HISTOLOGY PRACTICAL LECTURE - 16 -

URINARY SYSTEM

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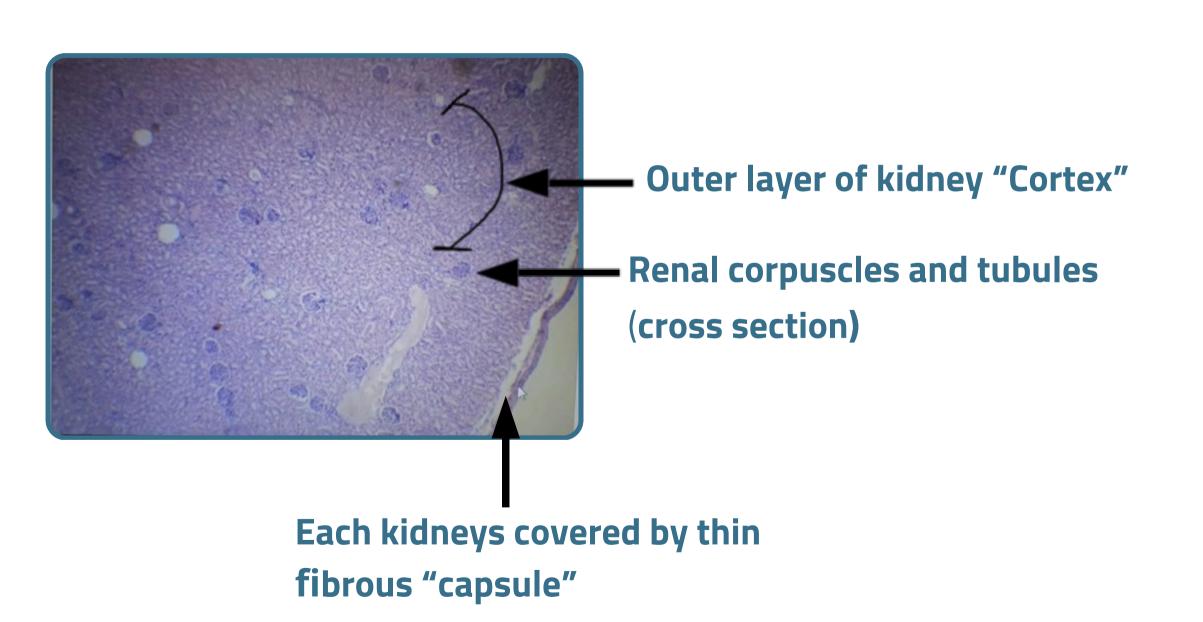


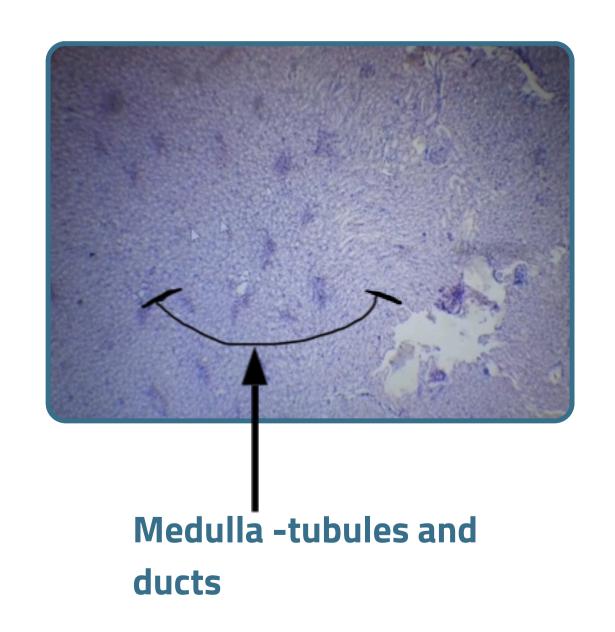
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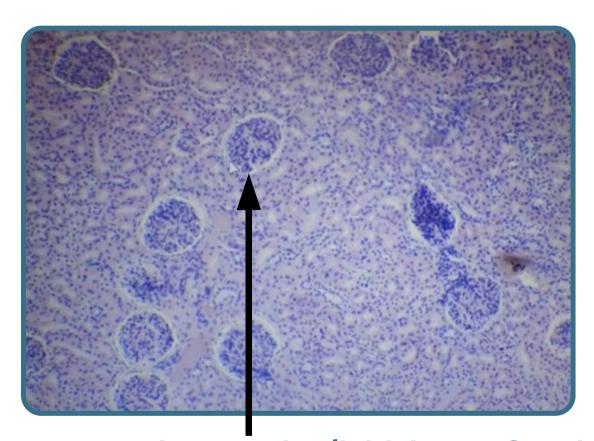




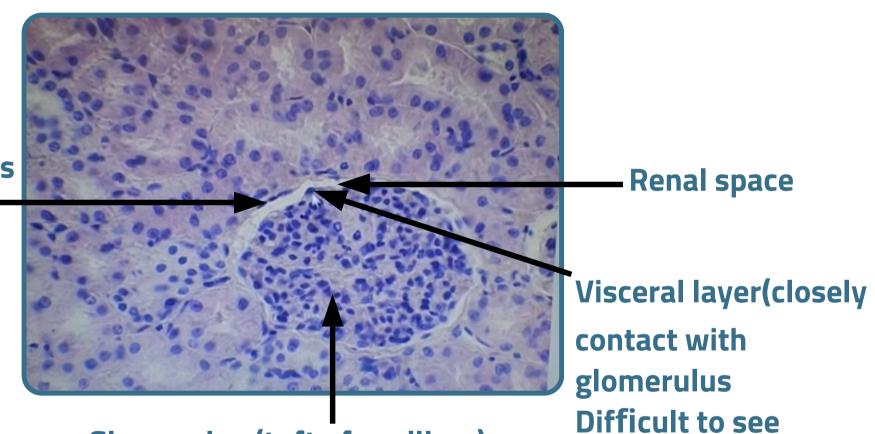








Partial layer of the bowman's capsule(simple squamous epithelium)



