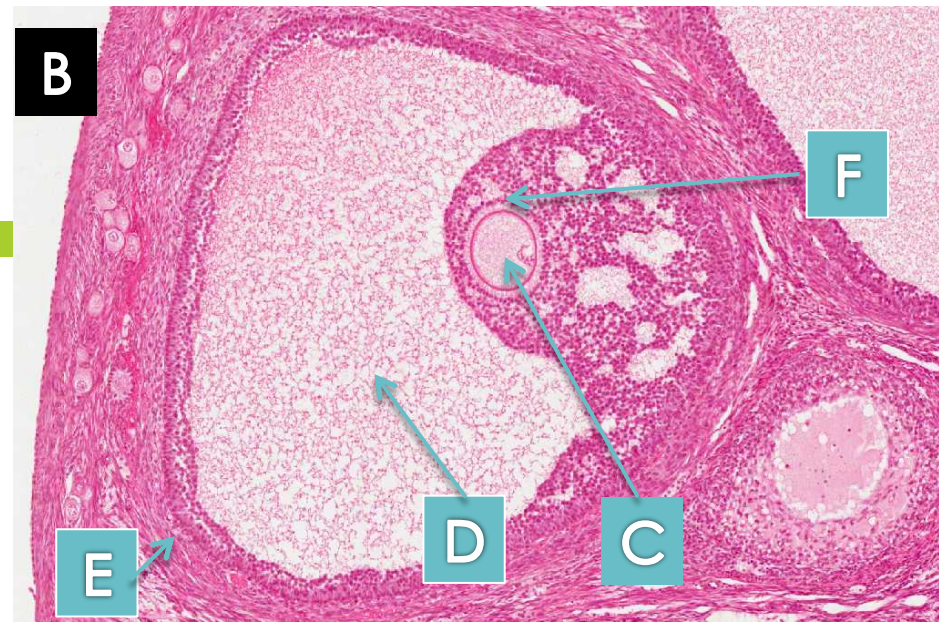
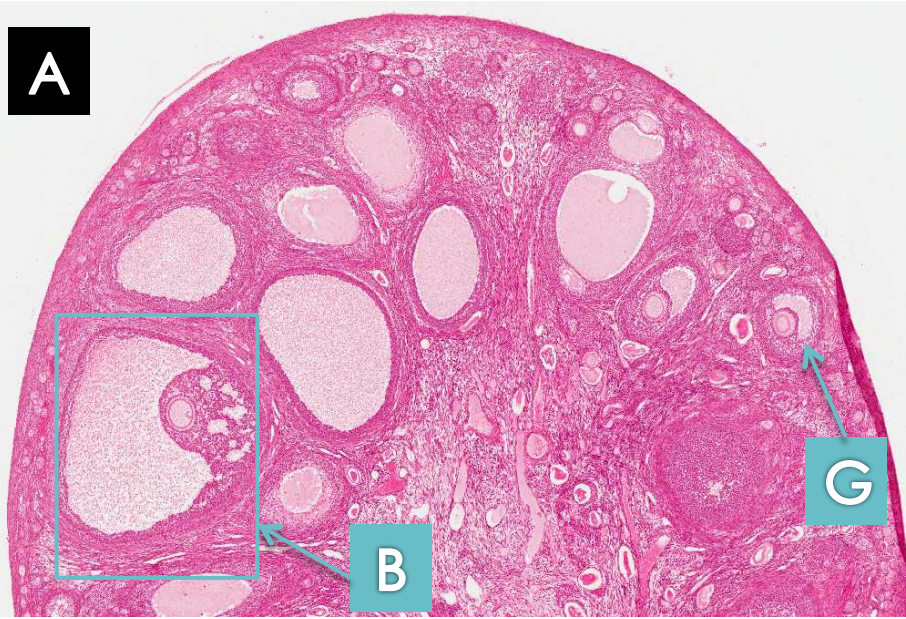


Practical histology

Reproductive block

There will be 4 histology stations in the exam (2 of male RS & 2 of female RS).



Q1: Identify the structure of picture A and in picture B.

A: Ovary **B:** Mature (Graafian) follicle

Q2: Identify the labeled structures.

