- esc key shows all the slides
- arrows left right advance the slide
- or click on the bottom right icons
- mobile device swipe left right
- ? gives instant help

How to get the most from the revision slides

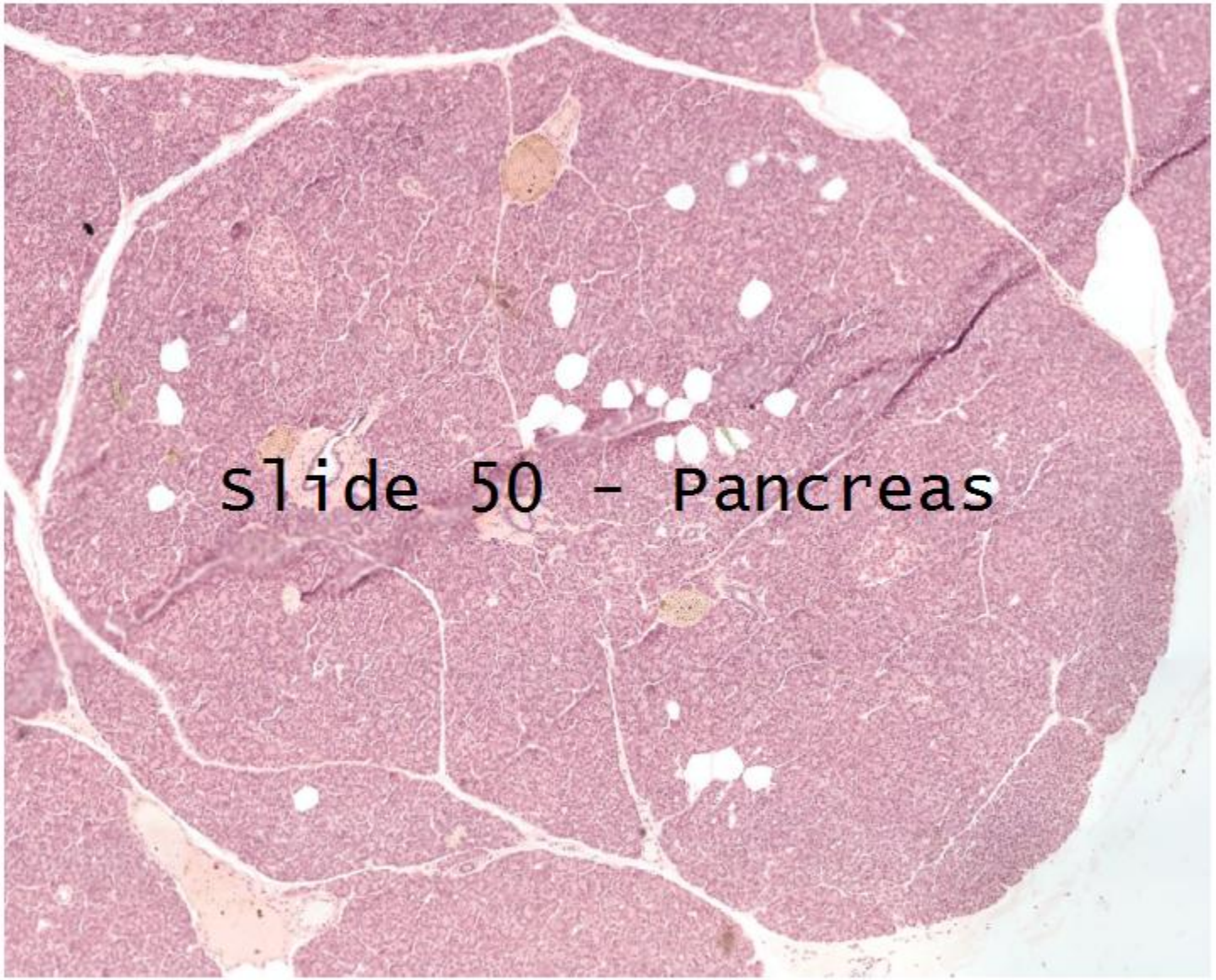
- Have a pen & paper ready
- Answer every question
- Mark your answer after answering
- Elaborate on each answer
- Add relevant clinical content
- If you have trouble, ask

Glandular Epithelium

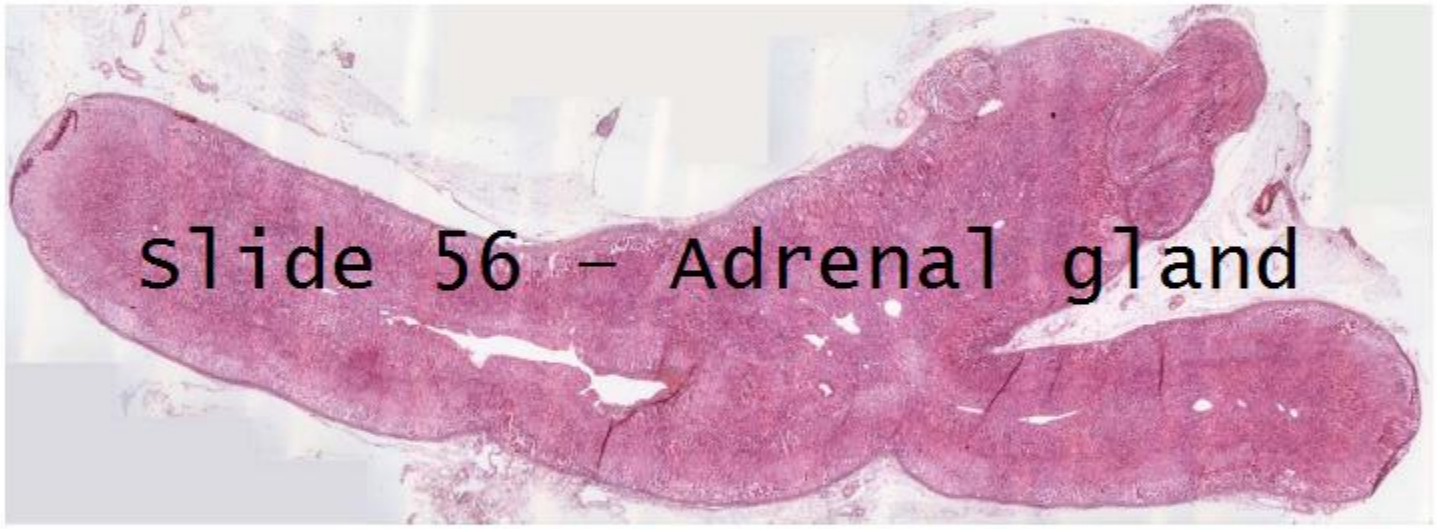

Slide 42 - Colon


Slide 7 - Tongue


slide 39 - Pharyngeal tube


slide 50 - Pancreas


slide 52 - Pituitary gland


slide 56 - Adrenal gland


slide 55 – Thyroid gland

Analogies

Two systems

- Exocrine
- Endocrine

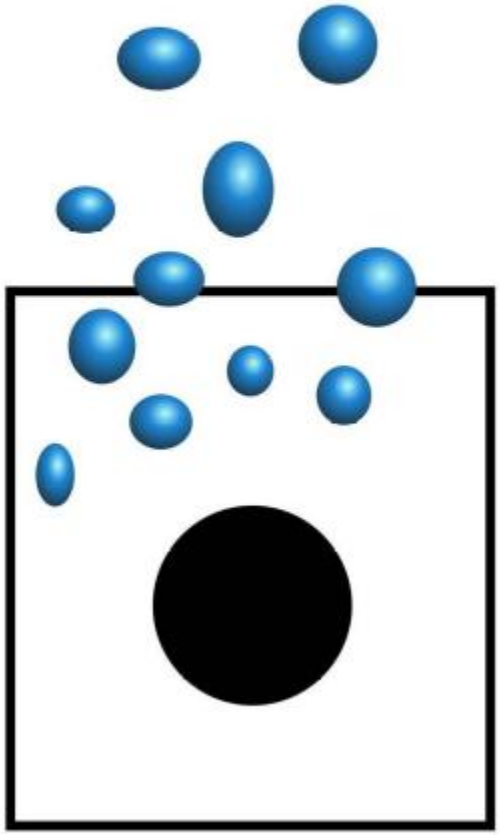
Exocrine

- Single cell
- Simple
    - Alveolar
    - Tubular
- Compound
    - Alveolar
    - Tubulo-alveolar
    - Tubular