Glomerulus (tuft of capillary)s

surround by the double wall capsule called bowman's capsule

Renal corpuscles (initial part of nephron)

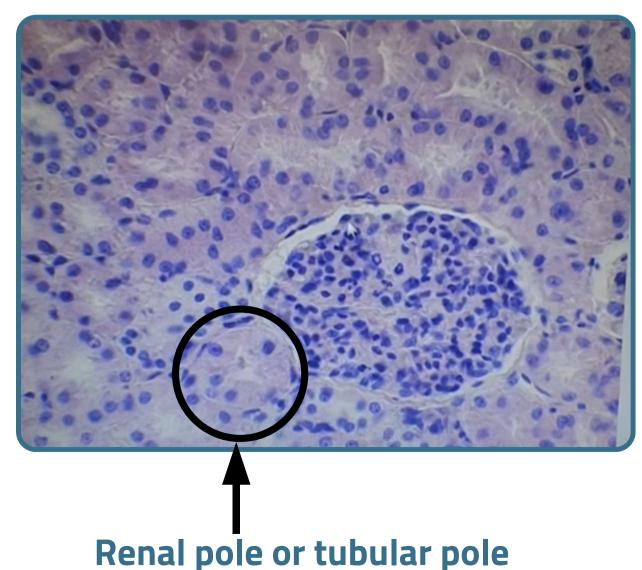
consist of capillaries called glomerulus surround by bowman's capsule



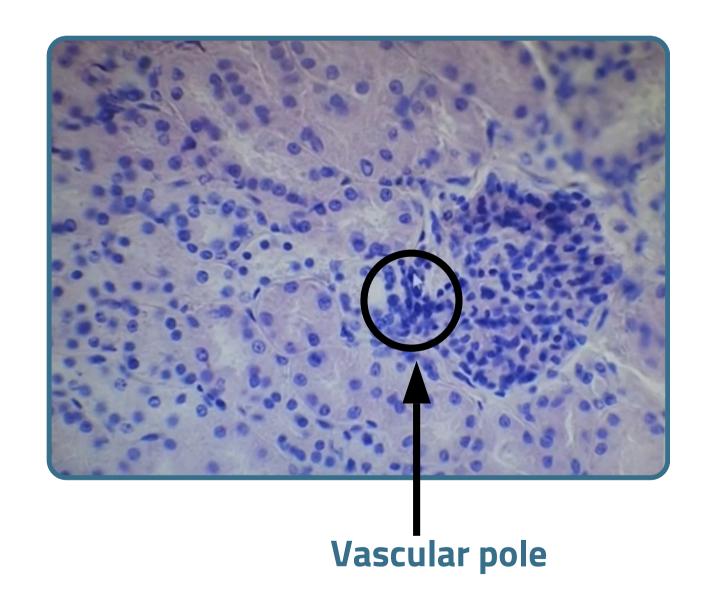


Section In The Kidney

Each corpuscles have:-



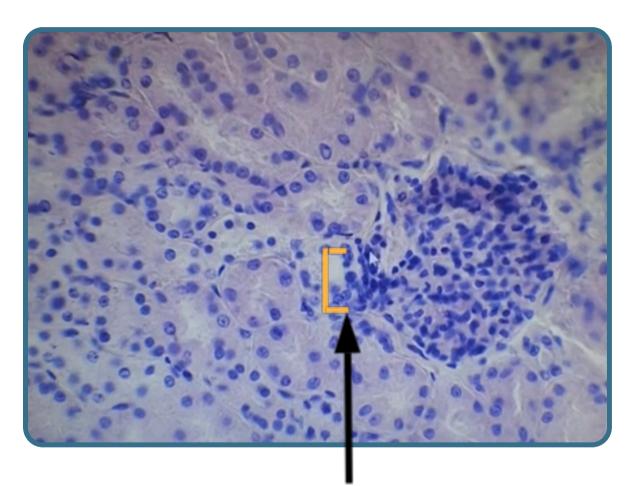
Renal pole or tubular pole



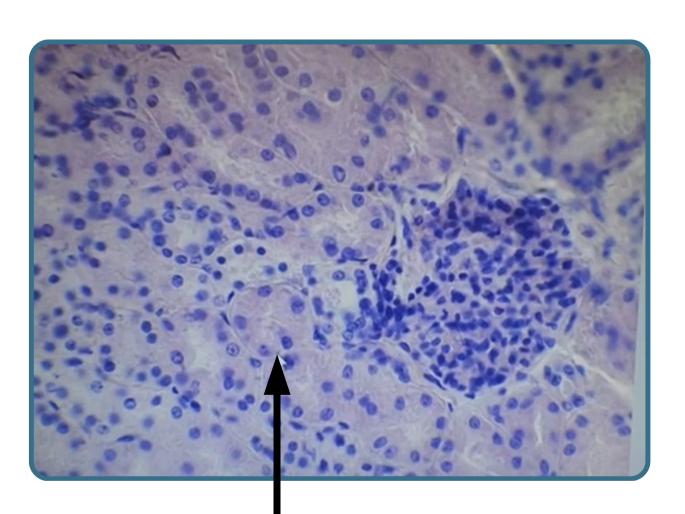




Section In The Kidney



The cells of distal convoluted tubule become columnar and densely backed together forming macula densa together with the cells of afferent arterioles forming a juxtaglomerular apparatus



