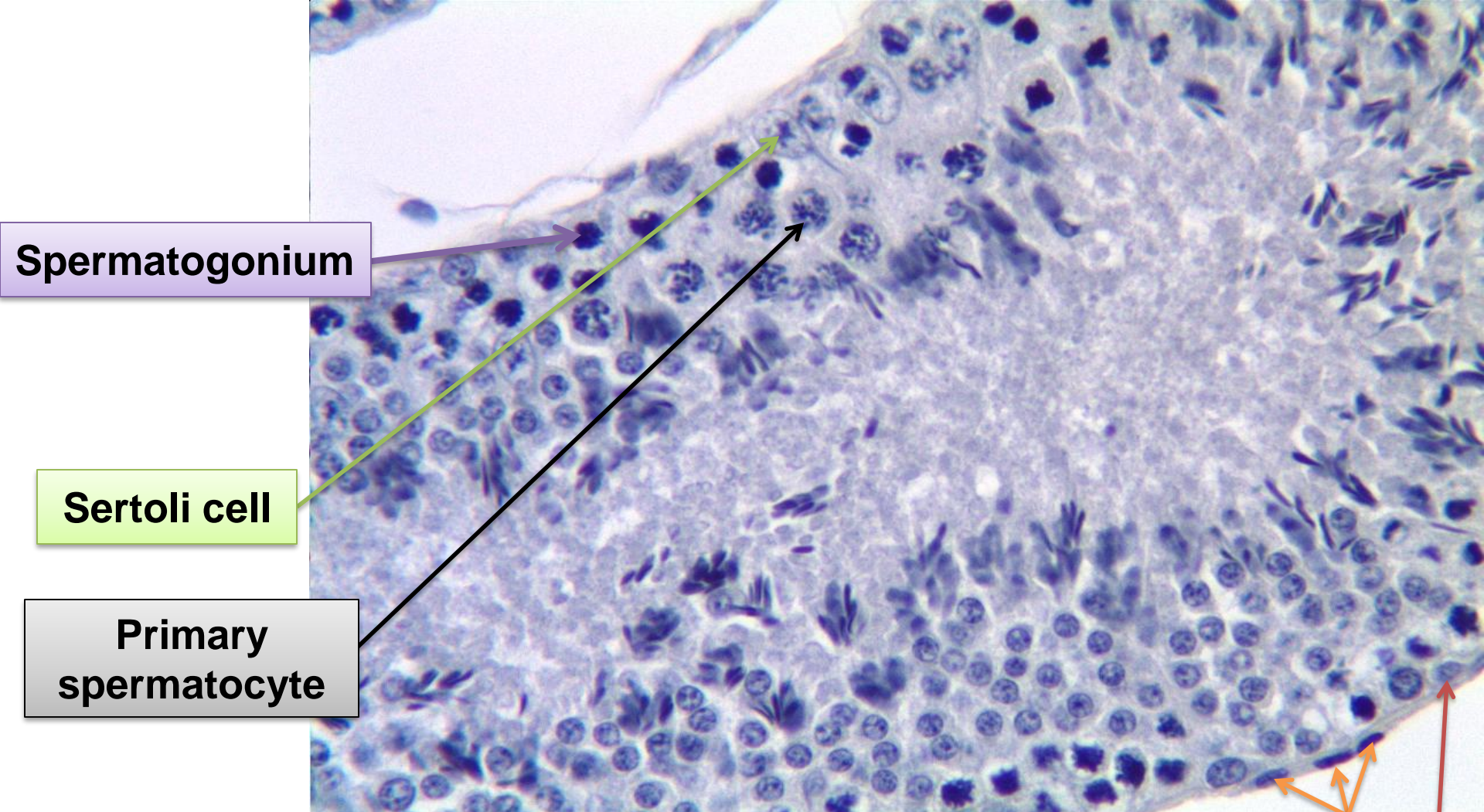
Seminiferous Tubules



Sertoli cells

Leydig cells

Seminiferous Tubules



Spermatogonium

Sertoli cell

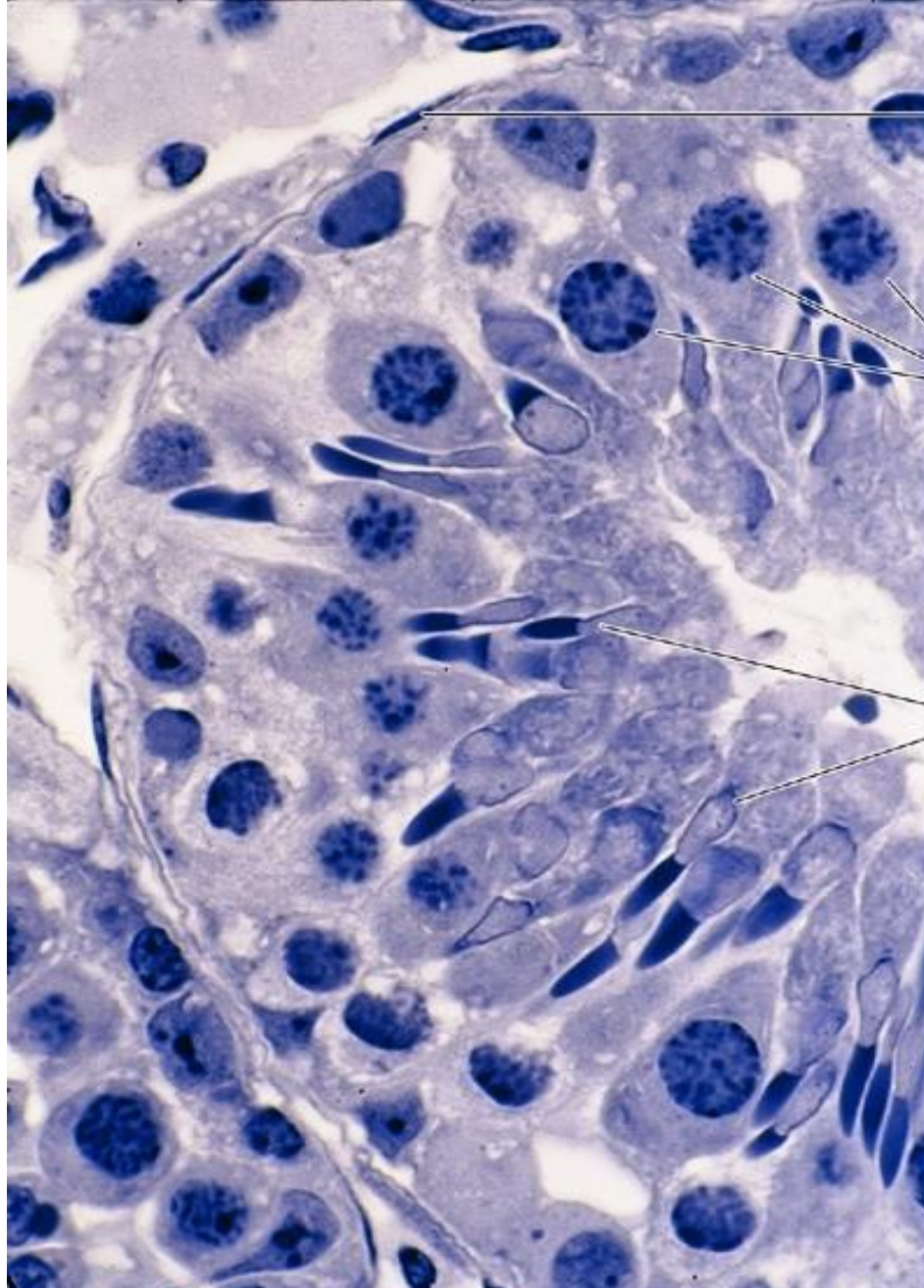
Primary spermatocyte

Myoid cells

Basal cell

19A

Seminiferous Tubules



Myoid cells

**Primary
spermatocyte**

Late spermatids

19B

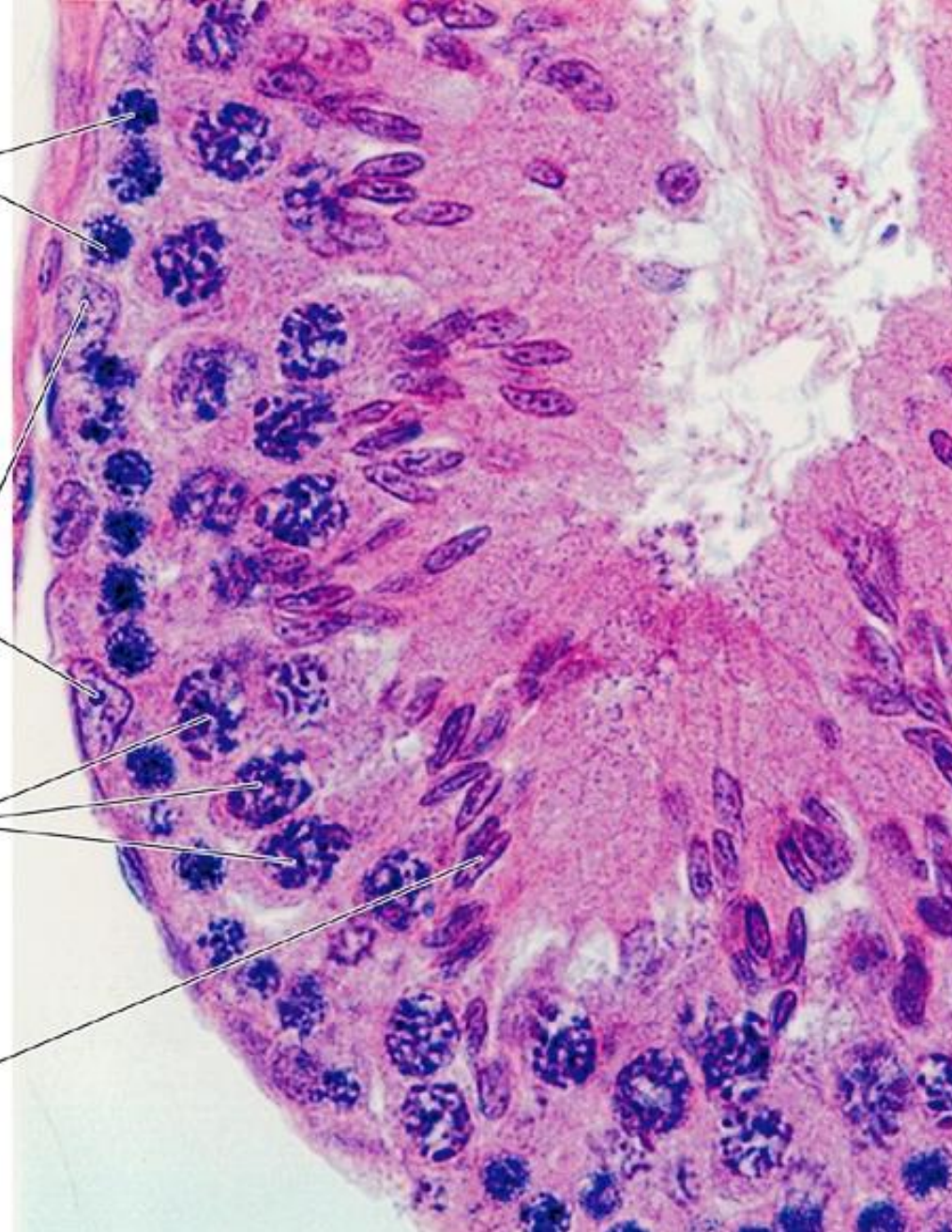
Seminiferous Tubules

Spermatogonia

Sertoli cells