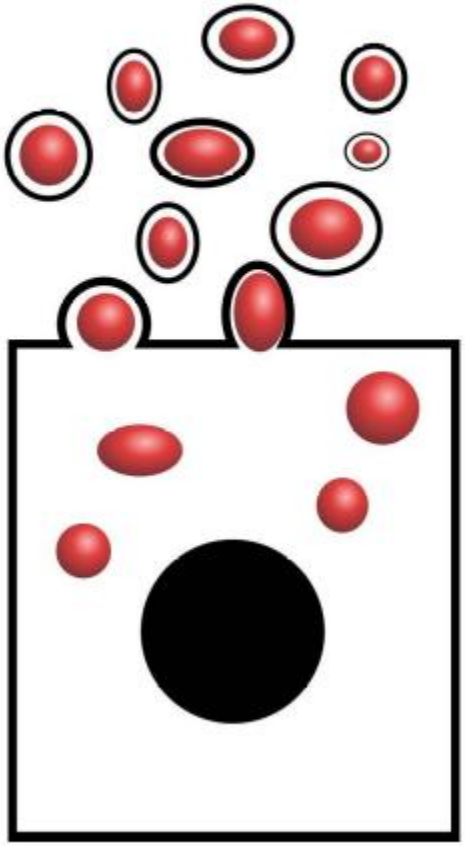
Modes of Secretion

- Merocrine
- Apocrine
- Holocrine

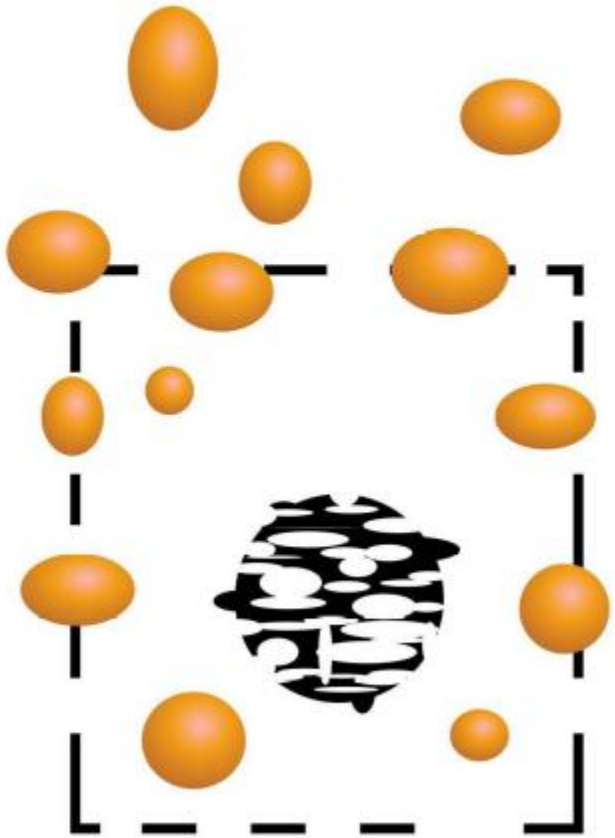
Merocrine



Apocrine



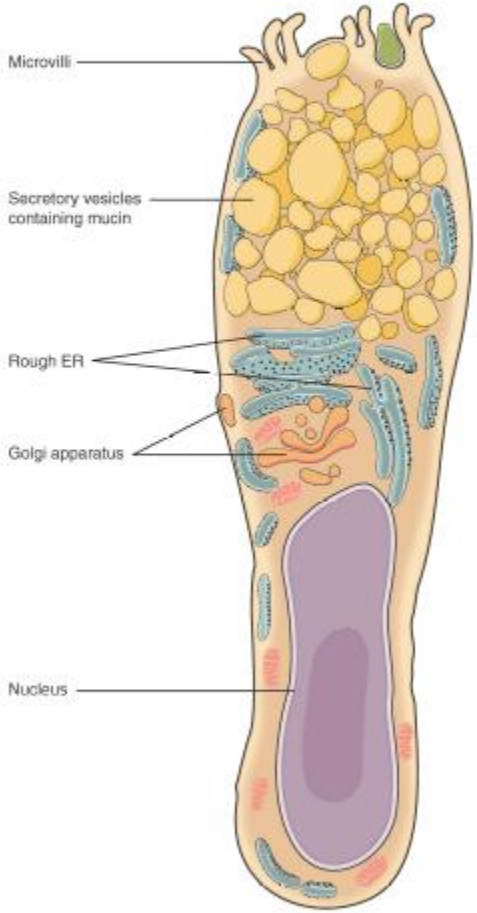
Holocrine



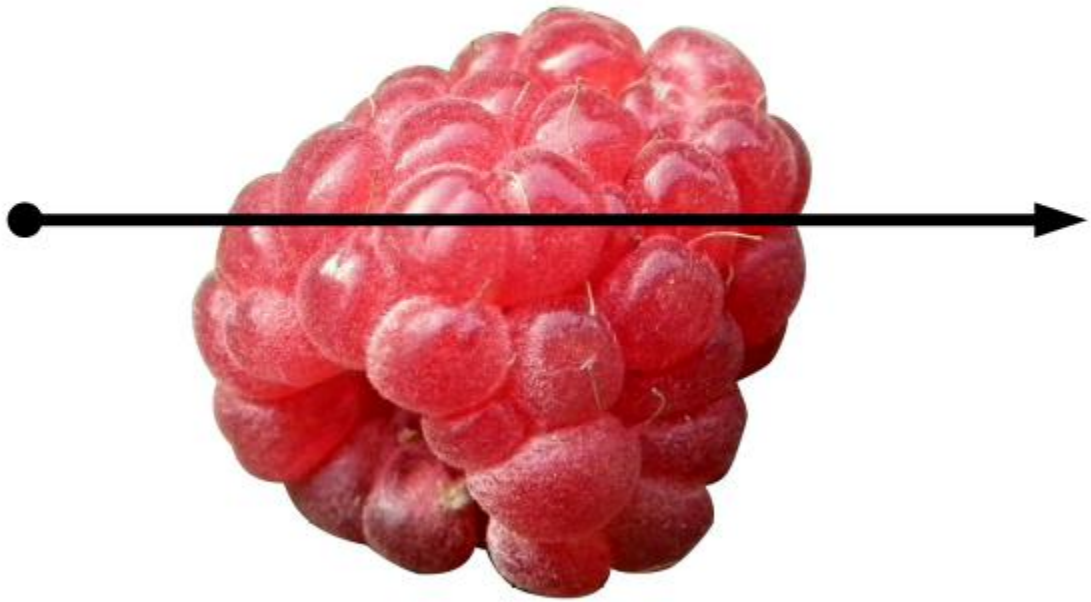
Epithelium Analogy

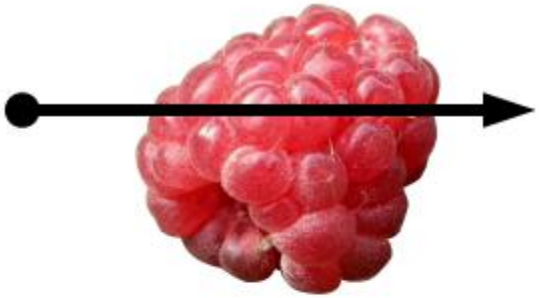
Epithelium Analogy

Single cell

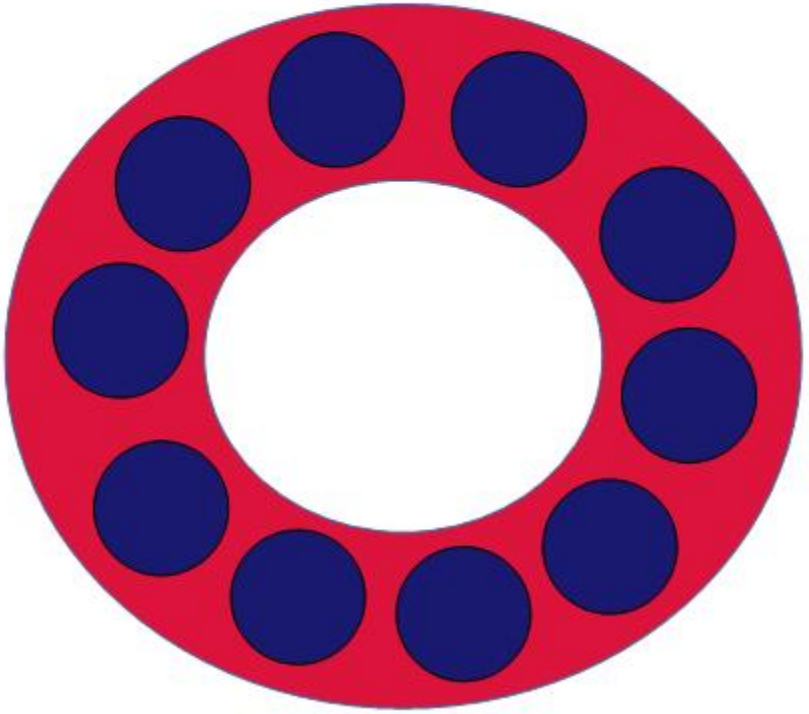

Microvilli
Secretory vesicles containing mucin
Rough ER
Golgi apparatus
Nucleus

Alveolar

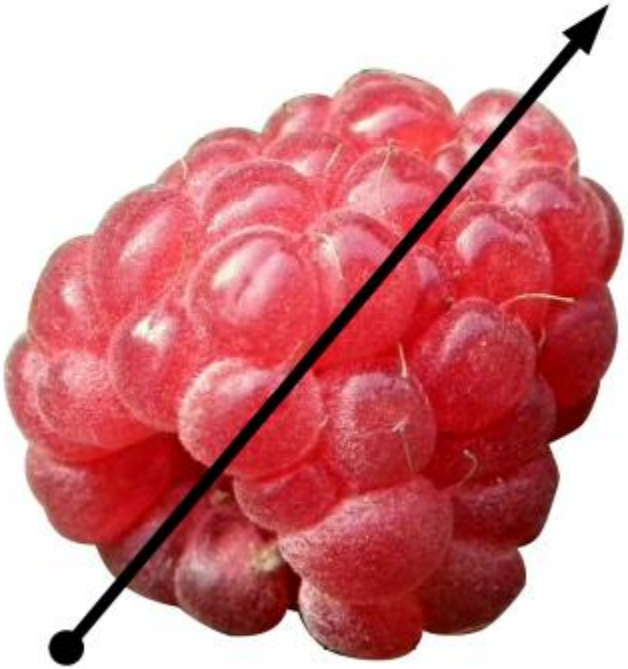


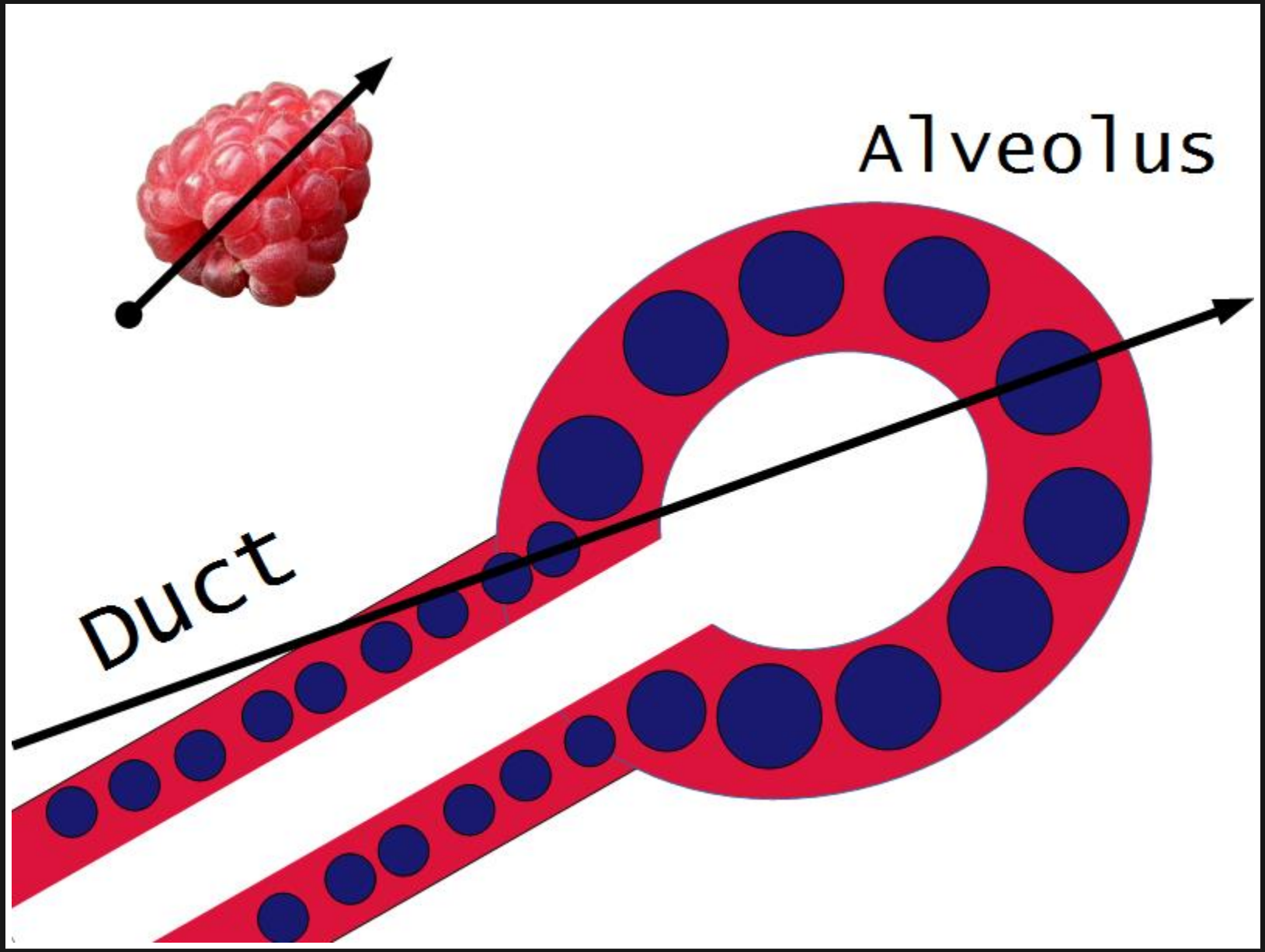


Alveolus



Alveolar

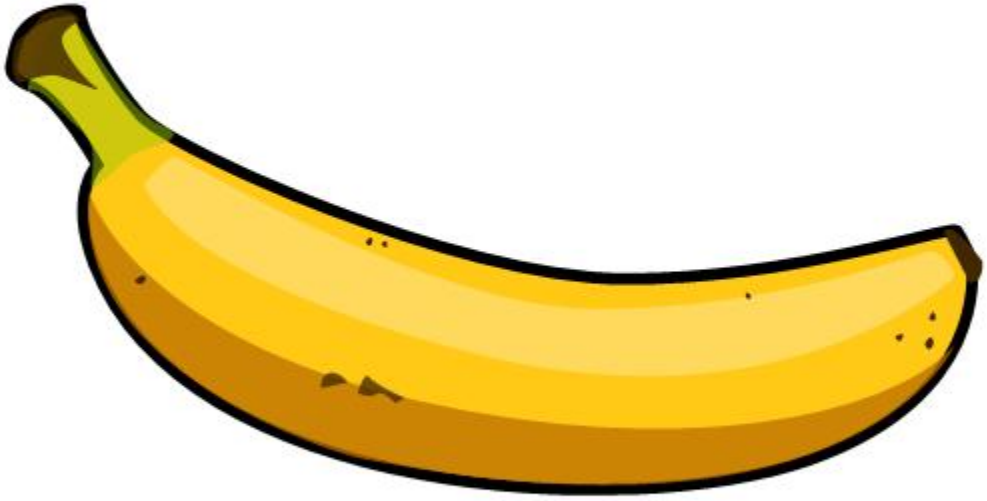



Alveolus
Duct

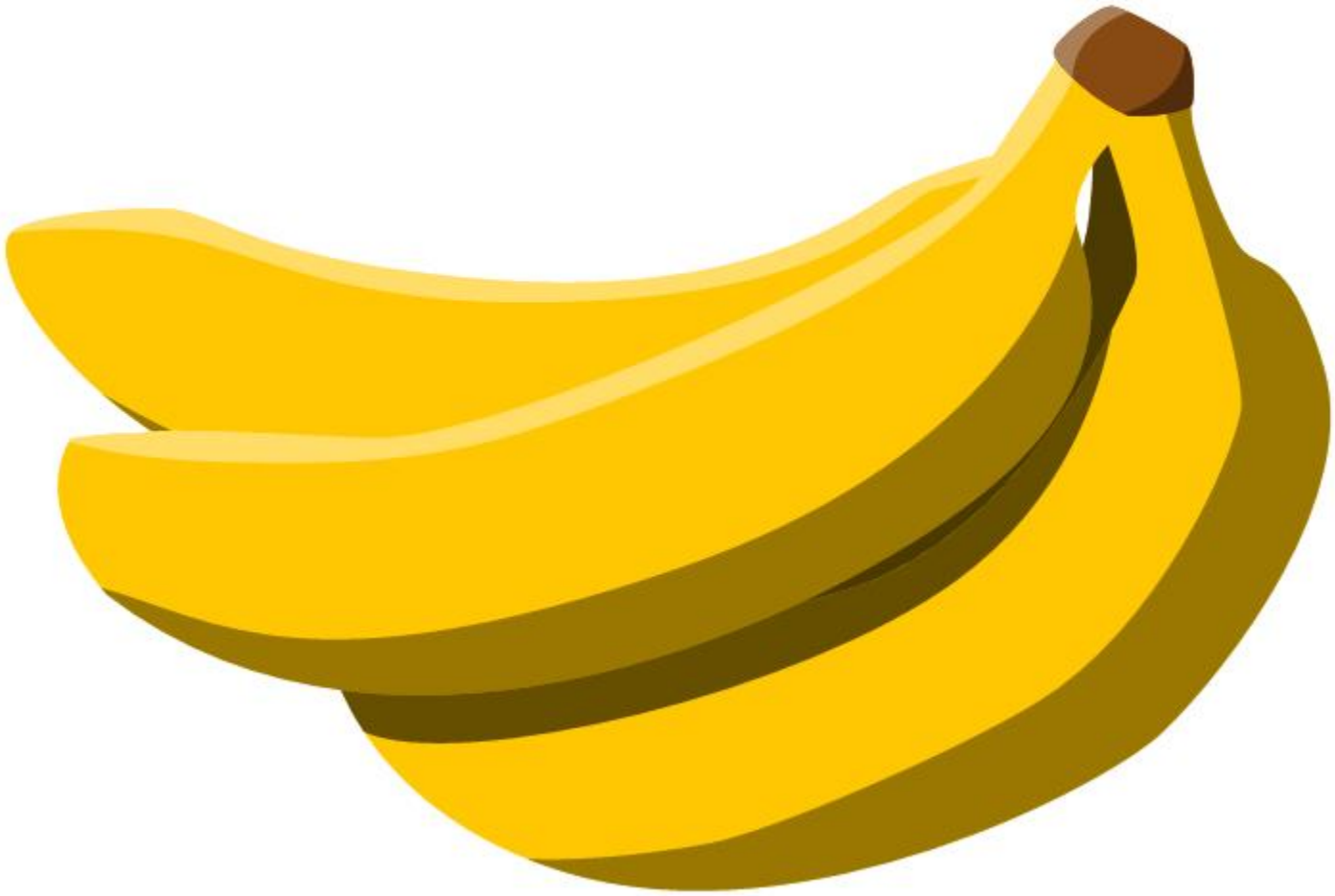
Compound Alveolar

Compound Alveolar

Tubular



Compound Tubular



Compound Tubular

Slice and Dice

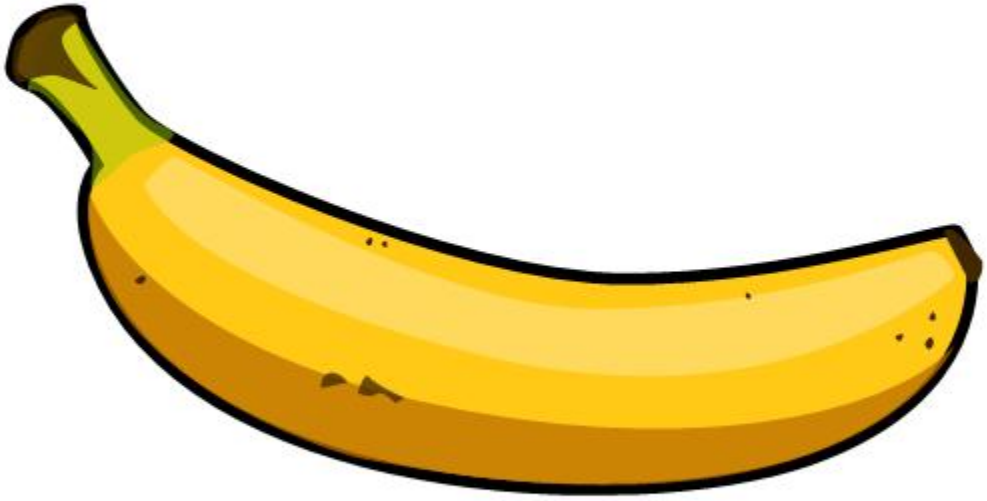
Slide 42 - Colon

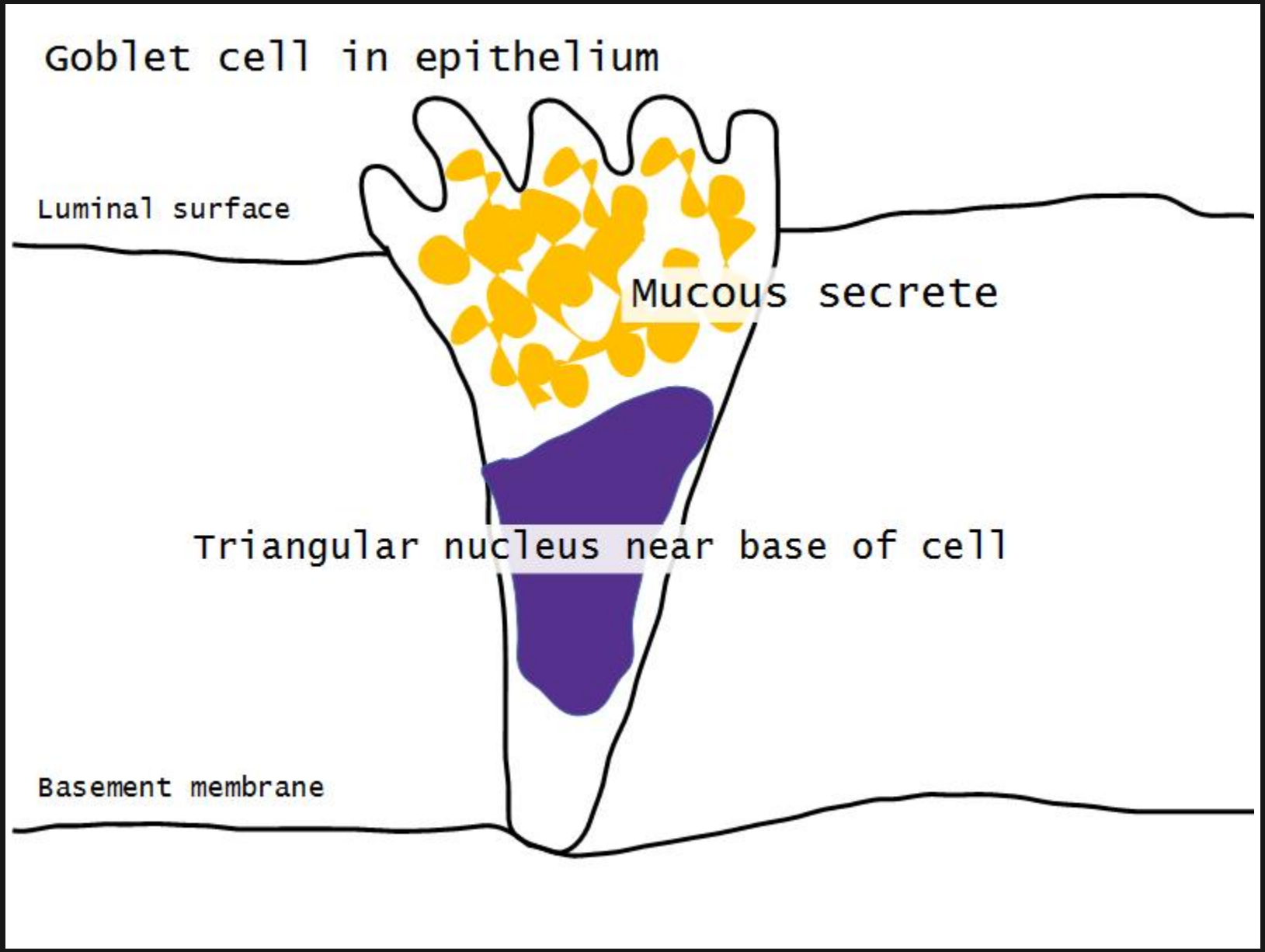
Goblet cells

Simple tubular glands

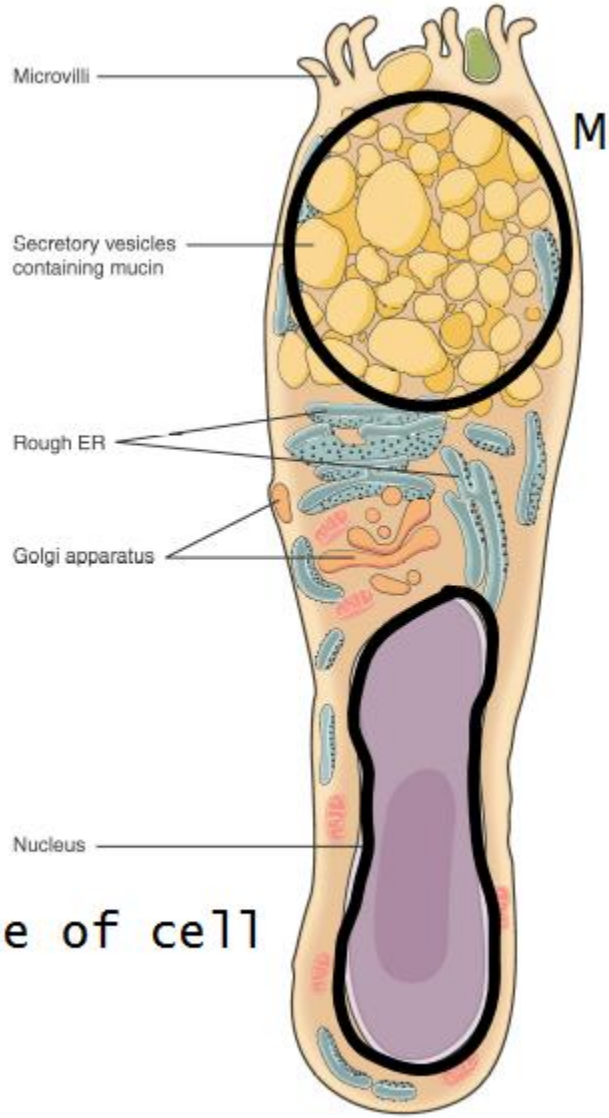
Epithelium Analogy

Tubular



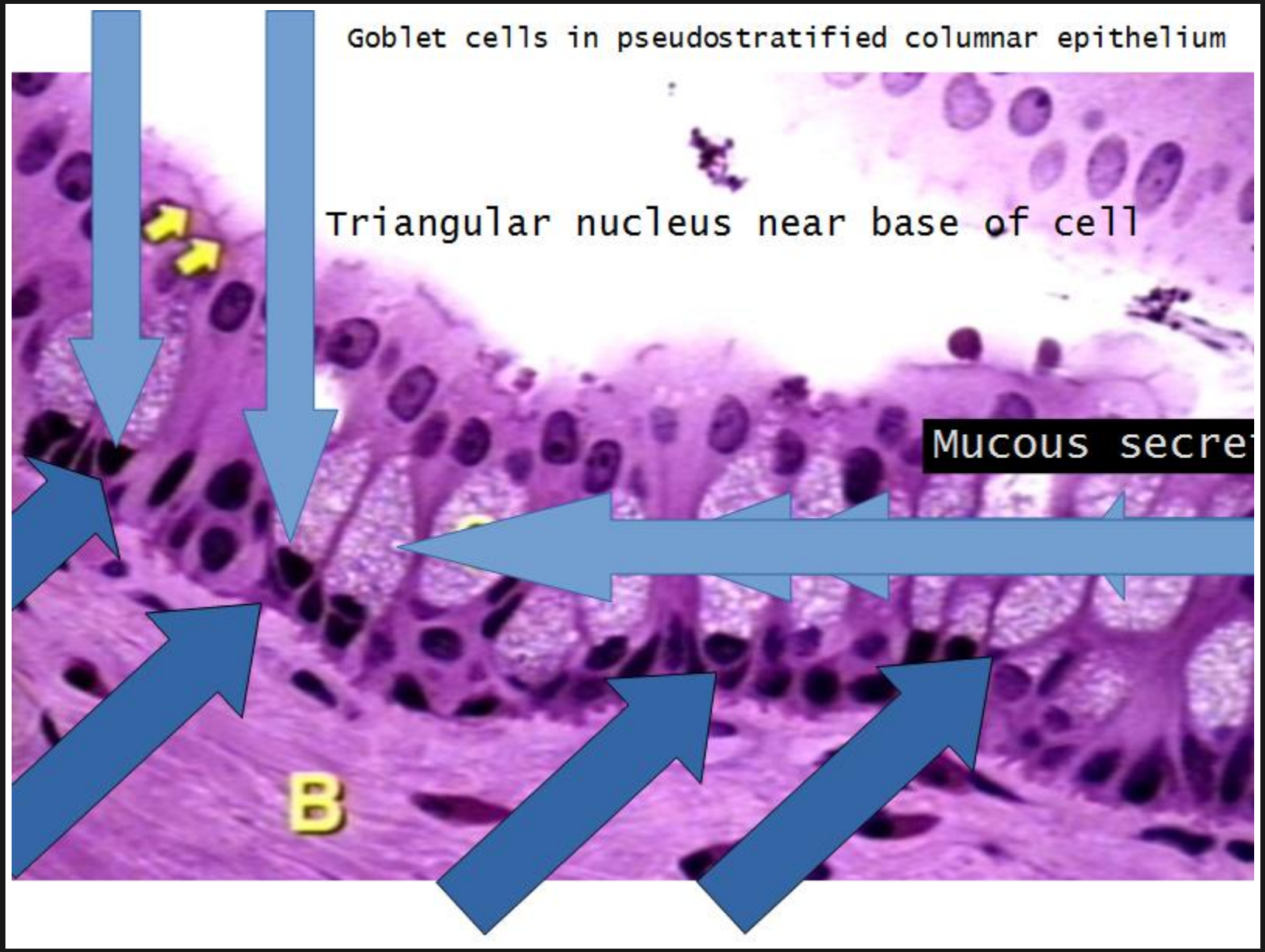

Goblet cell in epithelium
Luminal surface
Mucous secrete
Triangular nucleus near base of cell
Basement membrane