Proximal convoluted tubule

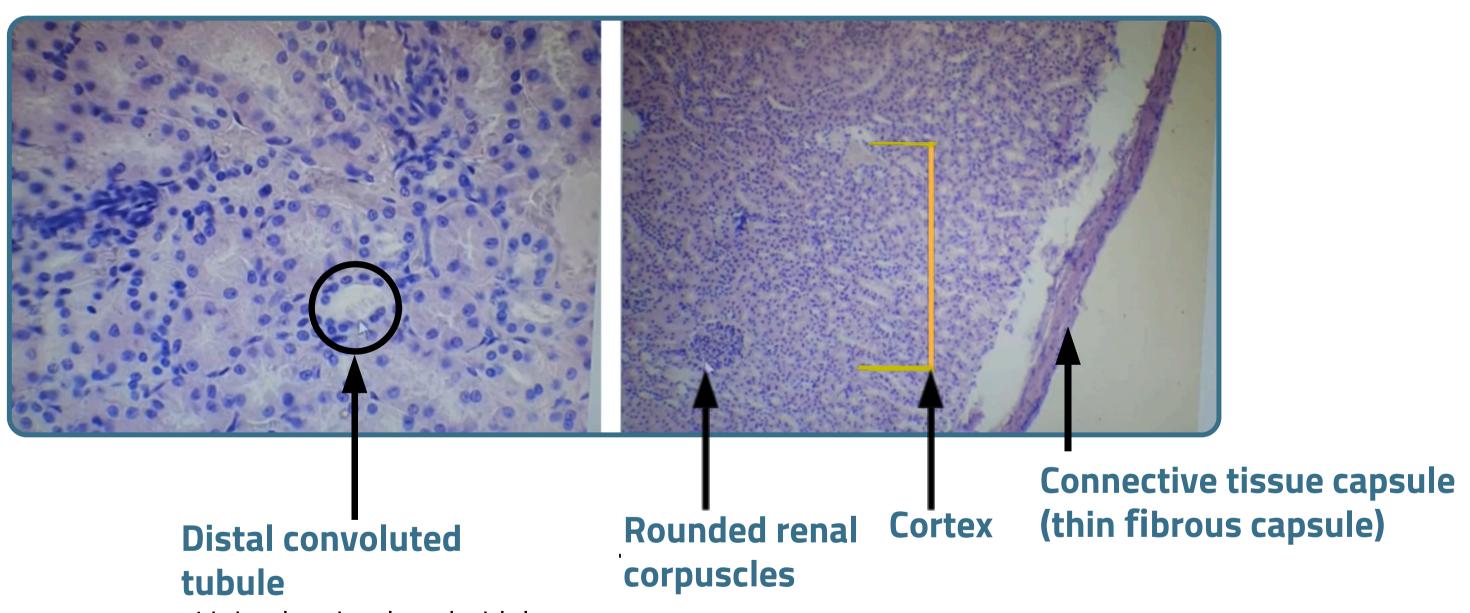
- -Lining by simple cuboidal epithelium
- -In cross section has three to five cells each cell has apical microvilli forming brush border

-Has narrow lumen





Section In The Kidney



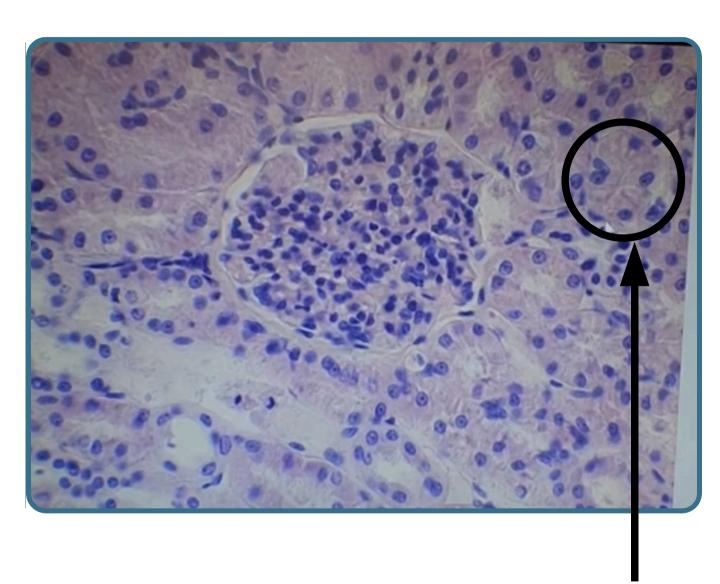
tubule-Lining by simple cuboidal epithelium

