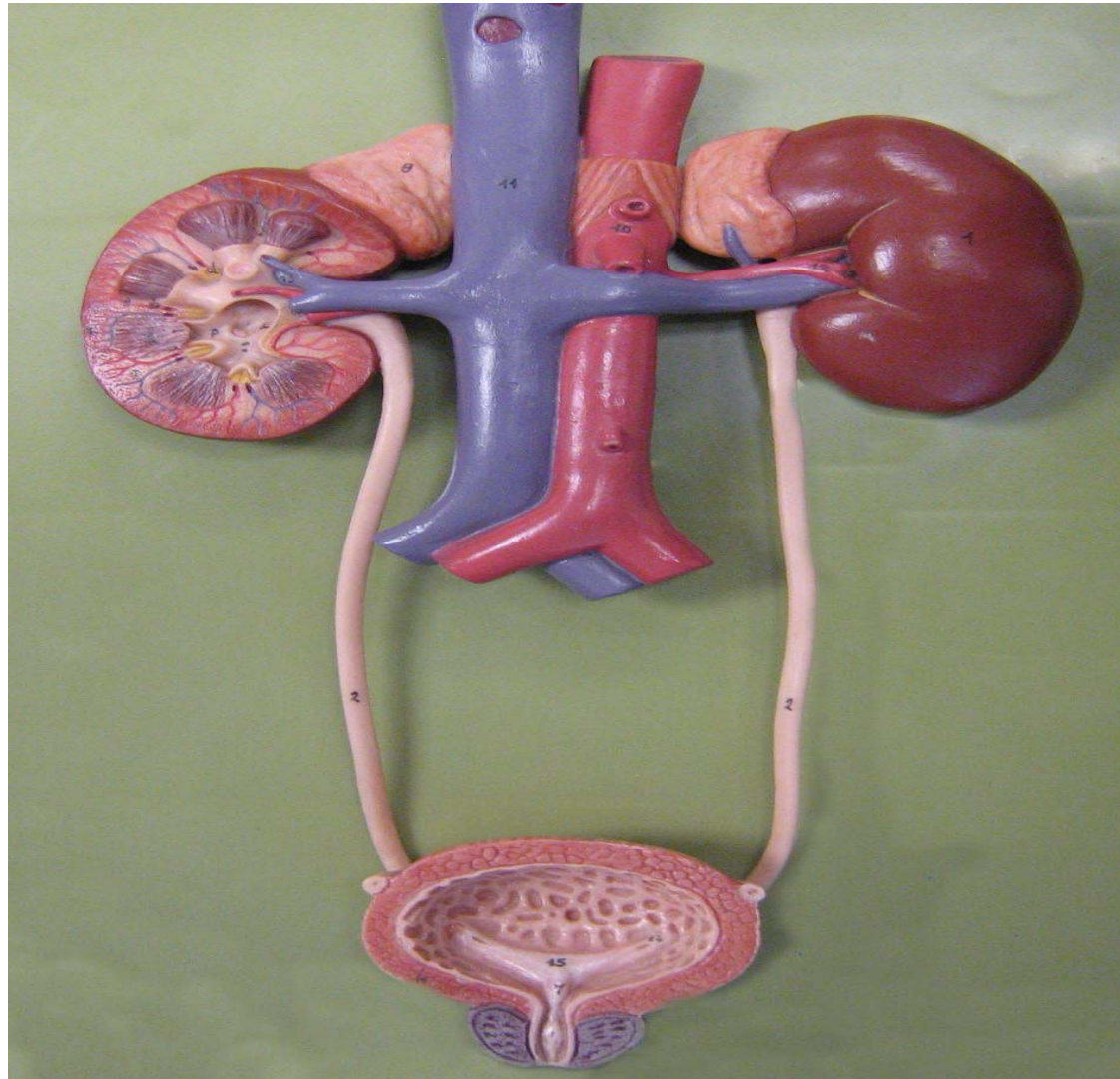