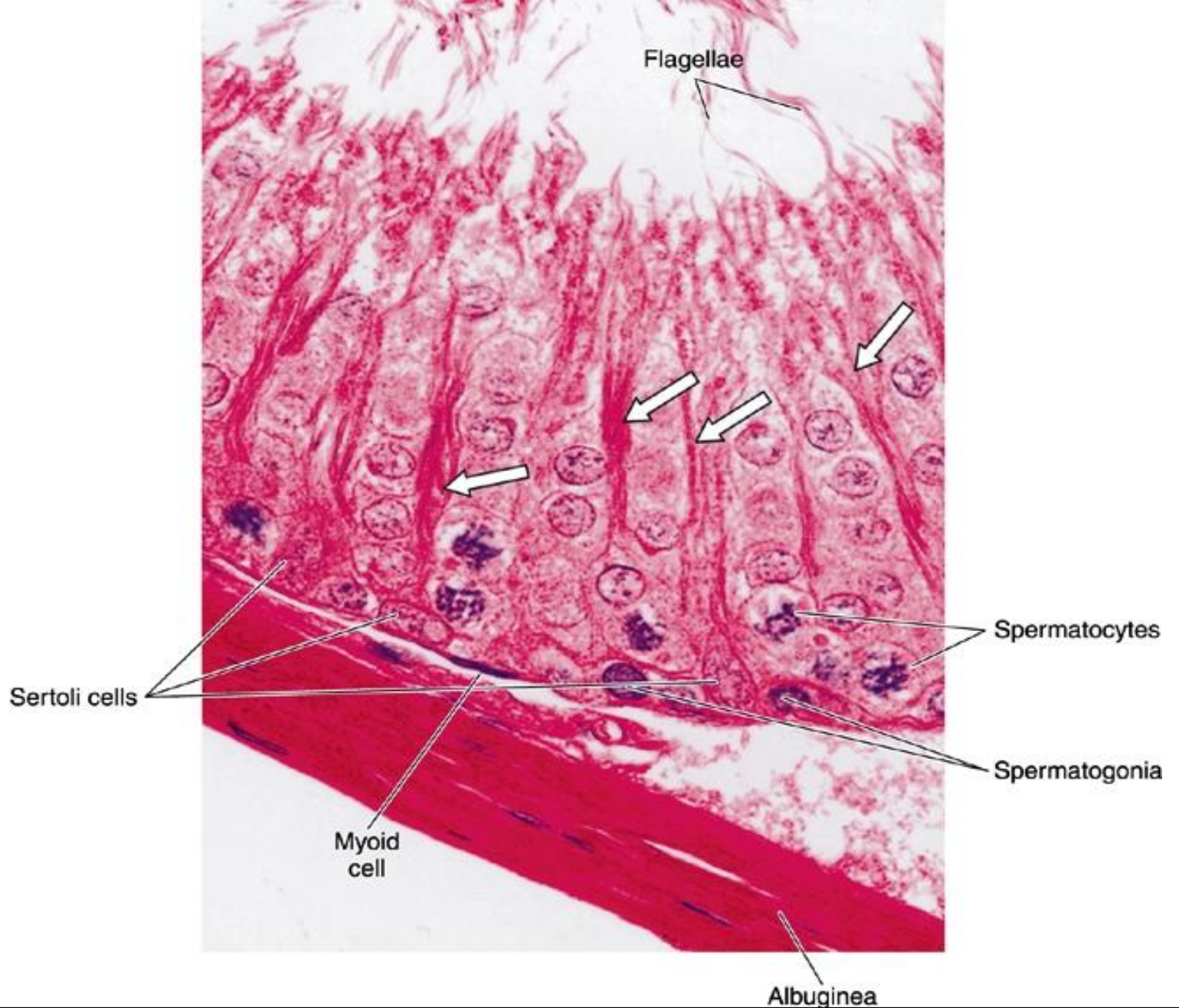
Spermatocytes

Spermatids



19C

Seminiferous Tubules

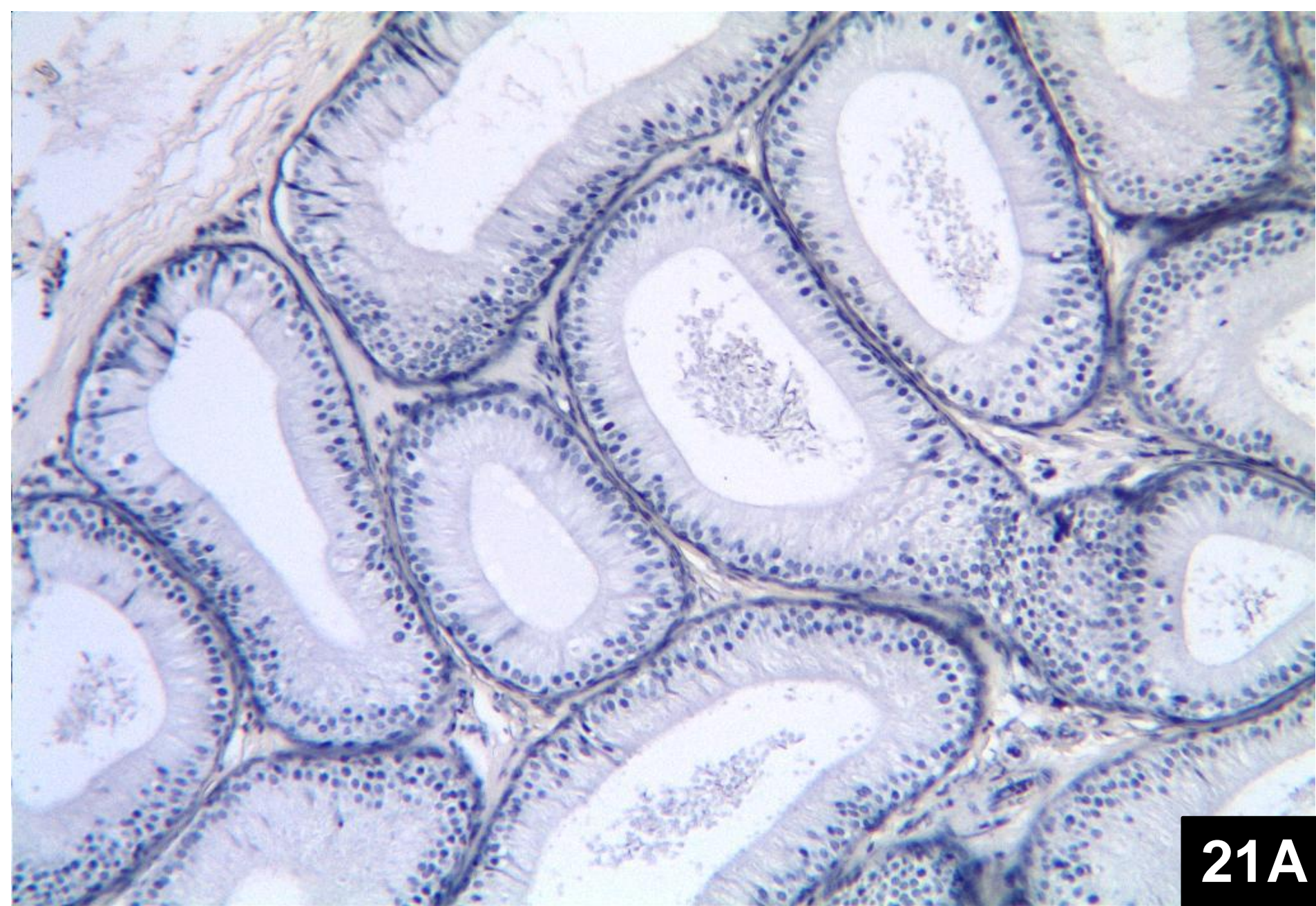


19D

Seminiferous Tubules

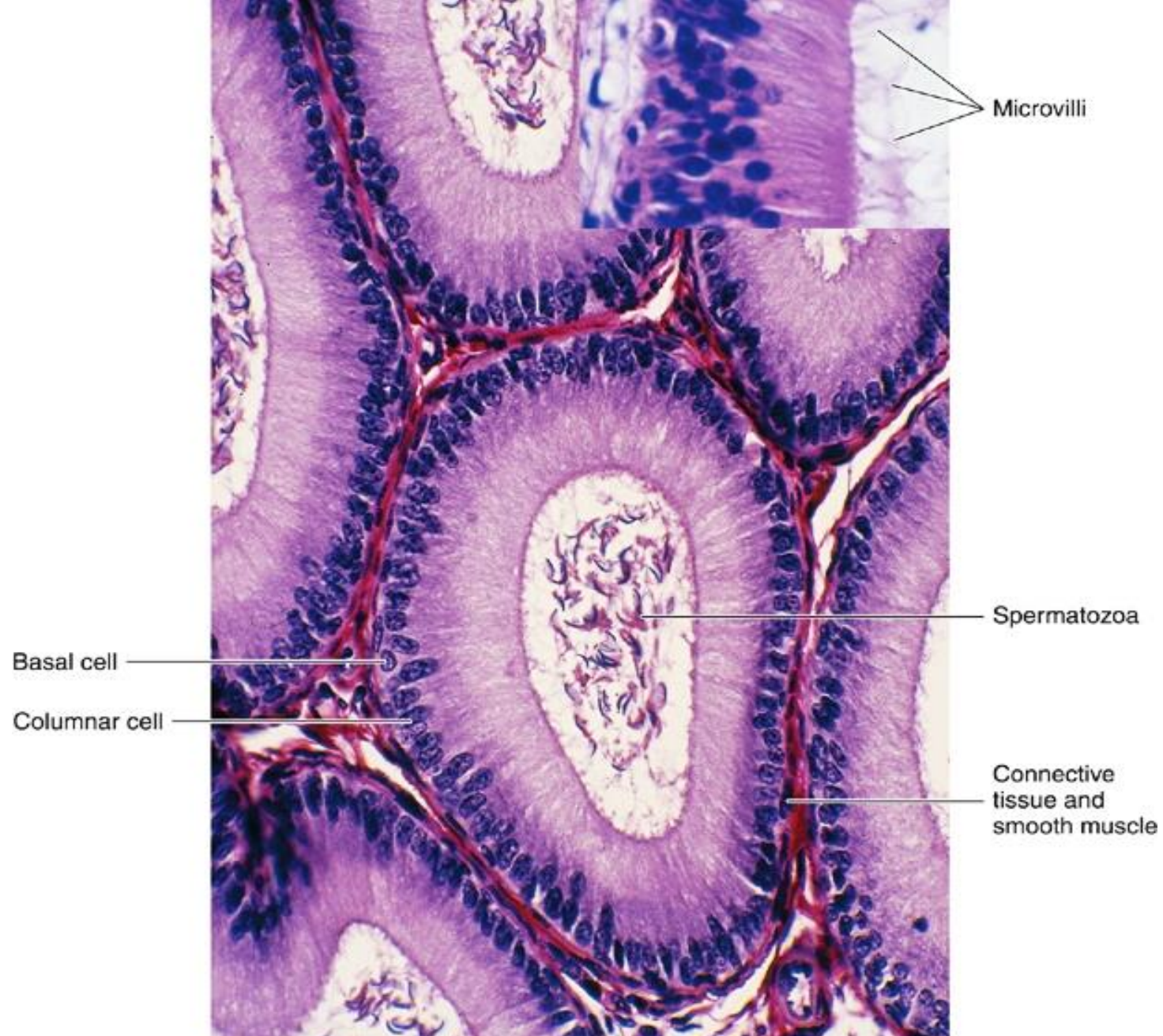


Section Through Epididymis (Low Power)



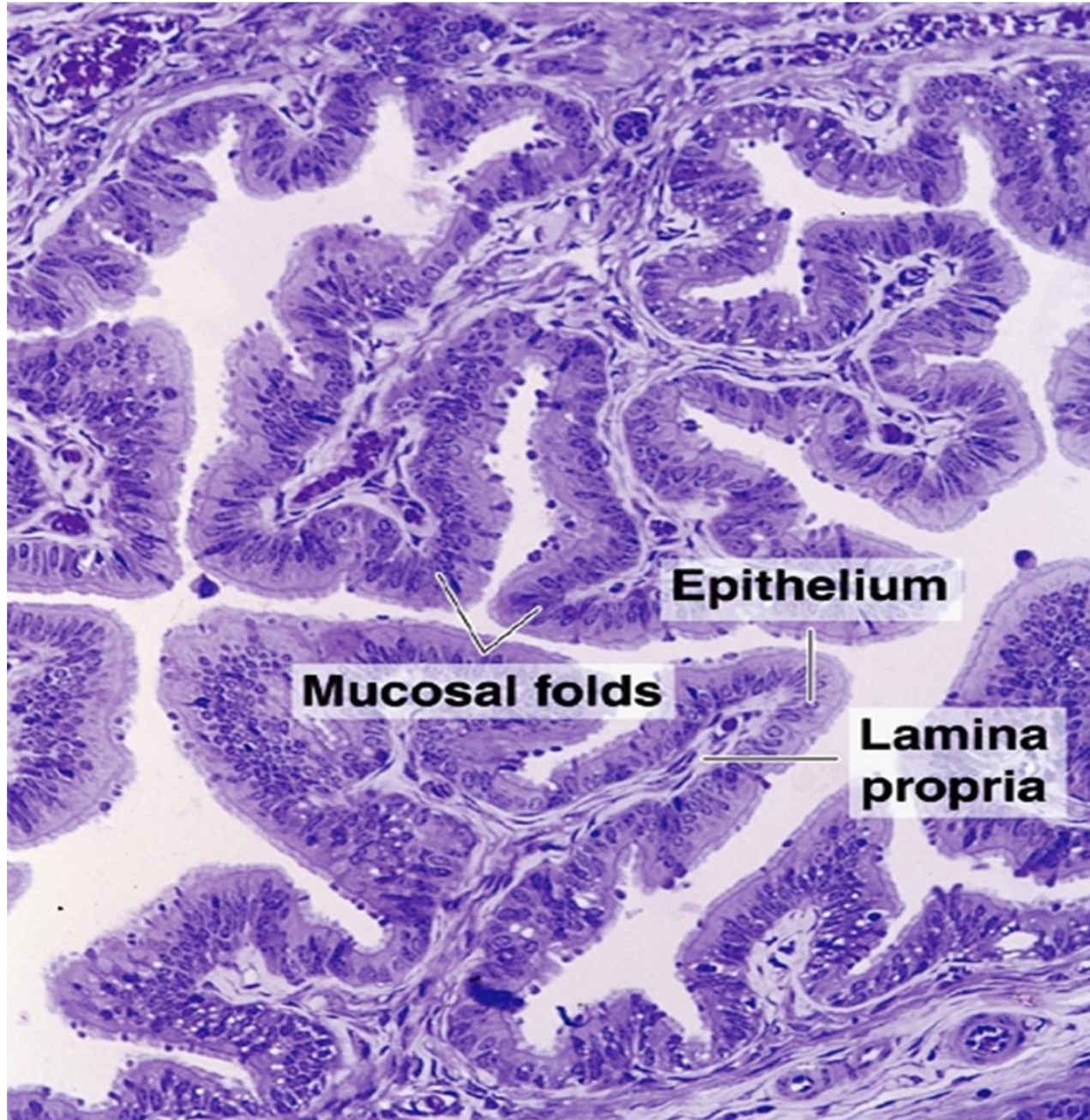
21A

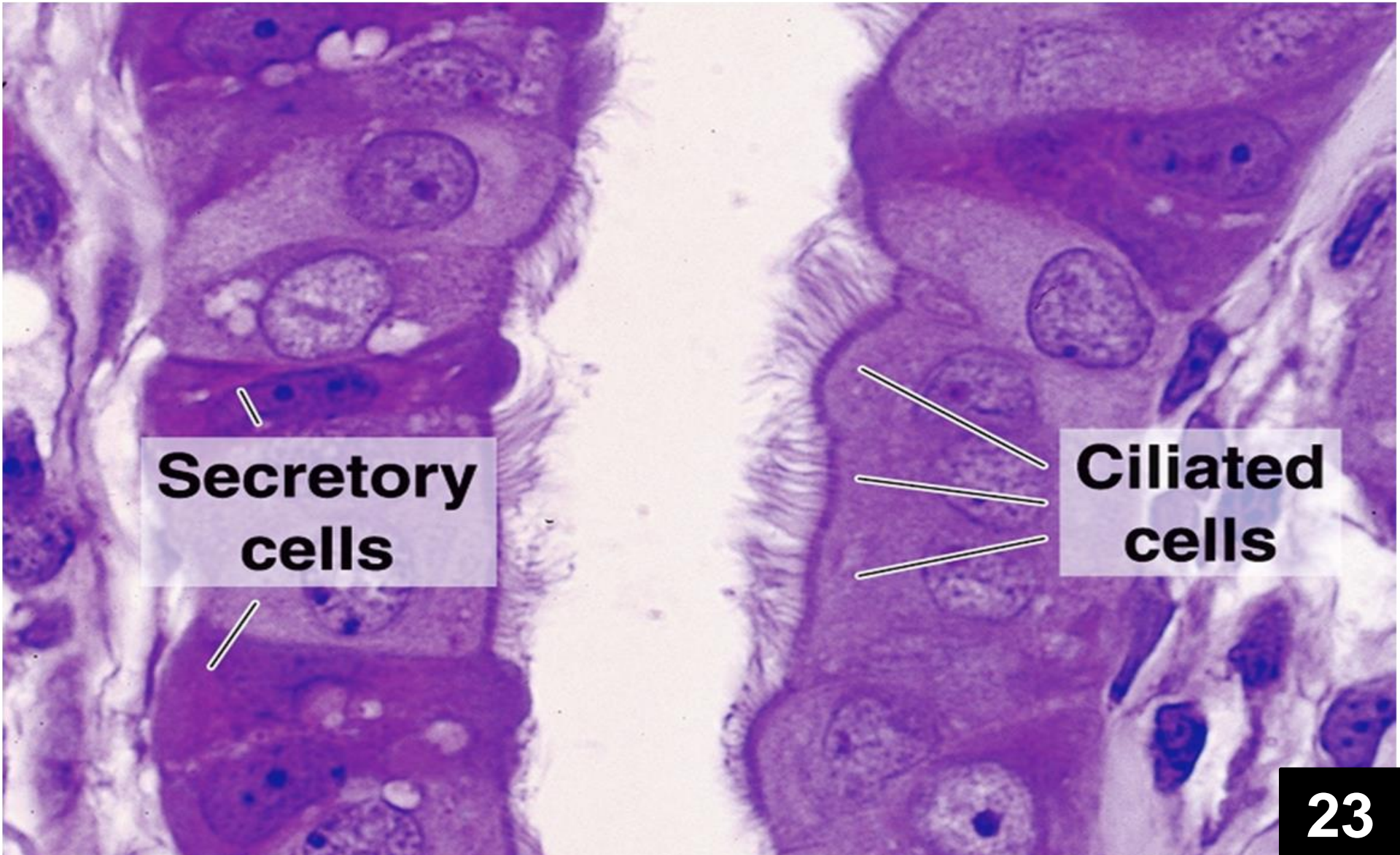
Section Through Epididymis (High Power)



21B

Section Through Epididymis (High Power)