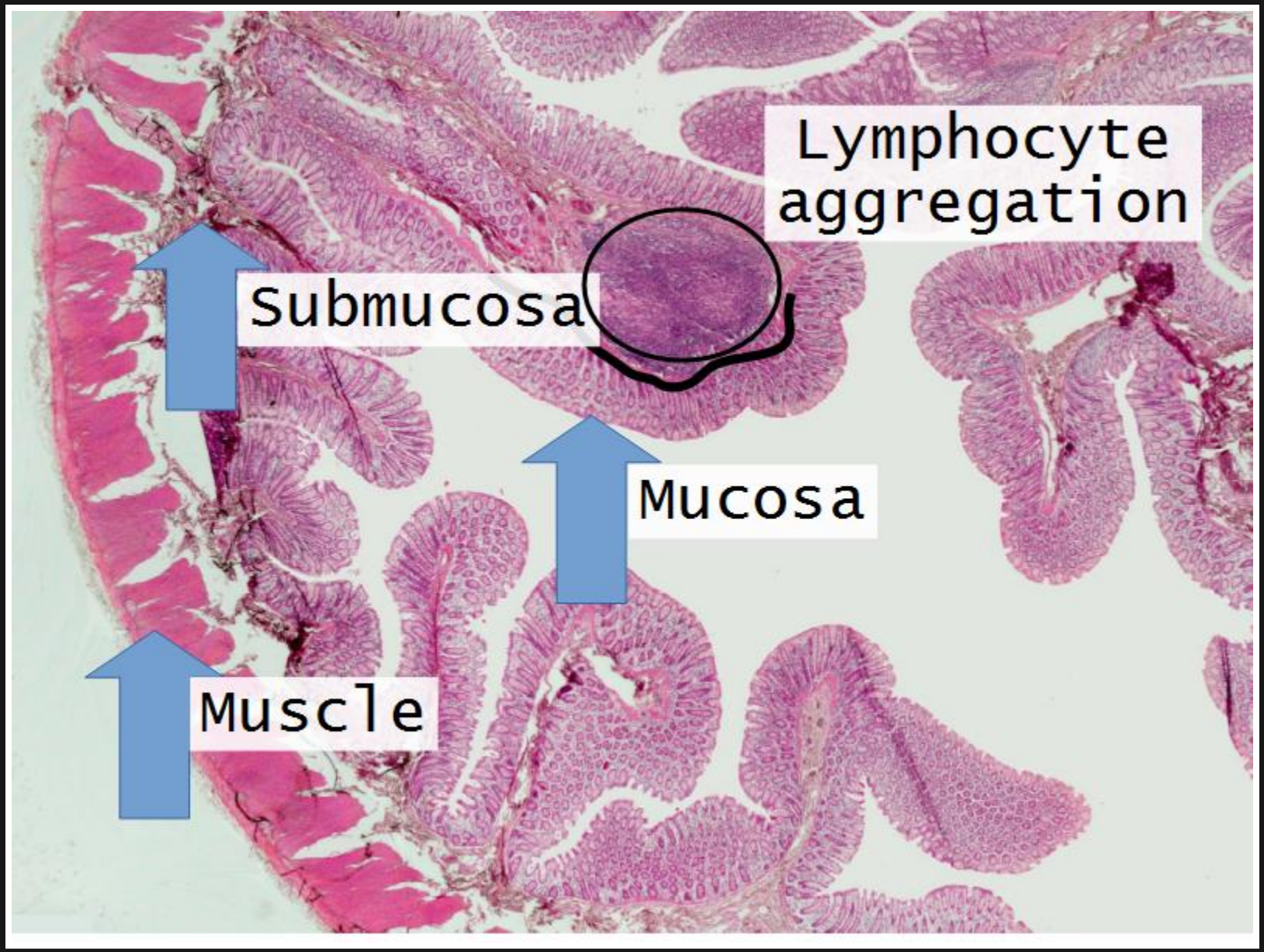
Goblet cell

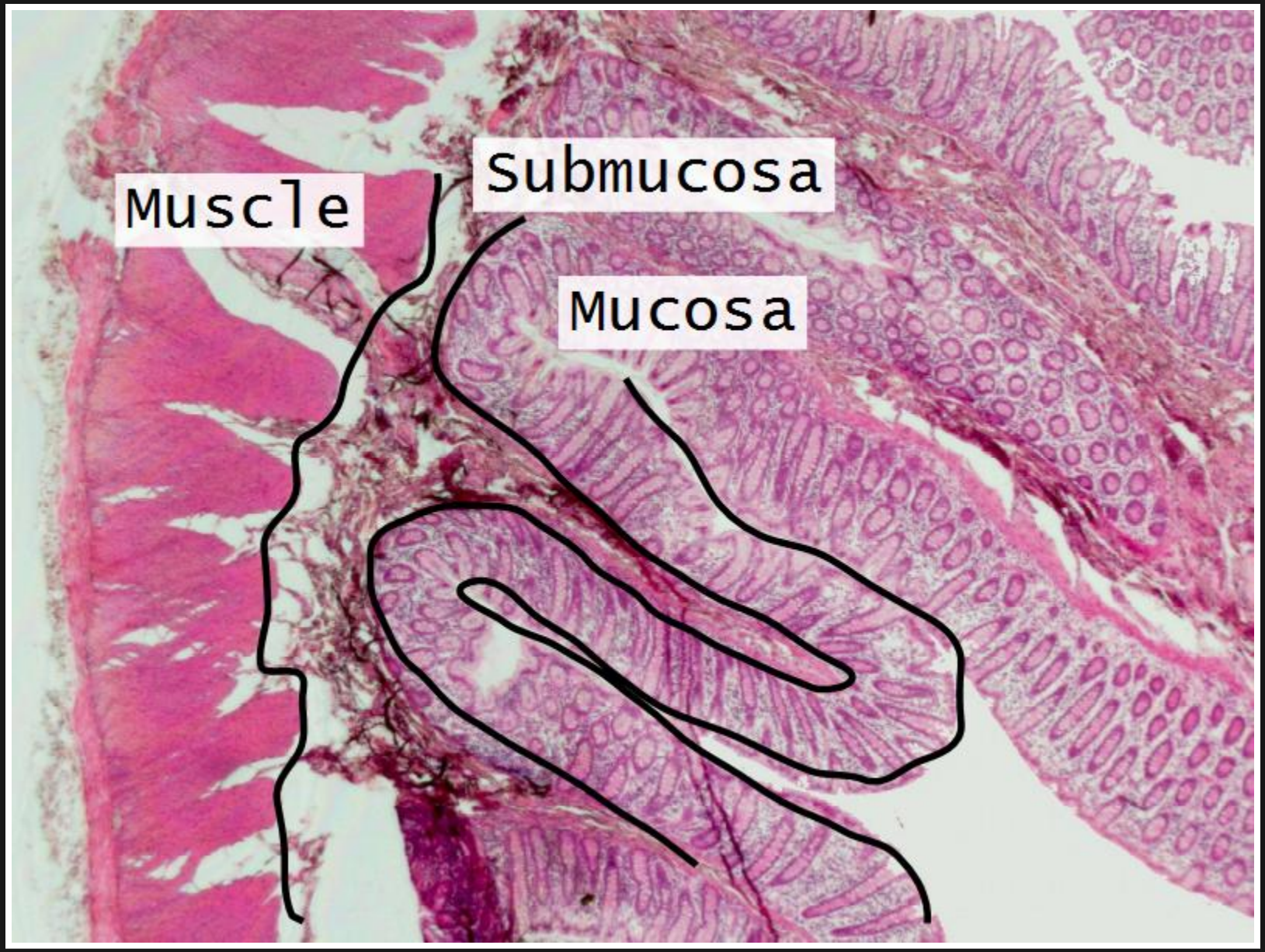


Mucous secrete

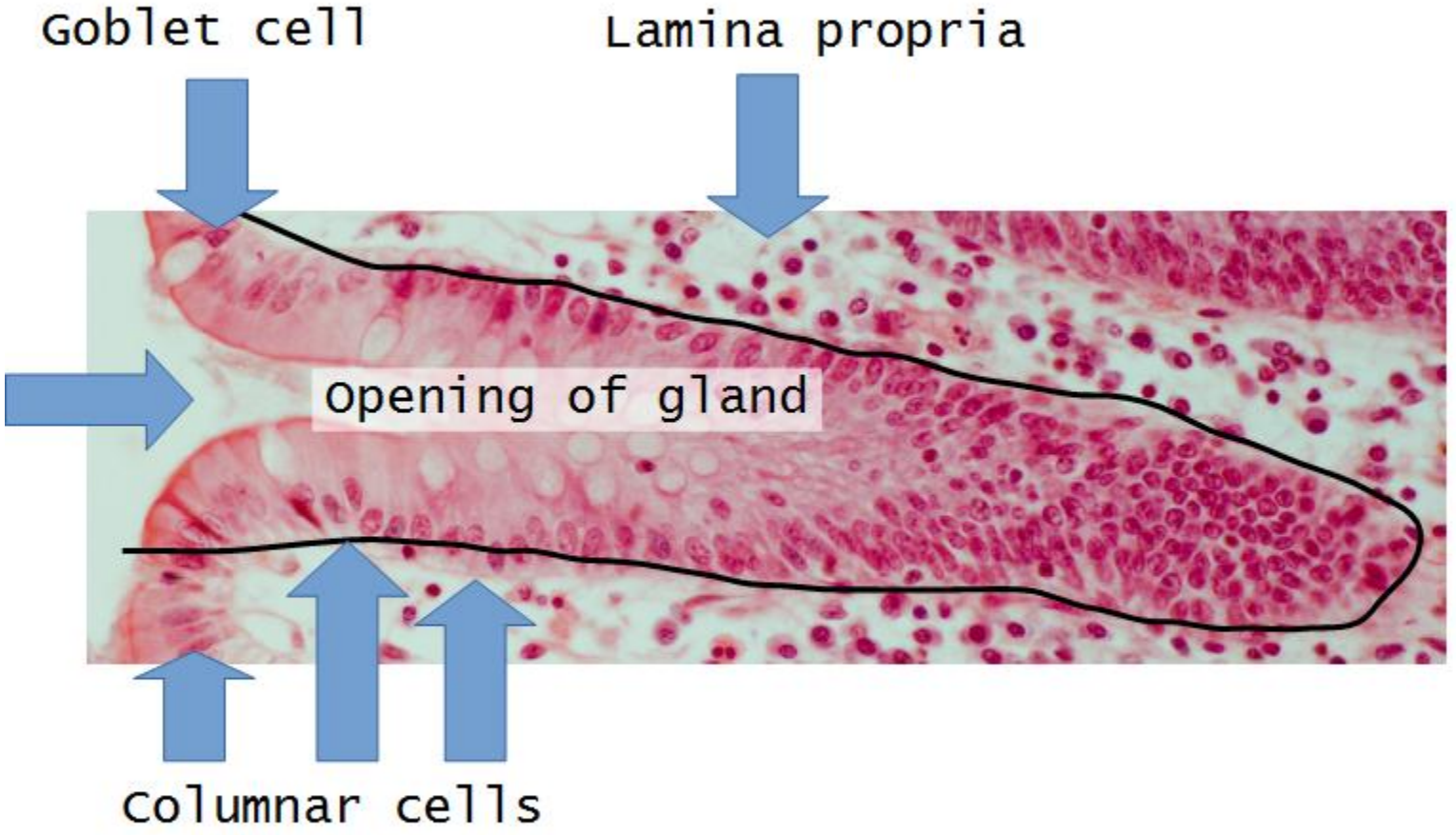
Nucleus near base of cell

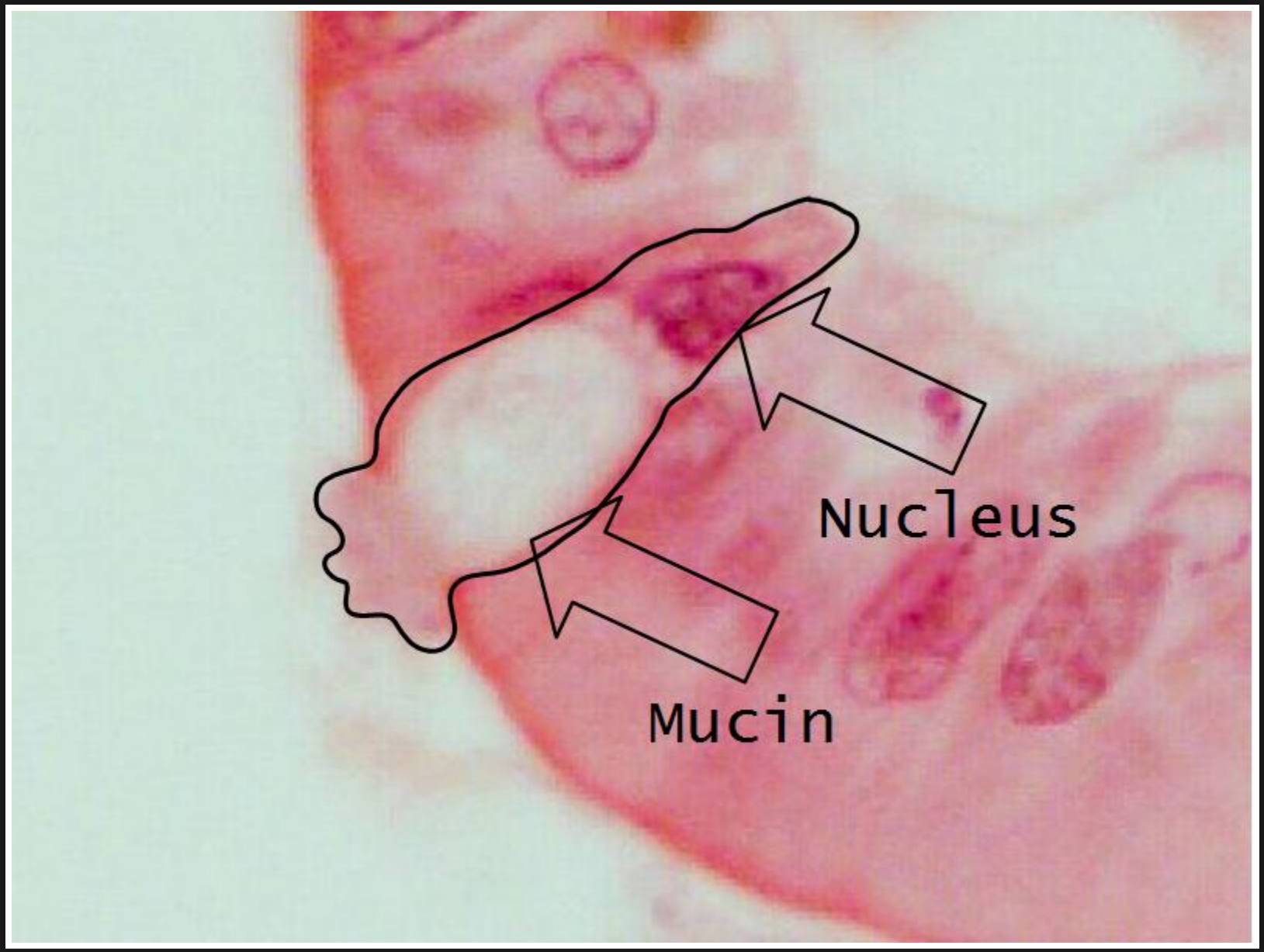

Goblet cells in pseudostratified columnar epithelium
Triangular nucleus near base of cell
Mucous secre
B