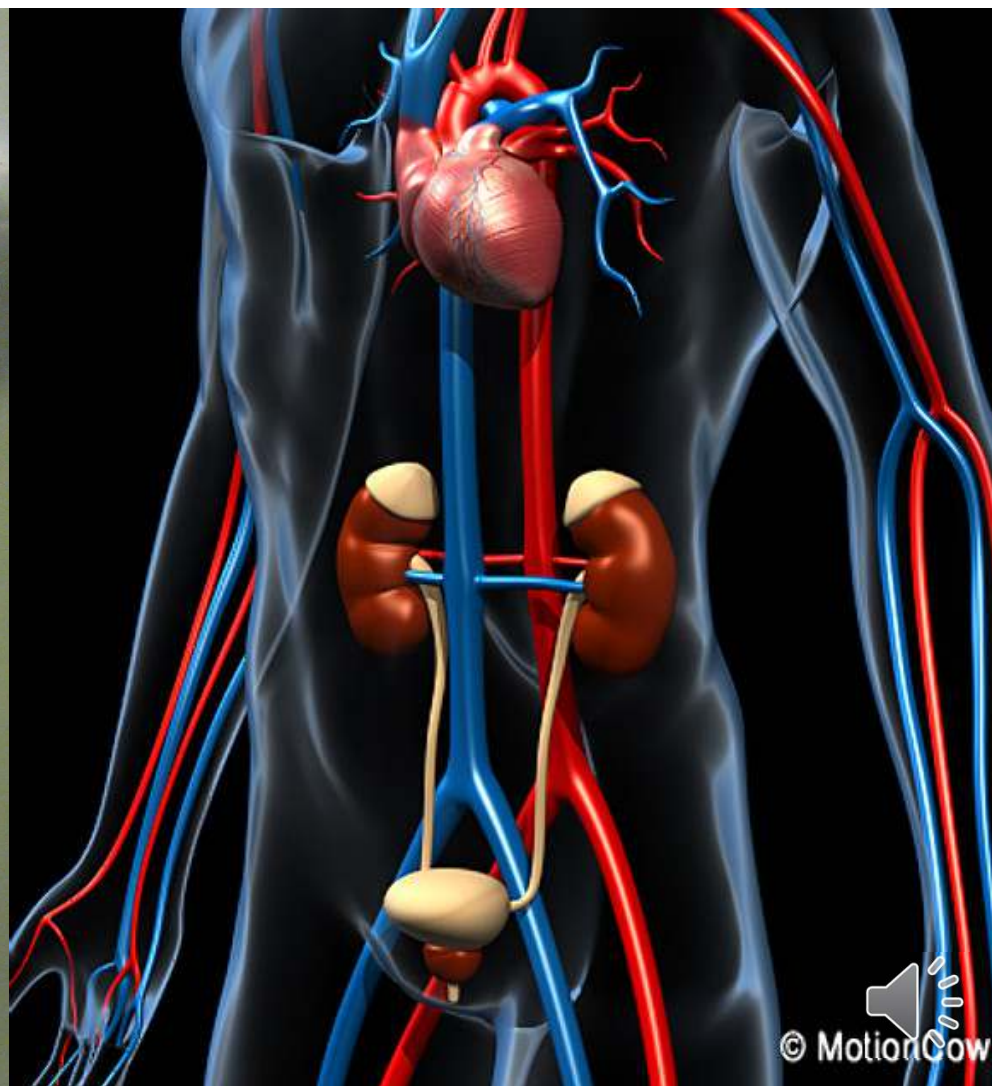
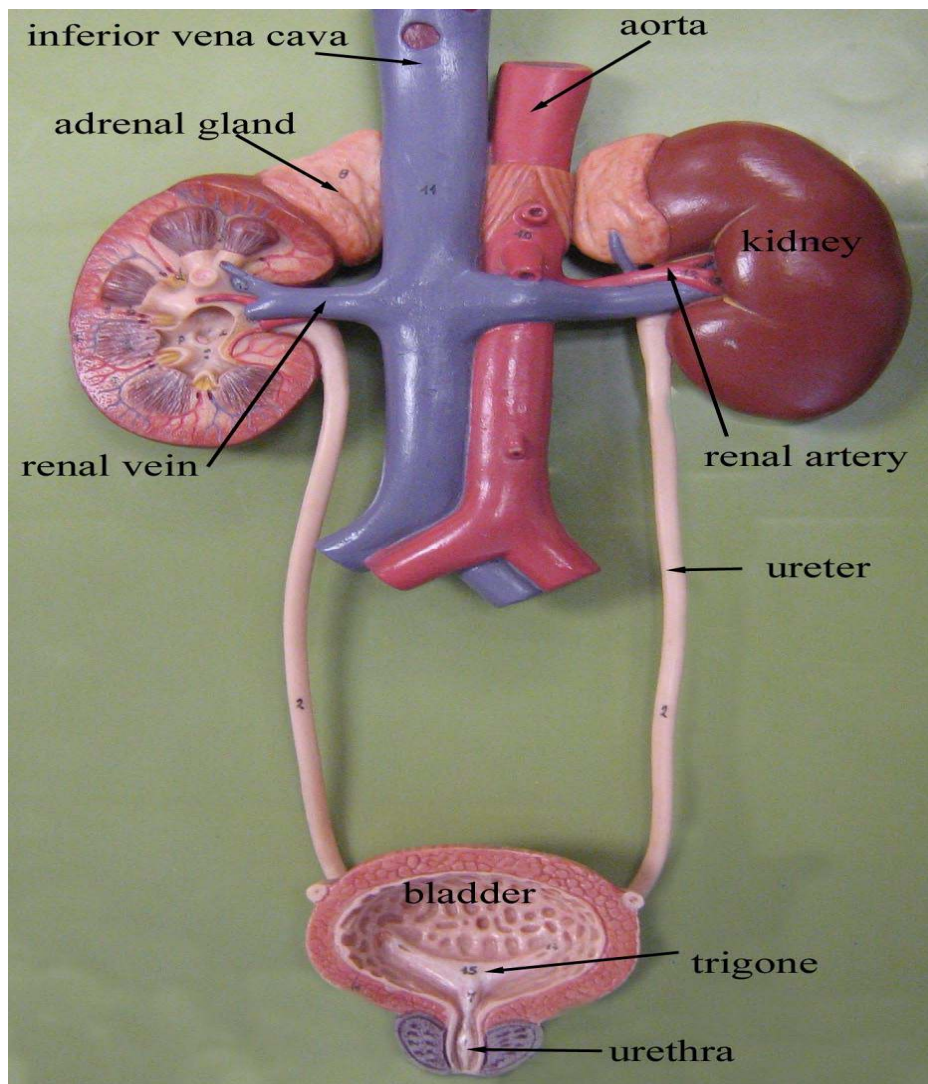