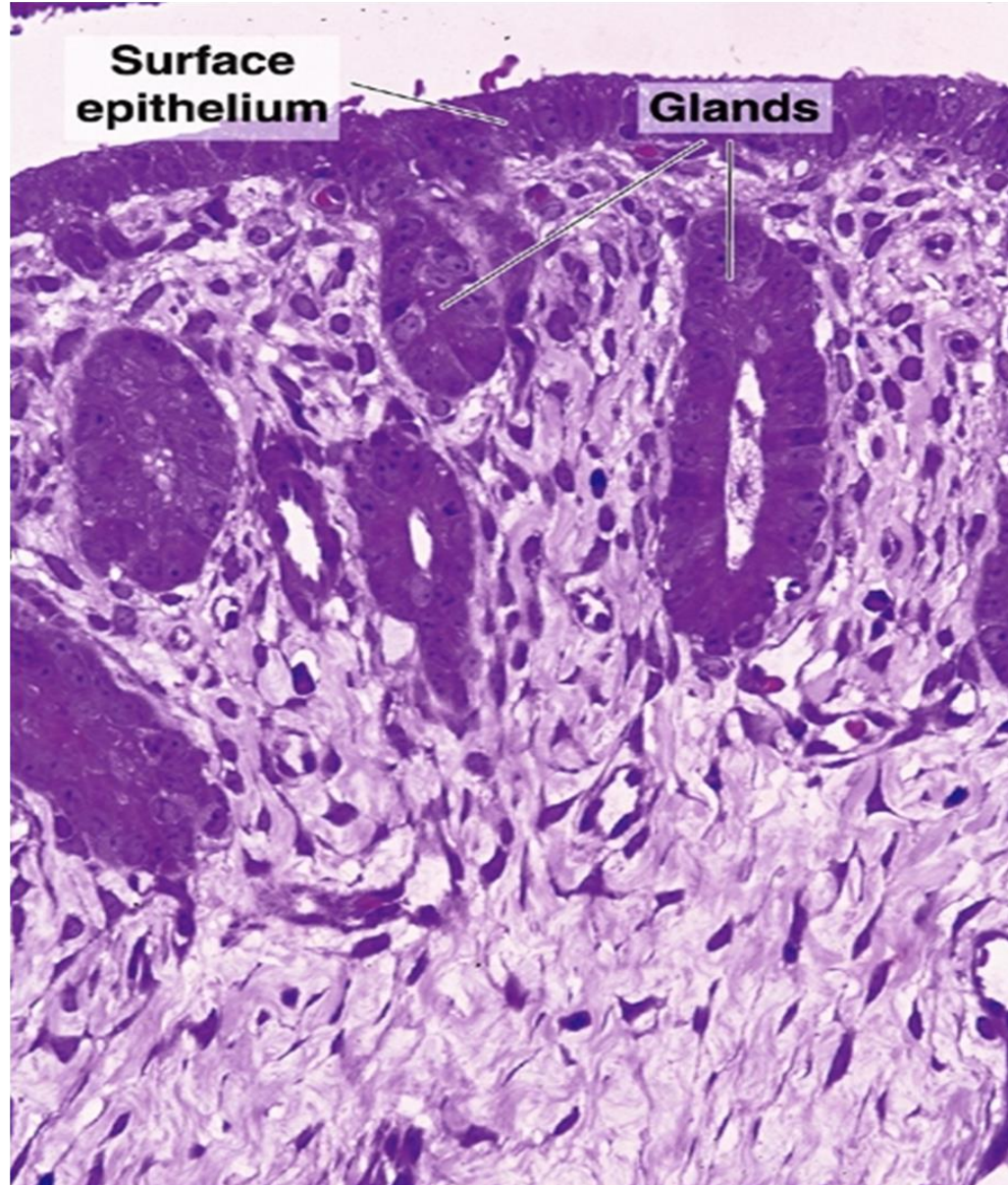




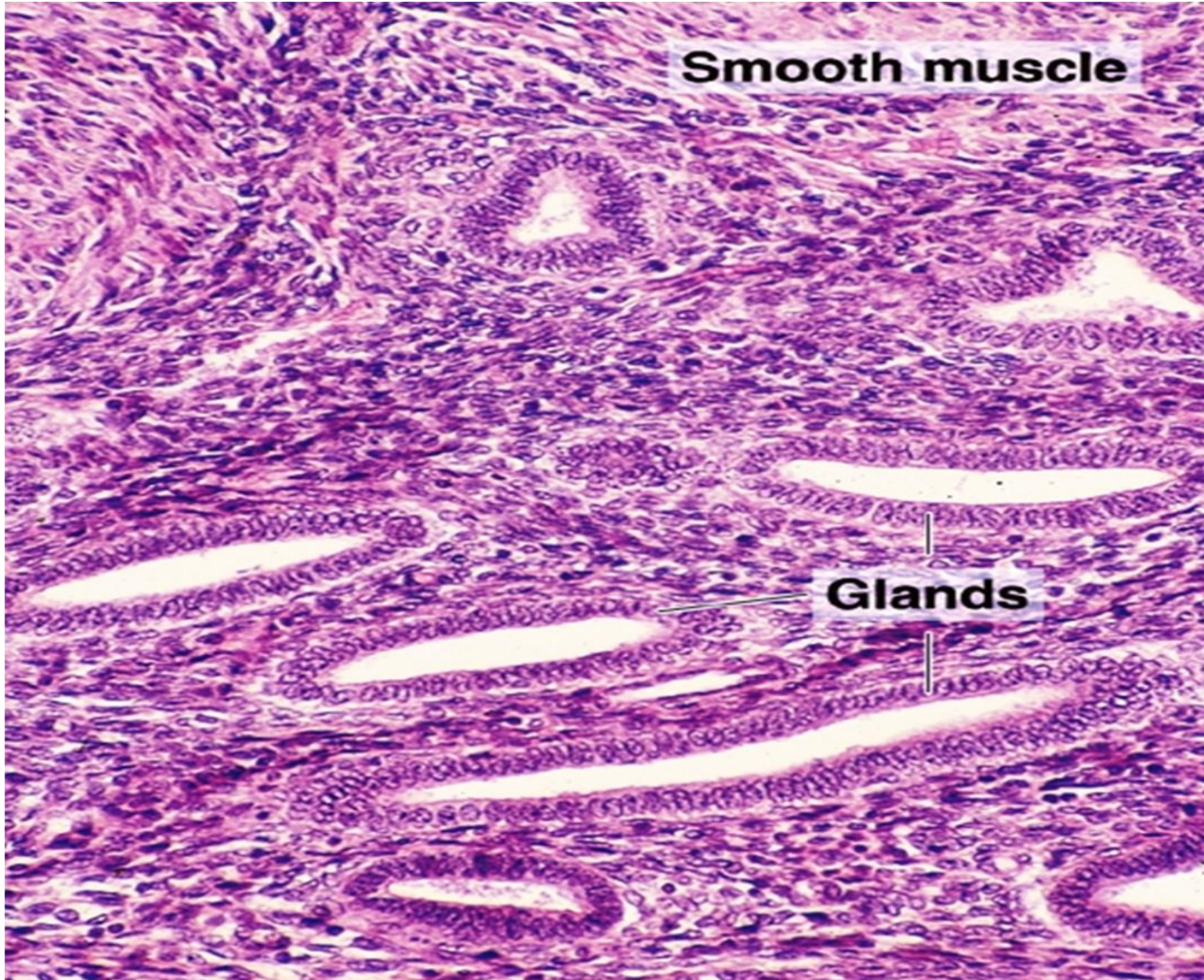
**Secretory
cells**

**Ciliated
cells**

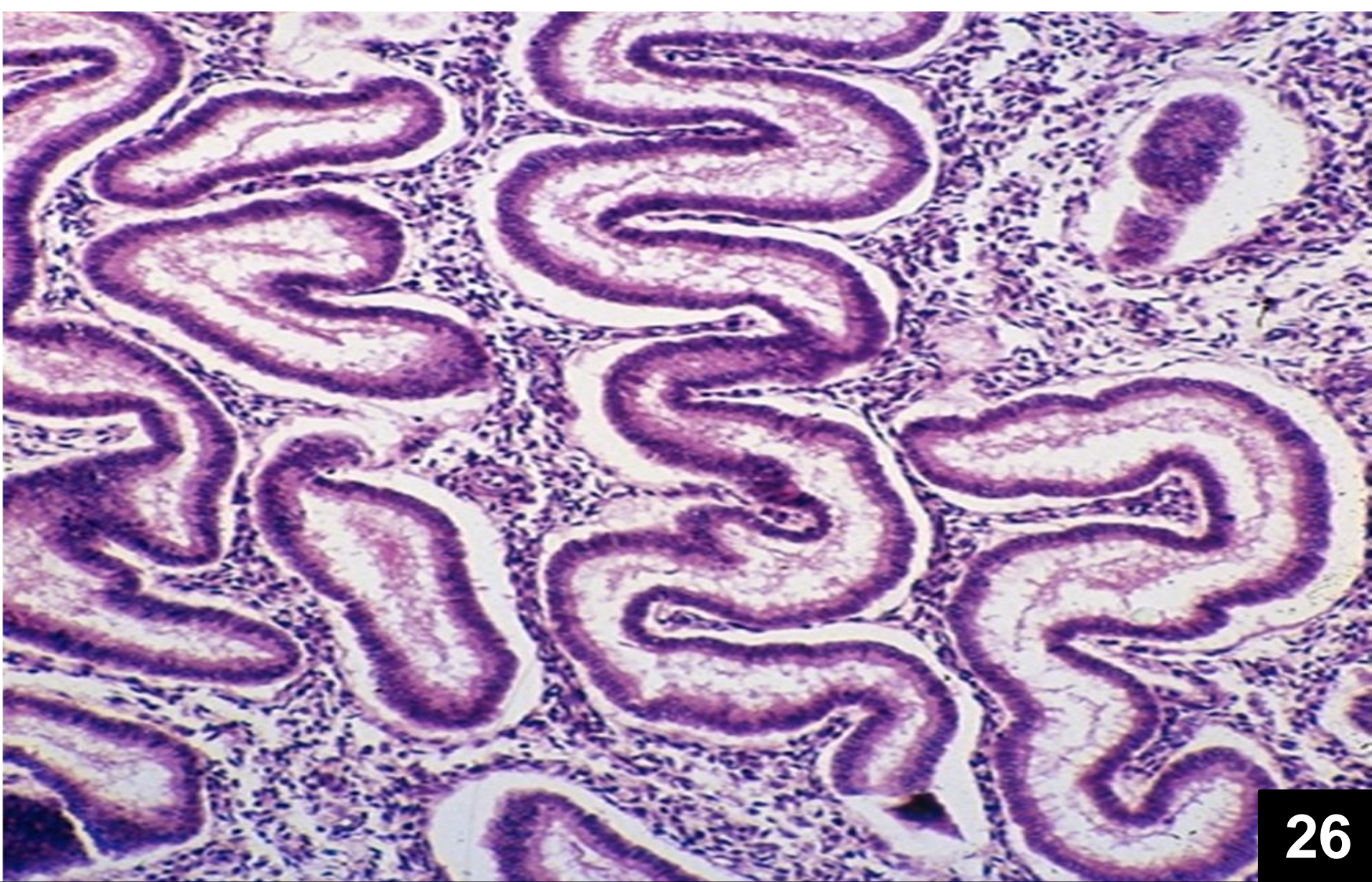
**Lining epithelium of uterine tube
(high power)**



Section Through Endometrium of Uterus (Medium Power)

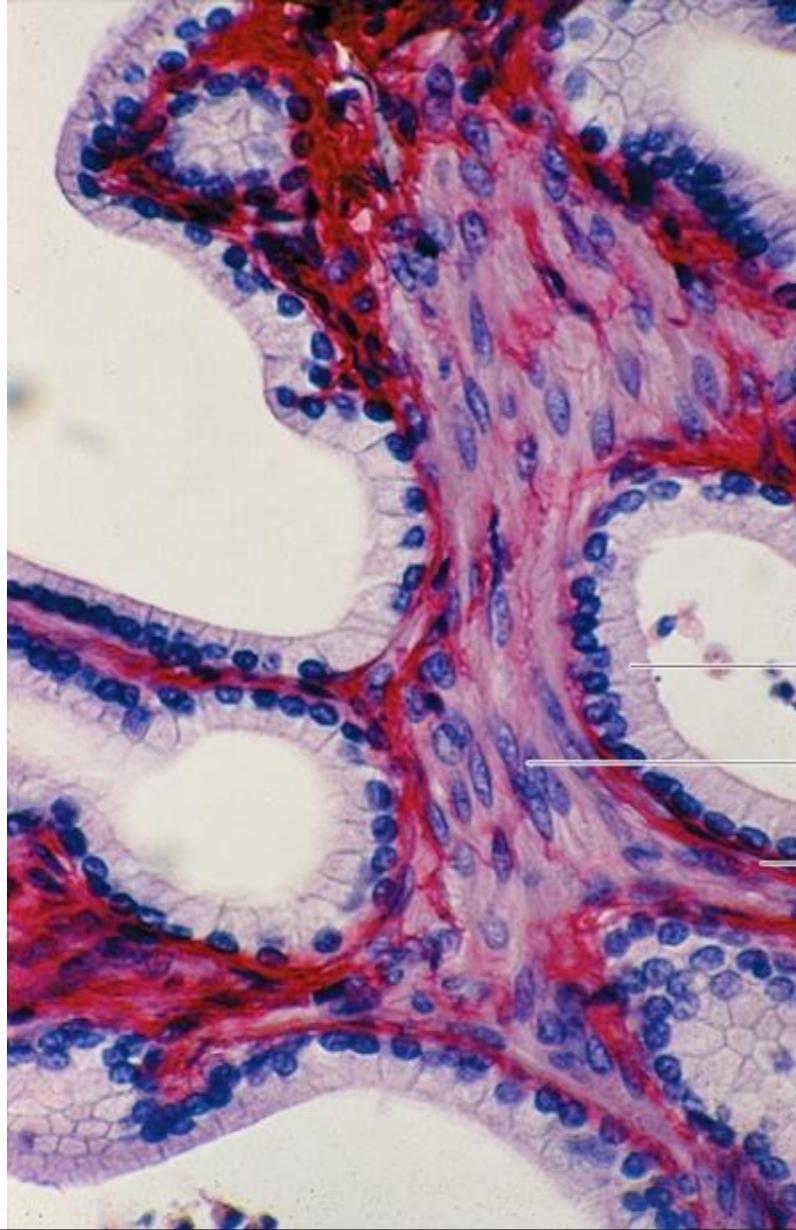


Endometrium of uterus during the proliferative phase (medium power)



26

Endometrium of uterus during the secretory phase (medium power)



Epithelium

Smooth muscle

Lamina propria

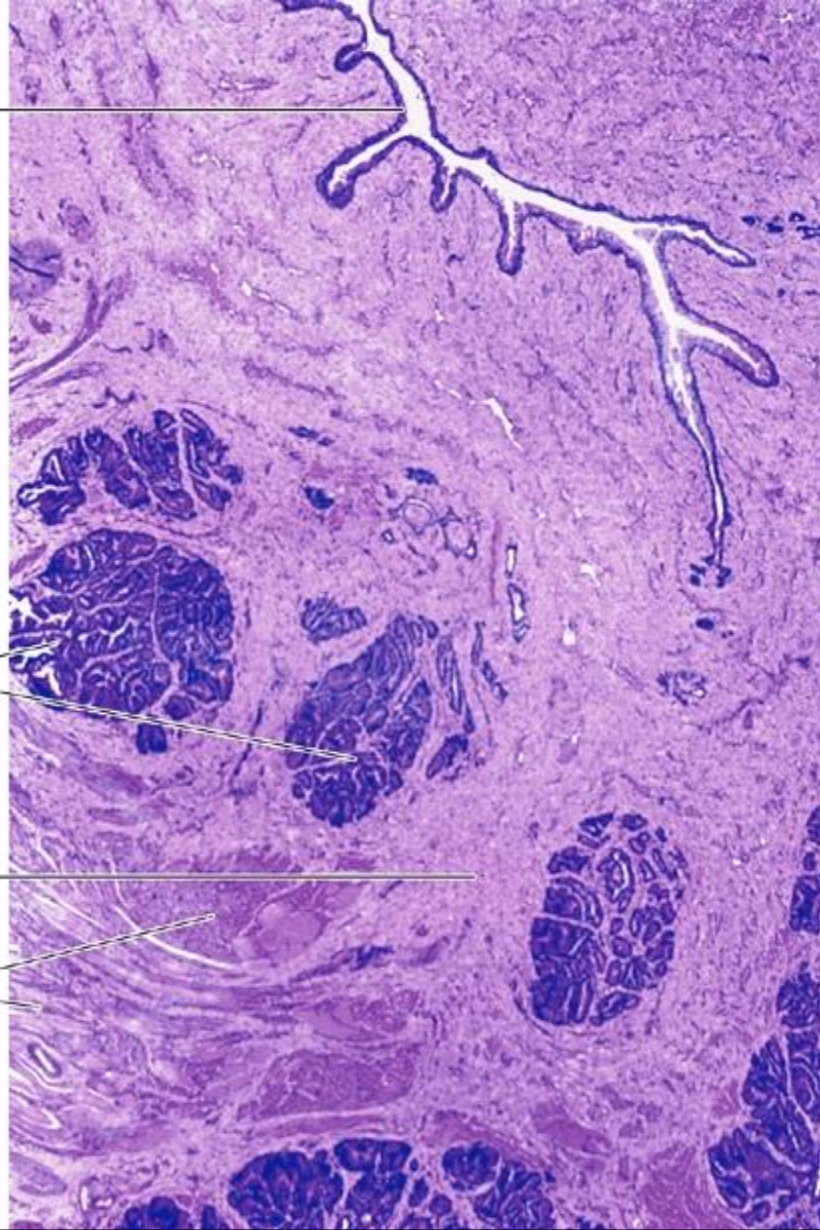
Section Through the Seminiferous Tubule

Prostatic urethra

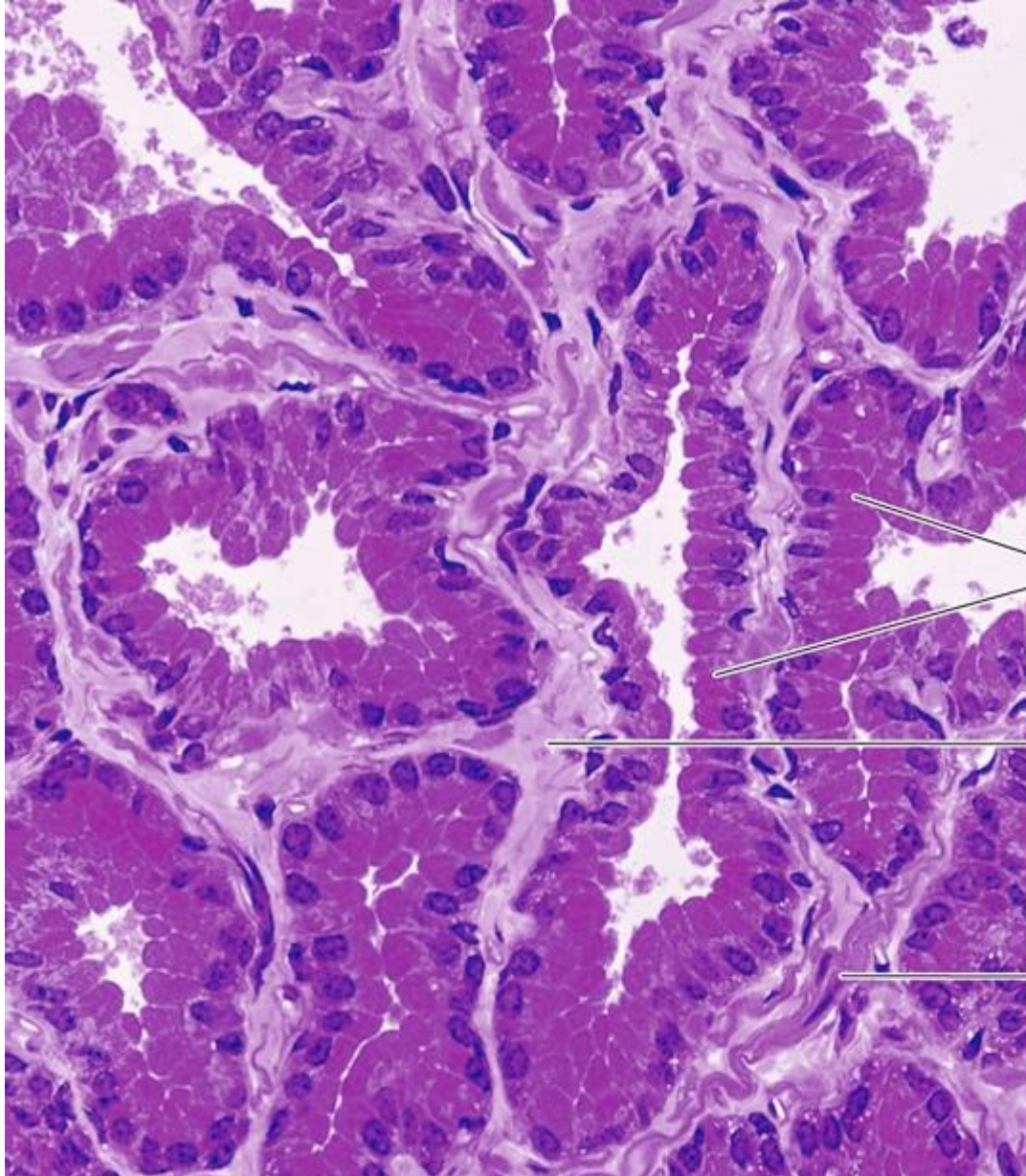
Glands

Connective tissue

Smooth muscle



The Prostatic Gland (Low Magnification)