C: Primary Oocyte

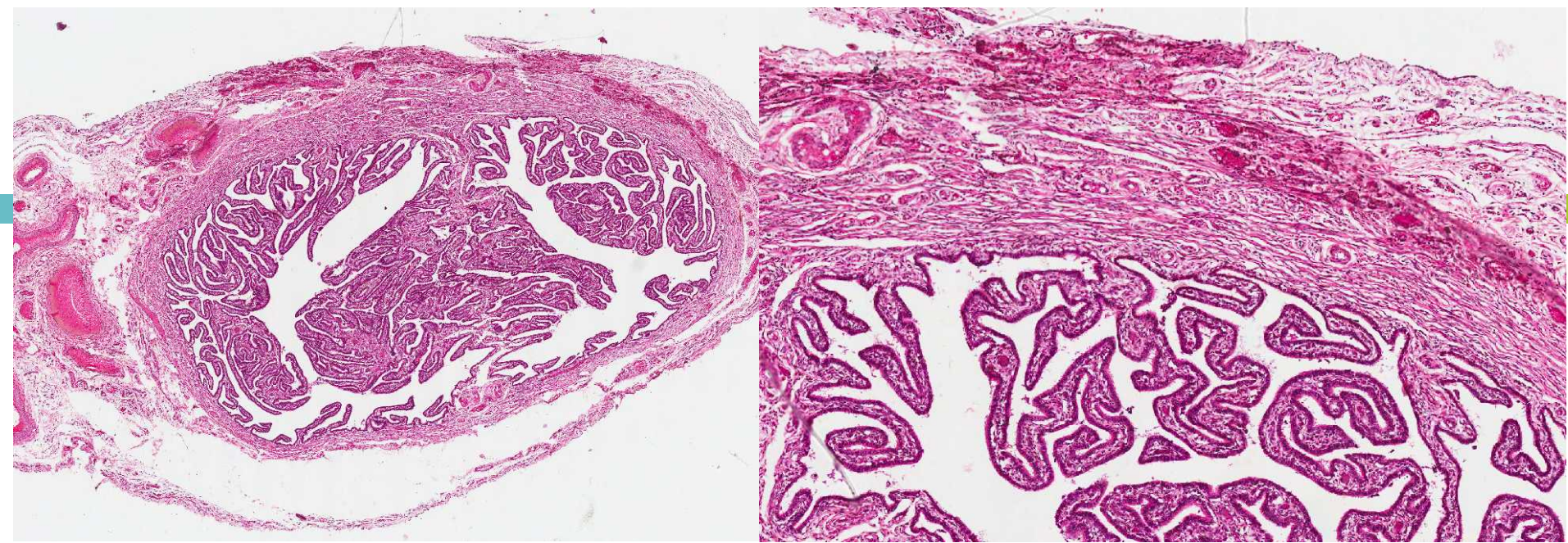
D: Follicular Antrum

E: Theca folliculi (interna/externa)

F: Corona radiata

G: Secondary follicle

Addition : We recommend spending some time on revising the components of mature follicle:
<http://www.yogile.com/d4ibhze/06330872l/share/?vt=GCEyf3W>