- -wider lumen
- -having No brush border
- -more number of cells

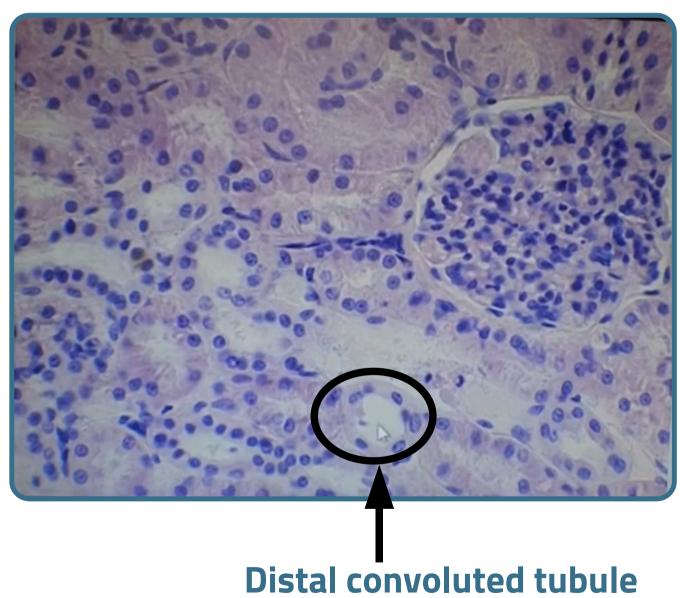




Section In The Kidney



Proximal convoluted tubule

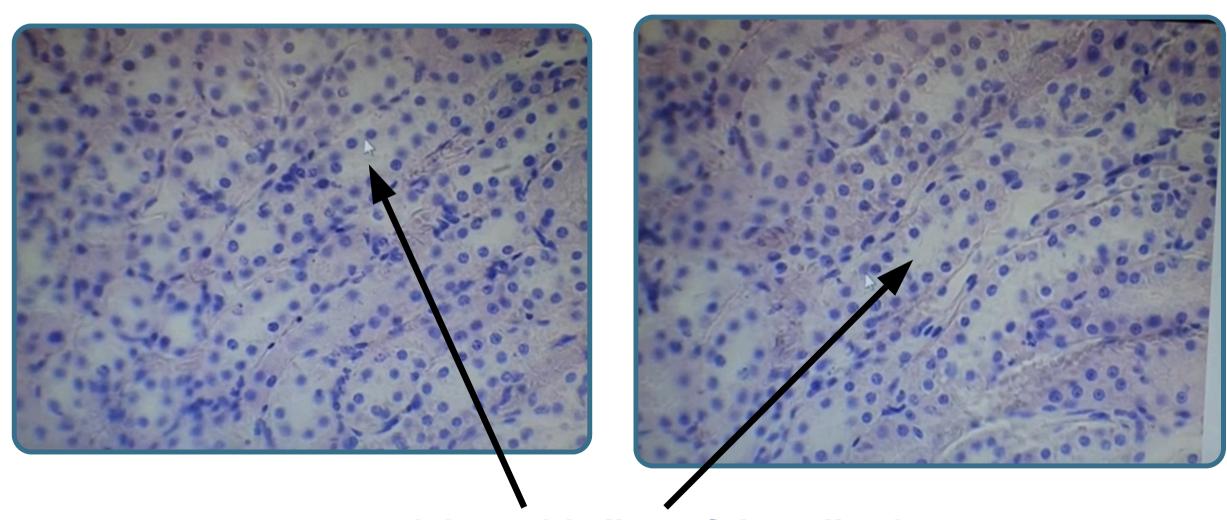






Section In The Kidney

Medulla

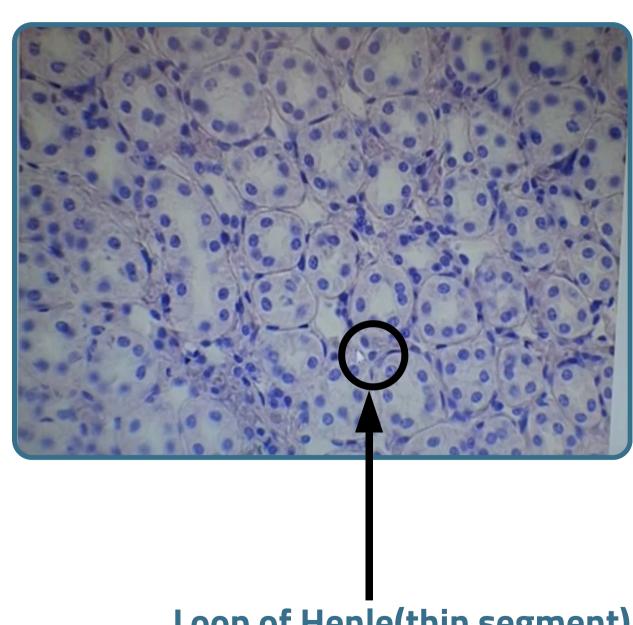


Lining epithelium of the collecting duct Simple cuboidal epithelium



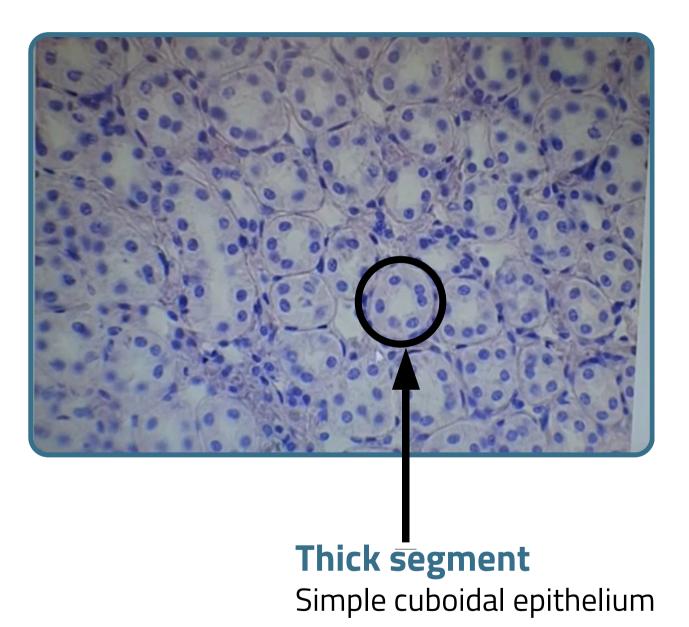






Loop of Henle(thin segment)