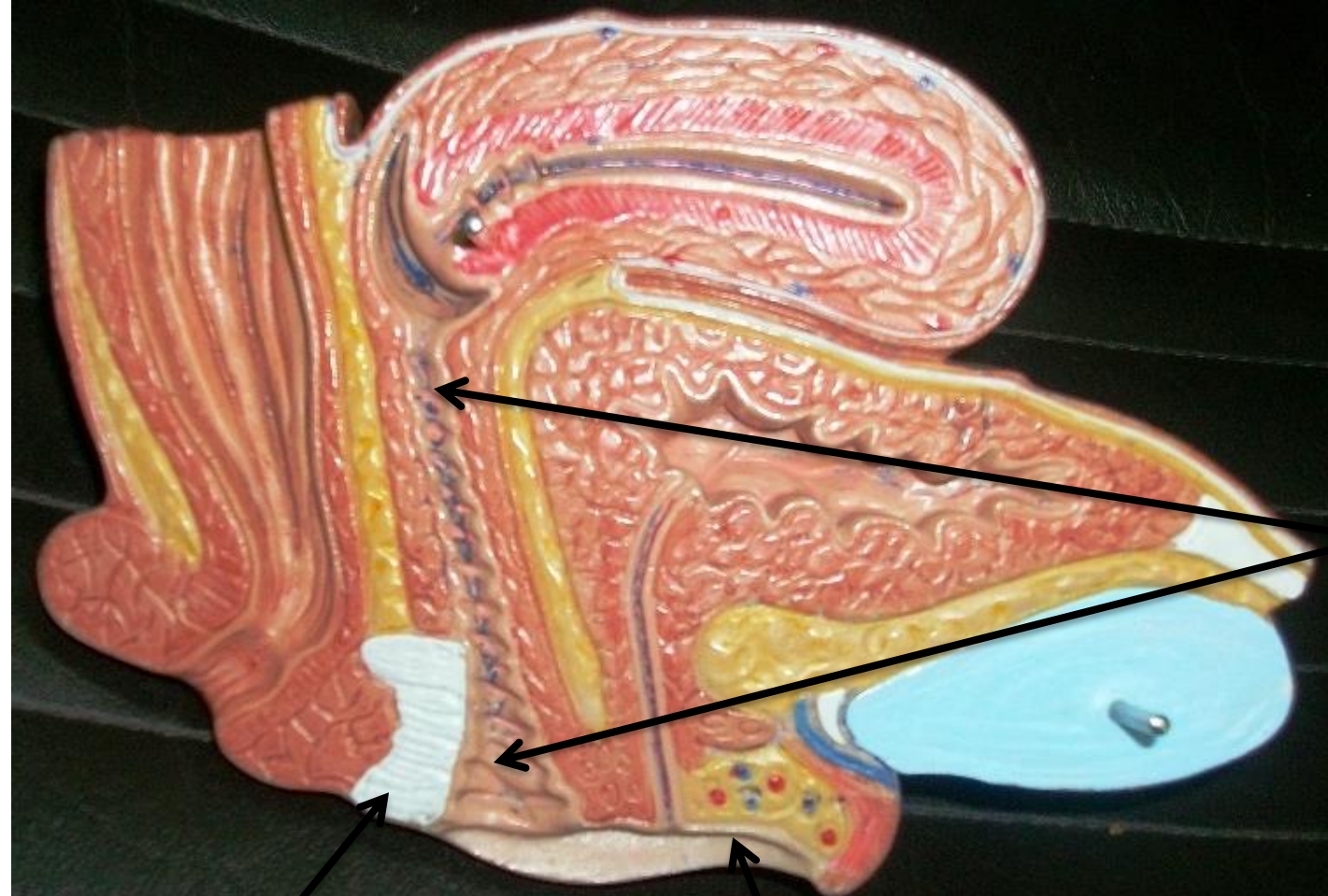


Glandular
epithelium

Connective
tissue

Smooth
muscle

The Prostatic Gland (Medium Magnification)