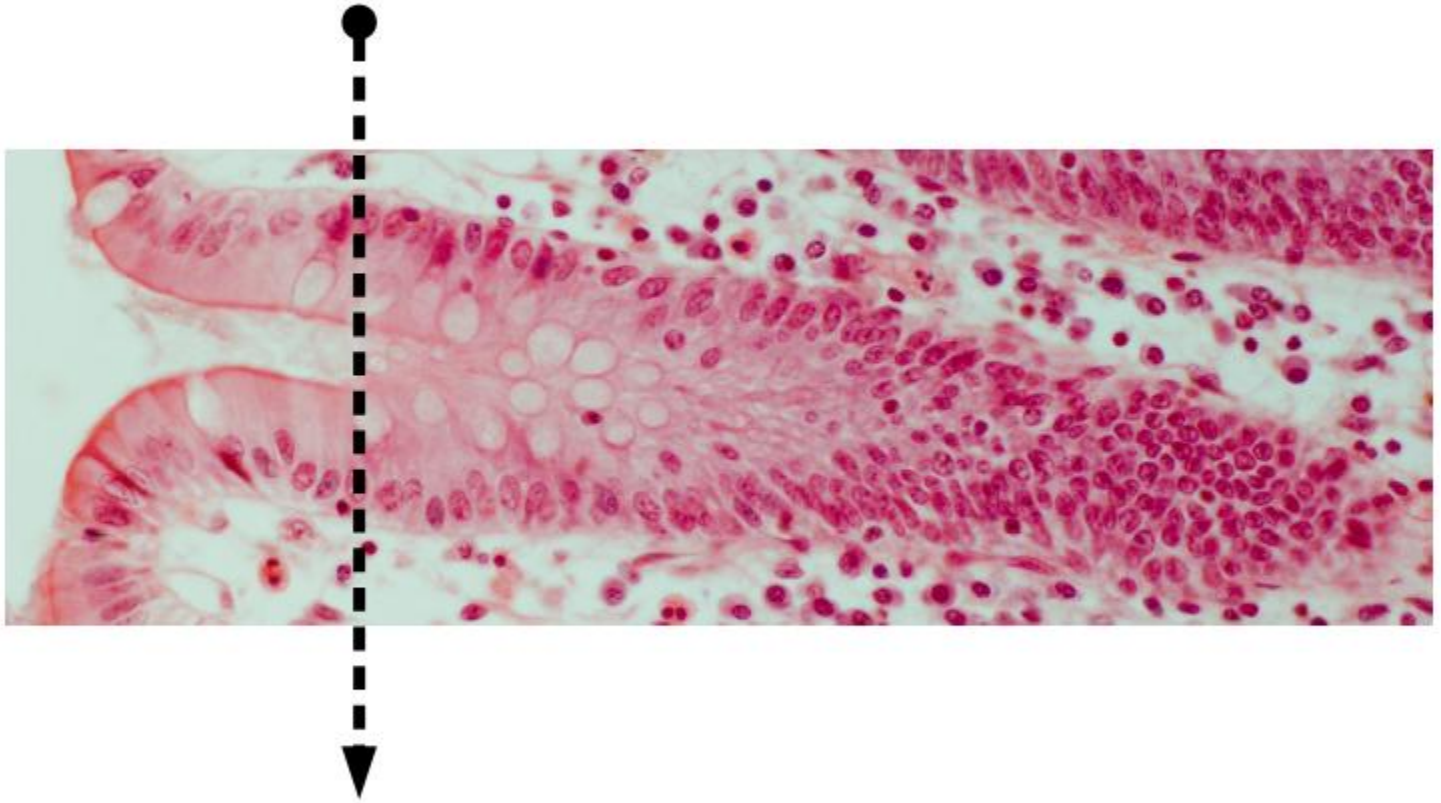

Lymphocyte aggregation
Submucosa
Mucosa
Muscle


Muscle
Submucosa
Mucosa

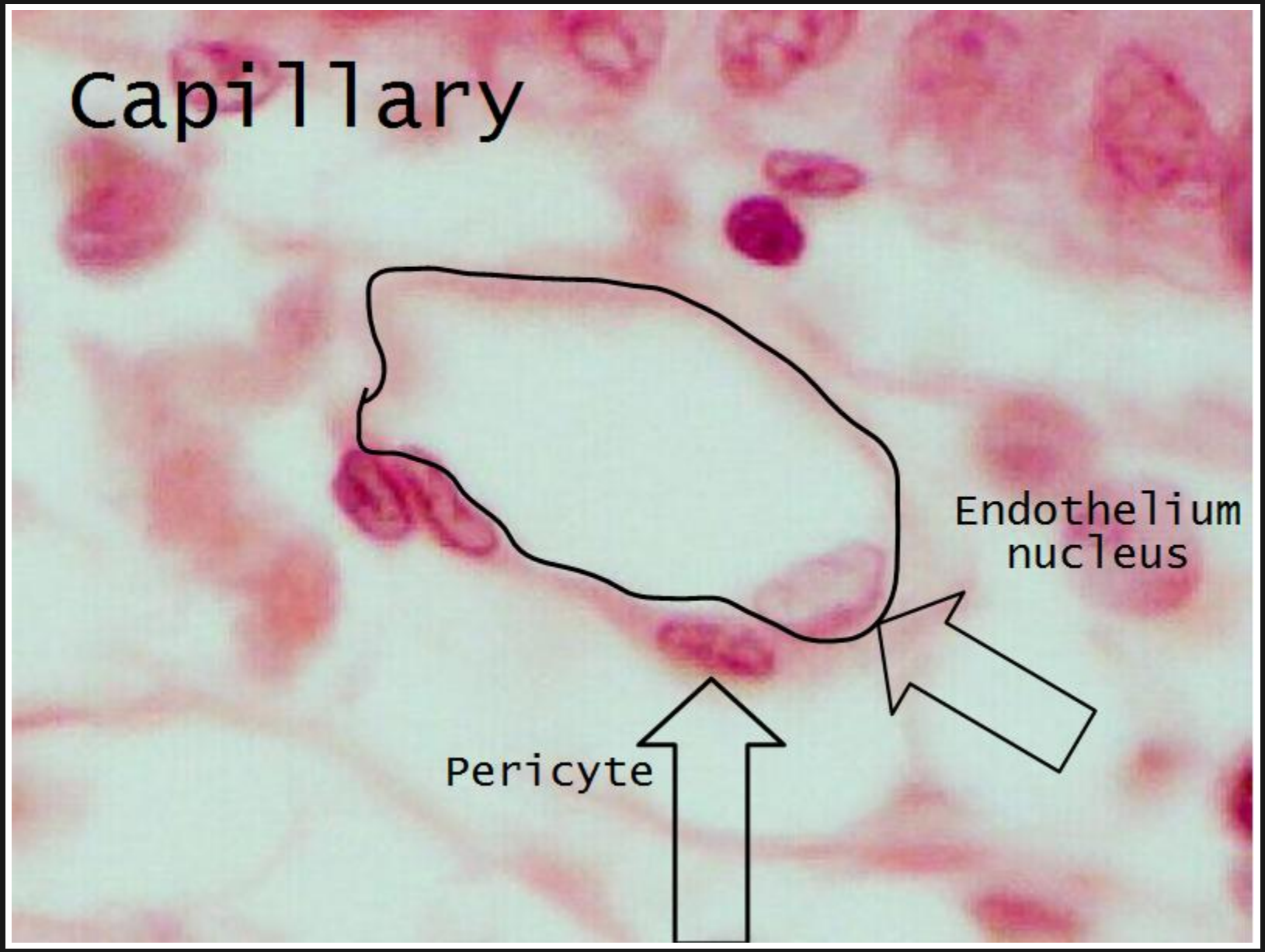

Simple
Tubular
Gland

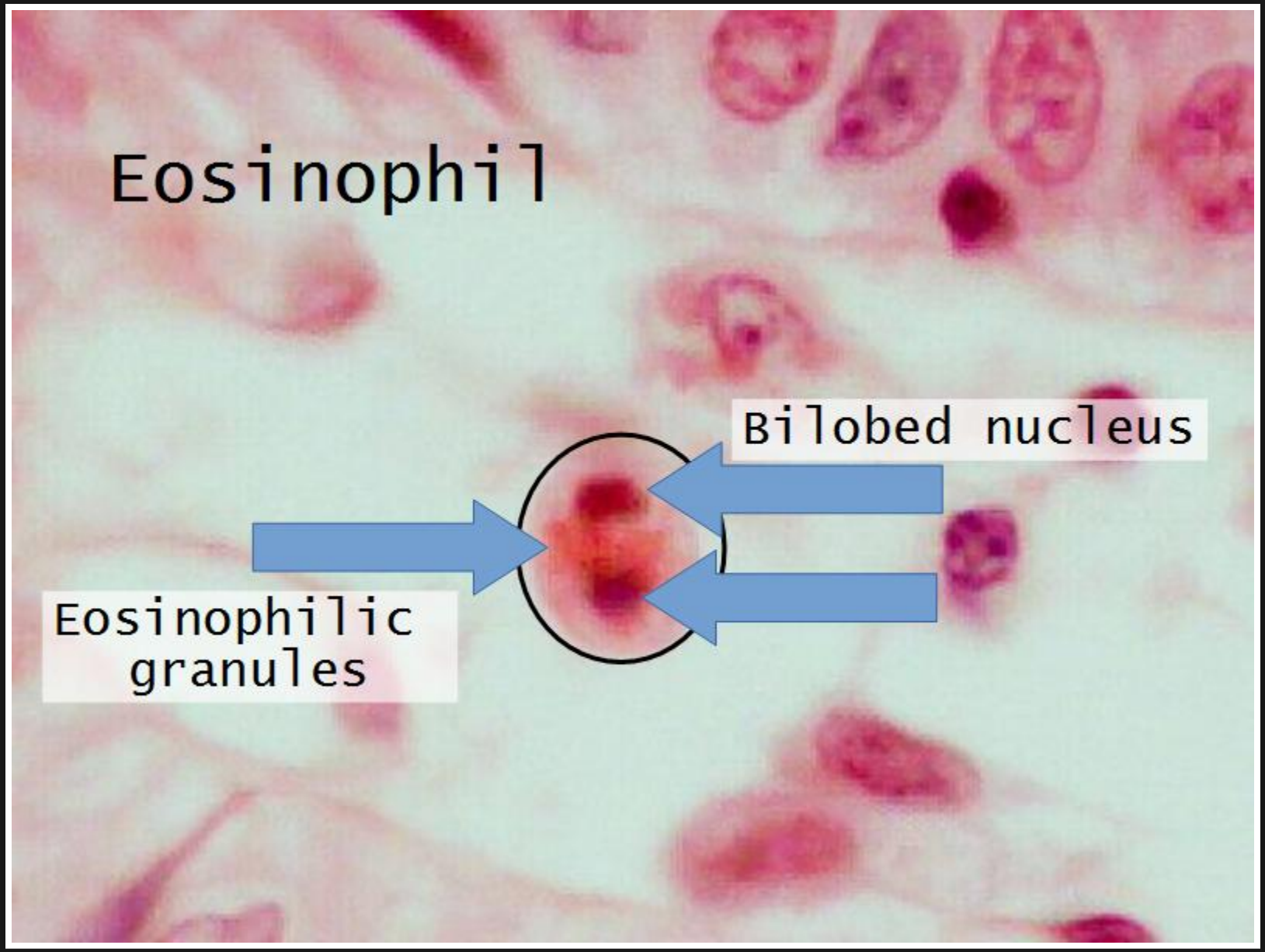

Goblet cell
Lamina propria
Opening of gland
Columnar cells

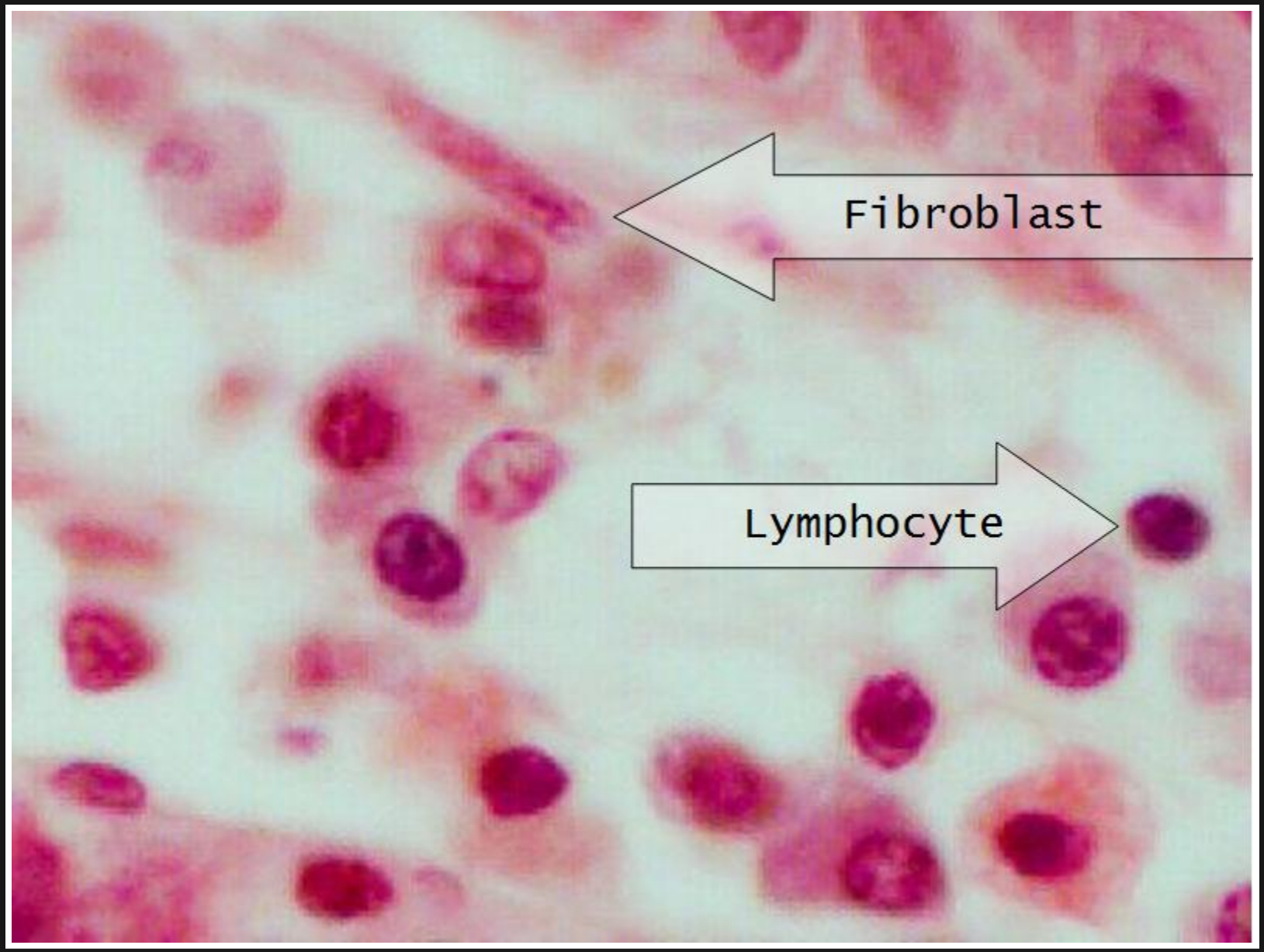

Nucleus
Mucin

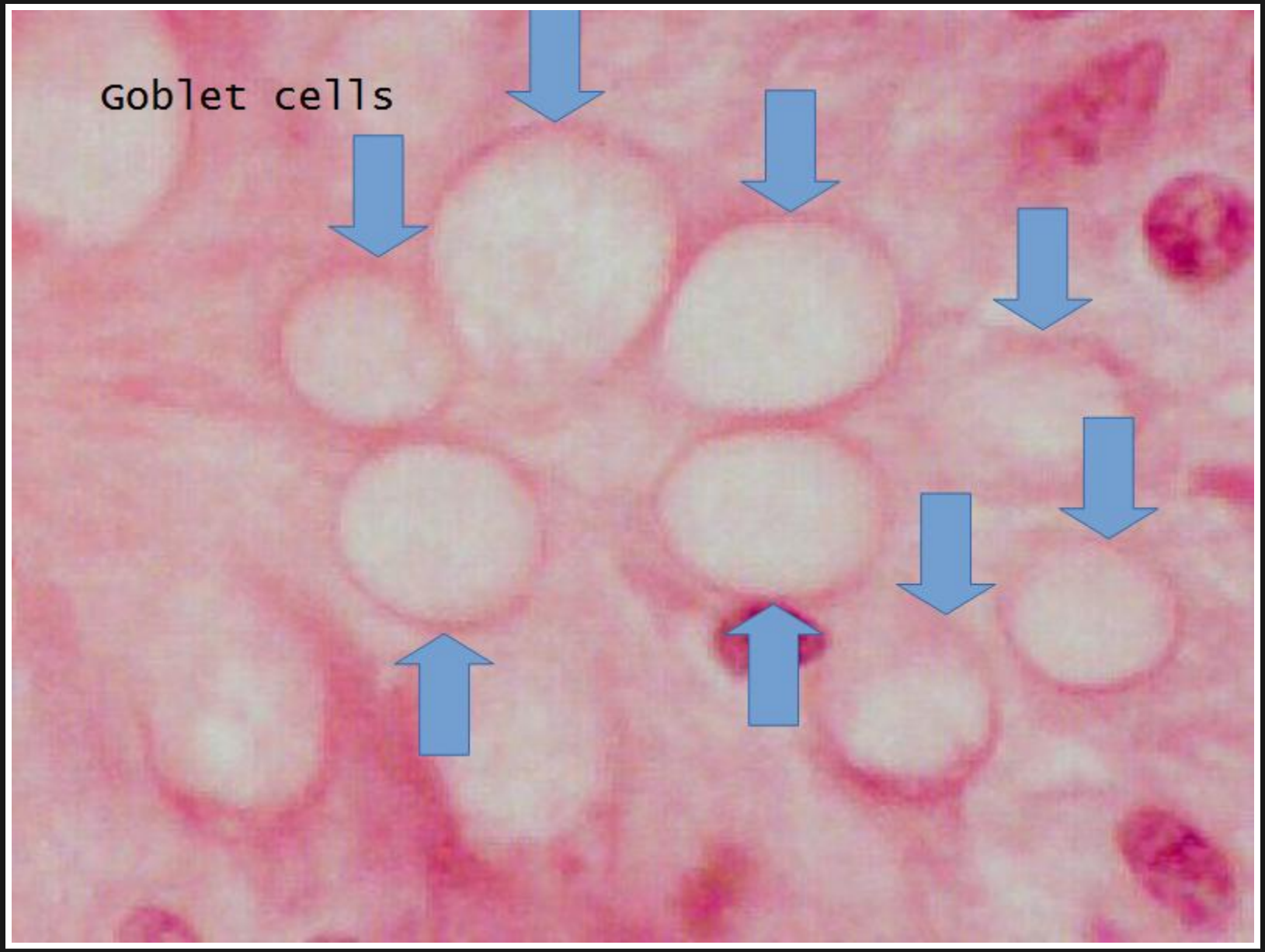



Lumen

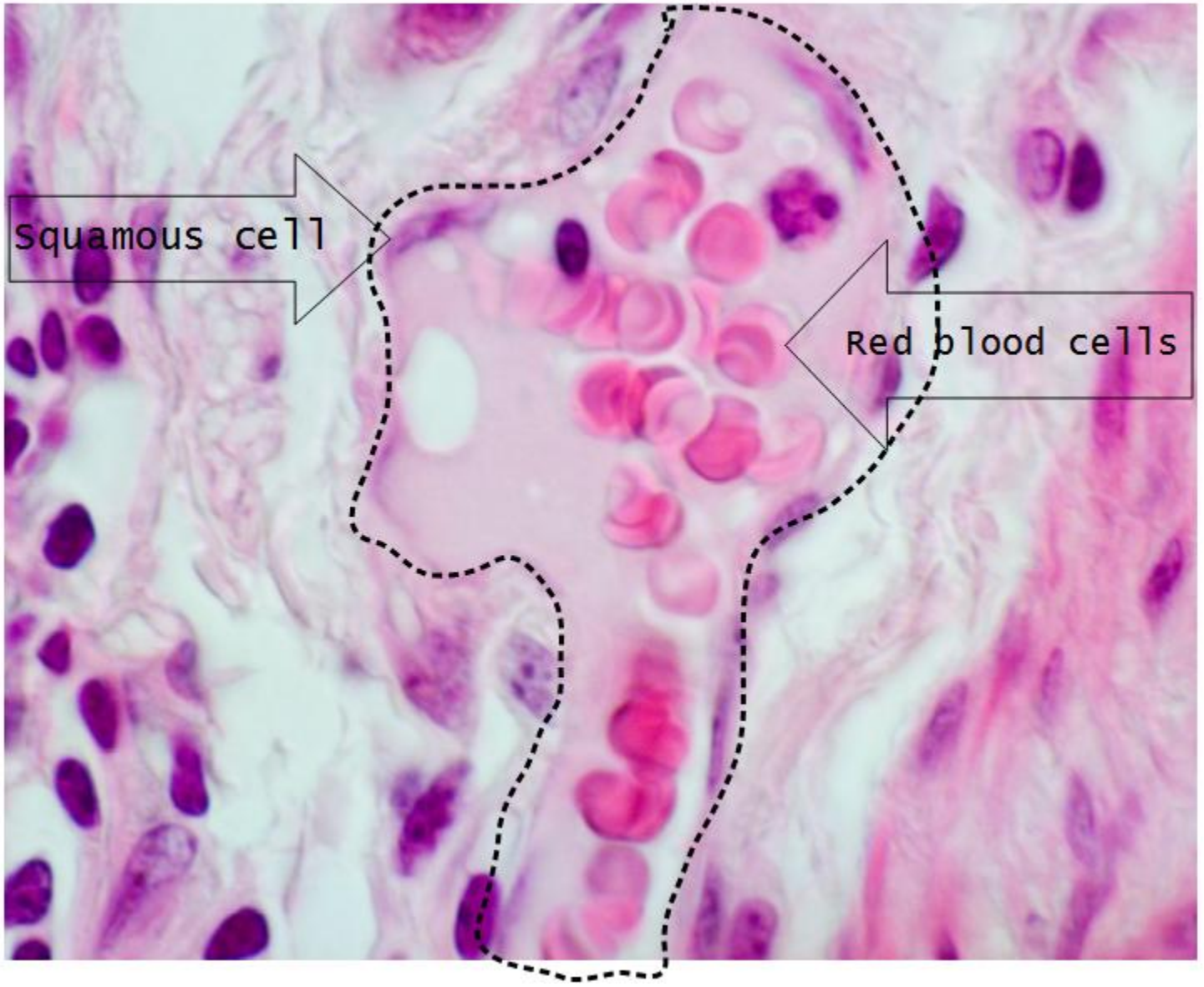

Capillary
Endothelium nucleus
Pericyte


Eosinophil
Bilobed nucleus
Eosinophilic granules


Fibroblast
Lymphocyte


Goblet cells


Goblet cells
Nuclei cut across near base of epitelium


Squamous cell
Red blood cells


Lymphocyte
Aggregation

Secretory units

Mucinous

Serous

Secretory units

- Serous
- Protein
- Sticky
- Dark stained

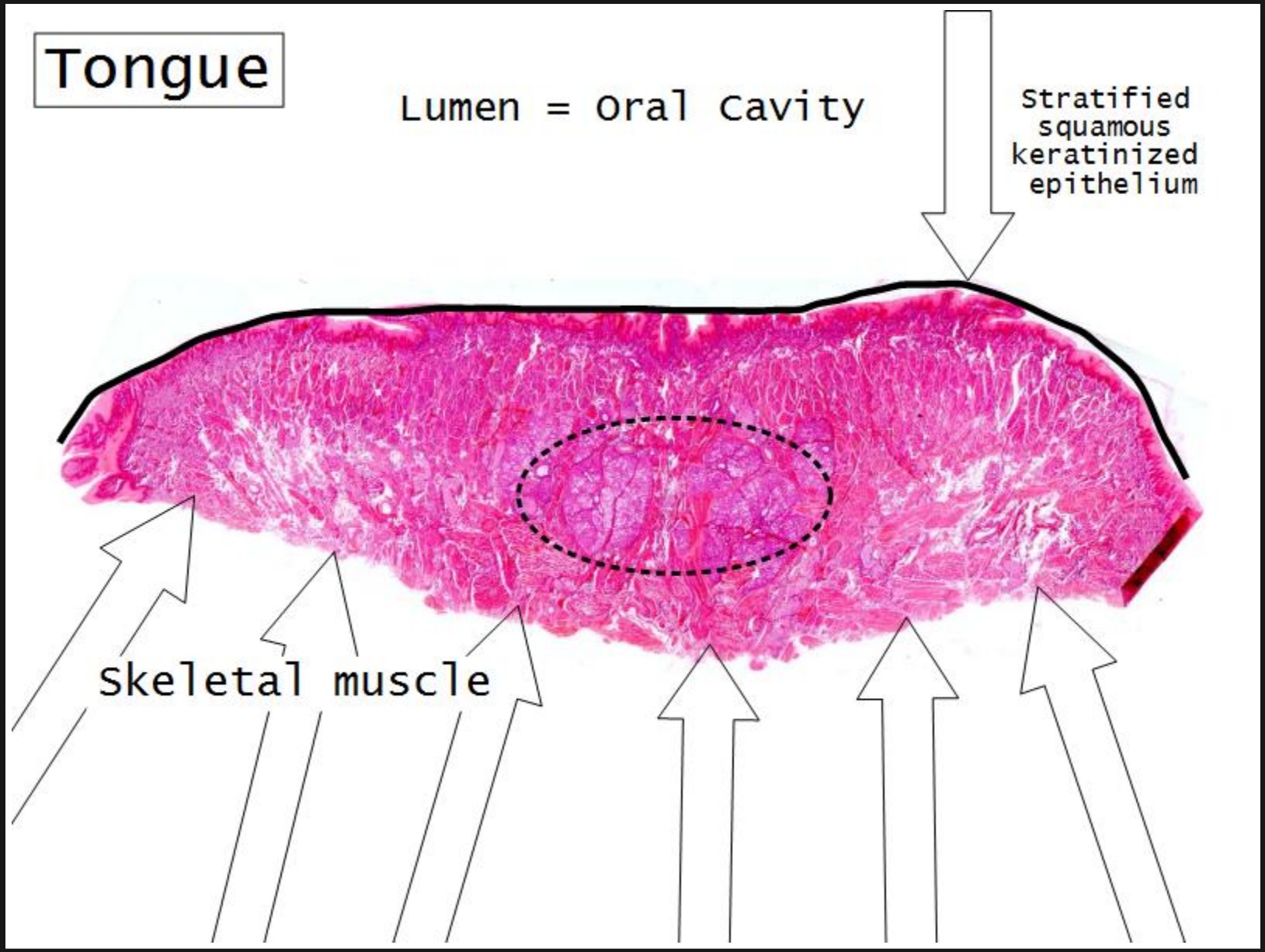
- Mucinous
- Mucin
- Watery
- Light stained

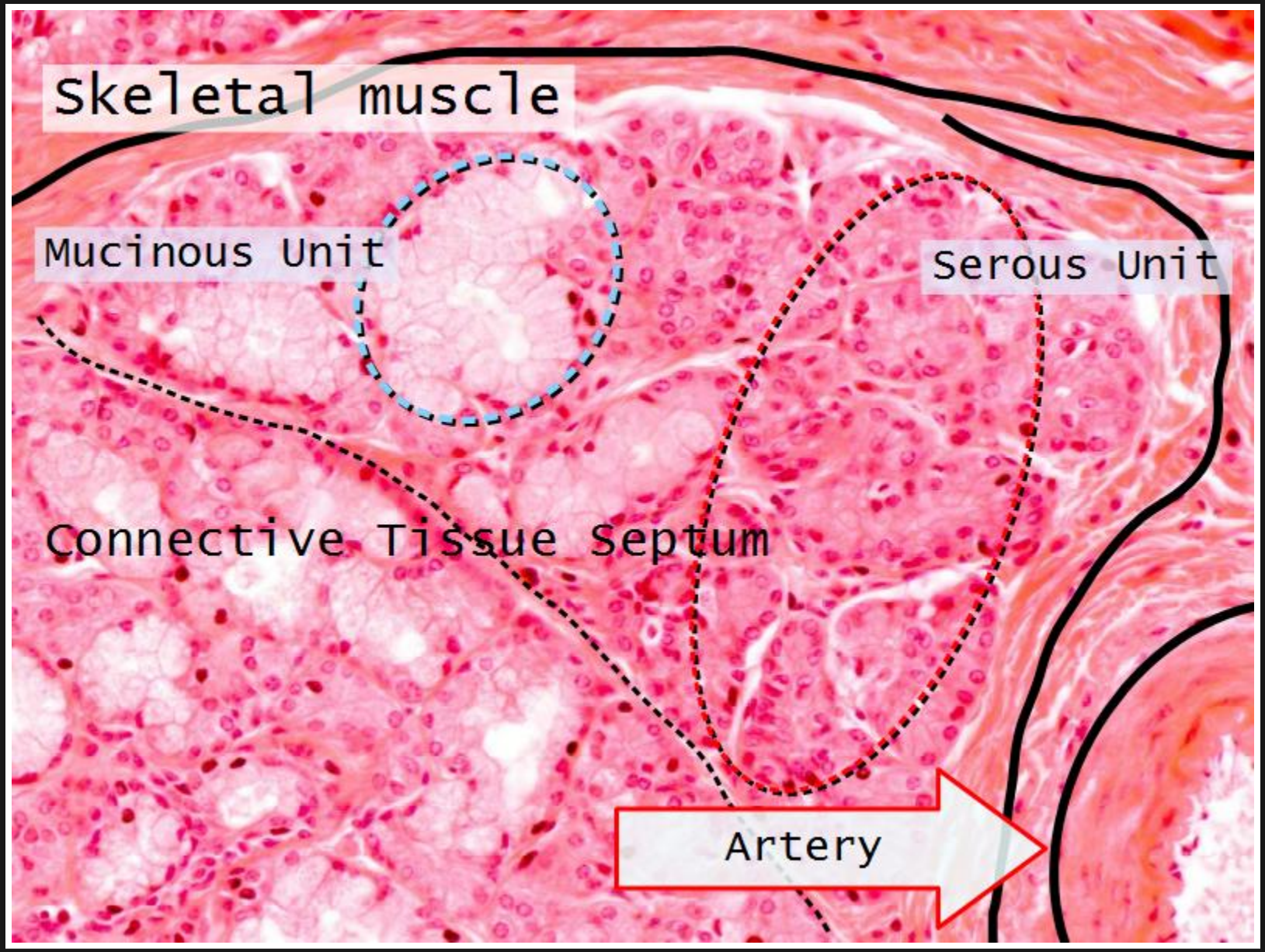
- Mixed
- Both types
- Demi-lunes

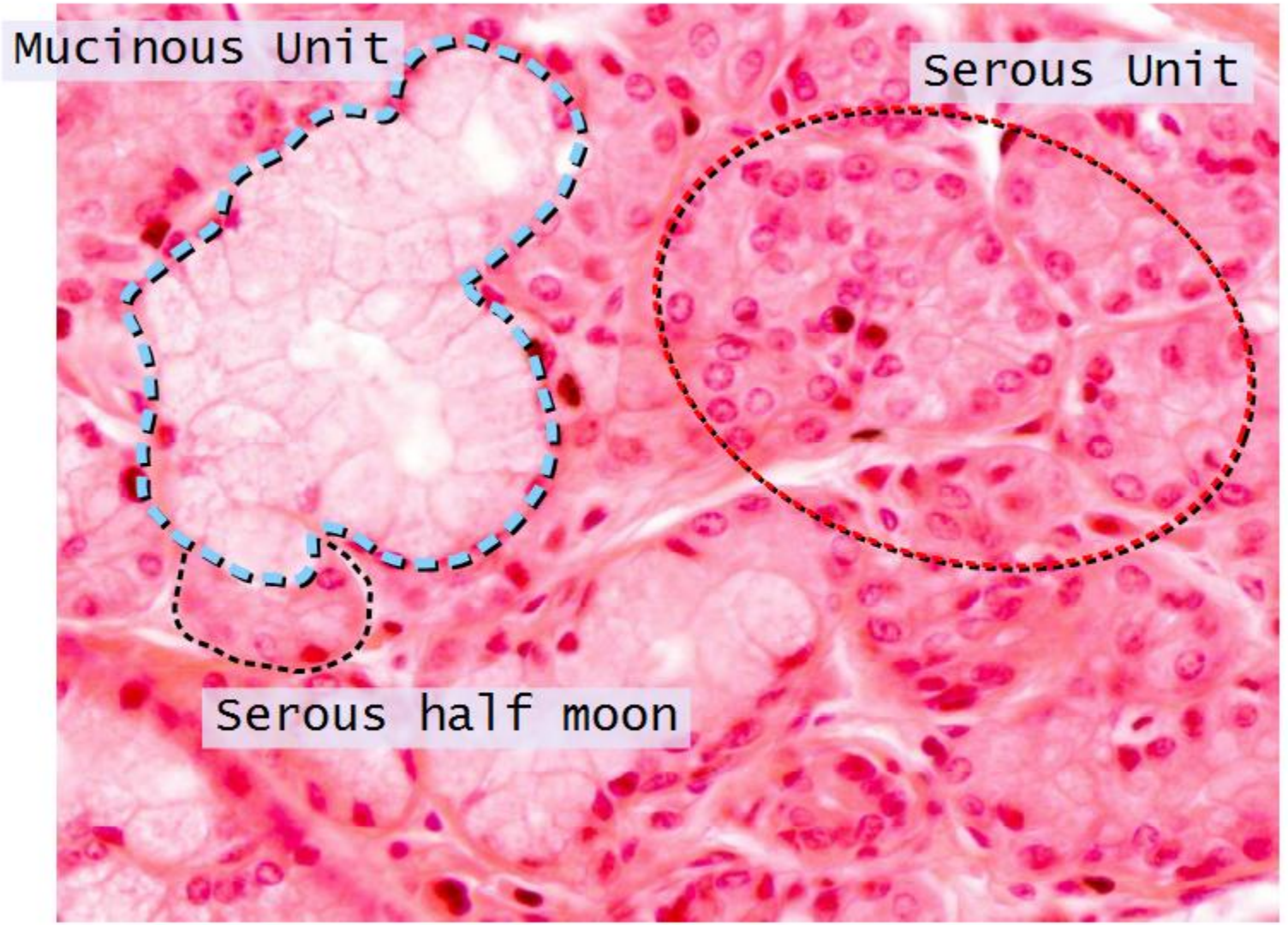
Slide 7 - Tongue

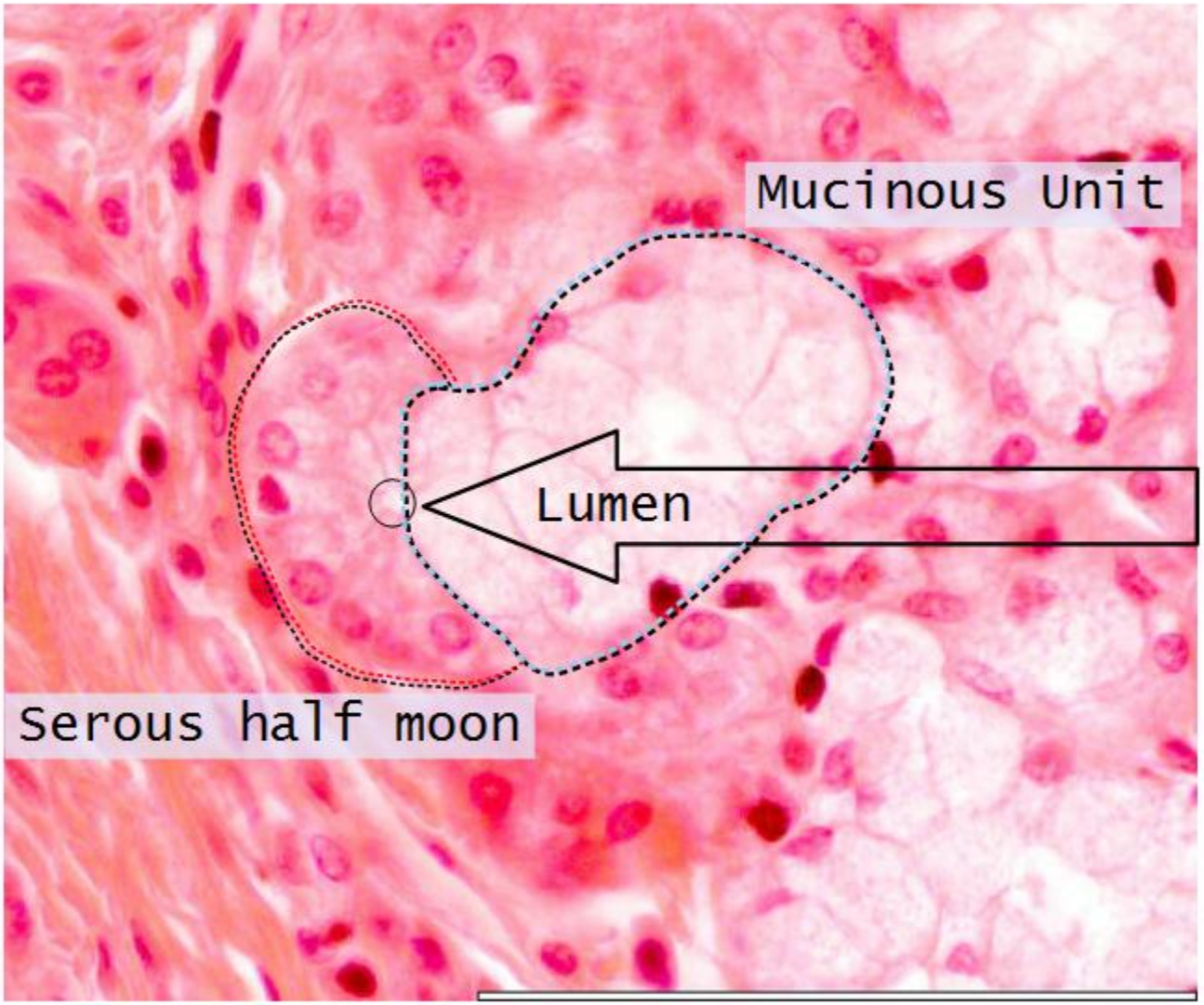
Mucinous

Serous demilunes


Tongue
Lumen = Oral Cavity
Stratified squamous keratinized epithelium
Skeletal muscle