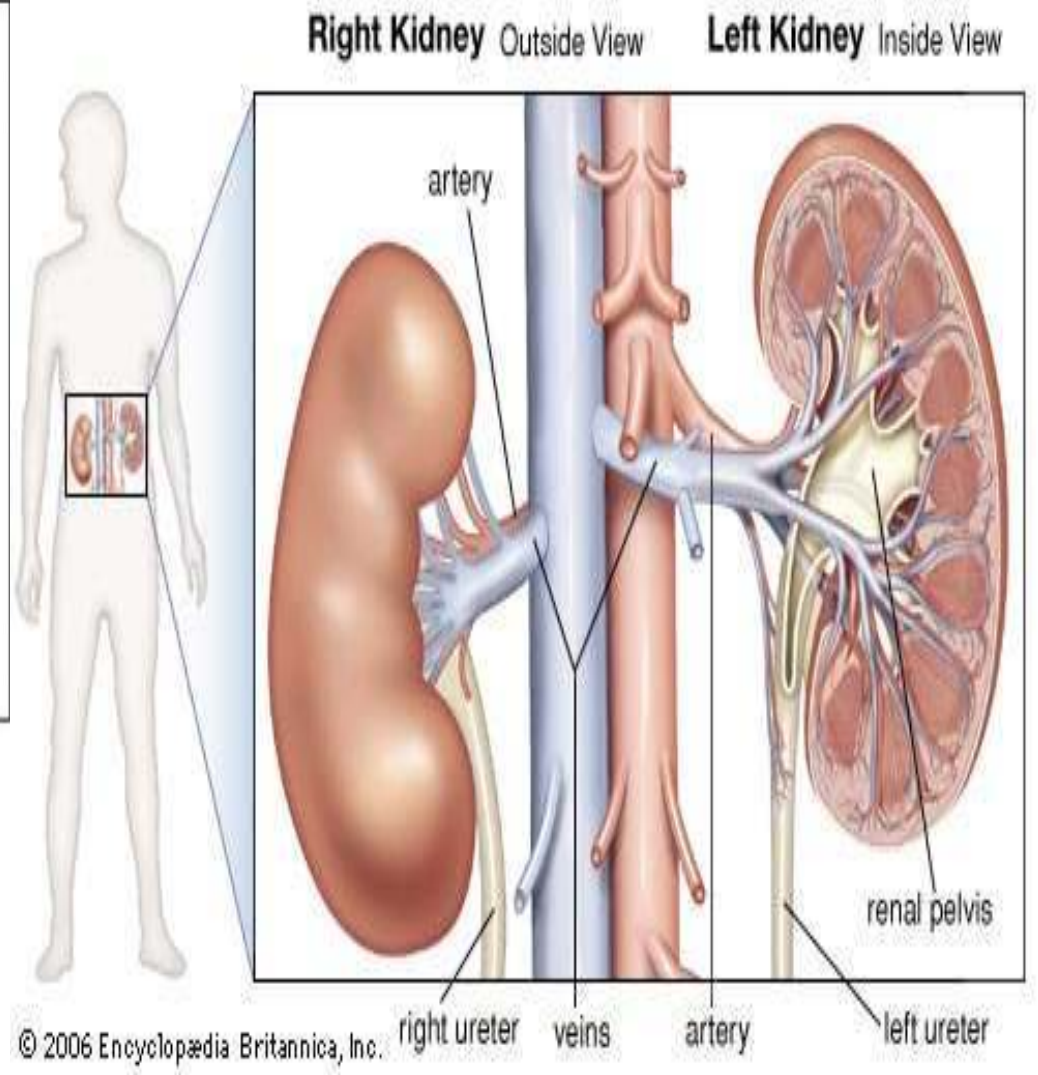