Vagina

Perineal membrane

Vestibule

Female Genital Organs

Posterior vaginal fornix

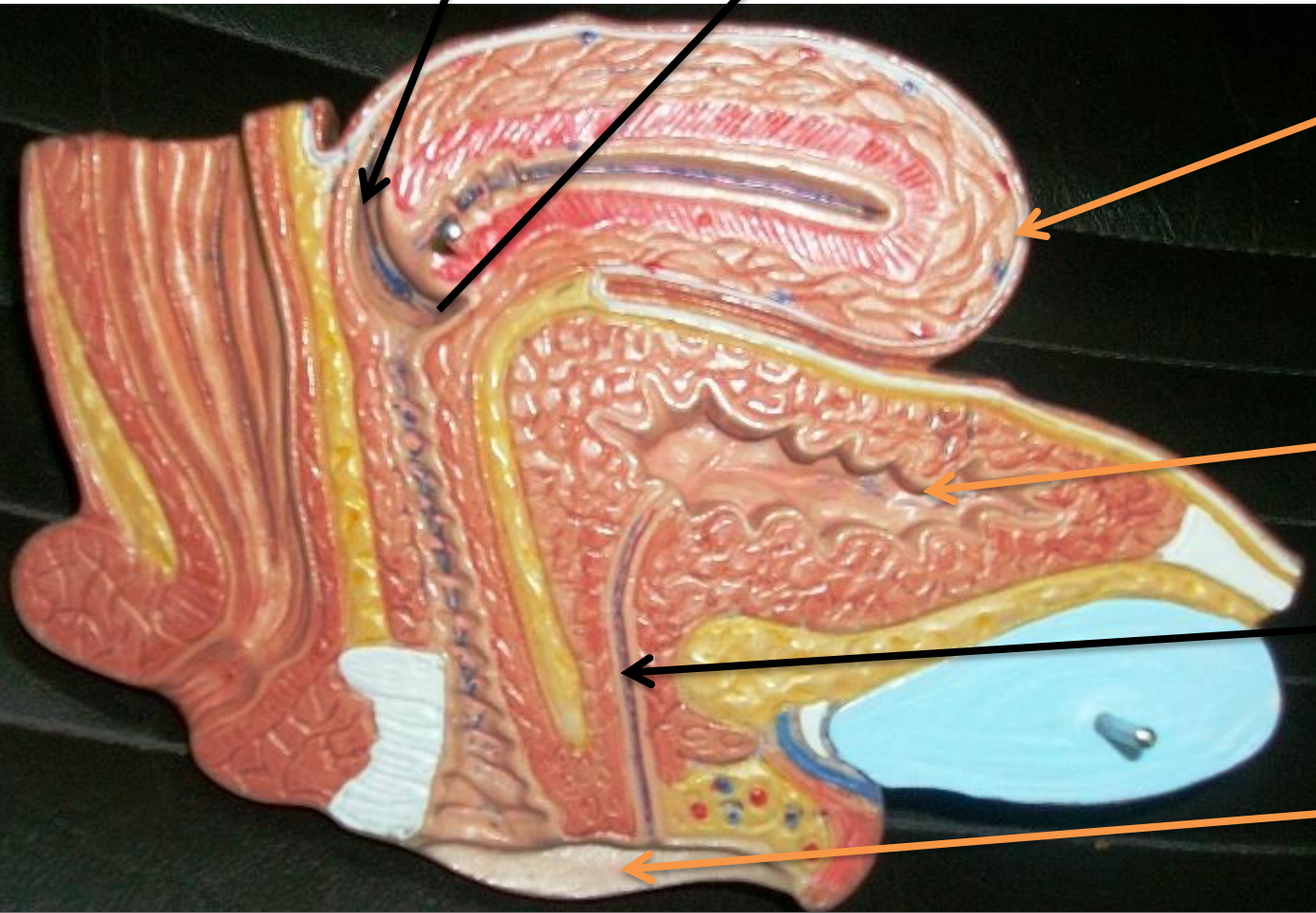
Anterior vaginal fornix

Fundus part of uterus

Urinary bladder

Urethra

Labia minora



Female Genital Organs

Rectouterine pouch

Isthmus part of uterus

Body of uterus

Uterovesical pouch

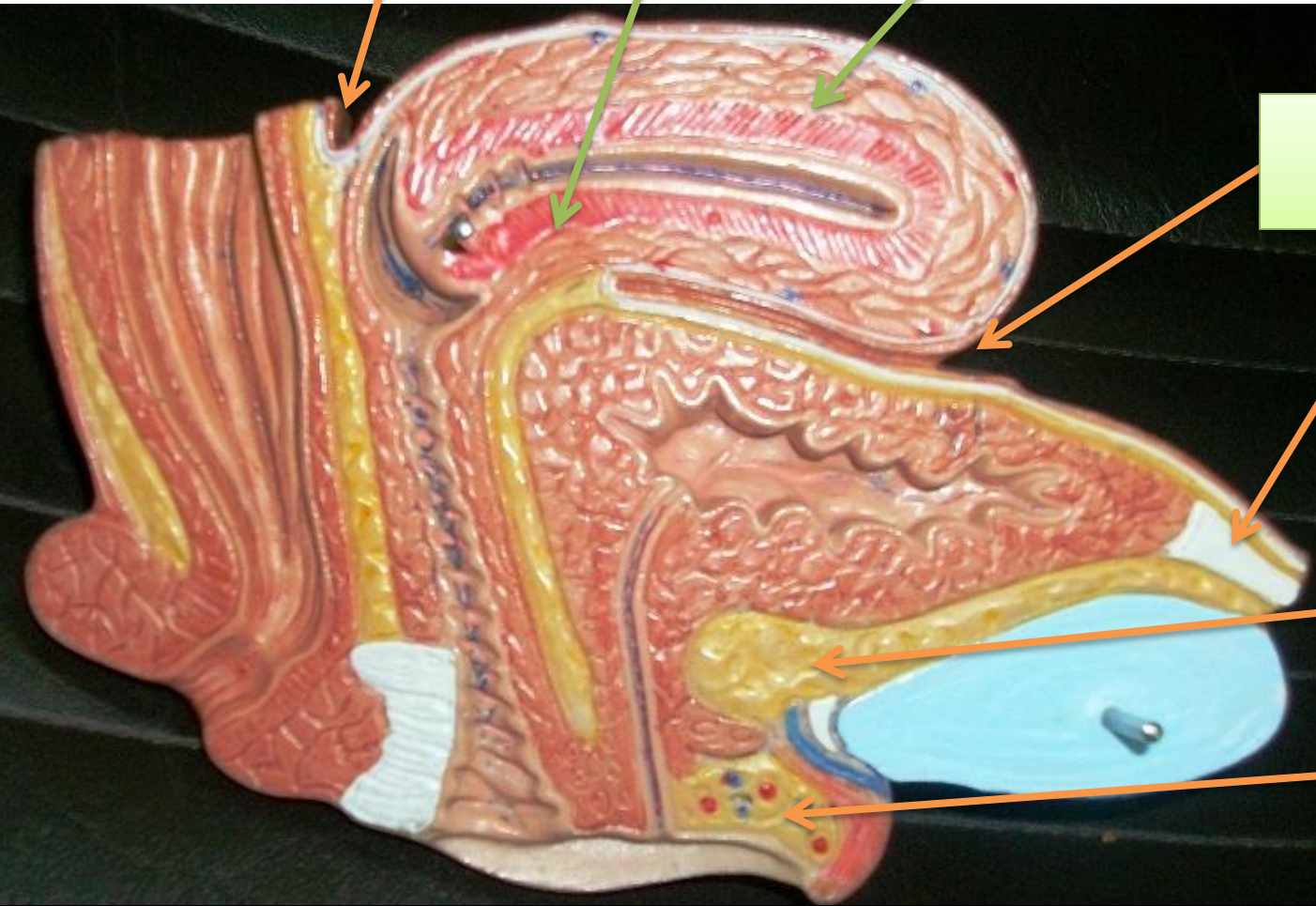
Median umbilical ligament

Retropubic pad of fat

Clitoris

32

Female Genital Organs



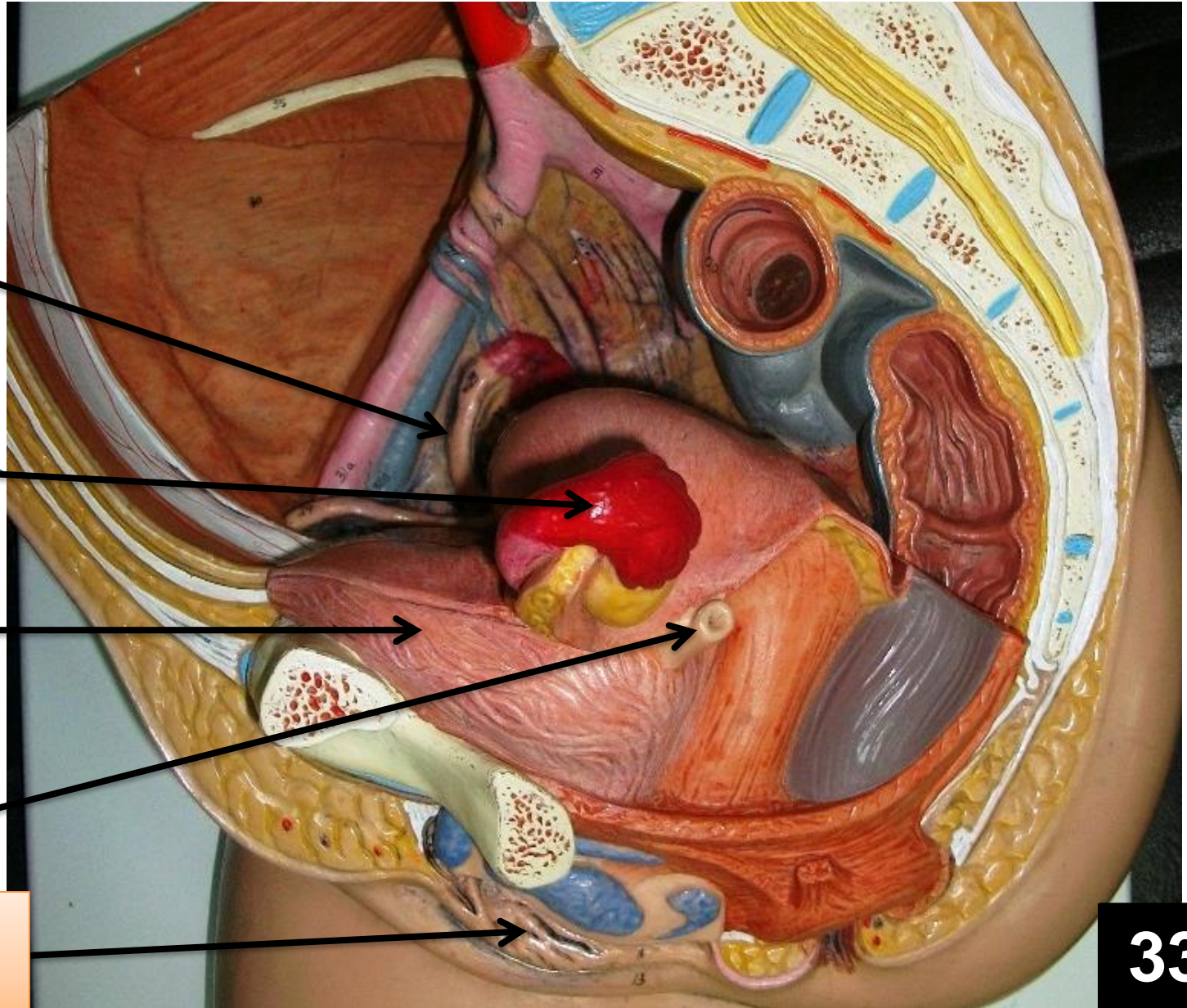
Uterine tube

Ovary

Urinary bladder

Ureter

Labia minora

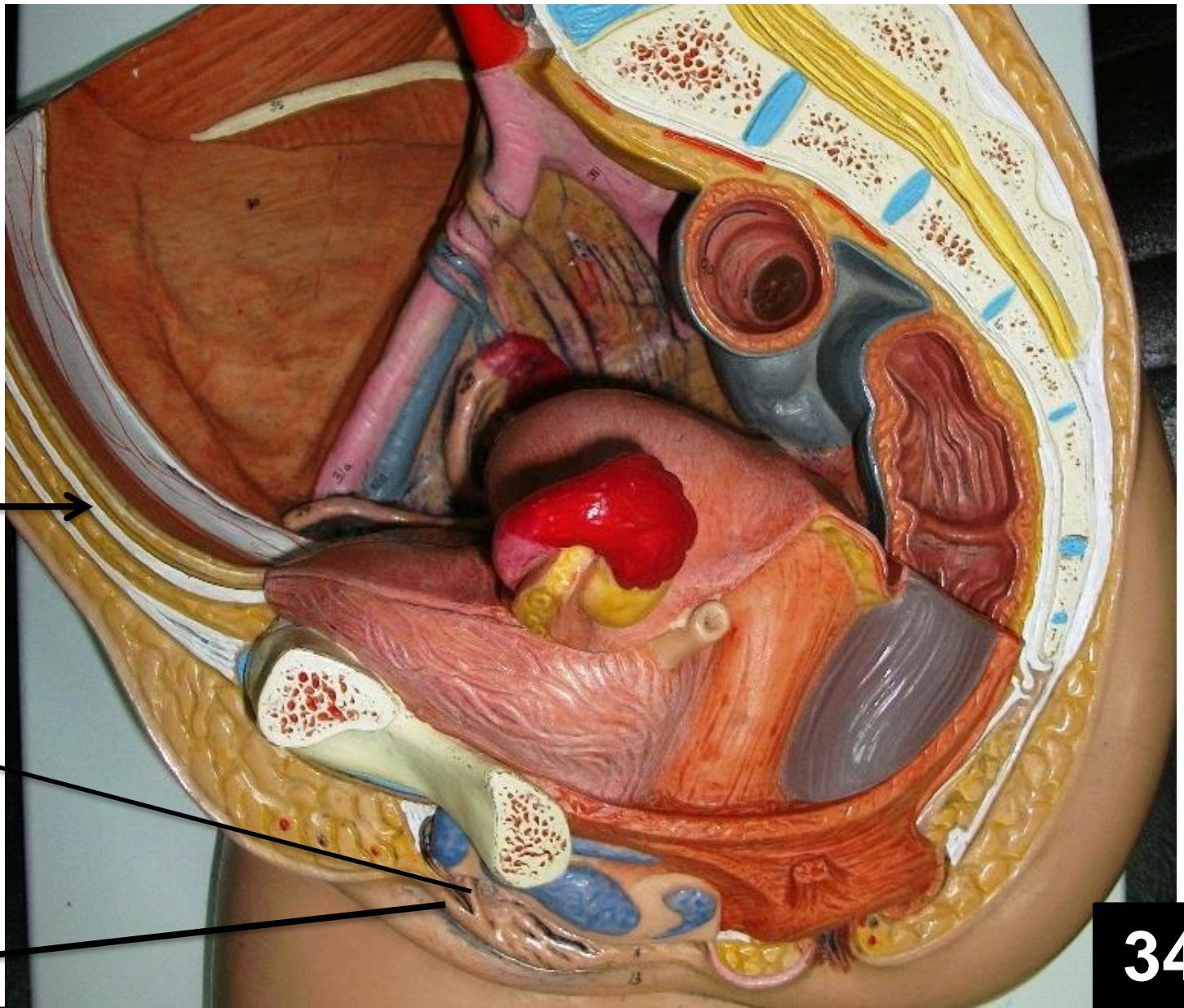


Female Genital Organs

**Median
umbilical
ligament**

Frenulum

Prepuce



Female Genital Organs

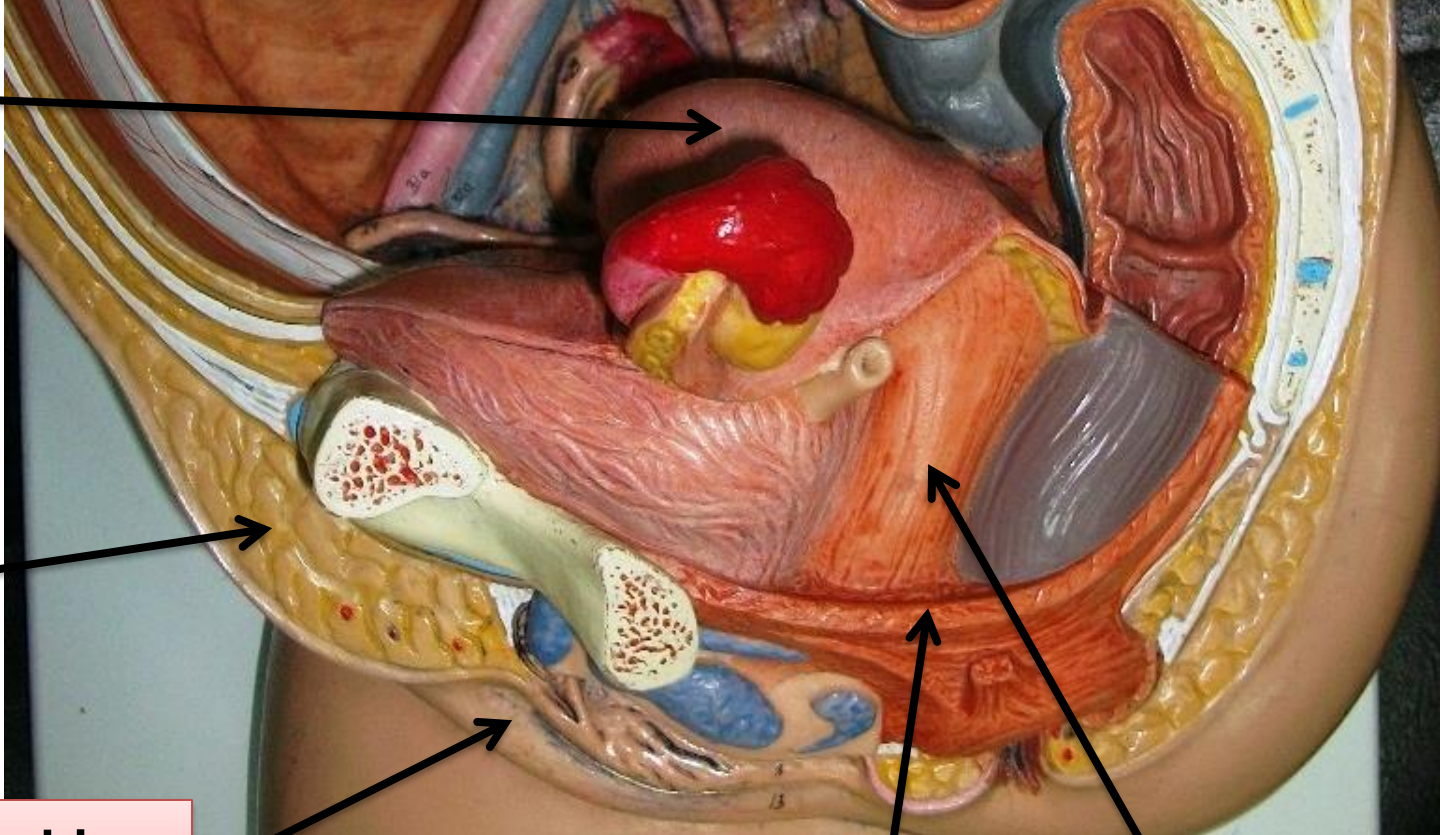
Uterus

Retropubic
pad of fat

Labia
majora

Pelvic
diaphragm
(levator ani)