Skeletal muscle
Mucinous Unit
Serous Unit
Connective Tissue Septum
Artery

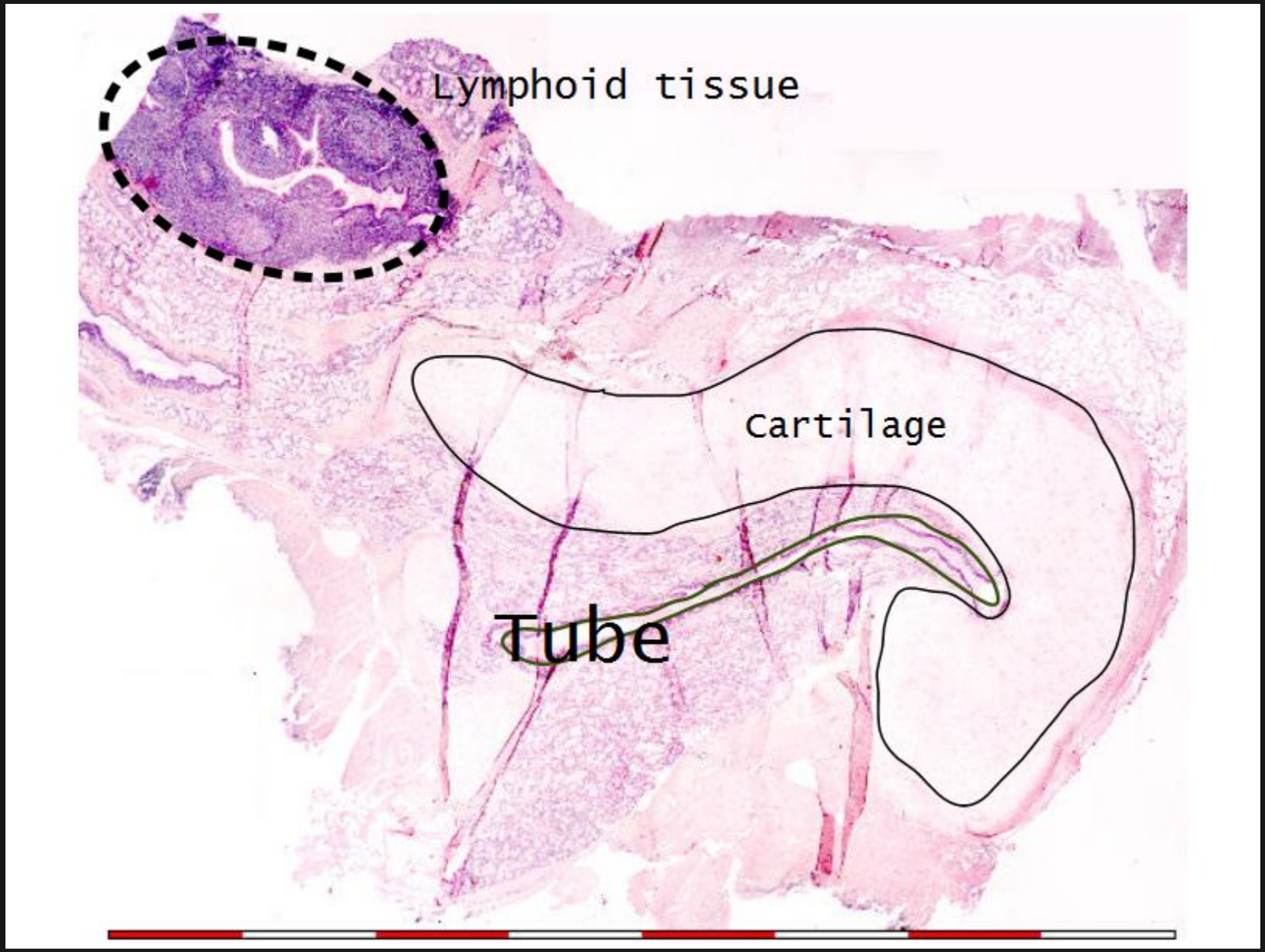

Mucinous Unit
Serous Unit
Serous half moon

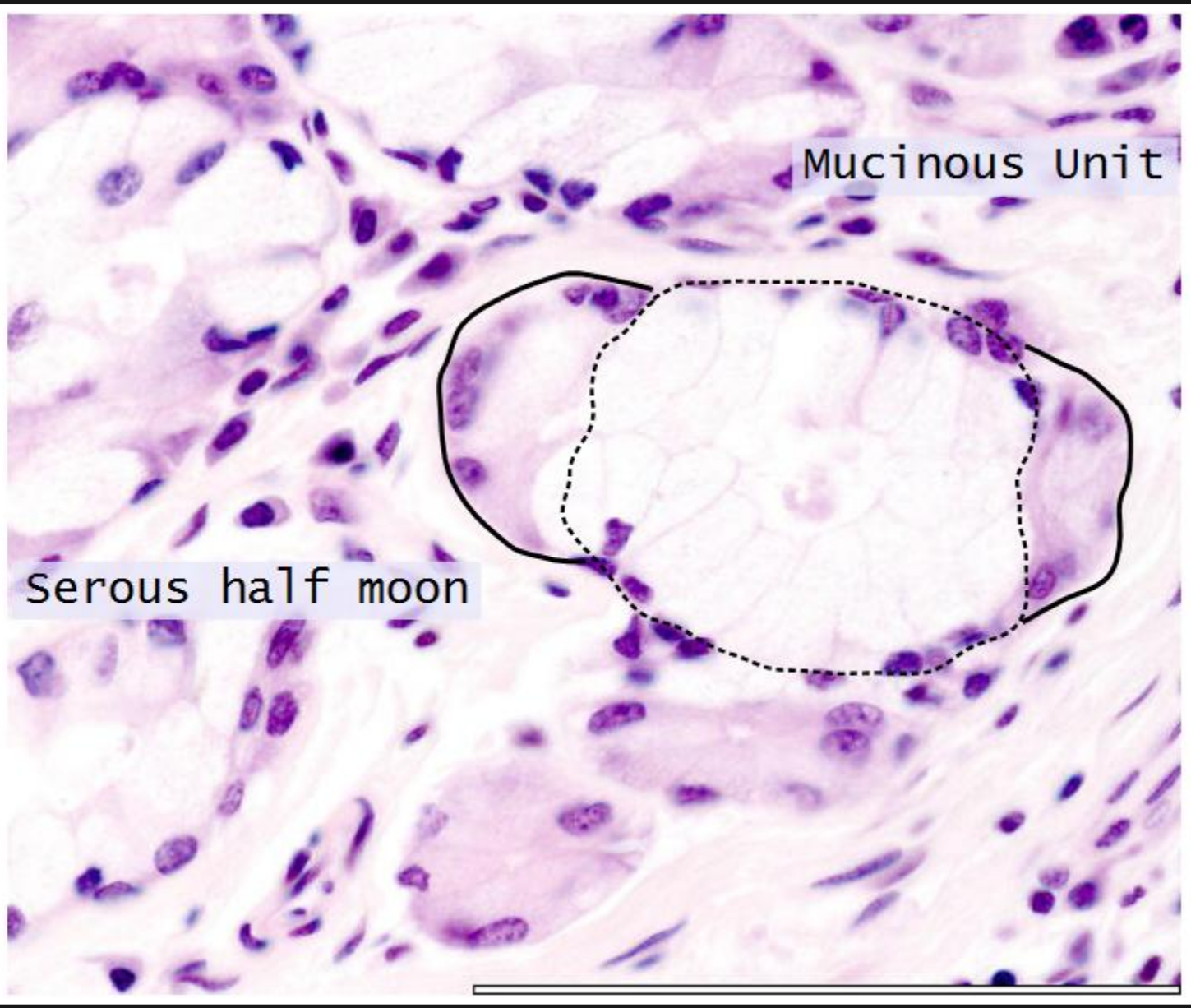

Mucinous Unit
Lumen
Serous half moon

Slide 39 - Pharyngeal tube

Mucinous

Serous demilunes


Lymphoid tissue
Cartilage
Tube


Mucinous Unit
Serous half moon

Endocrine

Endocrine

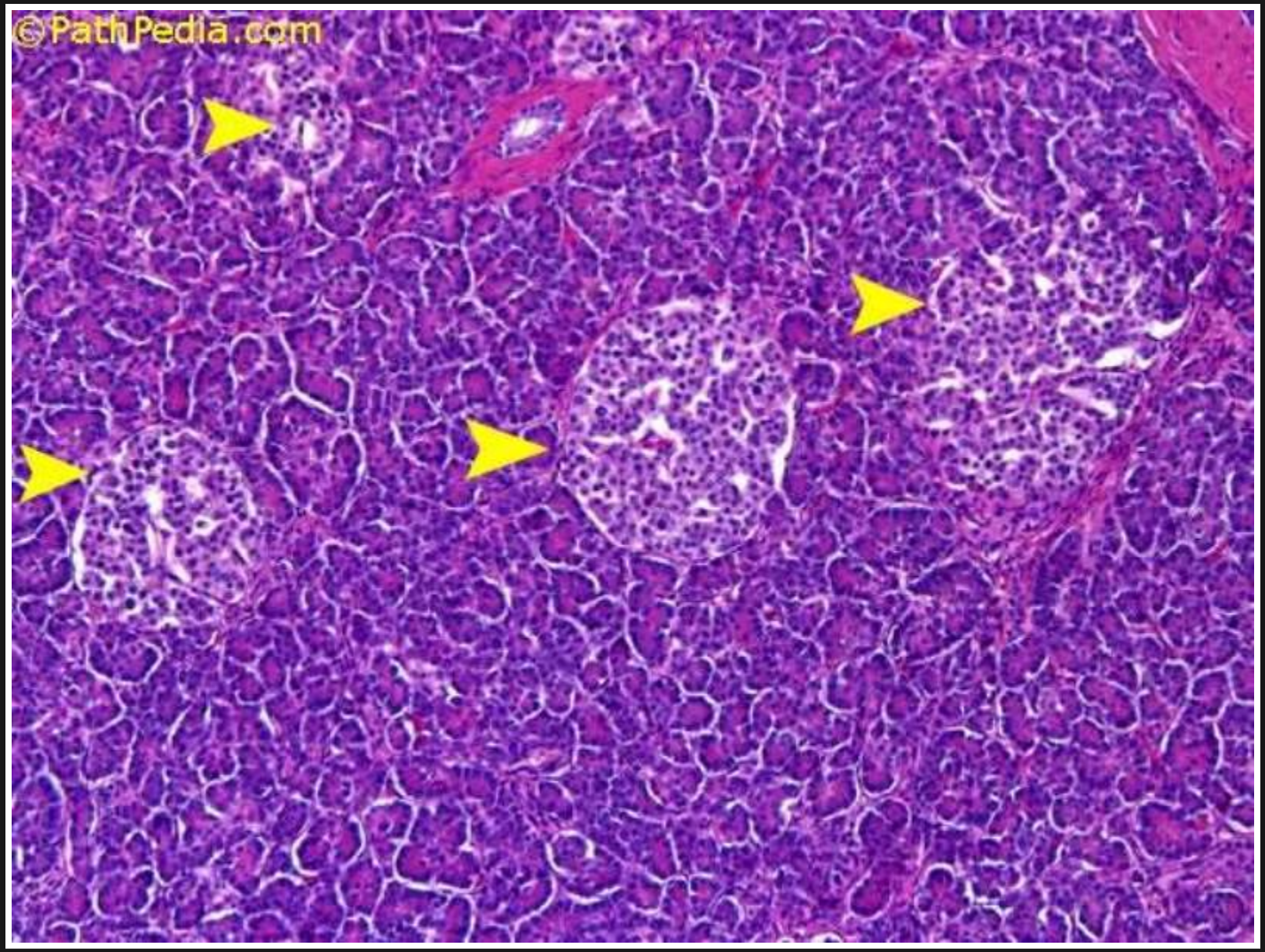
- Follicles
- Cords
- Groups
- Islands

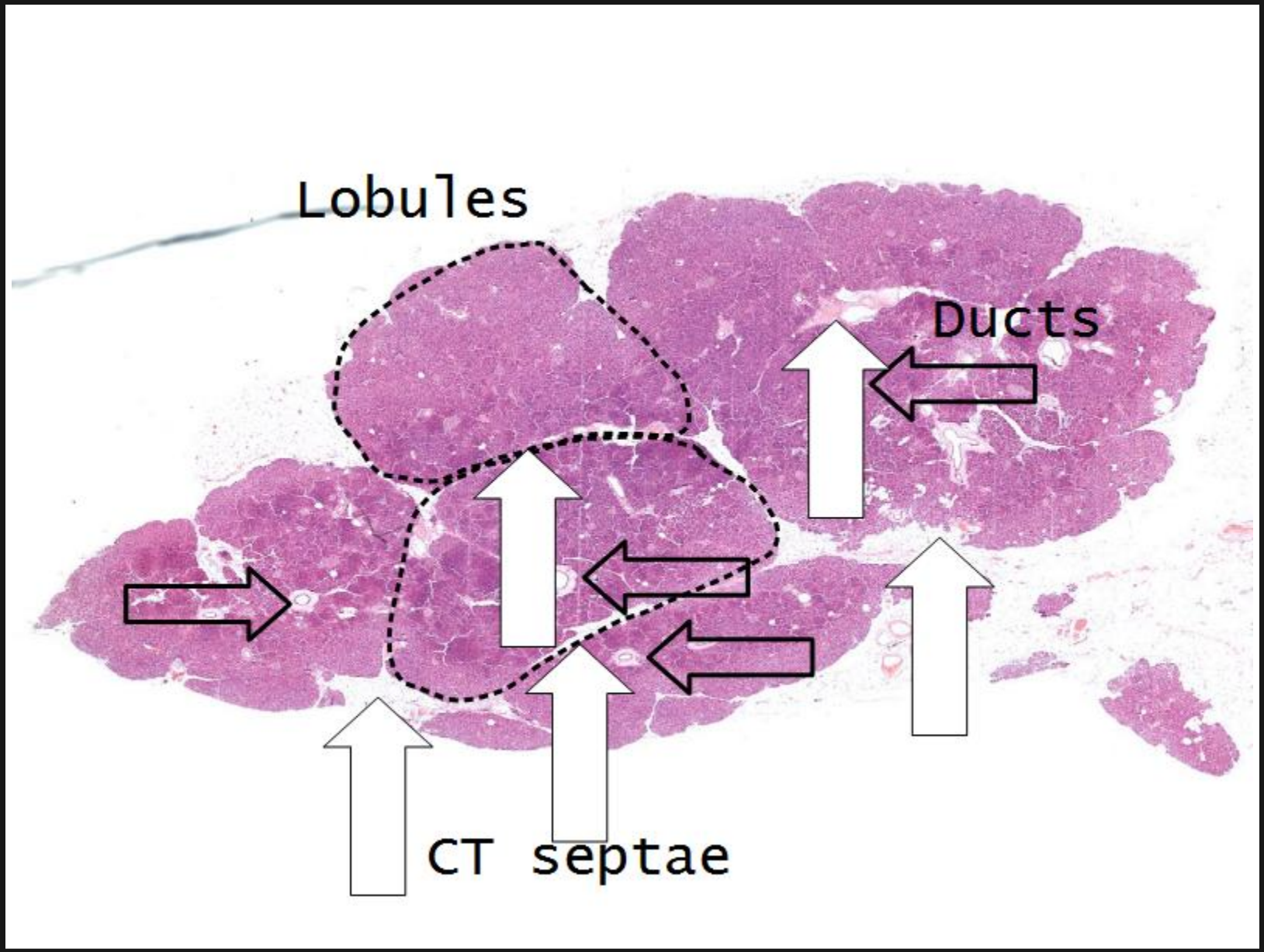
Slide 50 - Pancreas

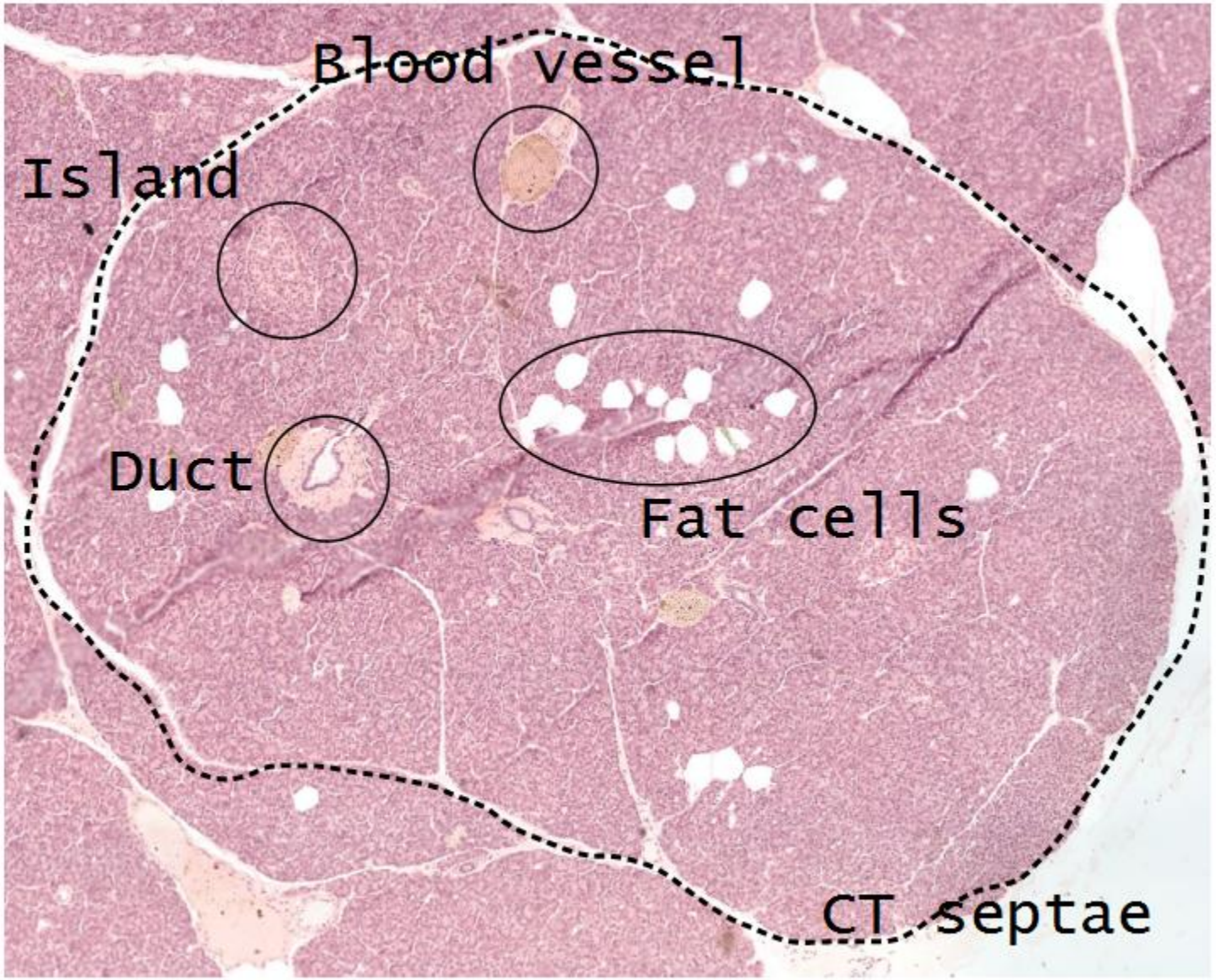
- Exocrine + Endocrine
- Acinar / Tubulo-acinar
- Simple epithelium of pyramidal serous cells
- Basal basophilia
- Duct starts inside acinus
- Centro-acinar cells
- Endocrine islands