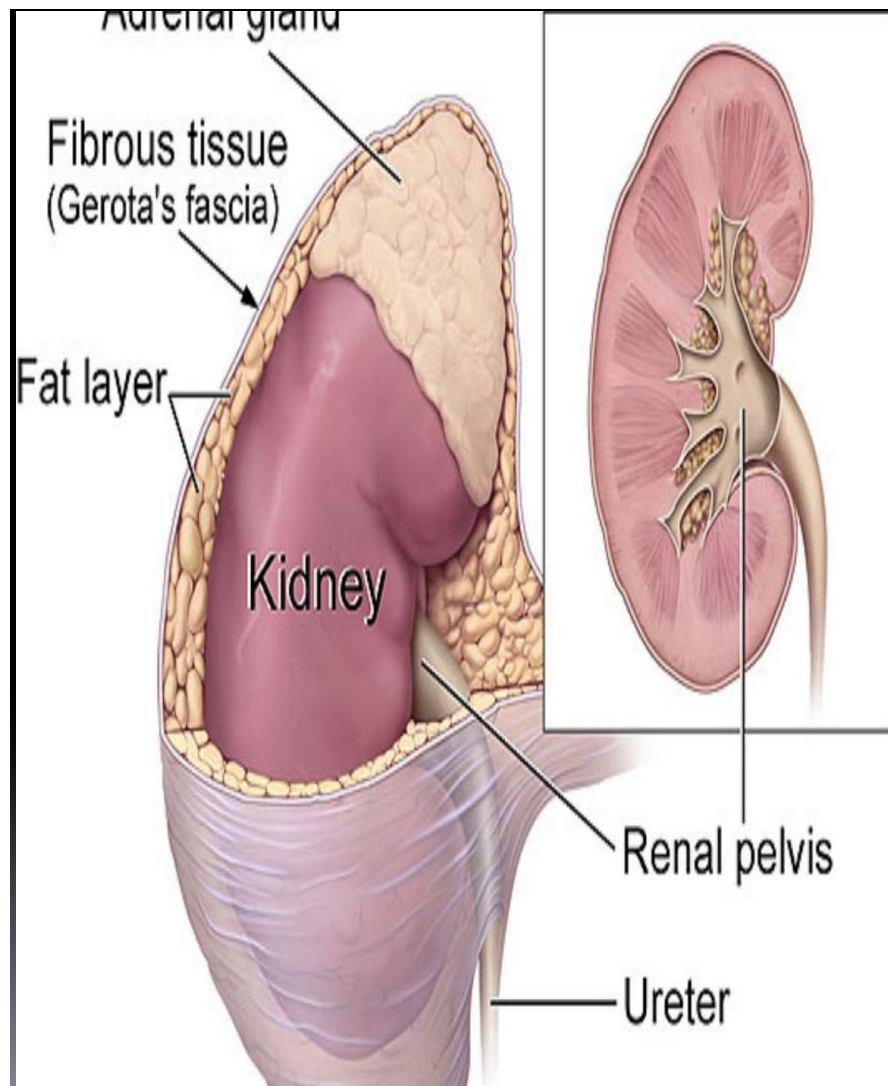