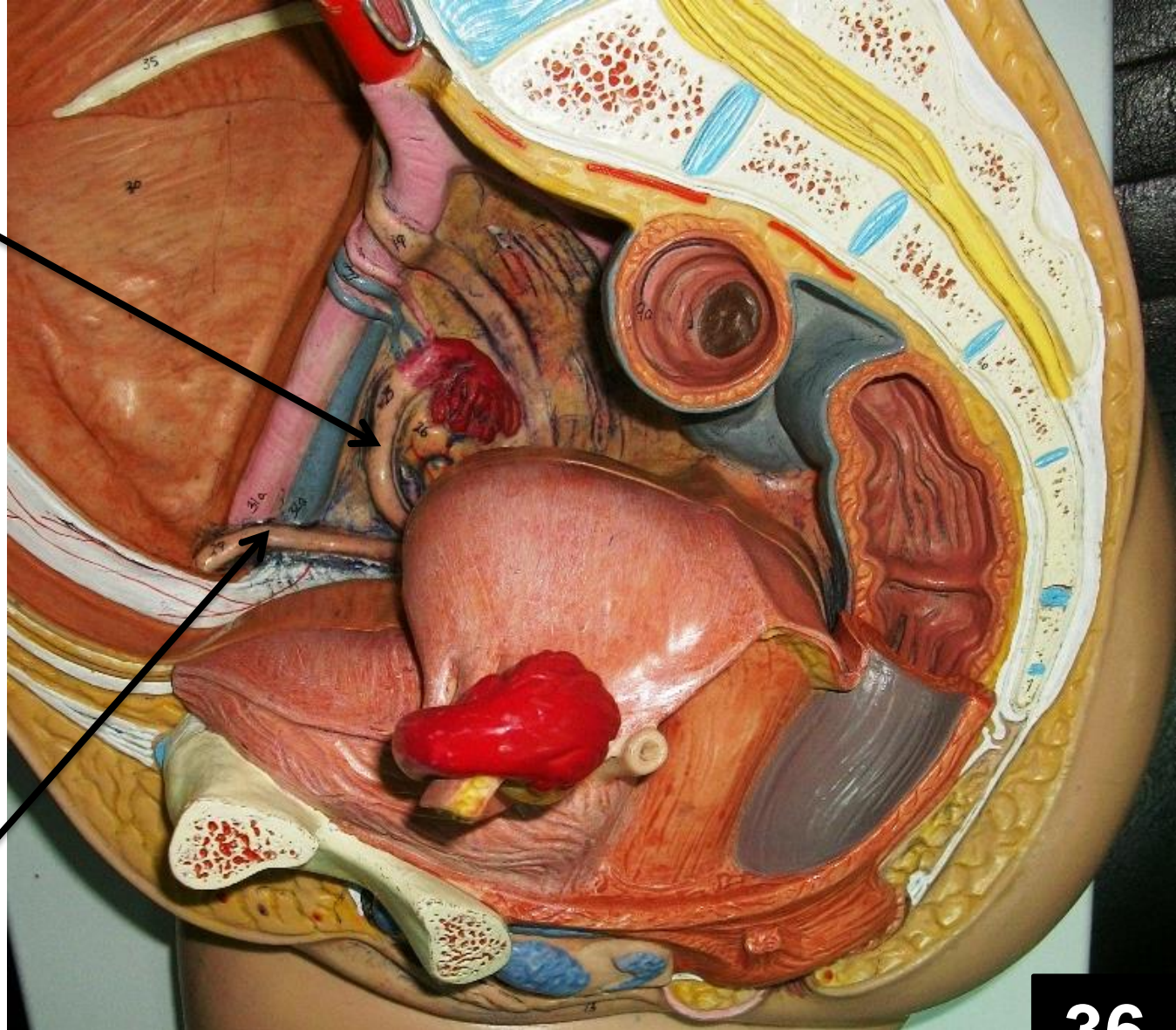
Vagina



Female Genital Organs

Uterine tube

**Round
ligament of
uterus**



36

Female Genital Organs



Infundibulum
part of
Uterine tube

Fimbriae

Ampula part
of Uterine
tube

vaginal part of
cervix

Supravaginal
part of cervix

Female Genital Organs

**Infundibulum
part of
Uterine tube**

Cervical canal

Uterine cavity

38

Female Genital Organs



Urinary bladder

Prostatic urethra

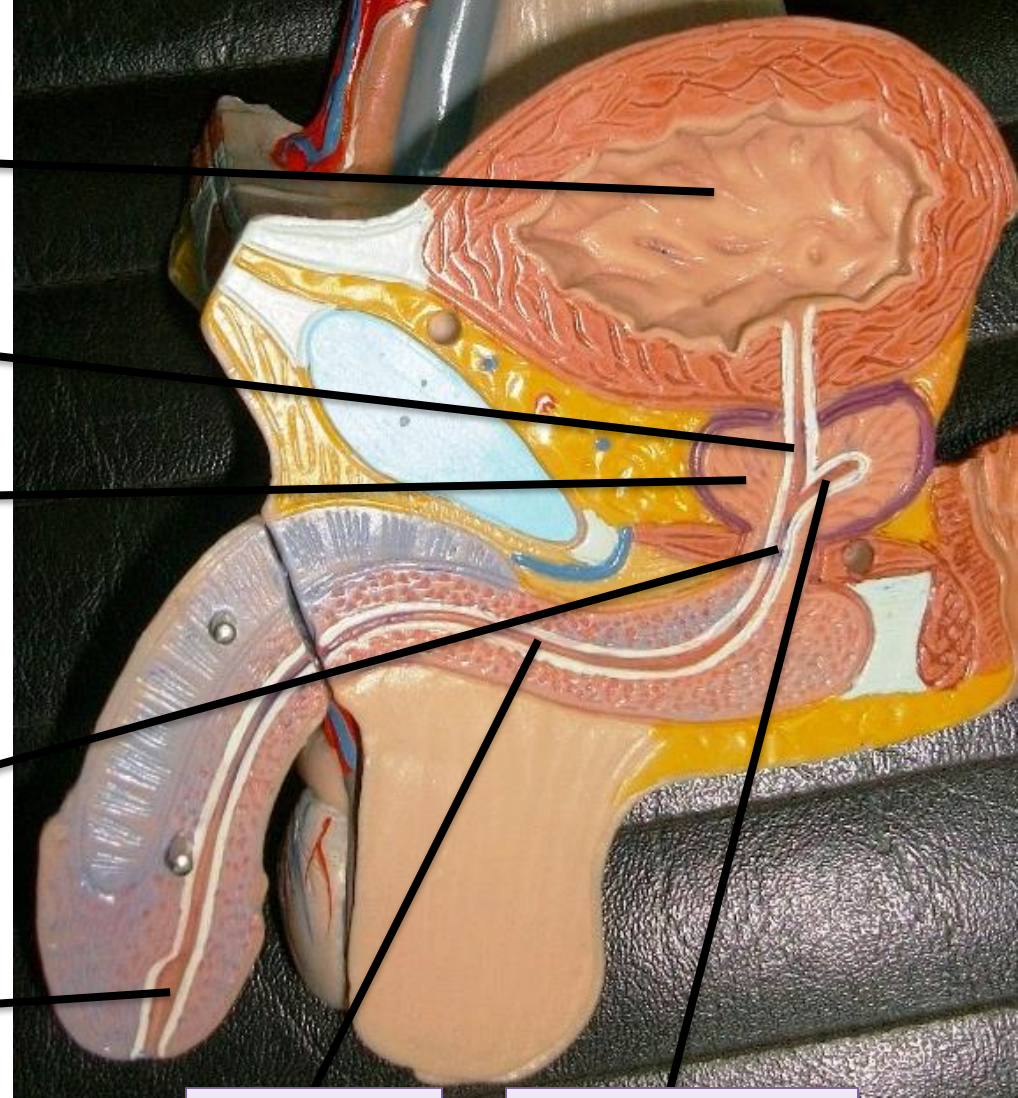
Prostate gland

Membranous urethra

**Navicular fossa
(fossa terminalis)**

**Penile
urethra**

**Ejaculatory
duct**

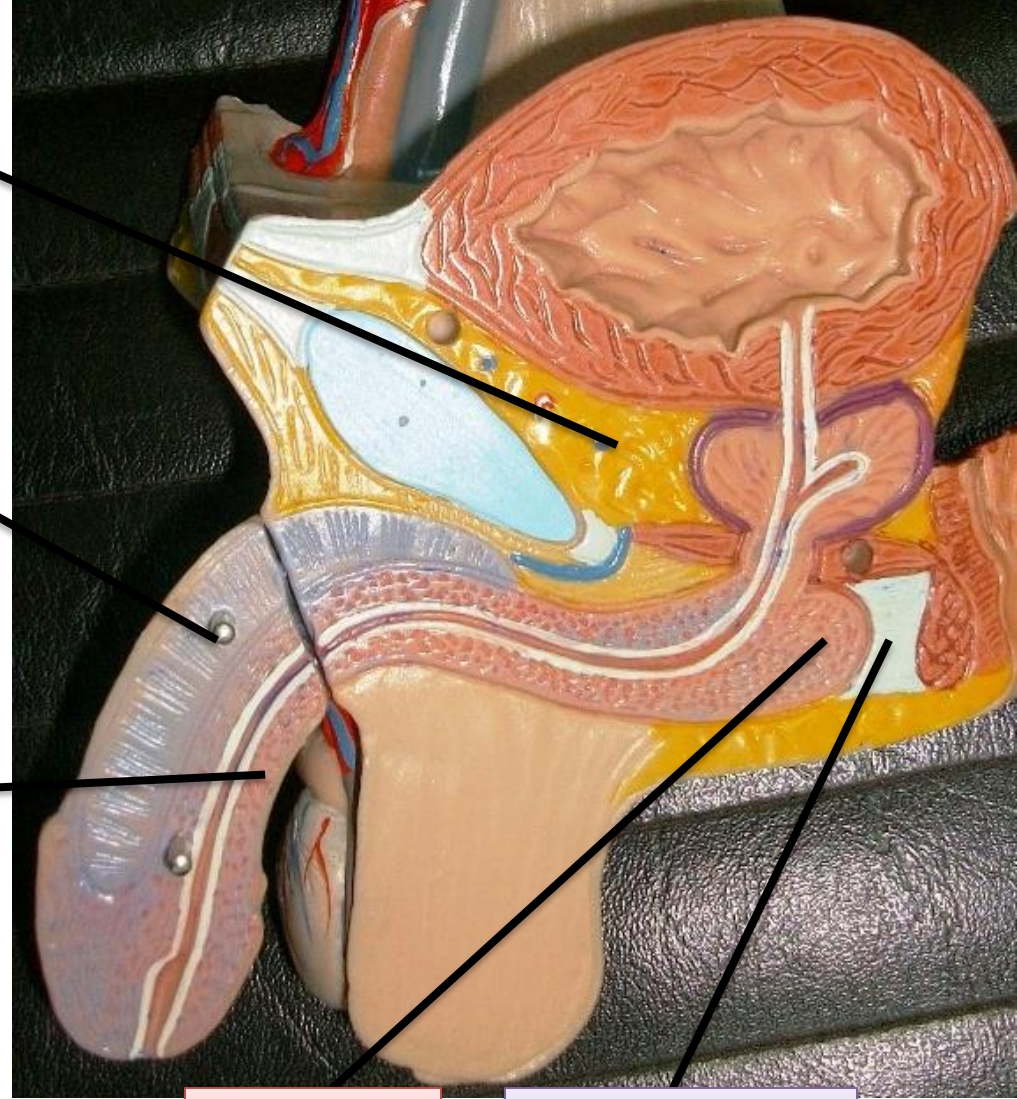


Male Genital Organs

Retropubic pad of fat

**Corpus
Cavernosum**

Corpus spongiosum

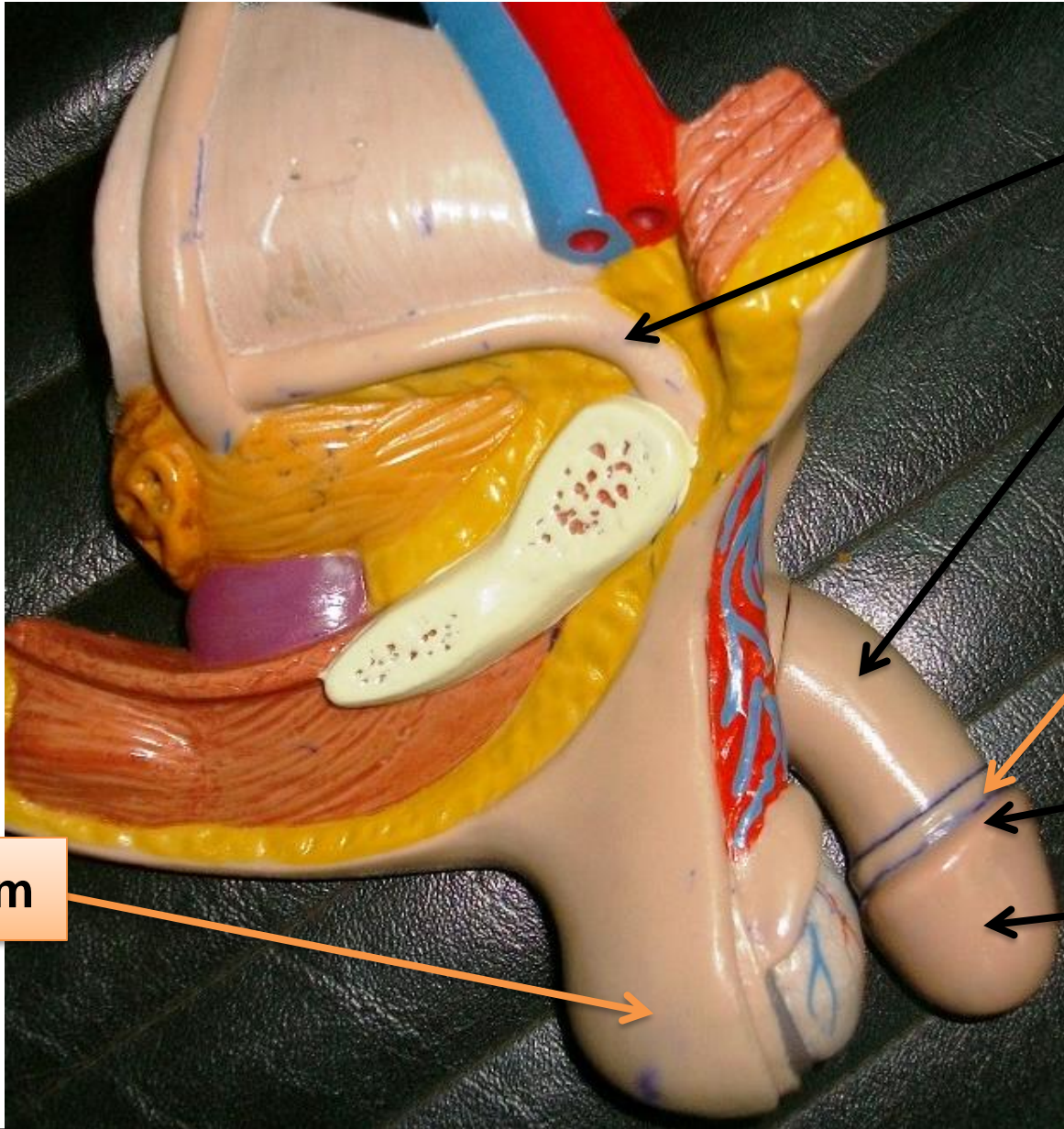


**Bulb of
penis**

**Perineal
body**

40

Male Genital Organs



Vas deferens

Body of penis

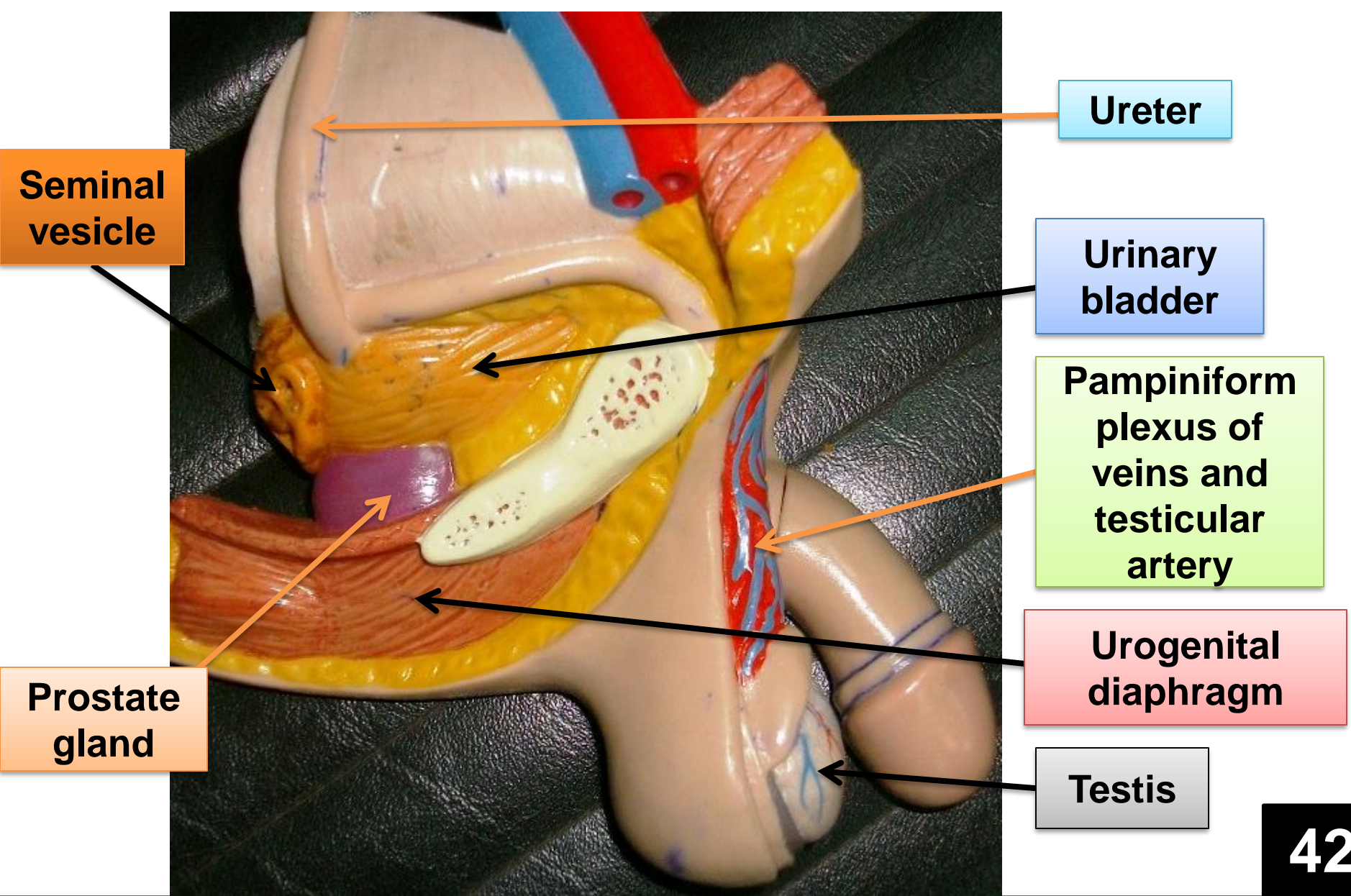
Neck of penis

Corona of penis

Glans penis

Scrotum

Male Genital Organs



Male Genital Organs

Obturator internus muscle and fascia

Tendinous arch
for insertion of
Levator ani

Periformis

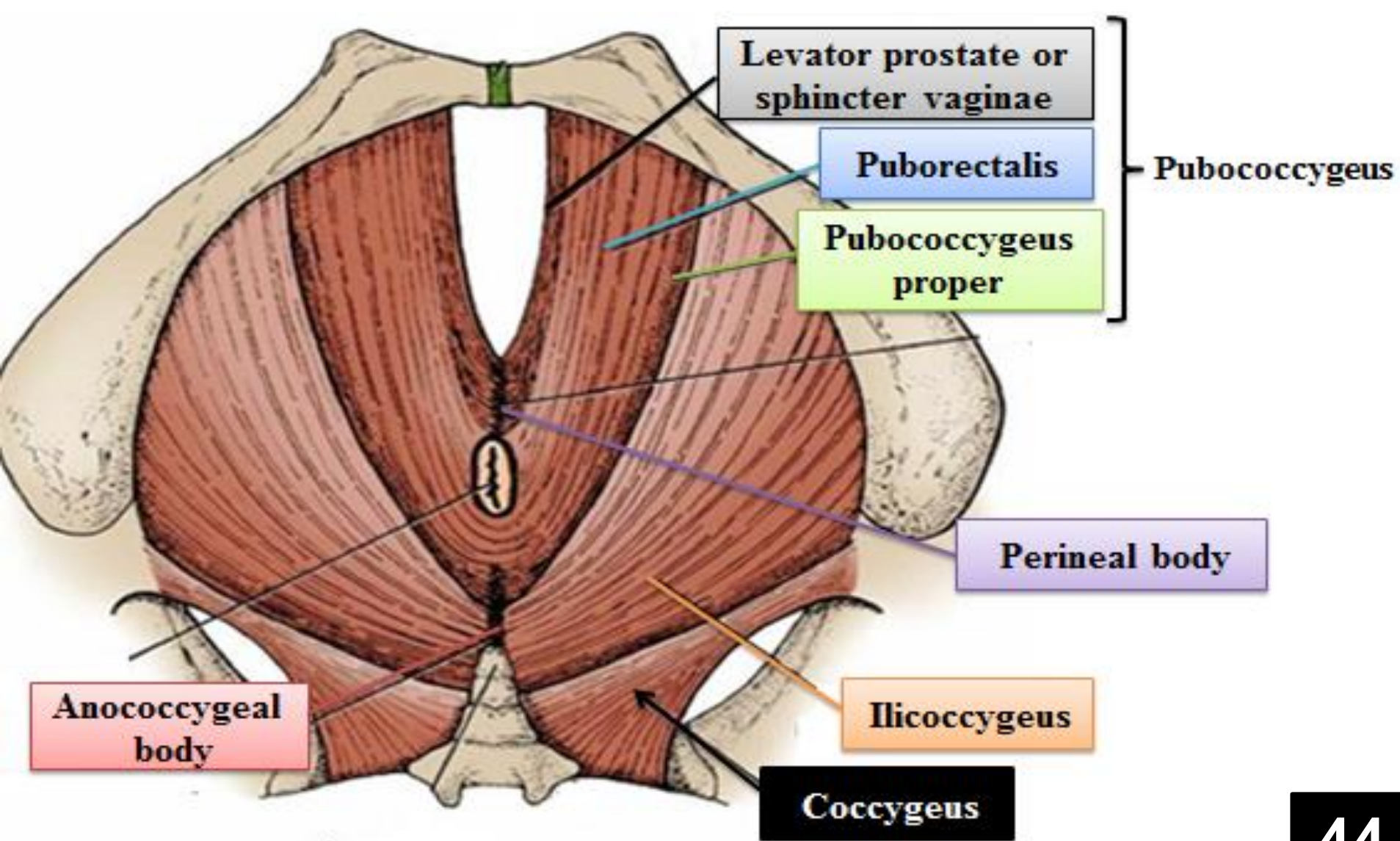
Coccygeus

Levator ani

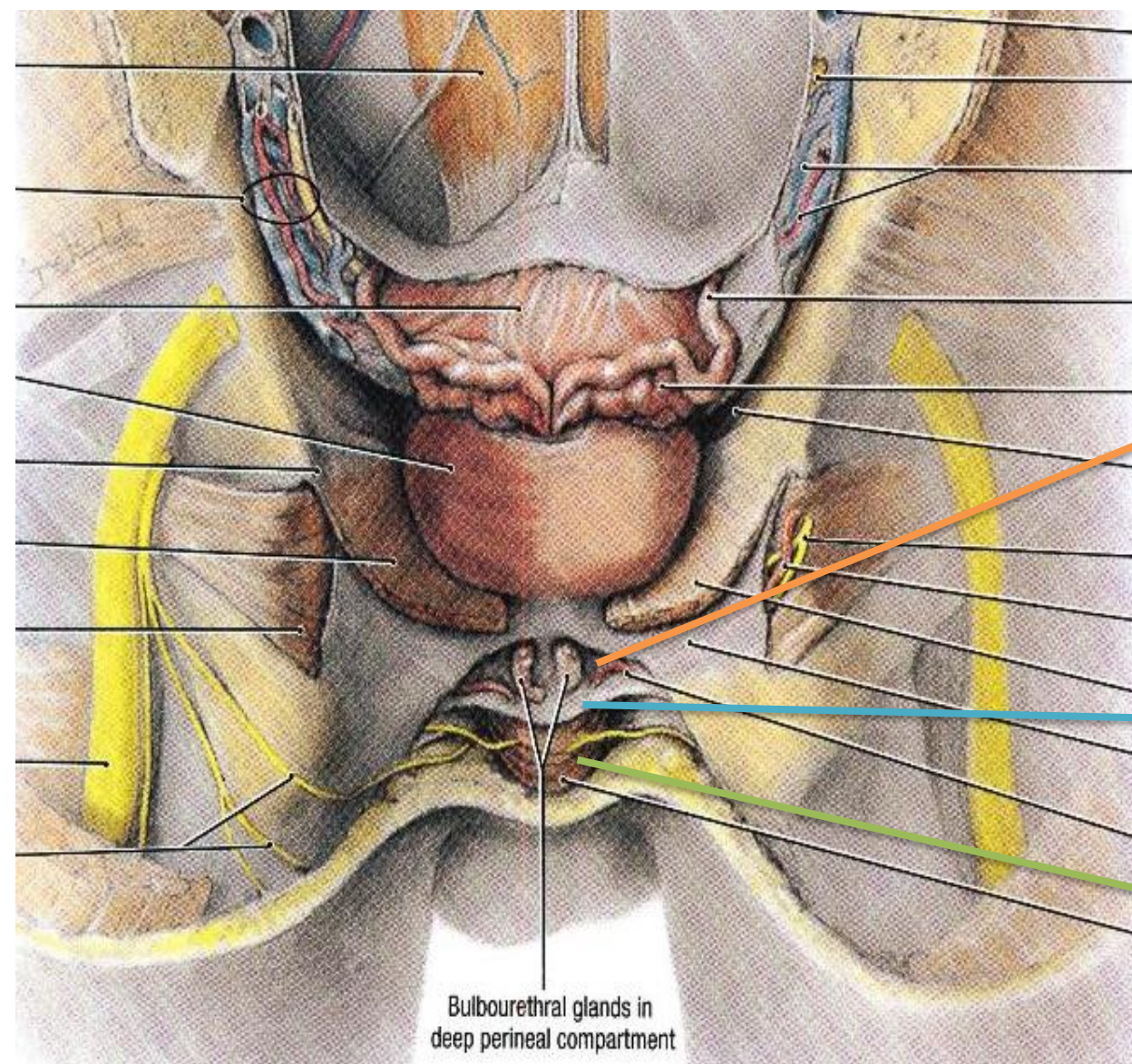
Superior and inferior fascia
of urogenital diaphragm