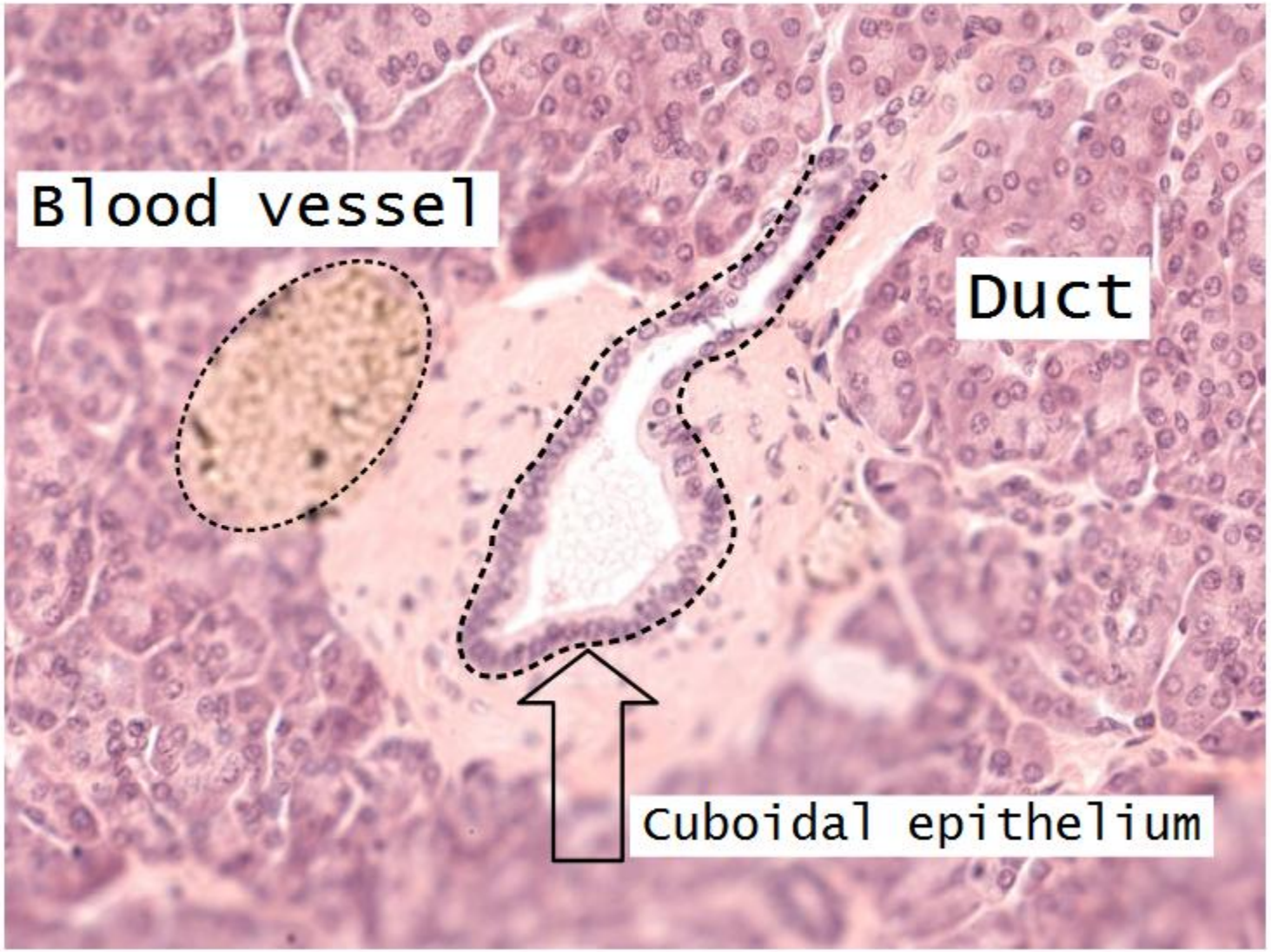
Islands

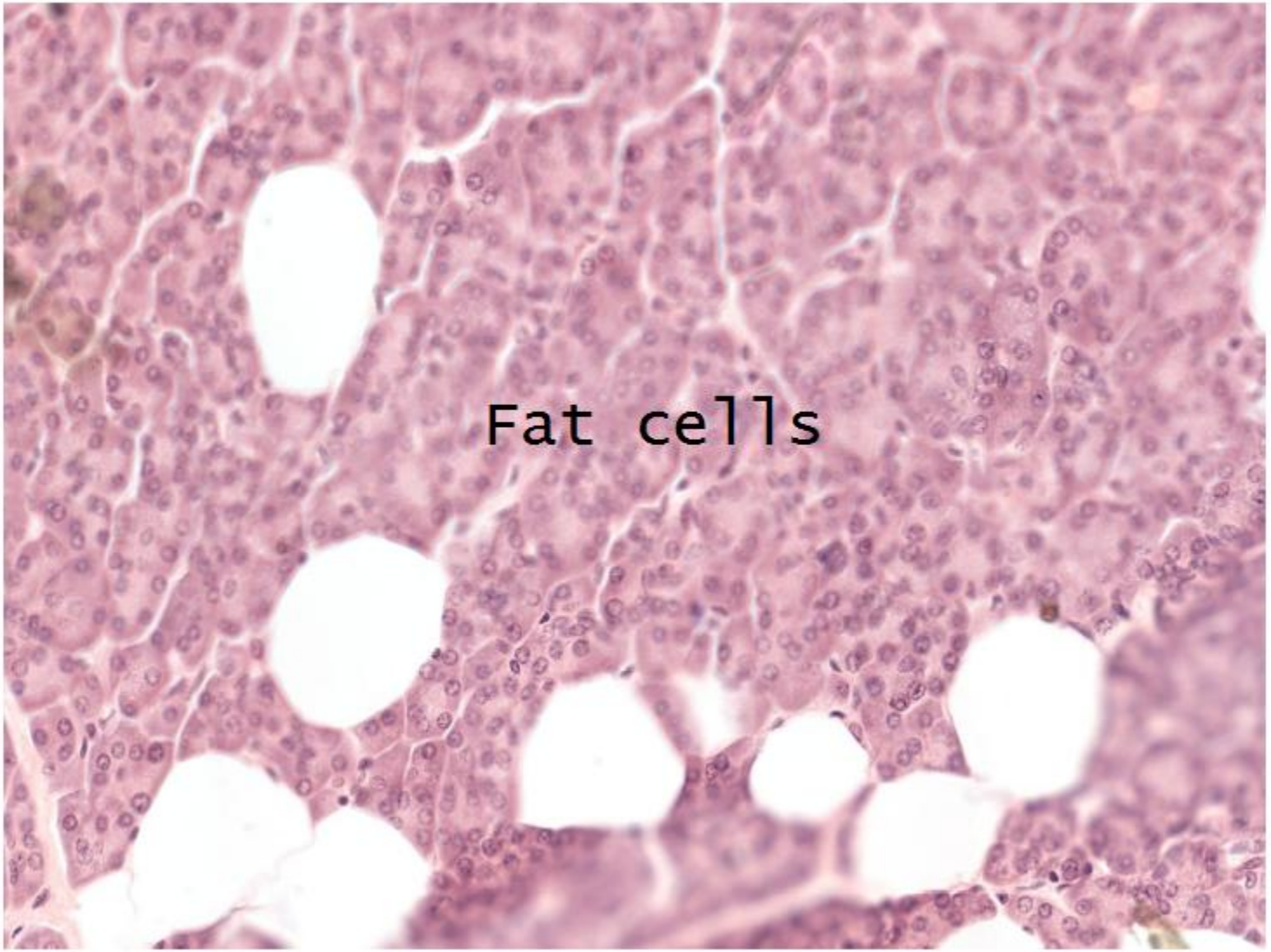

LONG ISLAND ICED TEA
Ice cubes
Splash of soda
Triple sec 1oz.(30ml)
Gin 1oz.(30ml)
White rum 1oz.(30ml)
Lemon segment
Sweet/sour mix 1½oz.(45ml)
Tequila 1oz.(30ml)
Vodka 1oz.(30ml)