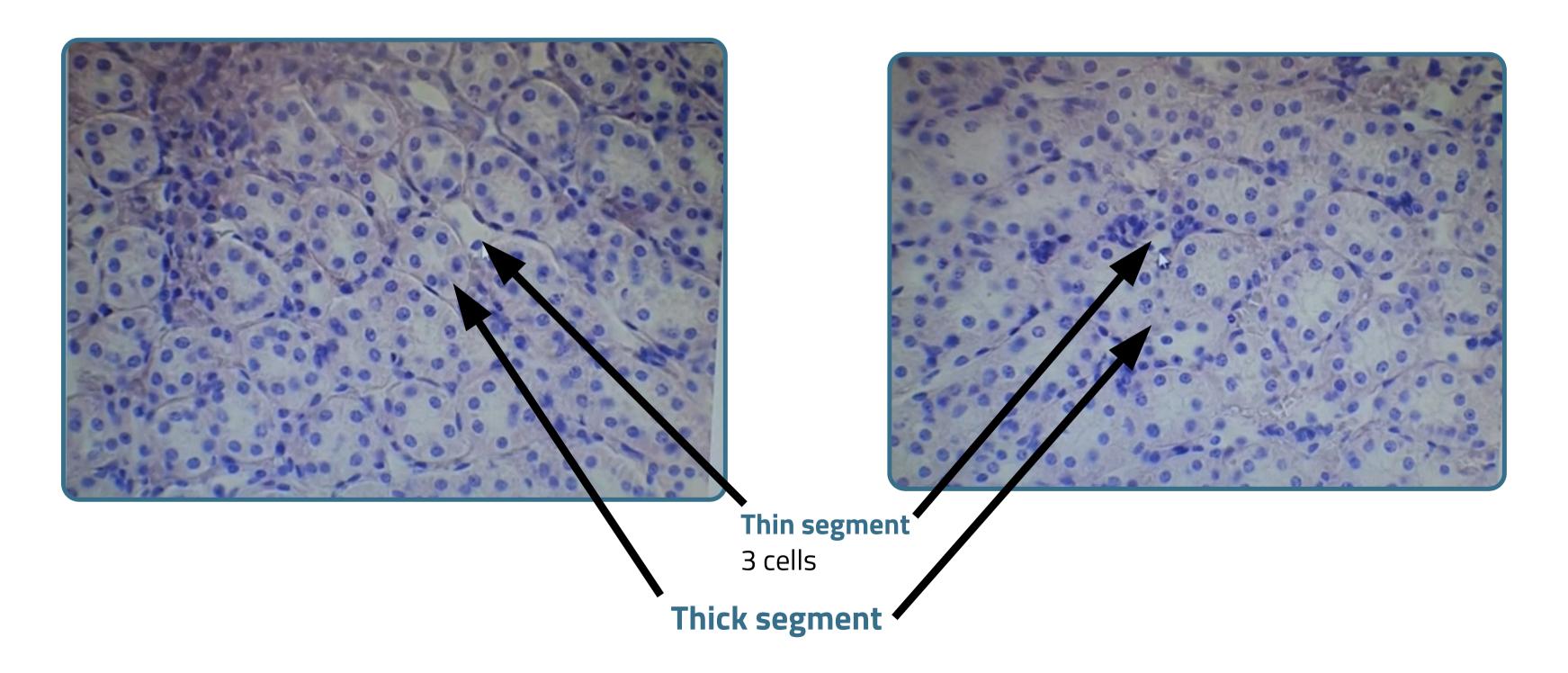
Lining by simple squamous epithelium





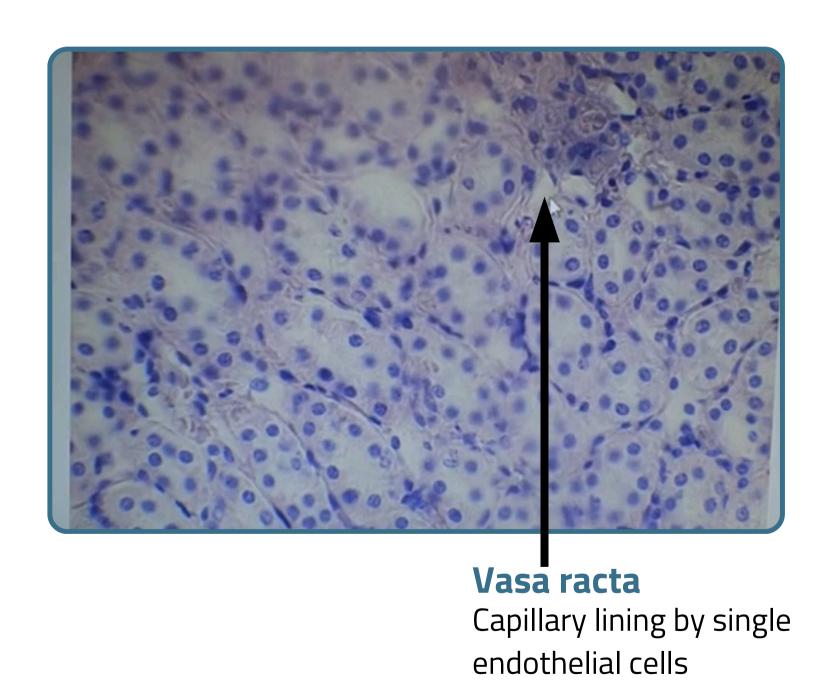


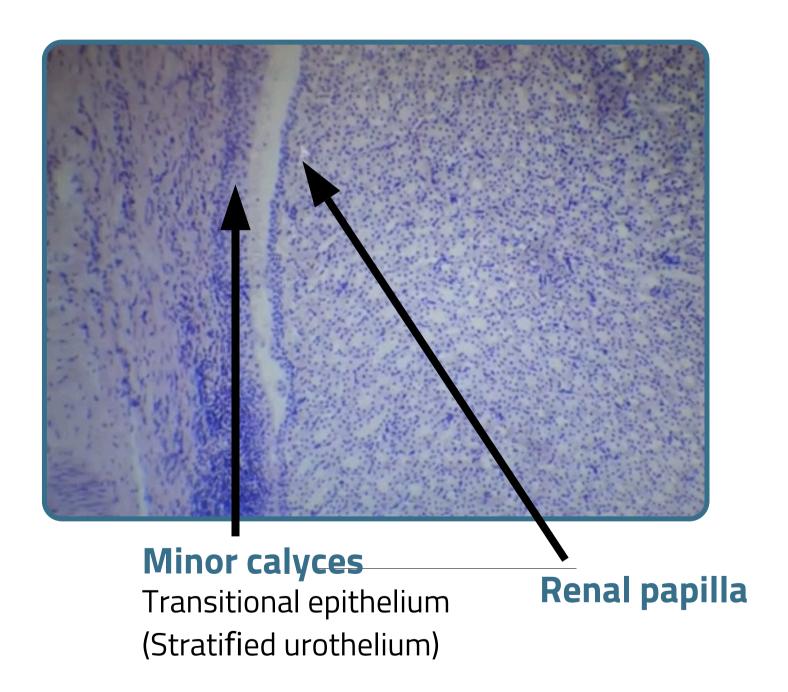