43

Muscular Wall of Pelvic Cavity



Muscles of the Floor of Pelvic Cavity Pelvic Diaphragm



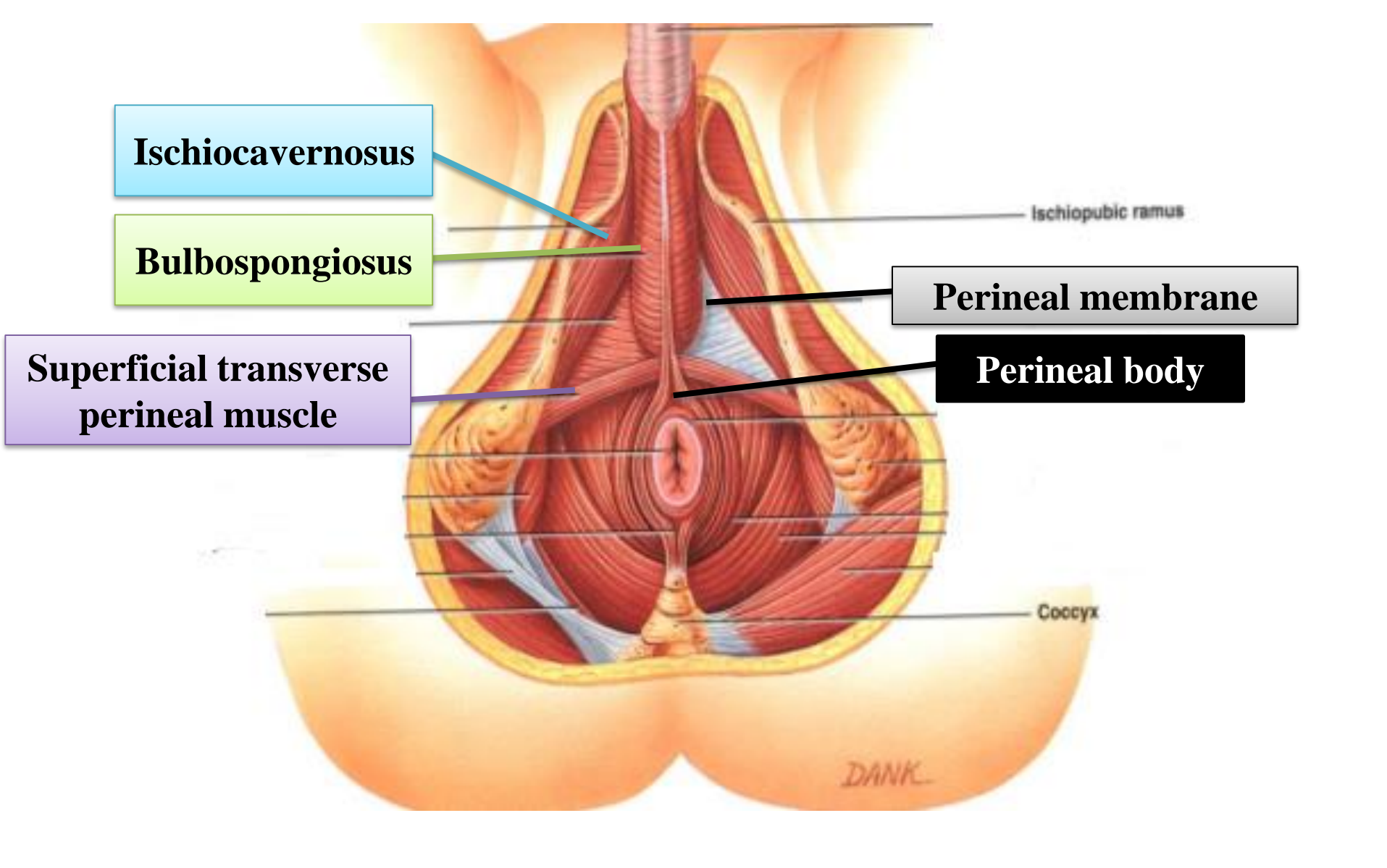
Bulbourethral glands in deep perineal compartment