Q1: Identify the structure

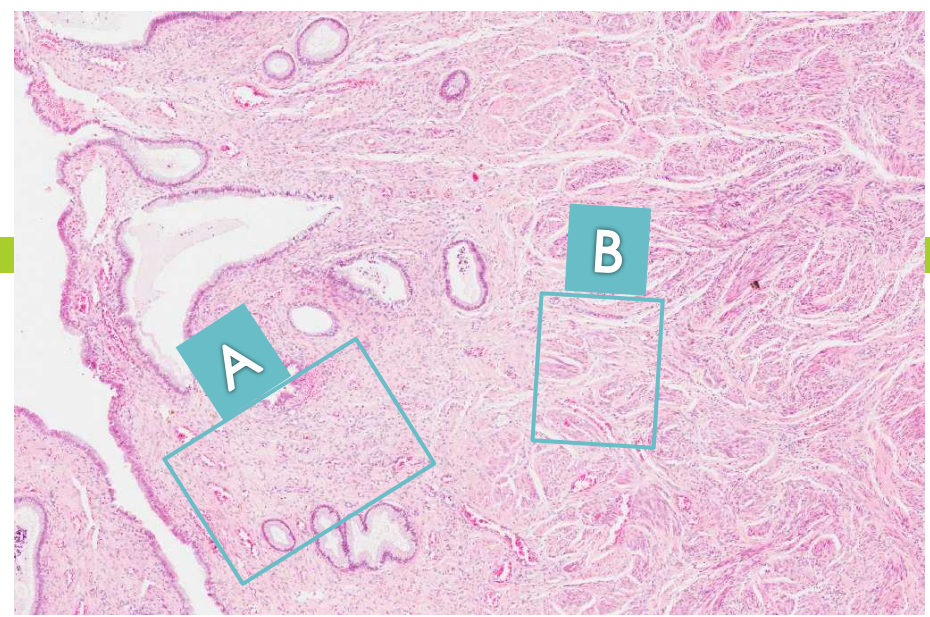
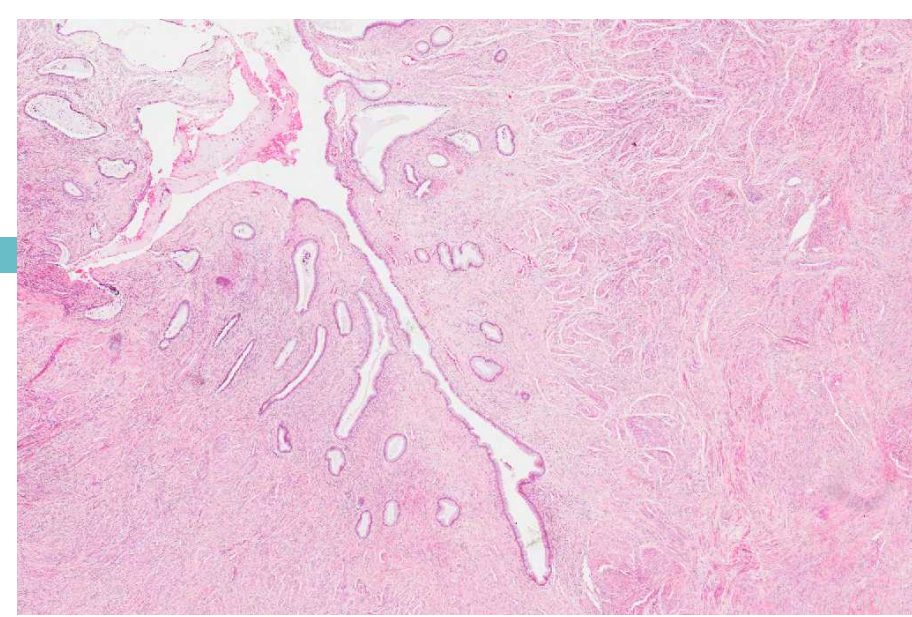
Fallopian tube.

Q2: What is the type of epithelium lining this structure?

Simple columnar partially ciliated epithelium.

Q2: Mention layers of musculosa in this structure?

1. Inner circular
2. Outer longitudinal



Q1: Identify the structure

Uterus

Q2: Mention 3 layers in this structure.

1. Endometrium
2. Myometrium
3. Perimetrium

Q3: What is the lining epithelium .