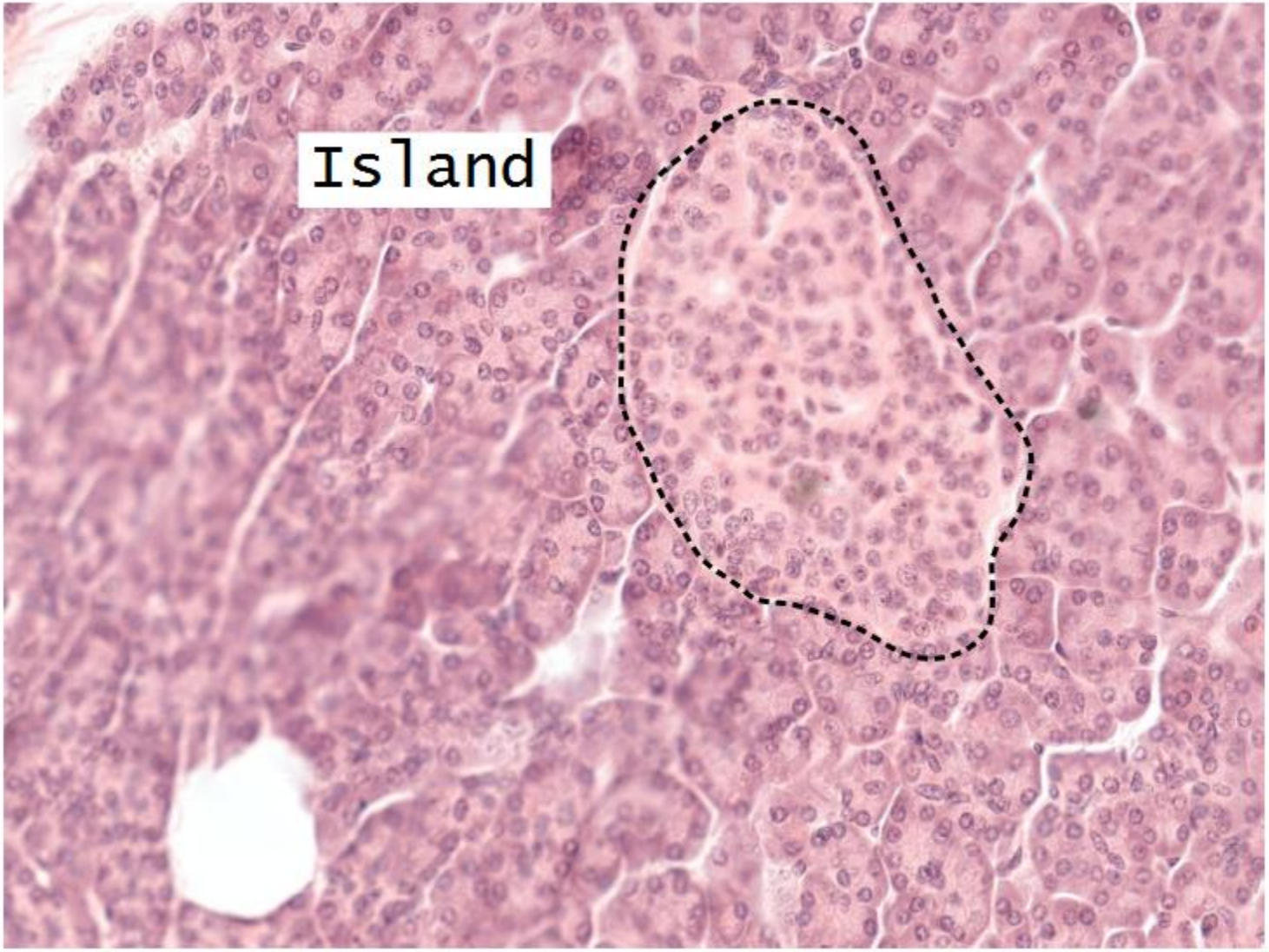

©PathPedia.com


Lobules
Ducts
CT septae


Blood vessel
Island
Duct
Fat cells
CT septae


Blood vessel
Duct
Cuboidal epithelium

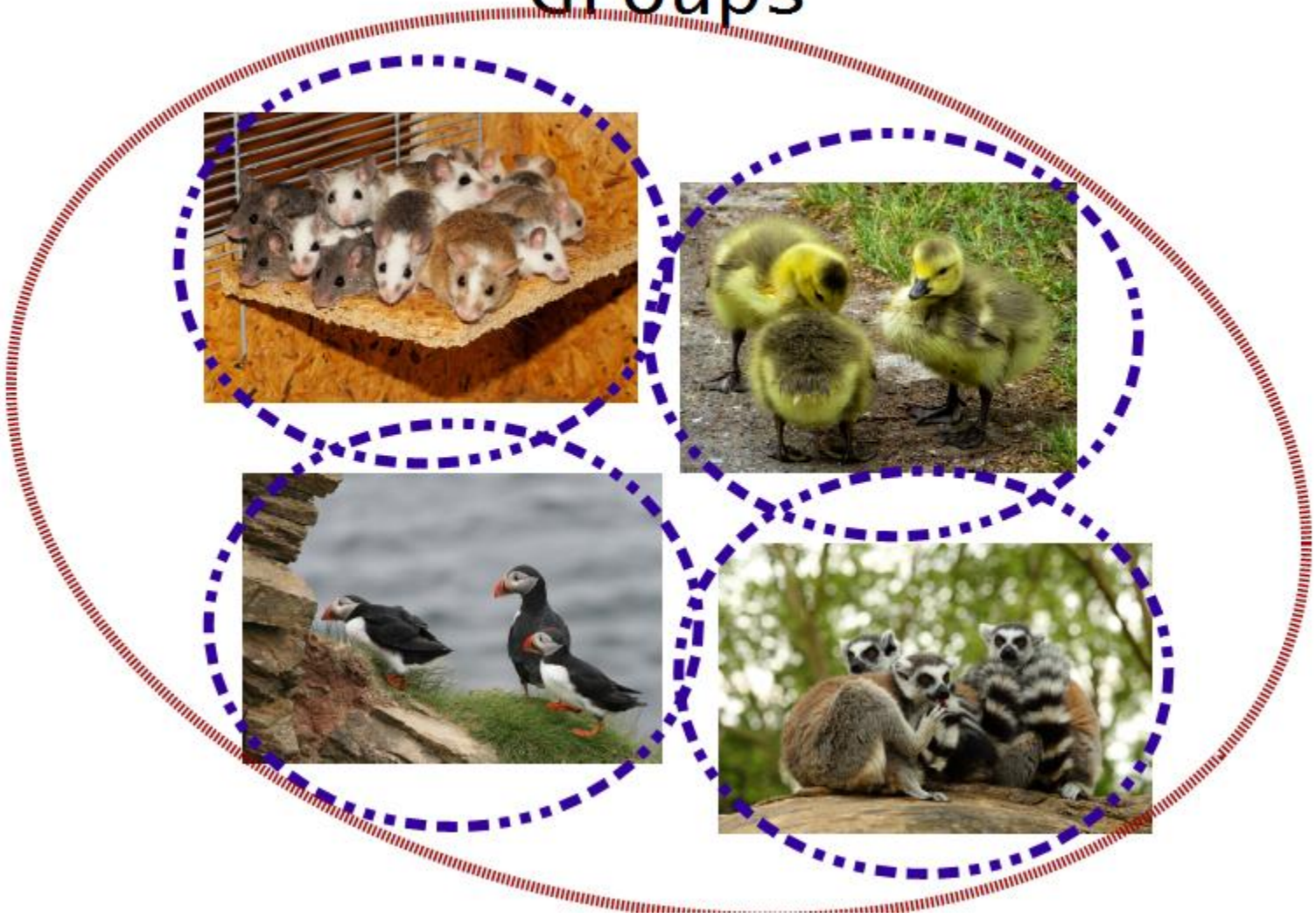

Fat cells

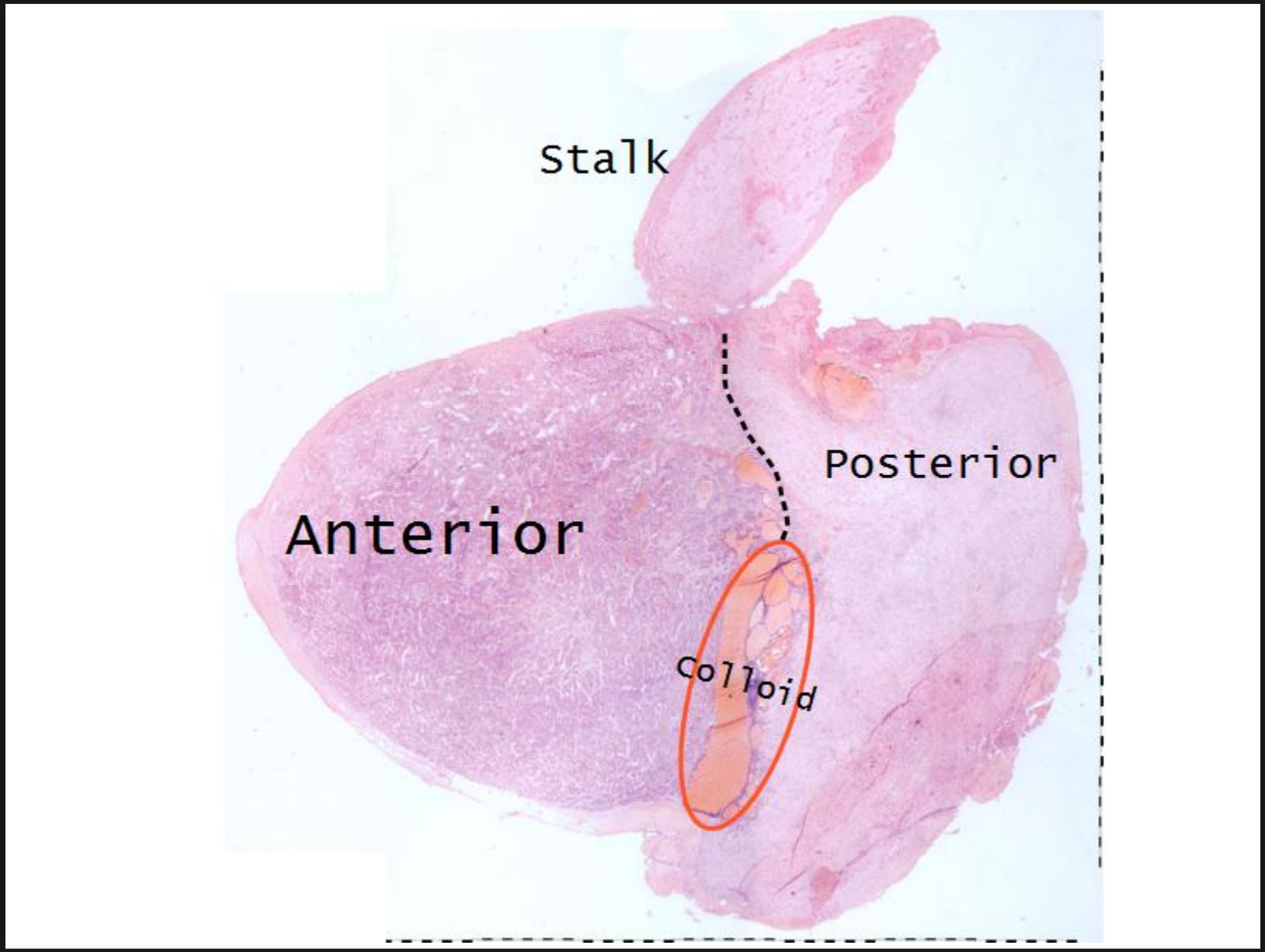

Island

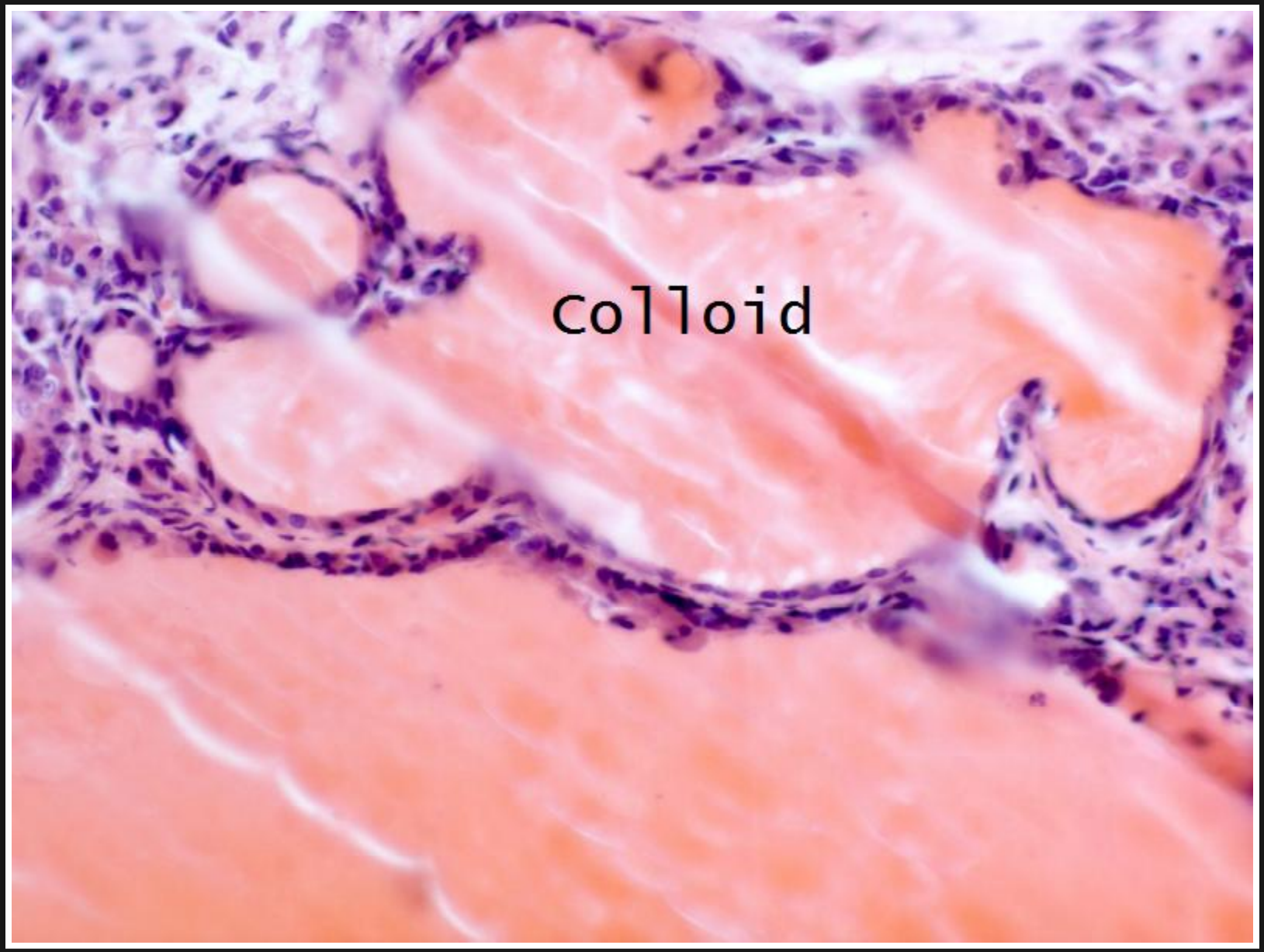
Slide 52 - Pituitary gland

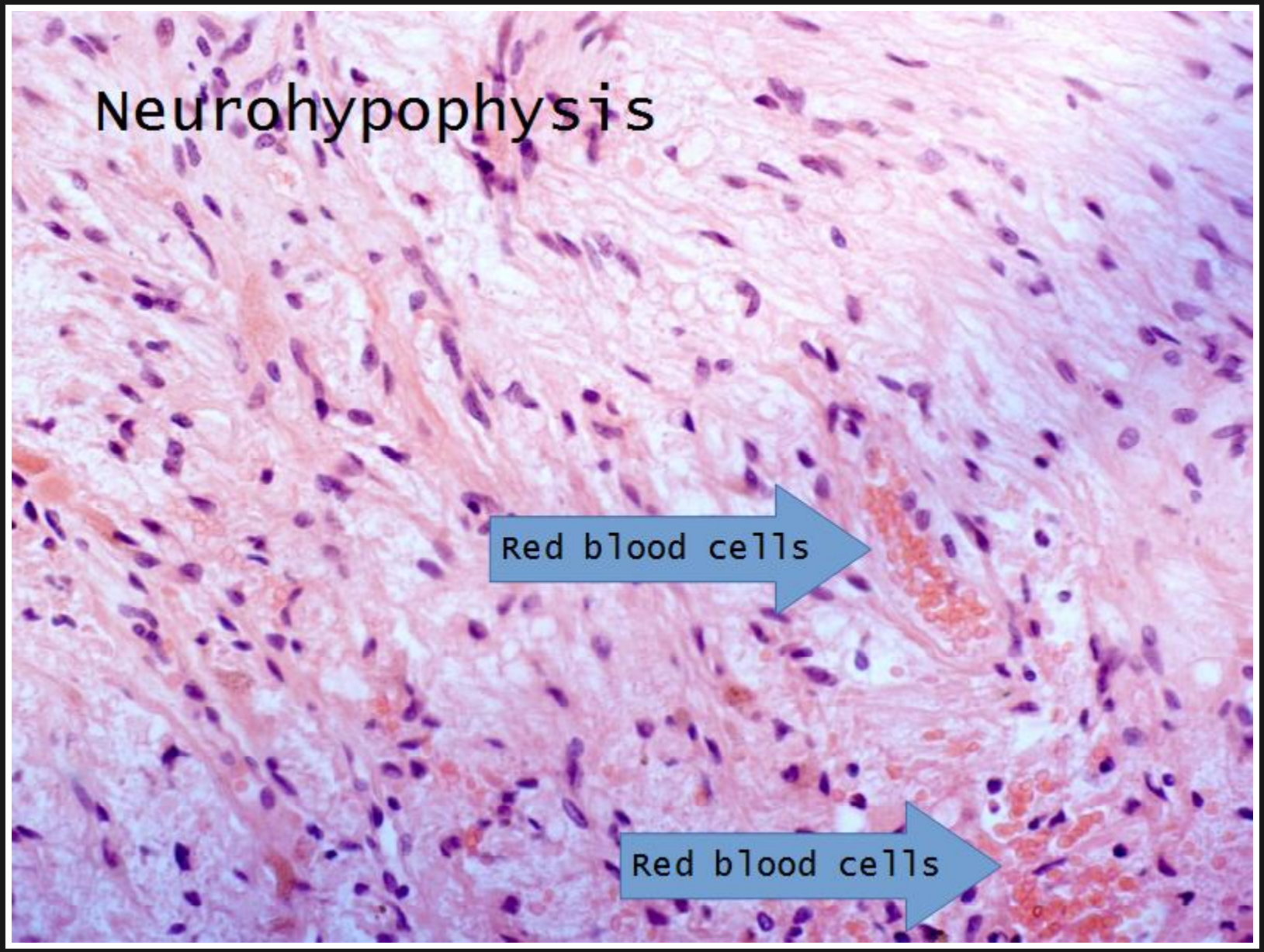
Groups

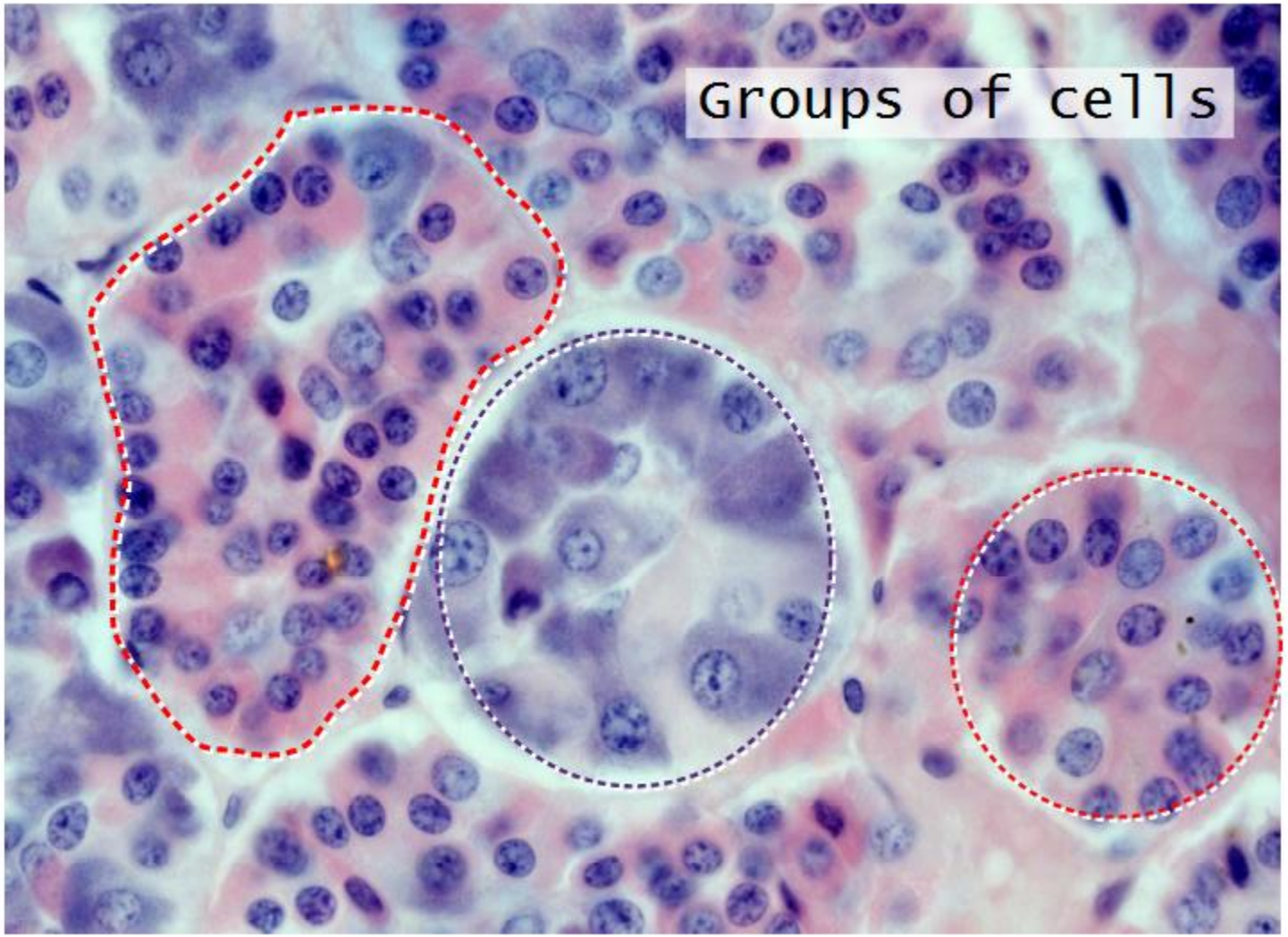
Groups

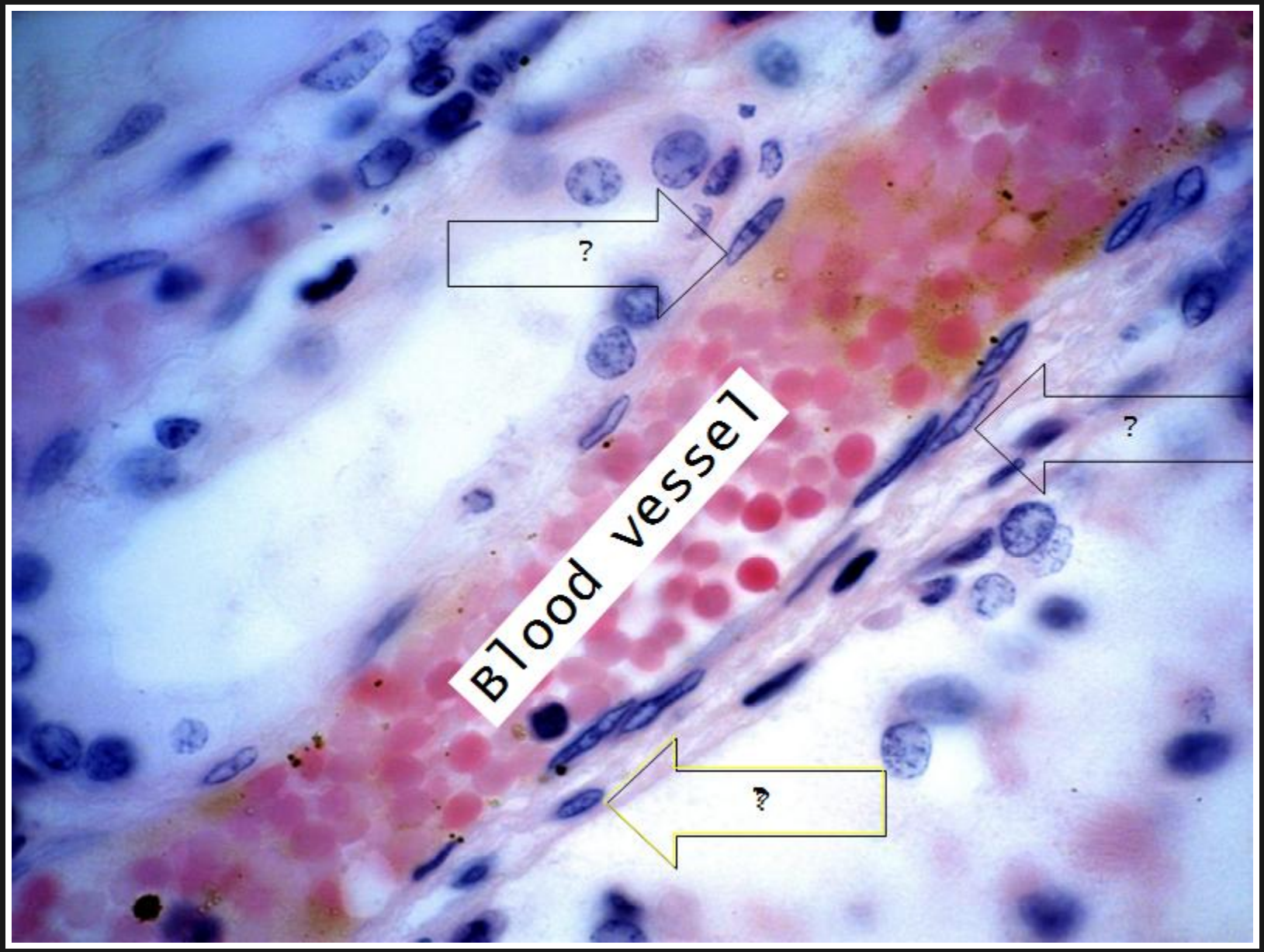



Stalk
Posterior
Anterior
Colloid

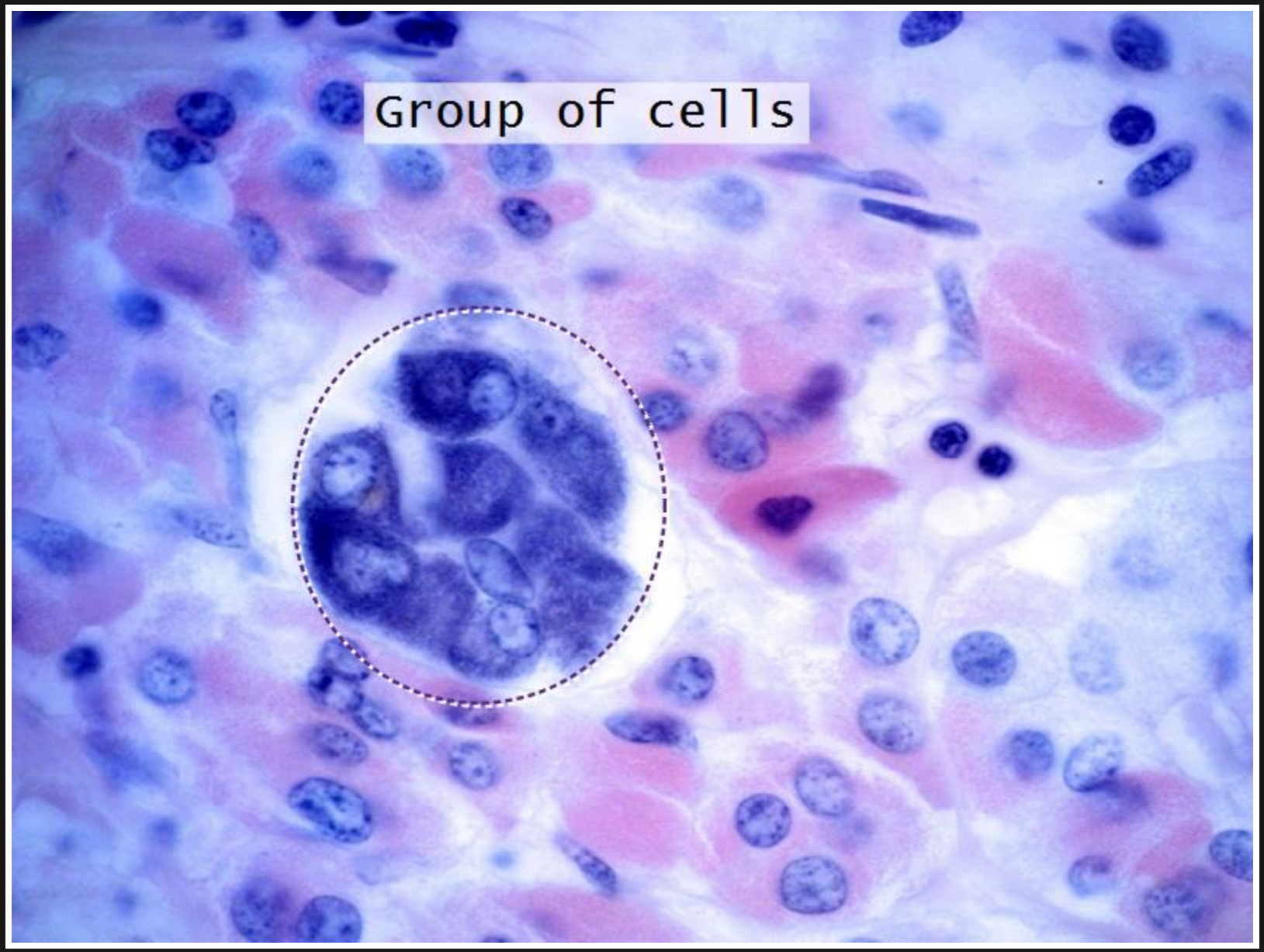

Colloid


Neurohypophysis
Red blood cells
Red blood cells


Groups of cells


?
Blood vessel
?
?