Deep perineal pouch

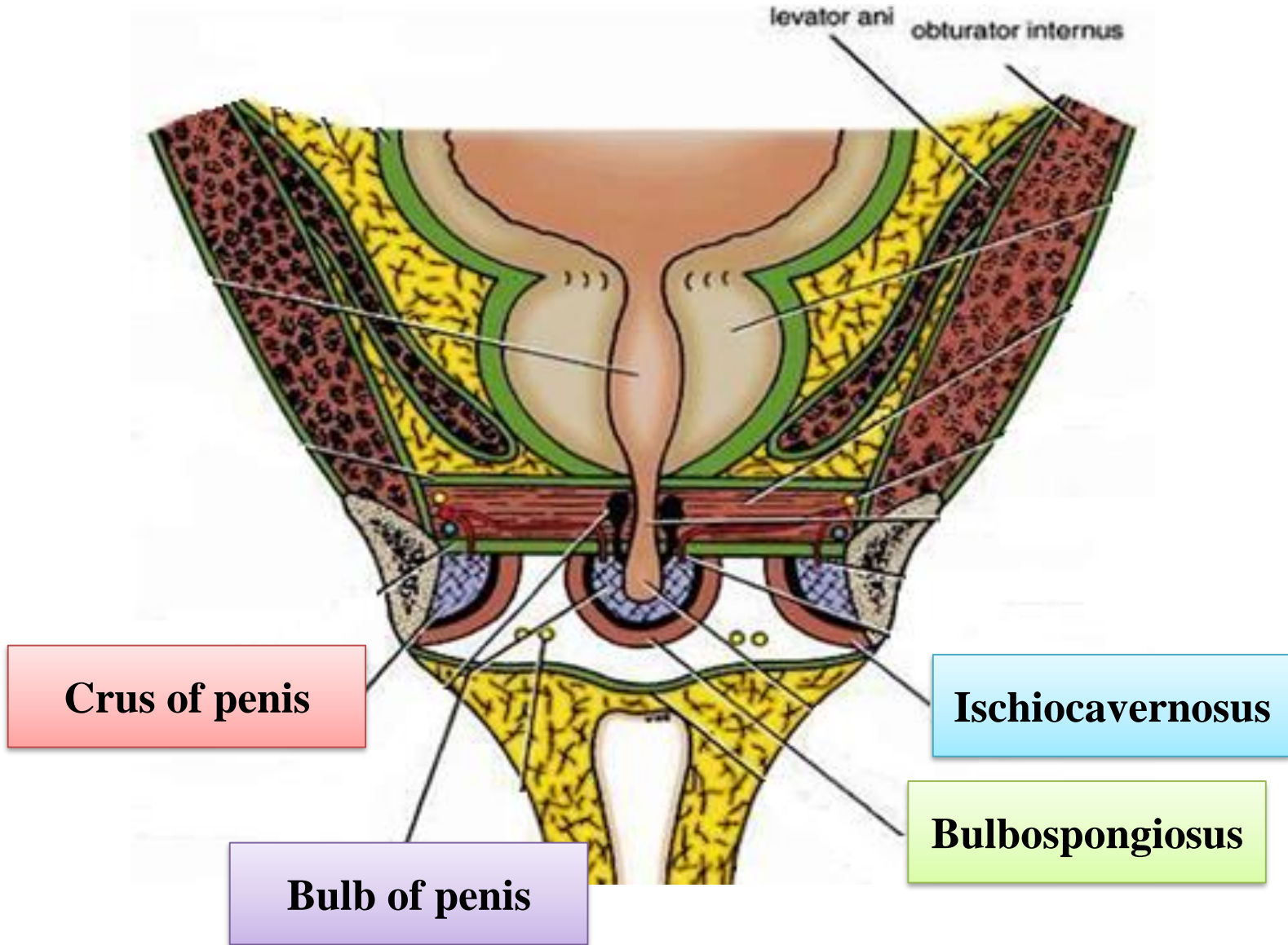
perineal membrane

Superficial perineal pouch

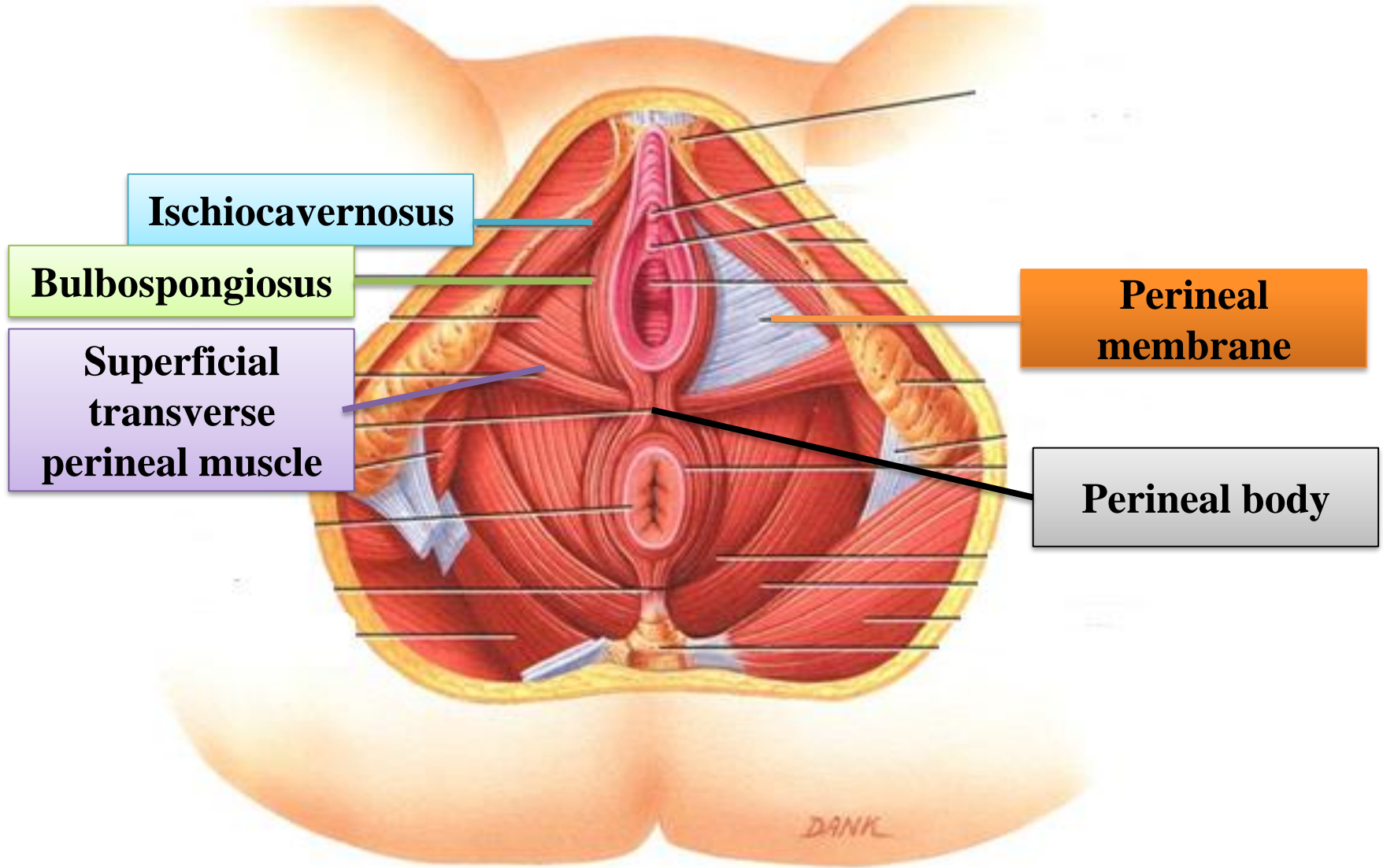
The superficial and deep perineal pouch



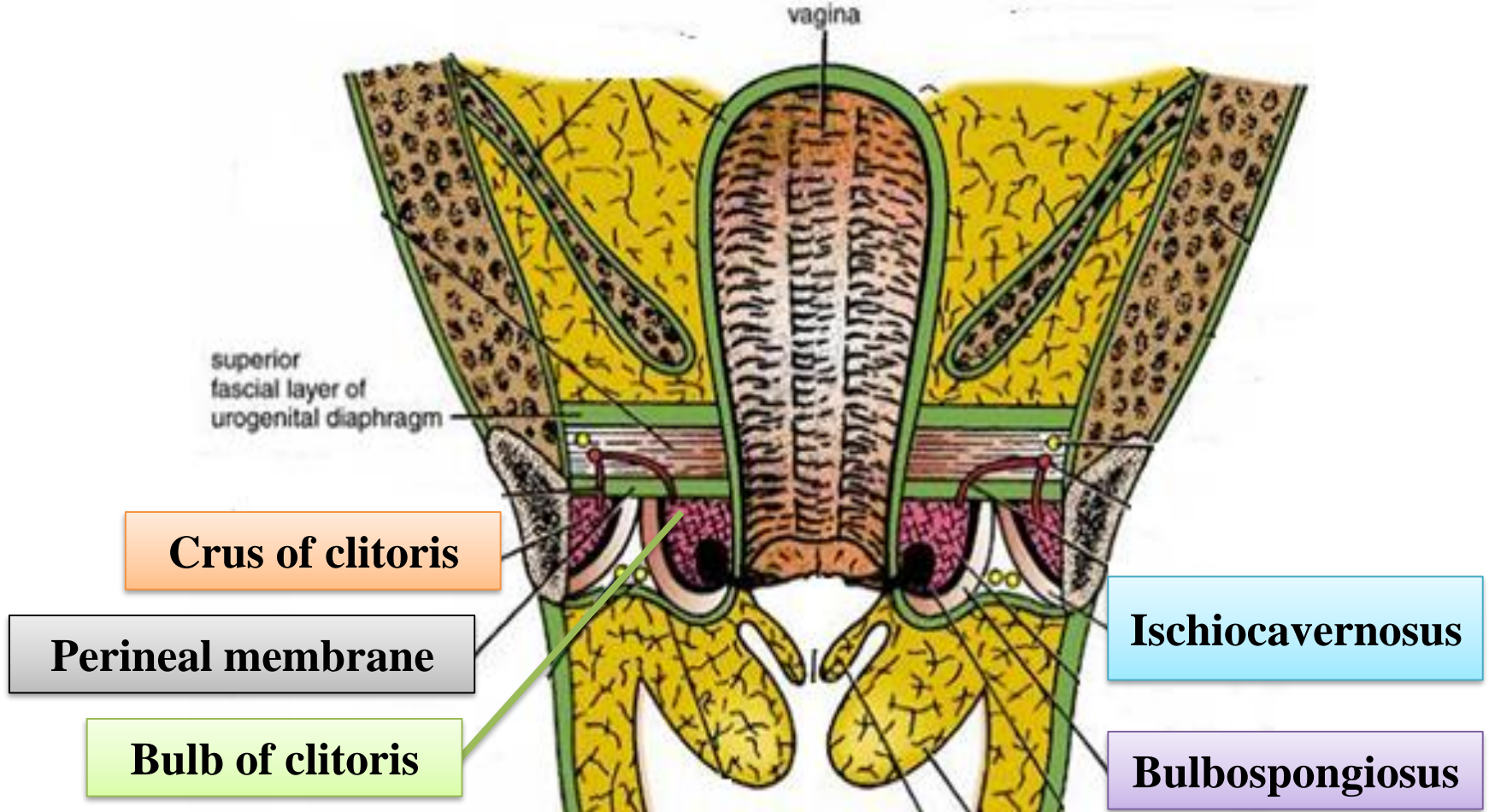
Superficial perineal pouch – Male



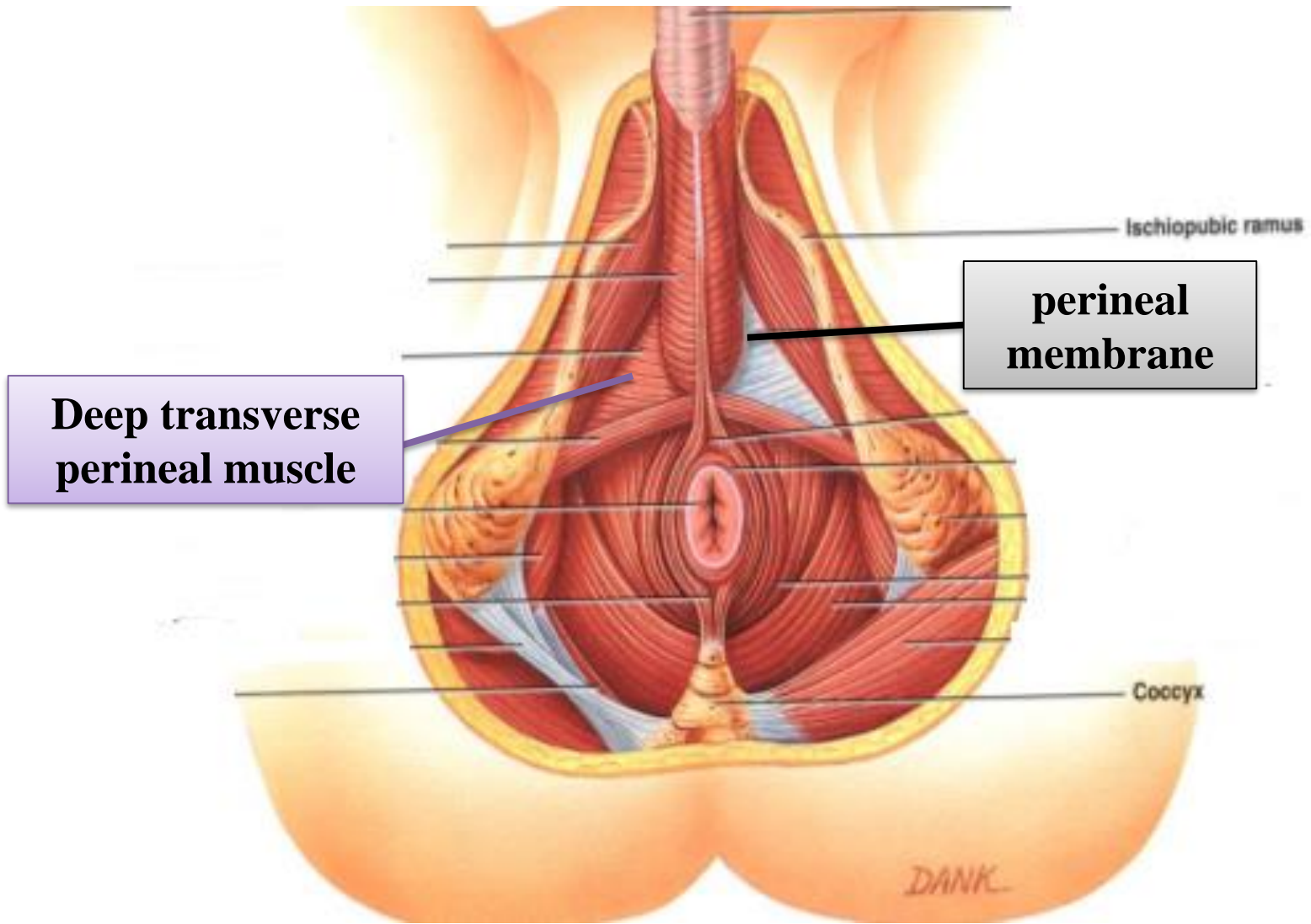
Superficial perineal pouch – Male



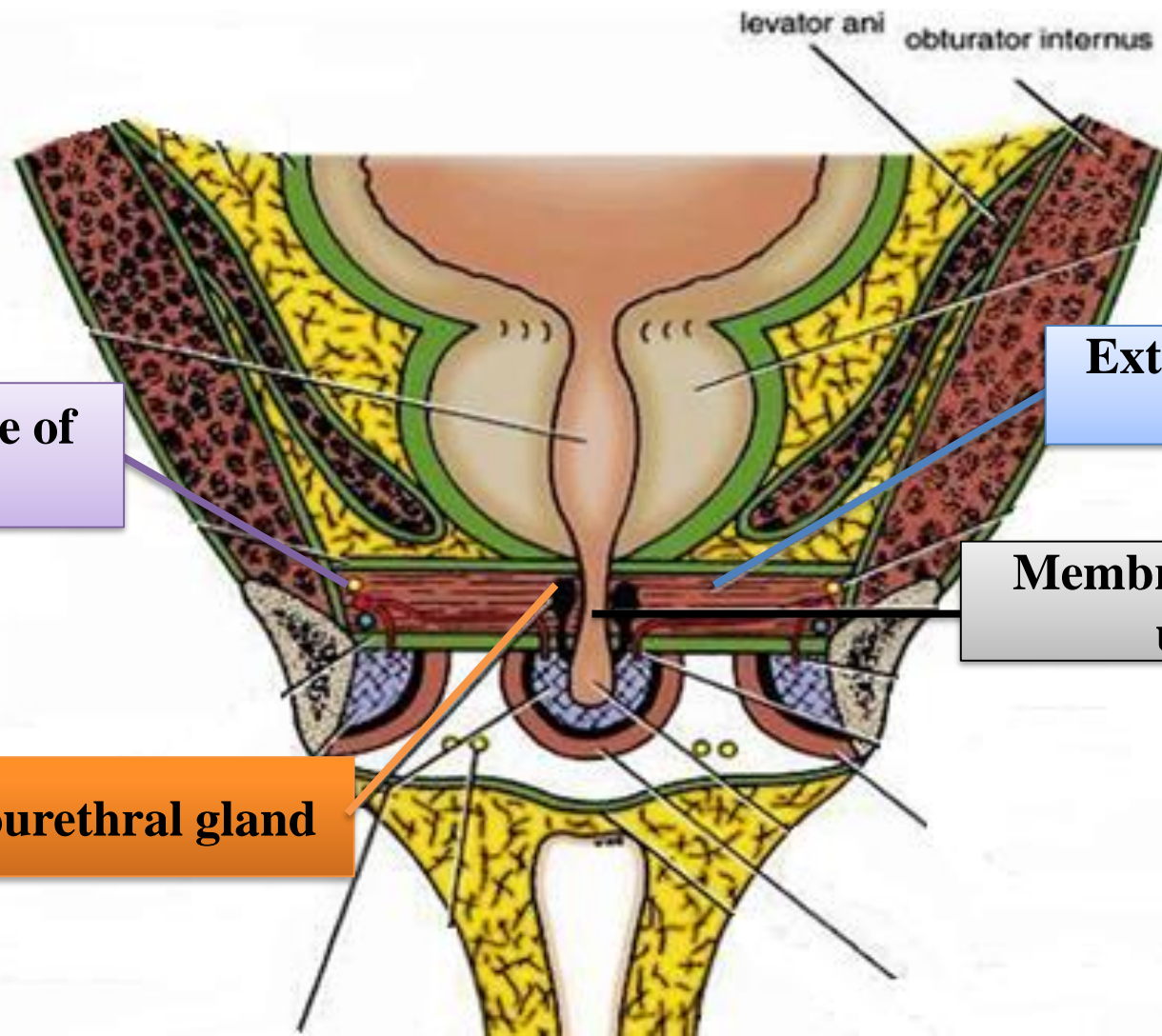
Superficial perineal pouch – Female



Superficial perineal pouch – Female



Deep perineal pouch – Male



levator ani obturator internus

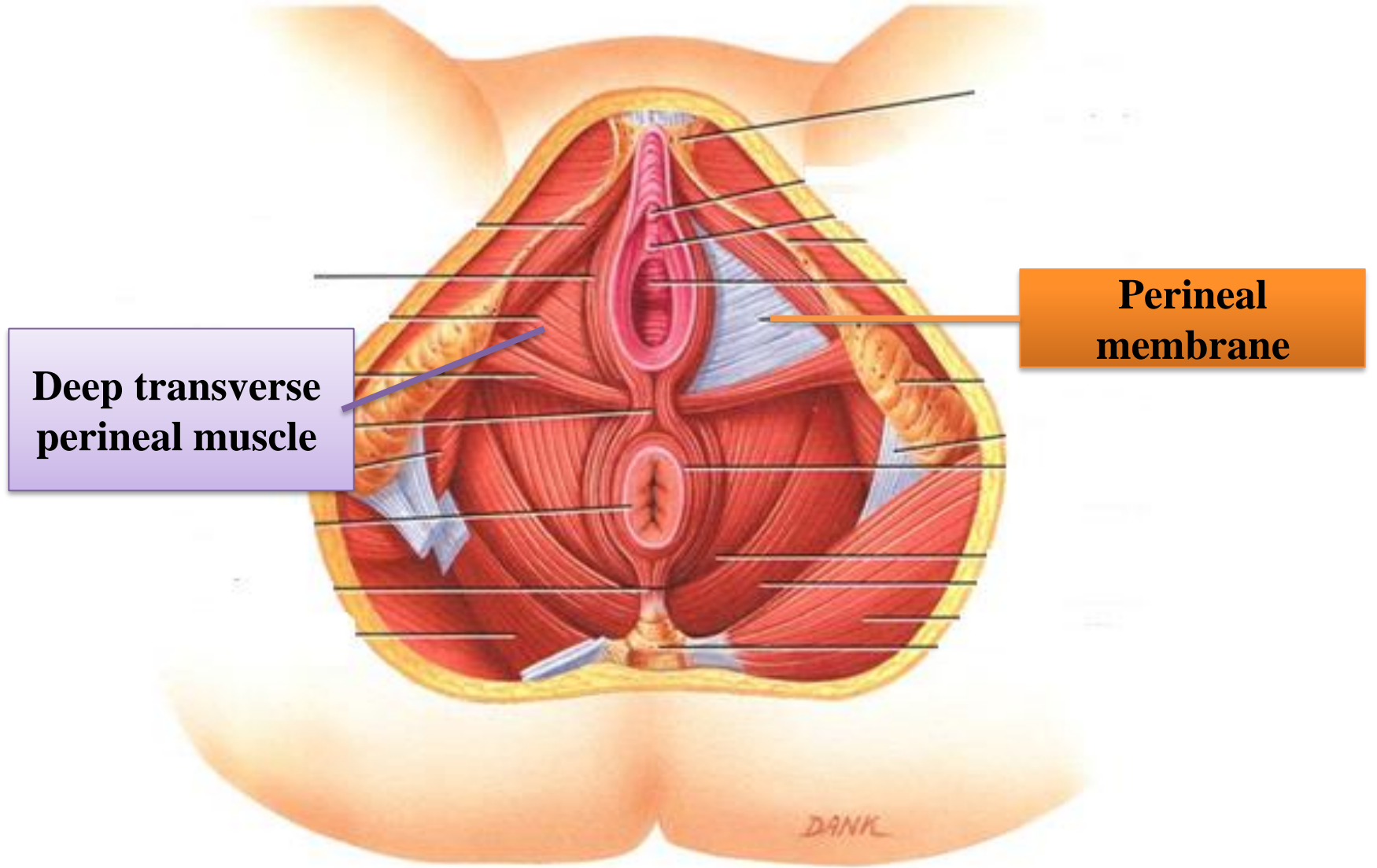
Dorsal nerve of penis

External urethral sphincter

Membranous part of urethra

Bulbourethral gland

Deep perineal pouch – Male



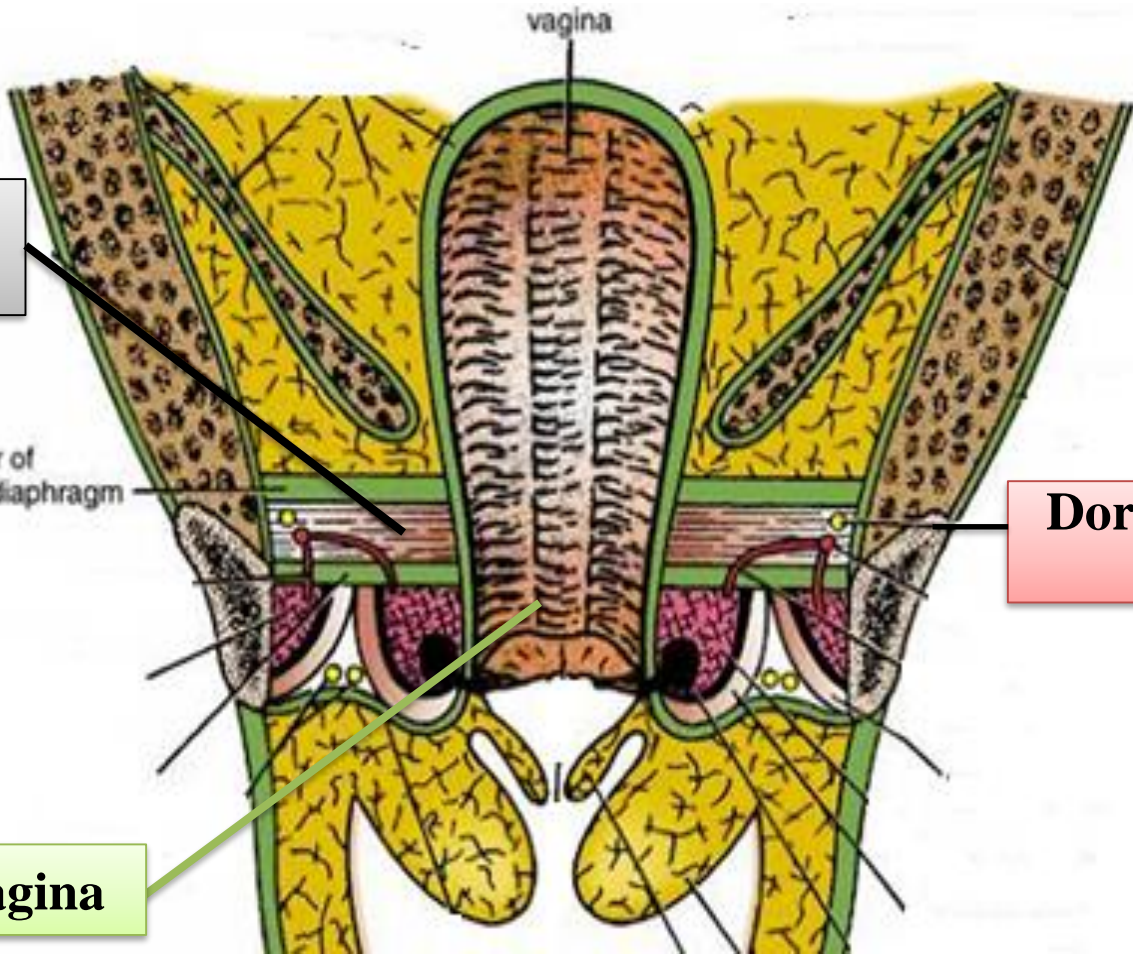
Deep perineal pouch – Female

External urethral sphincter

superior fascial layer of urogenital diaphragm

Dorsal nerve of clitoris

Vagina



Deep perineal pouch – Female

The Most Important

Kidneys:

1. Position of the kidneys.
 - a. Positions of the upper and lower poles, and hilum.
 - b. How far the upper and lower poles, and hilum from the midline.
2. Relations (anterior and posterior).
3. Sagittal section.
4. Blood supply.
5. Nephrons (anatomy and histology).

6. X – Ray: Plane, IVP, and RPG; which of the kidney covering produces transradiant line?

7. Pronephrous, mesonephros, metanephrous kidneys.

8. Renal Colic (pain)

Ureters

1. Relations.

2. Constrictions.

3. Blood supply and venous drainage.

4. Ureteric colic (pain).

5. Histology.

Urinary Bladder

1. Position and surfaces.
2. Relations of each surface.
3. Blood supply and lymphatic drainage.
4. Innervations.
5. Development.
6. Histology.

The Pelvic Cavity

1. Sex Differences Between Male and Female Pelvis.
2. Brim of pelvis (Inlet of pelvic cavity) and outlet of pelvic cavity.
3. Greater pelvis and Lesser pelvis

- 4. Structure pass through the greater and lesser sciatic foramina.**
- 5. Muscles of the lateral and posterior walls, and floor (pelvic diaphragm), and parts of the levator ani.**
- 6. Action of pelvic diaphragm.**

The Perineum

- 1. Boundaries.**
- 2. Urogenital diaphragm.**
- 3. Superficial and deep perineal pouches with their contents in the male and the female.**

The Male Genital Organs

- 1. Tunica vaginalis.**
- 2. Small informations about scrotum,**

Testes, epididymis, vas deferens, and penis.

3. Ligament support to the penis.

4. Prostate gland: Position, relations, blood supply, venous and lymphatic drainage.

5. Seminal vesicles and paraurethral glands.

6. Histology:

a. Spermatogenesis, and spermiogenesis.

b. Histology of prostate, seminal vesicles, and penis.

The Female Genital Organs

1. Ovary.

2. Uterine tubes.

3. Uterus.

- a. **Parts.**
- b. **Relations.**
- c. **Support.**
- d. **Broad and round ligaments.**
- e. **Antiversion and antiflexion.**
- f. **Blood supply and lymphatic drainage.**

4. Vagina.

- a. **Position.**
- b. **Relations.**
- c. **Support.**
- d. **Blood supply.**

5. Information about the vulva, including labia majora and minora, vestibule, and greater and lesser vestibular glands

- 6. Histology of ovaries, uterus, and vagina.**
- 7. Ovarian cycle and menstrual cycle.**
- 8. The breast anatomy, histology, blood supply, and lymphatic drainage.**

Development of Male and Female Reproductive Organs

- 1. Indifferent gonads.**
- 2. Development of testes and ovaries.**
- 3. Development of male and female genital ducts.**
- 4. Development of male and female genital glands.**
- 5. Development of male and female external genitalia.**

The Spermatic Cord

1. Definition.

2. Contents.

3. Spermatic fascia.