Simple columnar partially ciliated

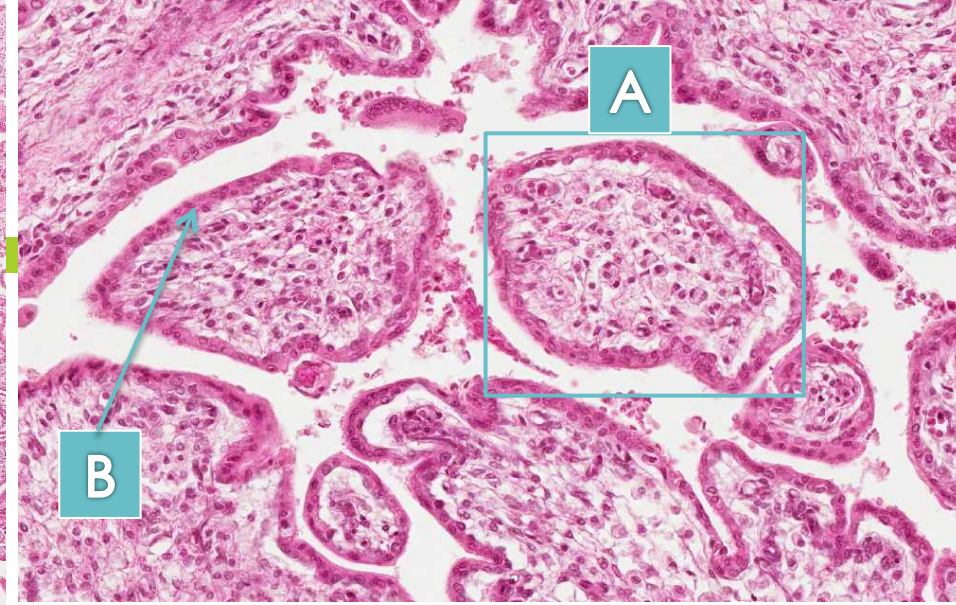
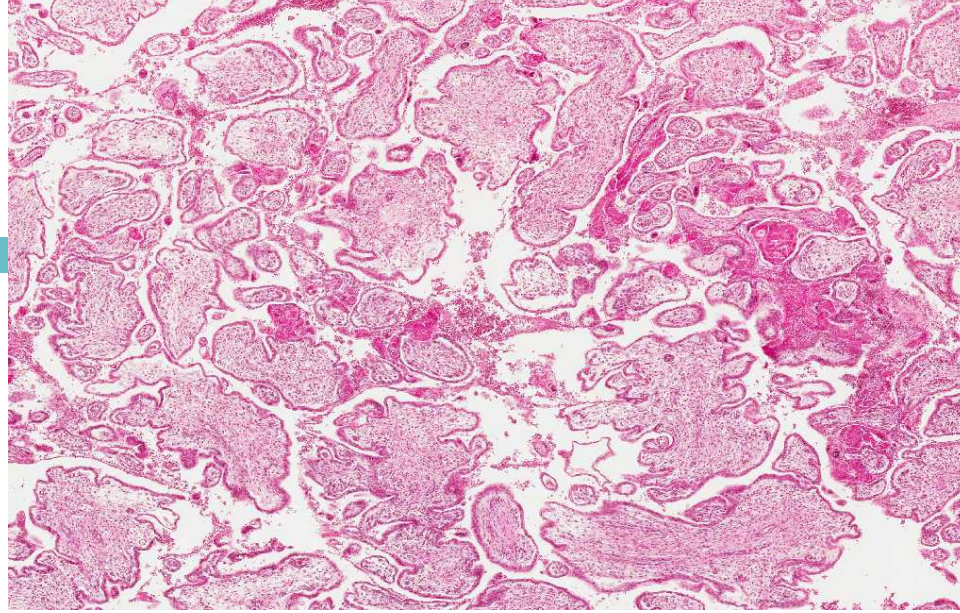
Q4: Identify labeled structures:

A: Stratum functionalis

B: stratum Basalis

Q5: mention the layers of myometrium:

1. Stratum submucosum (longitudinal)
2. Stratum vasculare (Circular)
3. Stratum supravasculare (longitudinal)



Q1: Identify the structure

Placenta

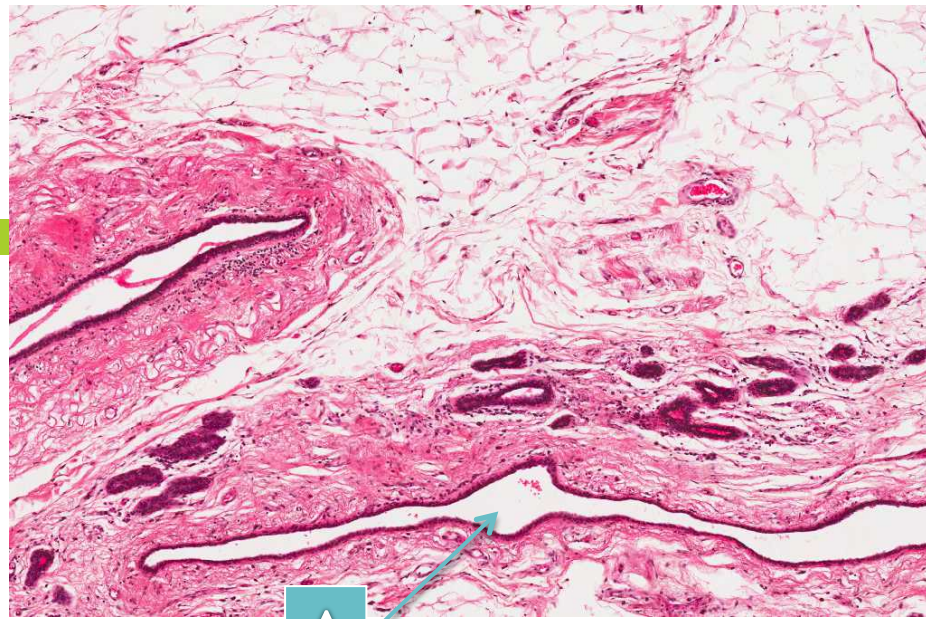
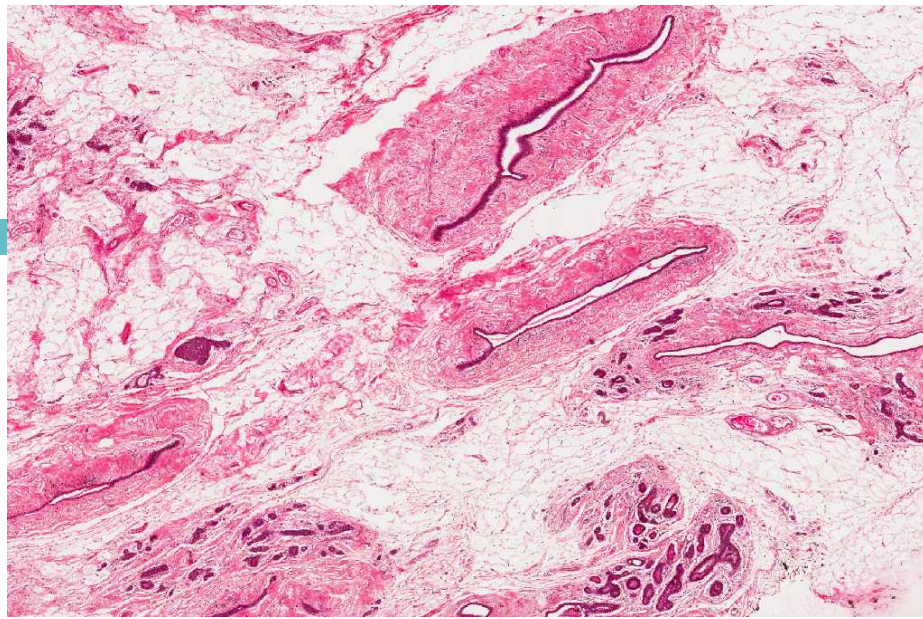
Q2: Mention layers of the placental barrier from outermost to innermost.

1. Syncytiotrophoblast
2. cytotrophoblast
3. Basement membrane of trophoblast
4. Connective tissue of the villus
5. Basement membrane of fetal capillaries
6. The endothelium of fetal capillaries

Q3: Identify the labeled structures:

A: chorionic villi

B: Trophoblast



A

Q1: Identify the structure

Resting (non-lactating) mammary gland

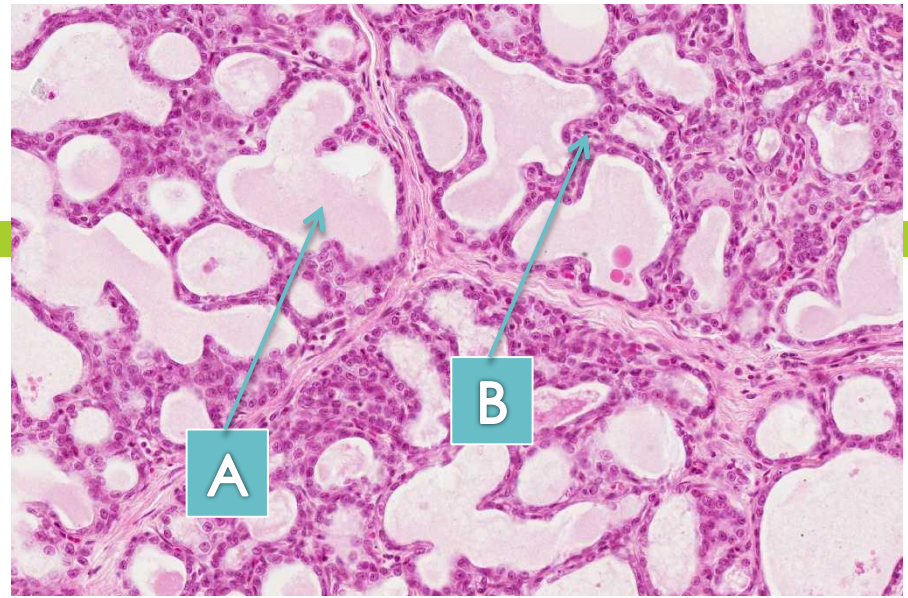
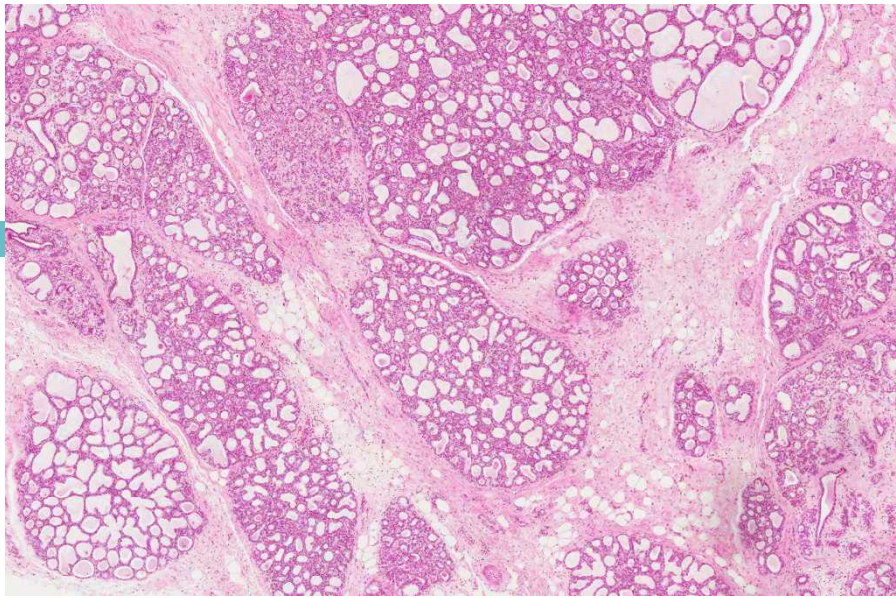
Q2: Mention 2 structures seen in this picture

1. Ducts (A)
2. Dense connective tissue with numerous fat cells

Q3: What is the lining epithelium in this structure.

Stratified columnar epithelium

Breast epithelium (Additional only for understanding)	
Simple cuboidal epithelium	Alveoli
Stratified columnar epithelium	Collecting ducts
Stratified squamous epithelium non-keratinized	Nipple



Q1: Identify the structure

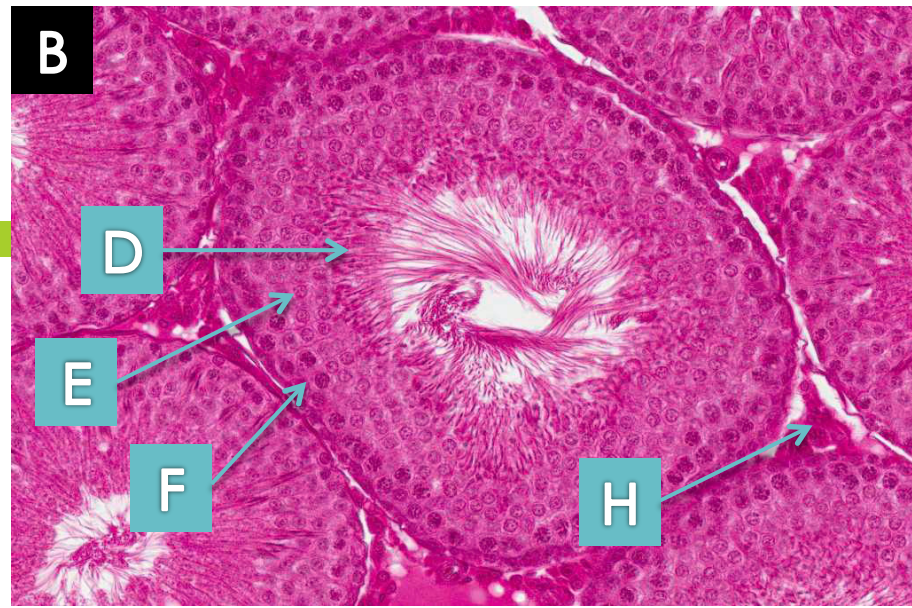
Lactating mammary gland

Q2: Mention 2 structures in seen in the picture.