Section In The Kidney









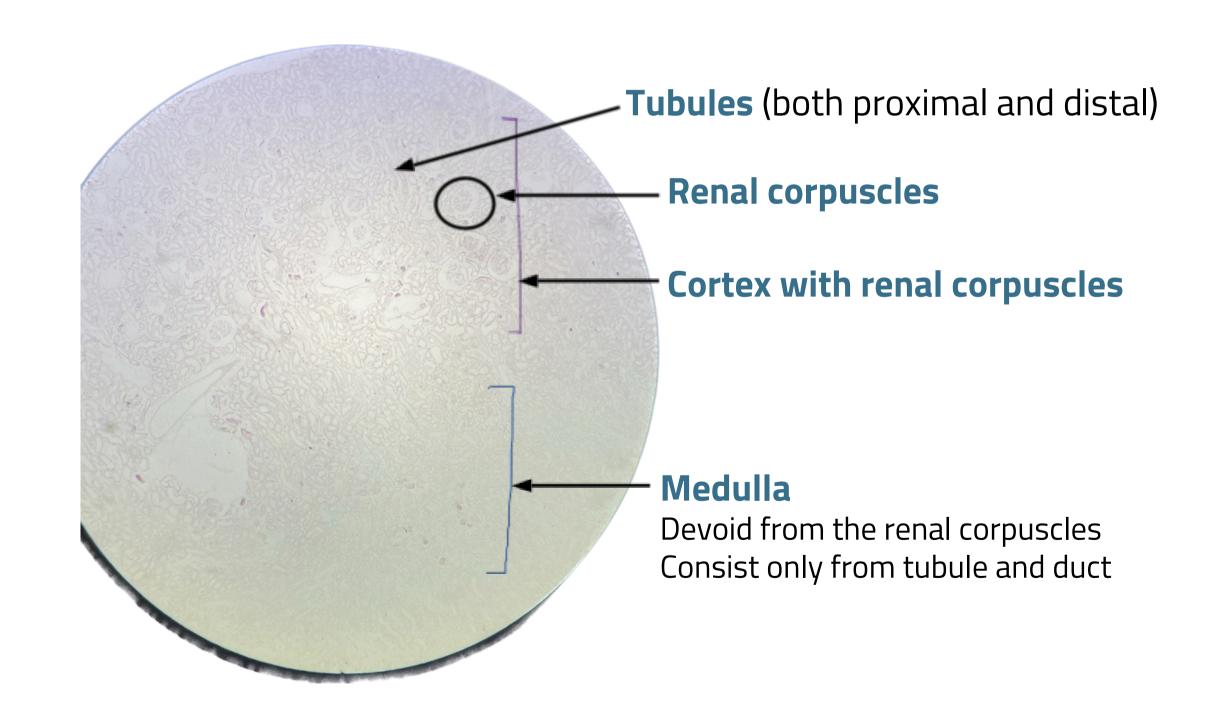


All the previous slides stained by H&E





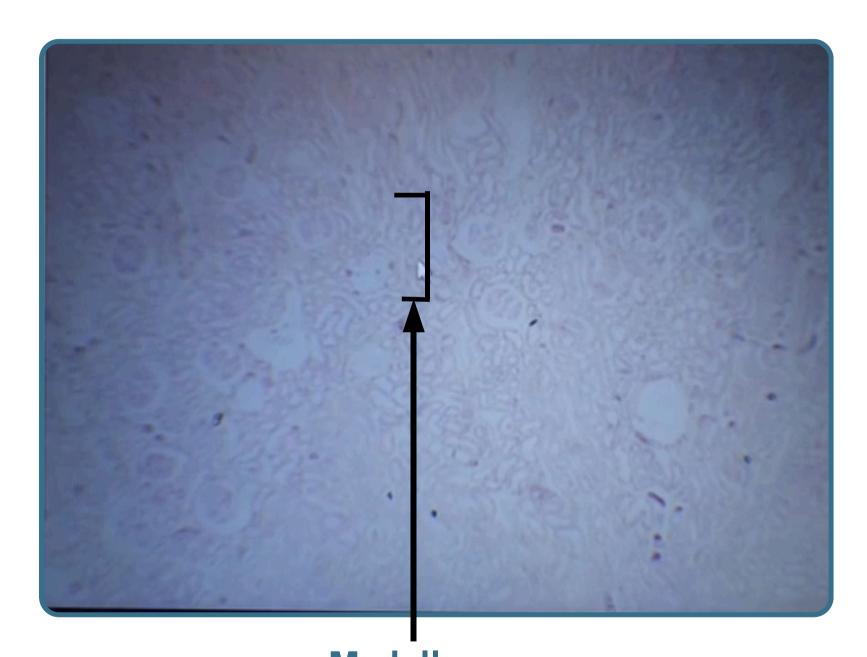