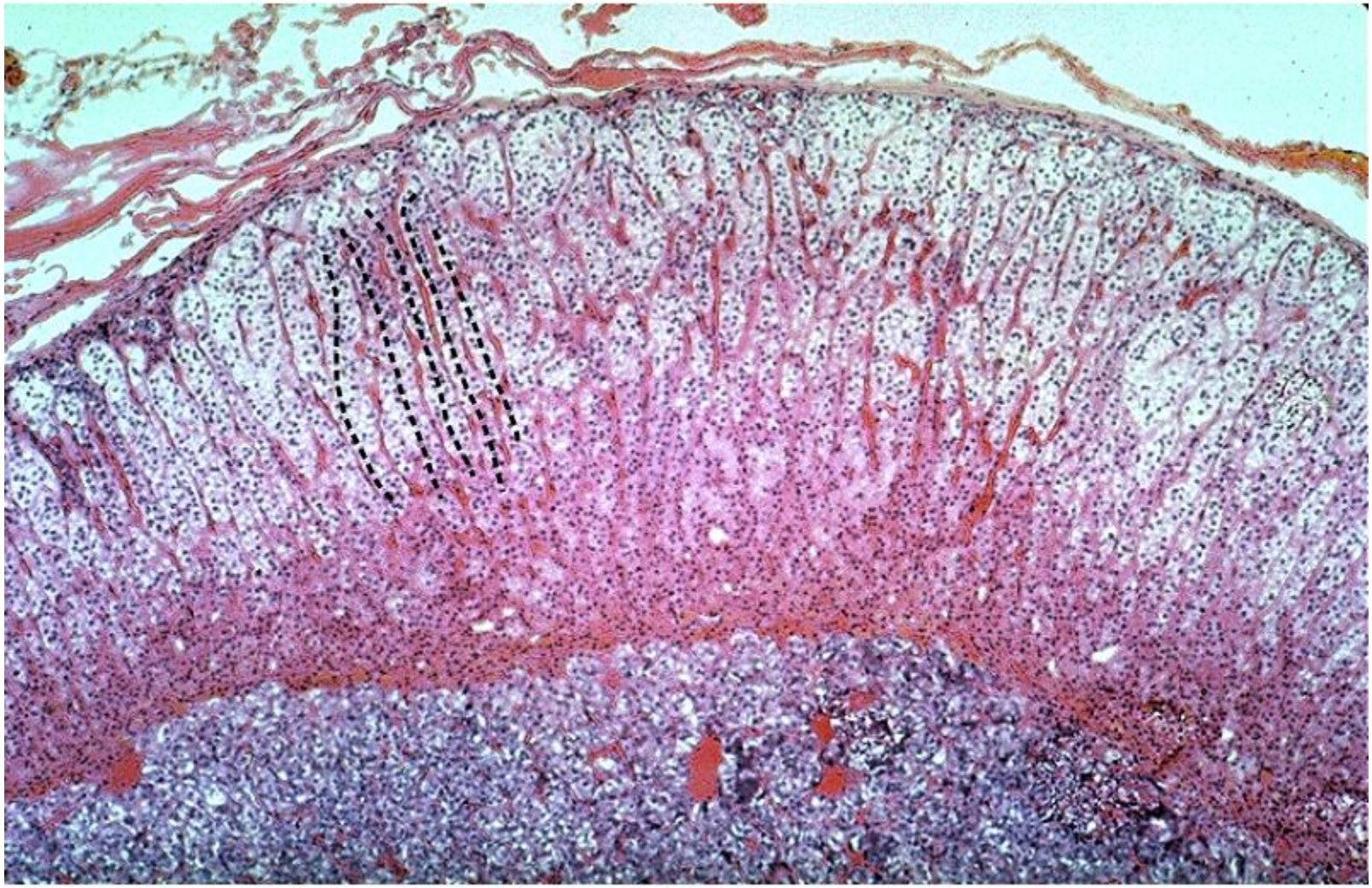

Blood vessel

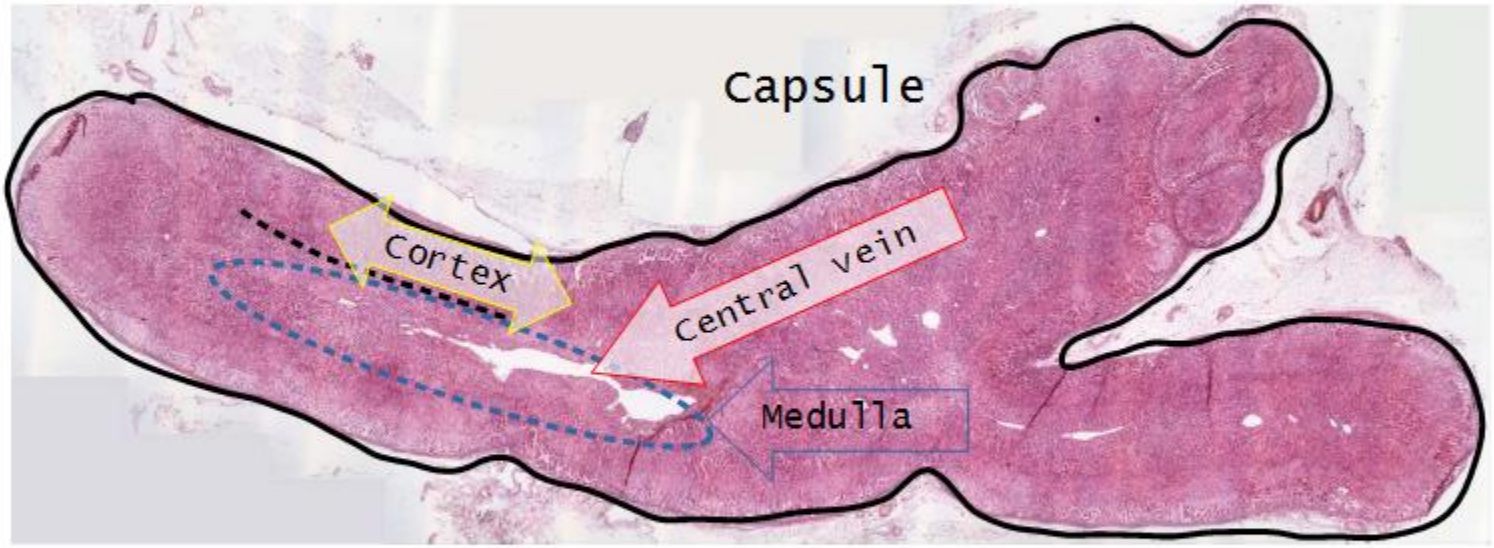

Group of cells

Slide 56 - Adrenal glands

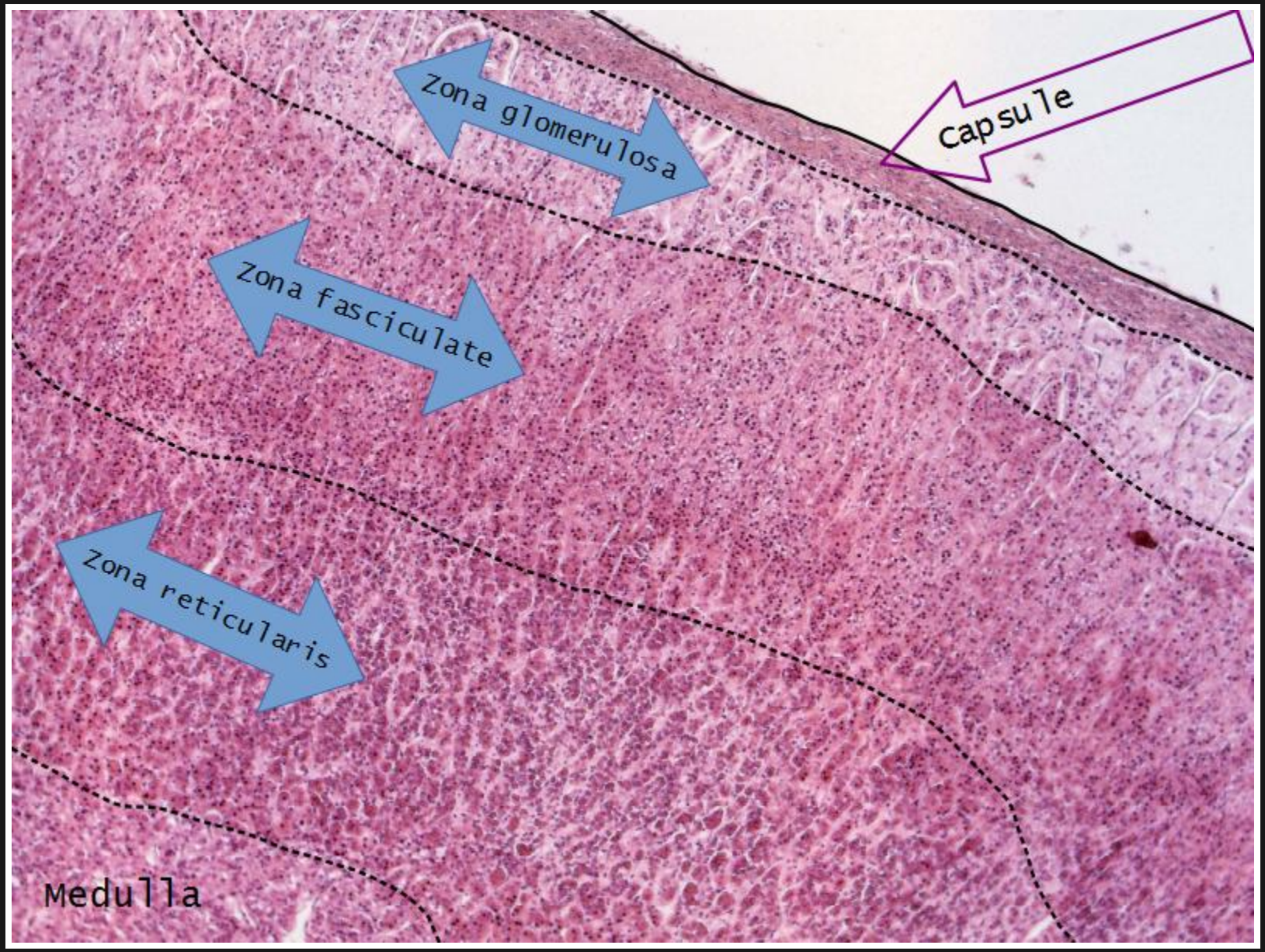
Cords

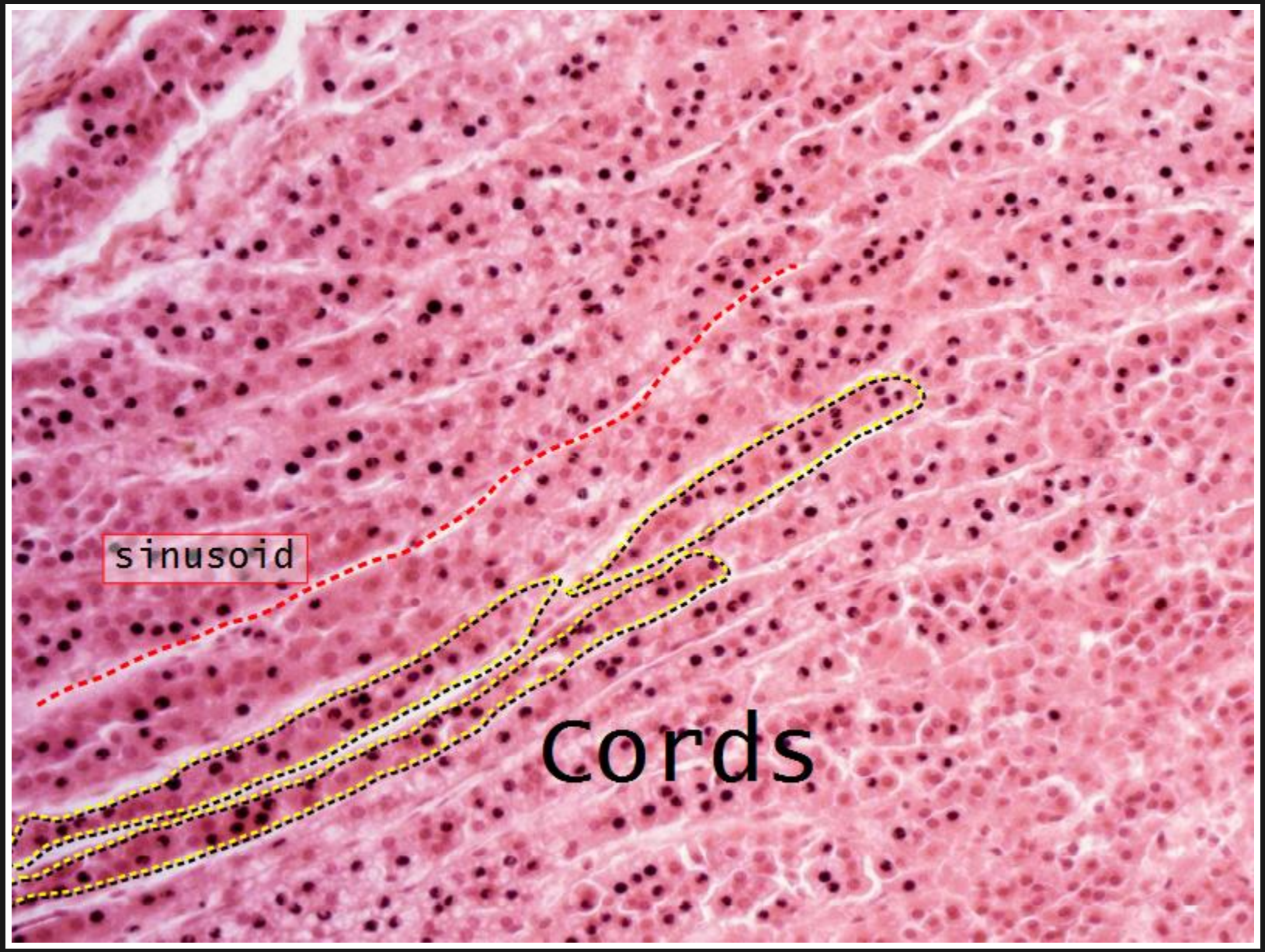
Cords

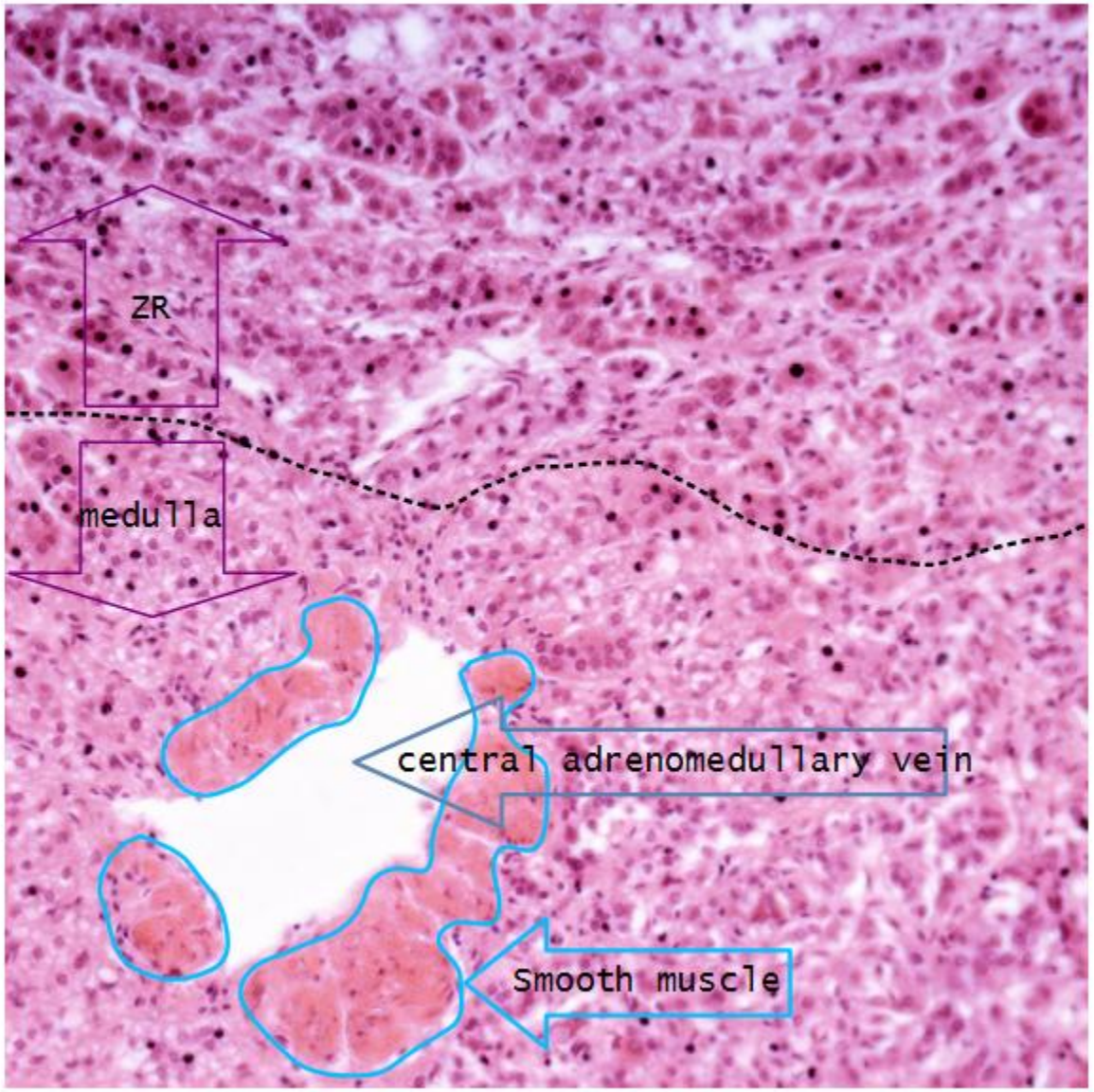


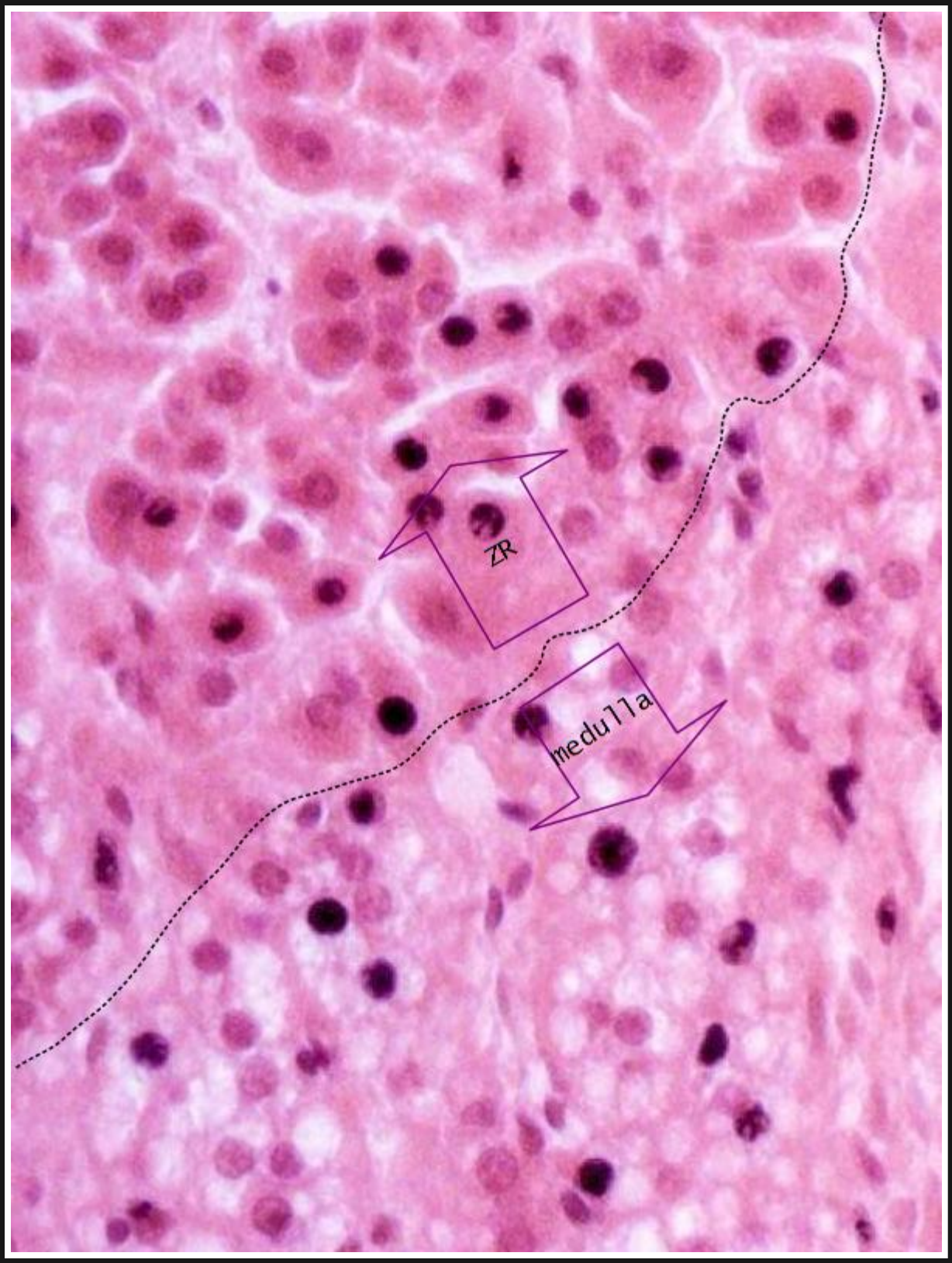

Capsule
Cortex
Central vein
Medulla


Connective tissue capsule
Cortex


Capsule
Zona glomerulosa
Zona fasciculate
Zona reticularis
Medulla

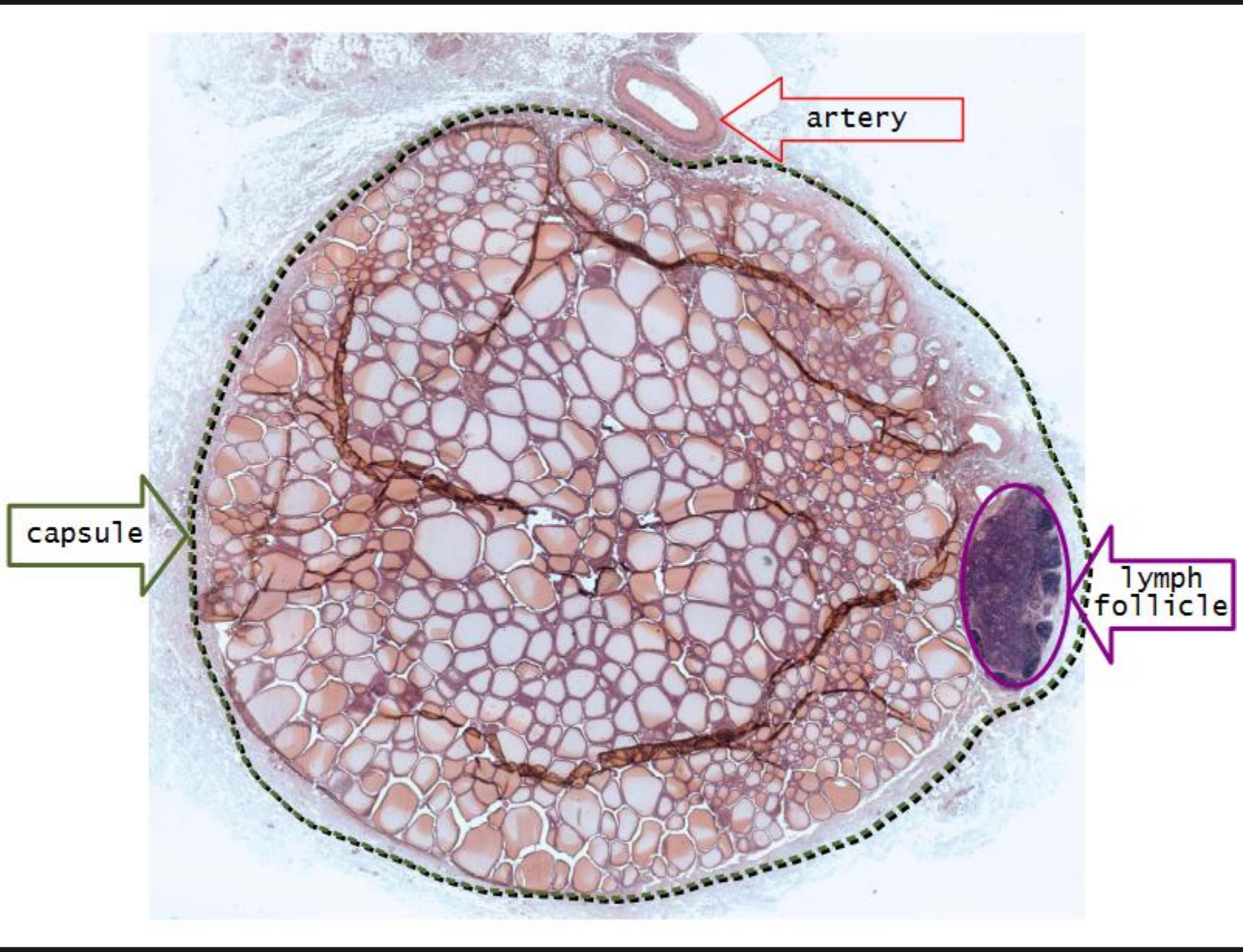

sinusoid
Cords

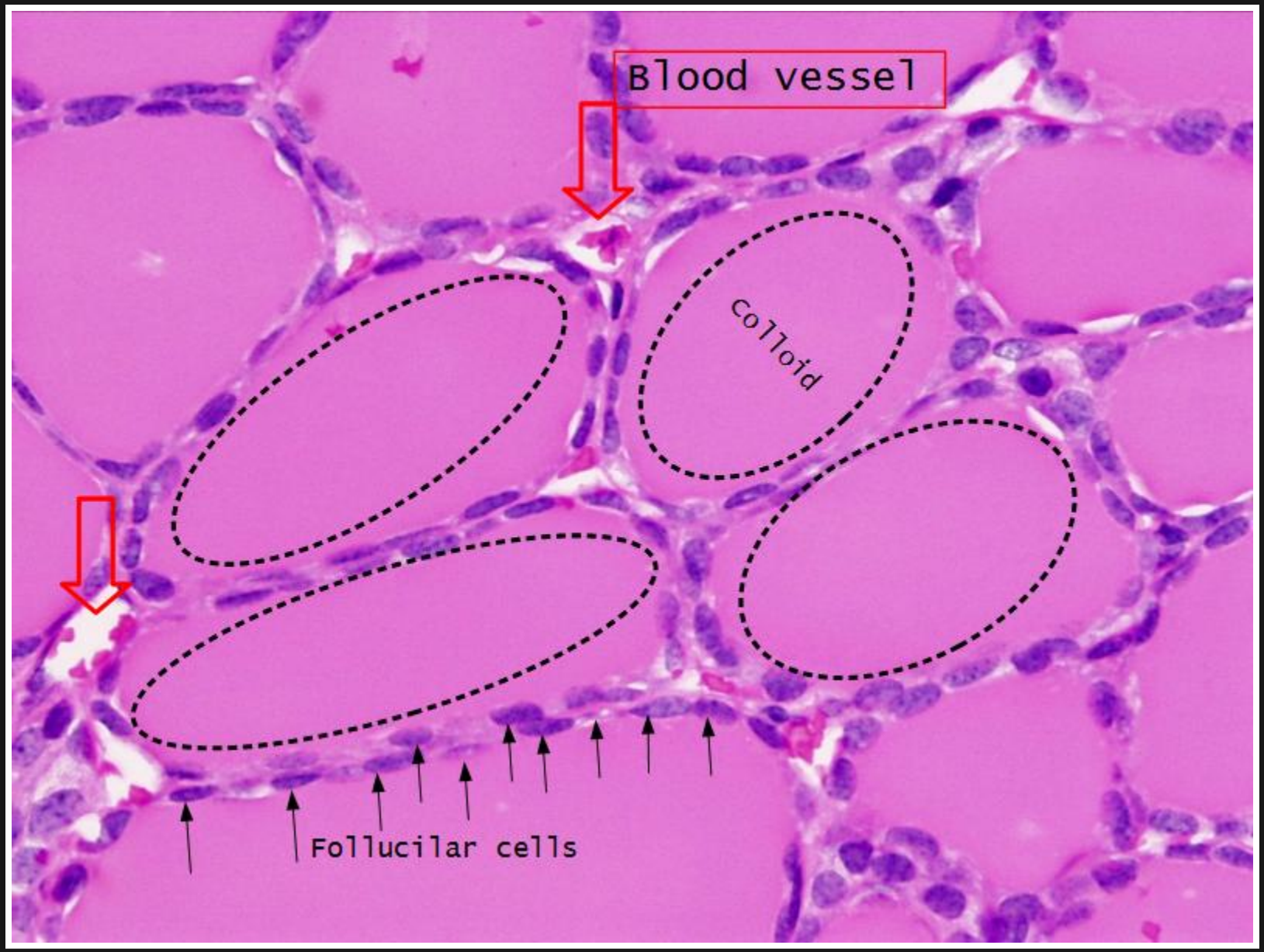

ZR
medulla
central adrenomedullary vein
Smooth muscle

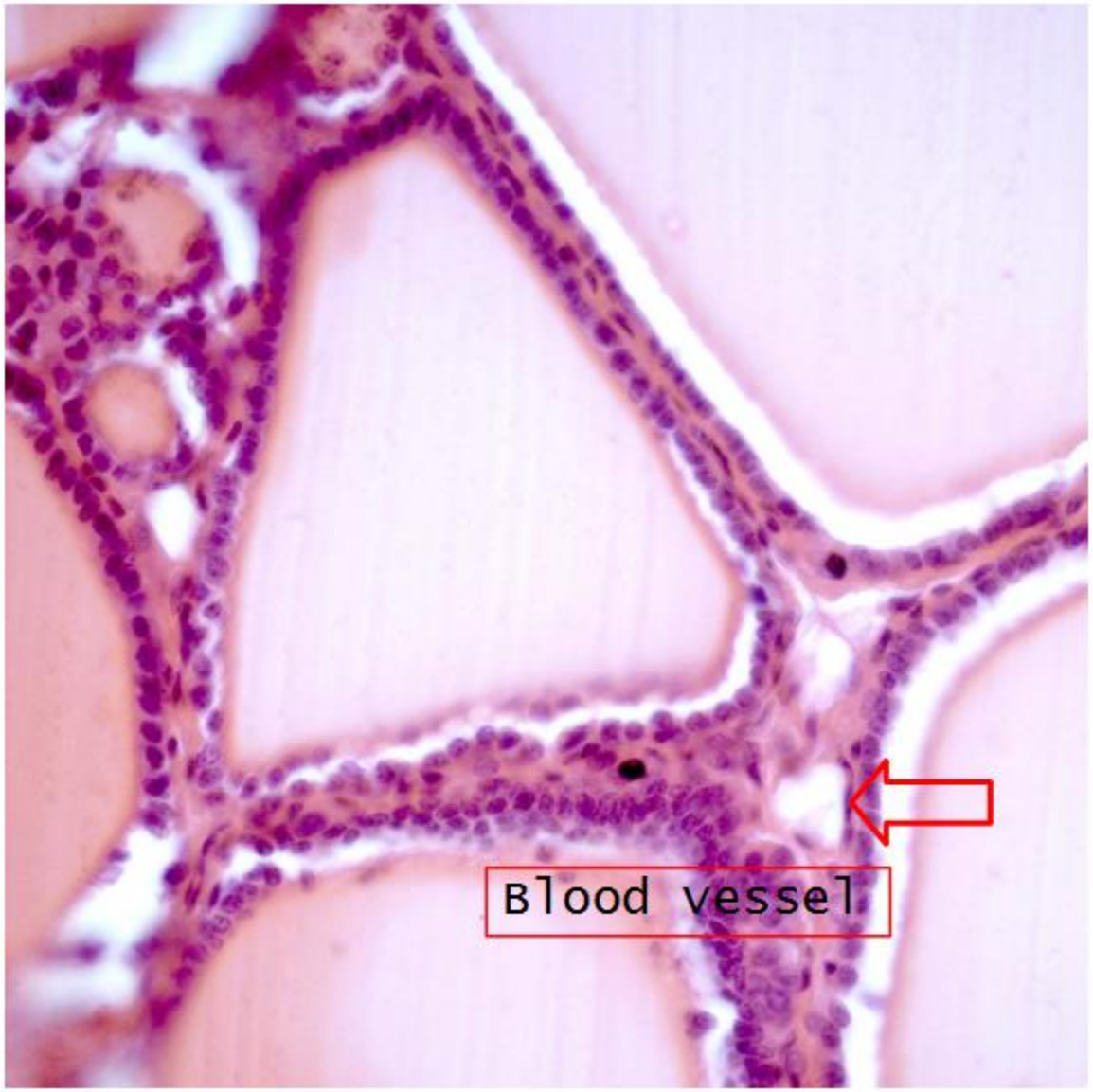

ZR
medulla

Slide 55 - Thyroid gland

Follicles


artery
capsule
lymph follicle


Blood vessel
Colloid
Follucilar cells


Blood vessel

Glandular Epithelium

- Slides
- Exocrine
- 42
- 50
- 39 or 7
- Endocrine
- 50, 52
- 56 & 55

The End

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