1. Alveoli (A) (containing milk)
2. Myoepithelial cell (B)

Q3: What is the lining epithelium of the alveoli

Simple cuboidal epithelium



Q1: Identify the structure

A: Testis **B:** Seminiferous tubules

Q2: Identify The labeled structures.

C: Tunica Albuginea

D: Spermatid

E: Primary Spermatocyte

F: Spermatogonia (larger and denser)

H: Interstitial (Leydig) cell (secrete testosterone)

Sertoli cell (Form the blood-testis barrier) (Hard to see it in this section)



Q1: Identify the structure

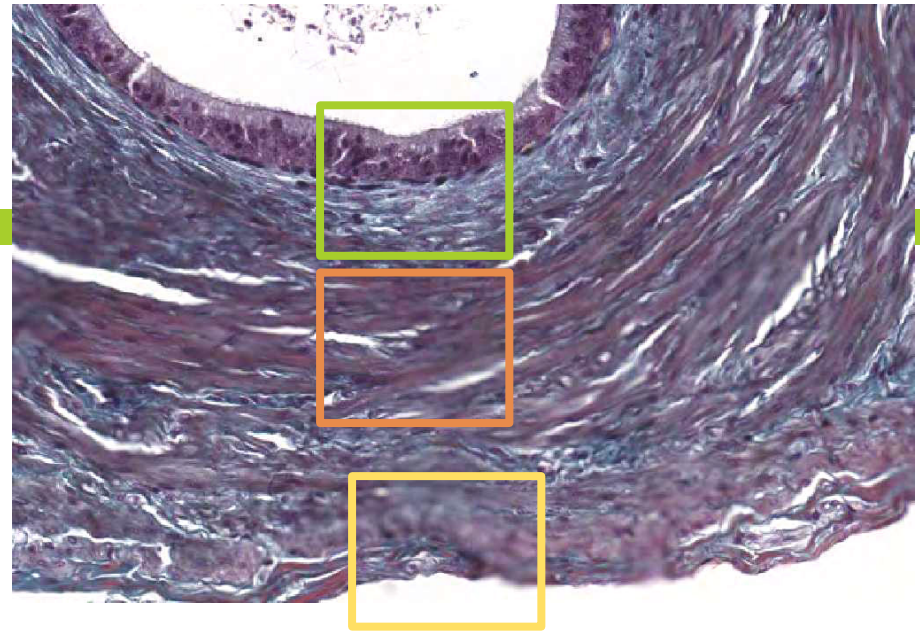
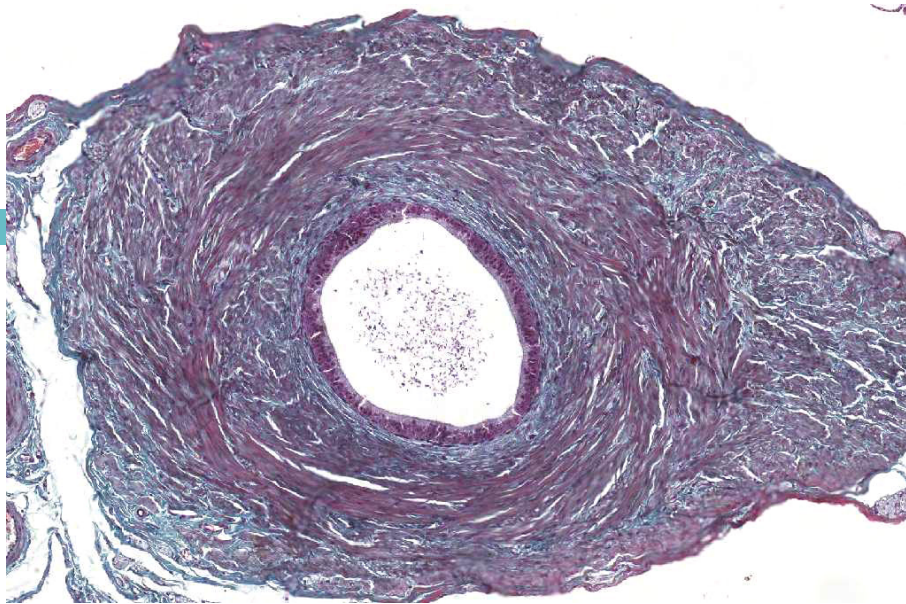
Epididymis

Q2: What is the lining epithelium?