Section In The Kidney with pas stain







Section In The Kidney



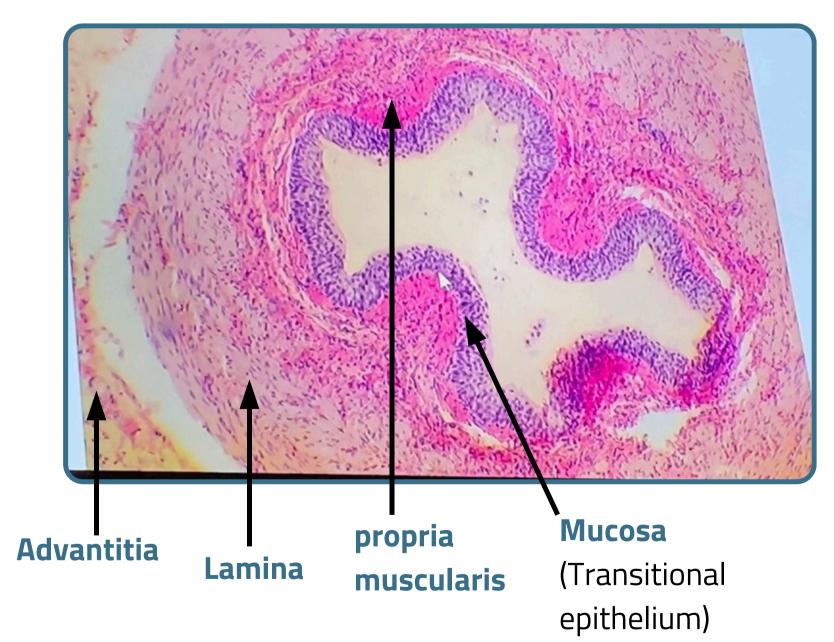
Medullary rays
Tubules extended from the medulla to the cortex