Pseudostratified columnar epithelium with stereocilia

Q3: What is the function of this structure?

It stores and helps in maturation of spermatozoa



Q1: Identify the structure

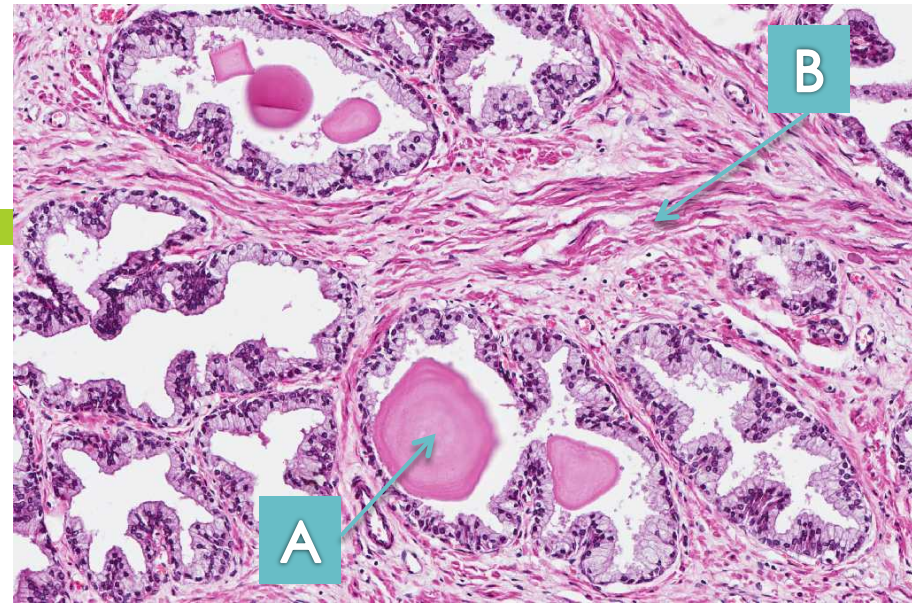
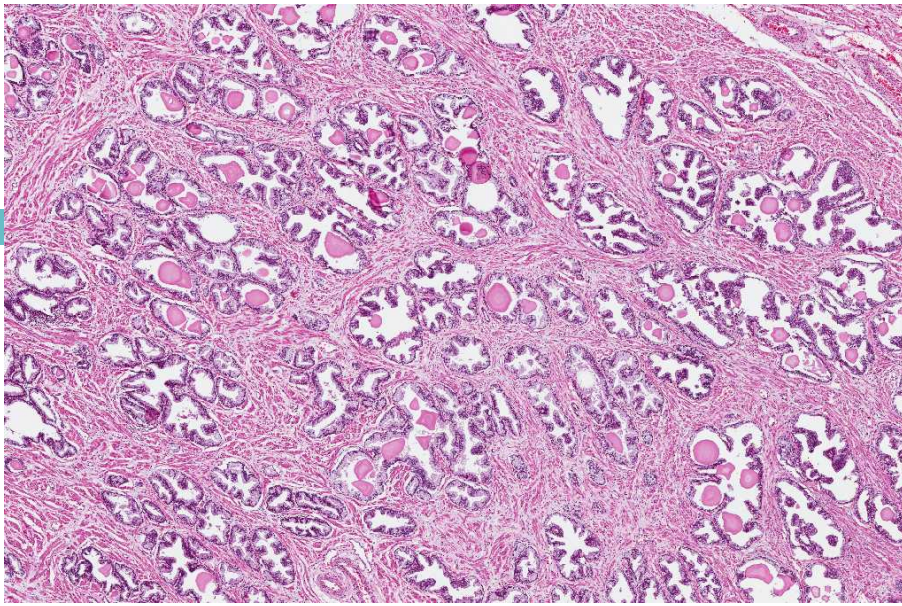
Vas deferens

Q2: What is the lining epithelium?

Pseudostratified columnar epithelium with stereocilia

Q2: Mention the layers that can be seen in this structure.

1. Muscosa
2. Musculosa (Inner longitudinal, meddle circular & outer longitudinal)
3. Adventitia



Q1: Identify the structure

Prostate gland

Q2: What is the lining epithelium?

Simple columnar or pseudostratified columnar epithelium (choose one)

Q3: Identify the labeled structures

A: Copora amylicea

B: Fibromascular band