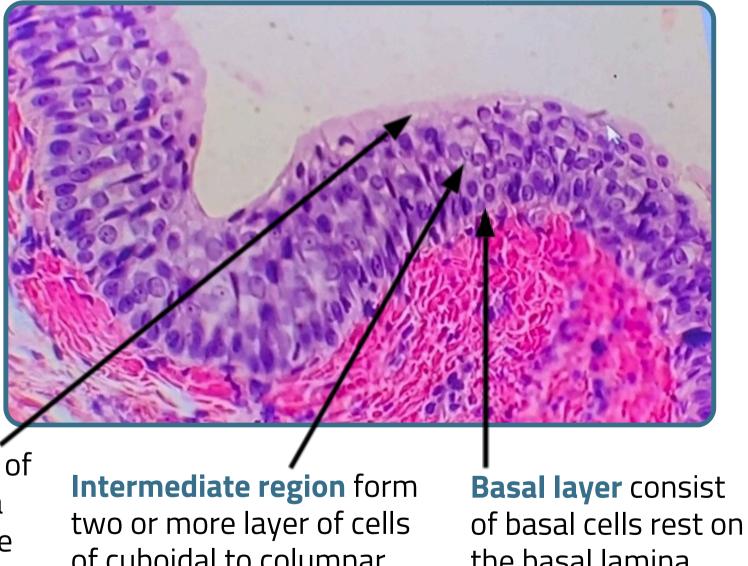




cross section in the ureter



Transitional epithelium



Superficial layer of bulbous umbrella (dome cells) some Time binucleated

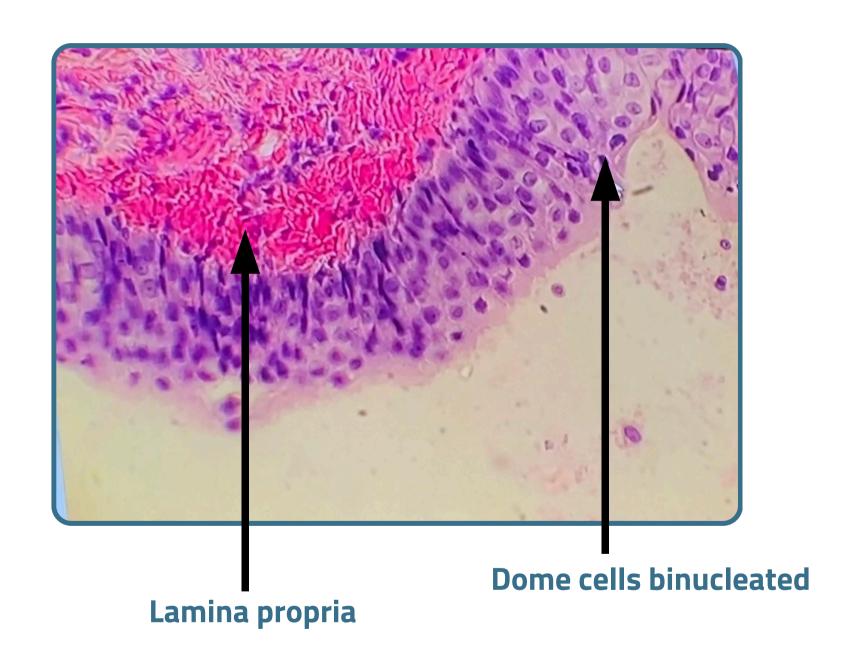
of cuboidal to columnar

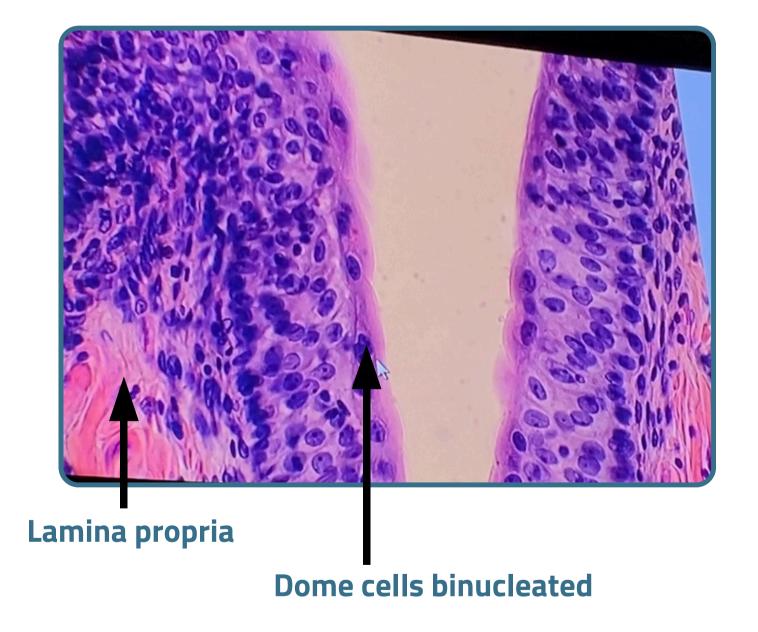
the basal lamina





cross section in the ureter

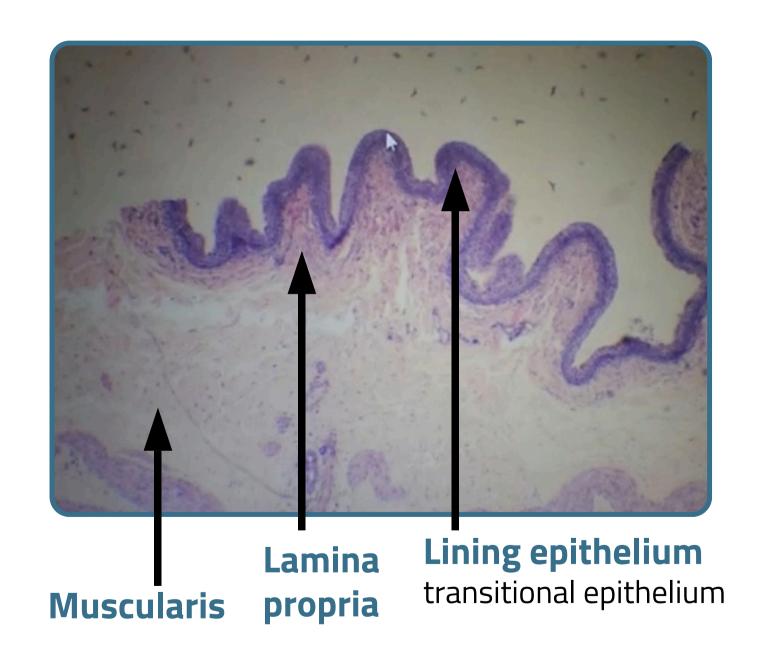


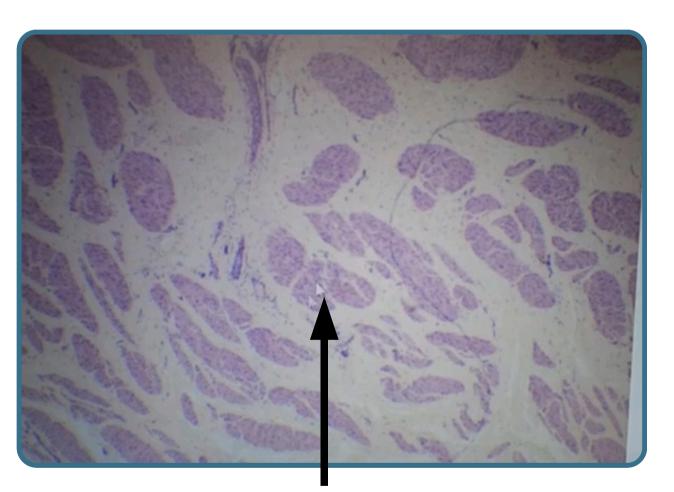






section in the urinary bladder





Muscularis layer Detrusor muscle

(the urinary bladder covered by adventitia except the upper part covered by Serosa)

H&E stained



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