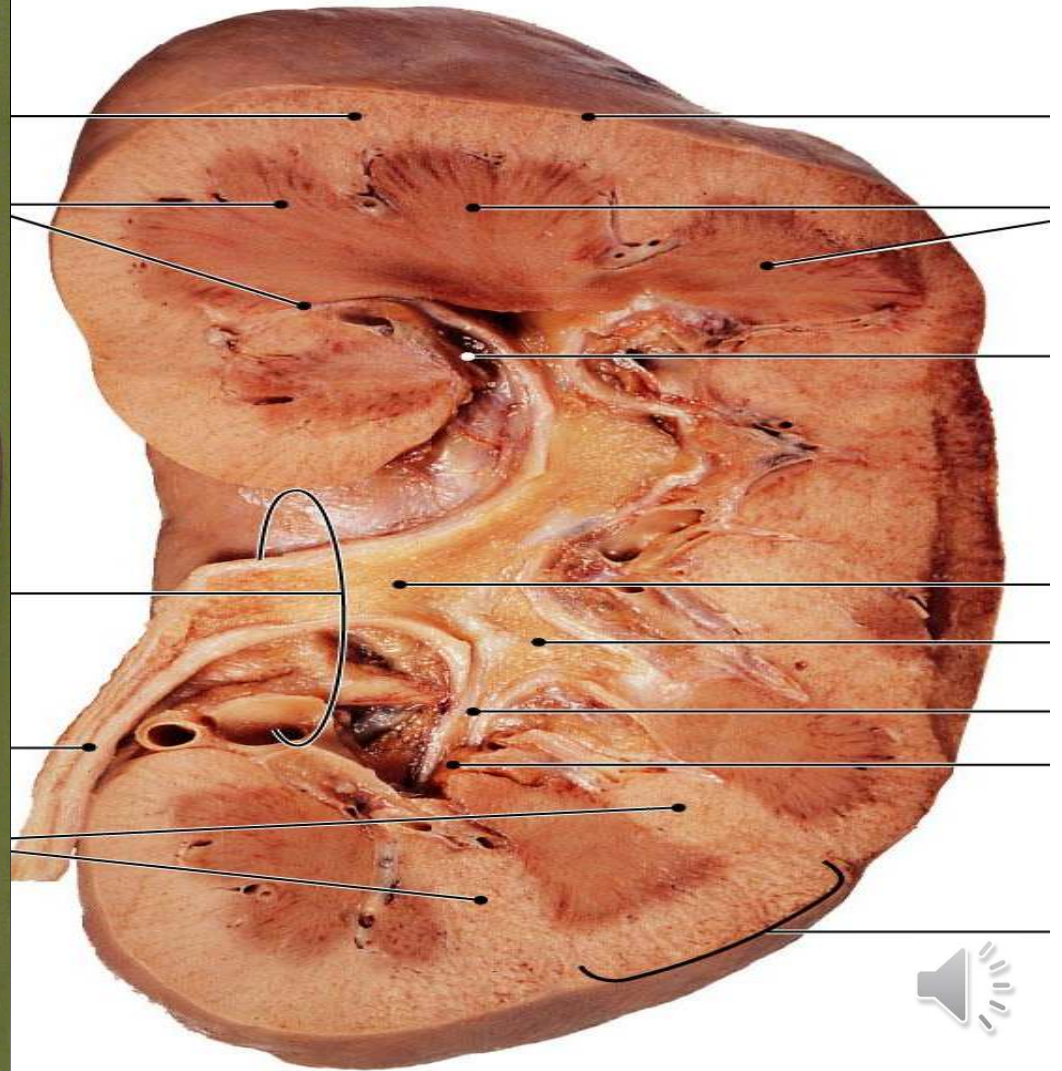
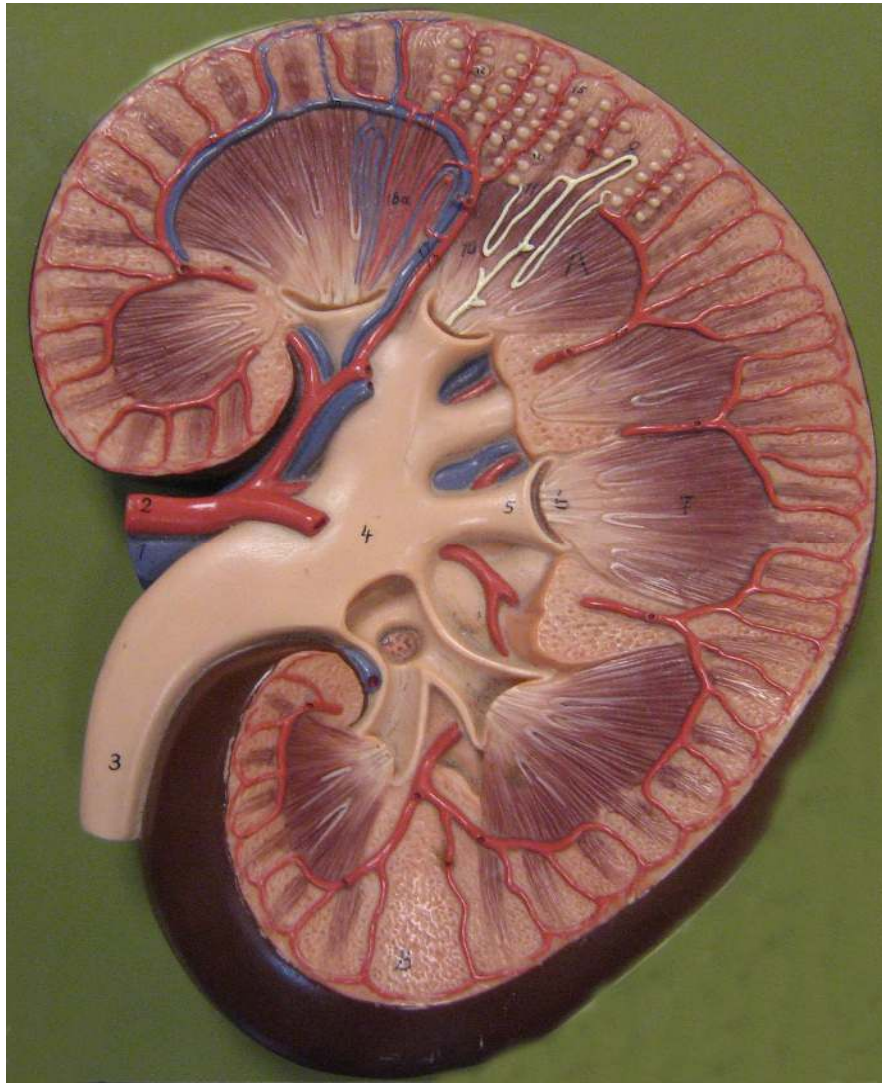
URINARY REPRODUCTIVE SYSTEM MODELS & HISTOLOGY DH

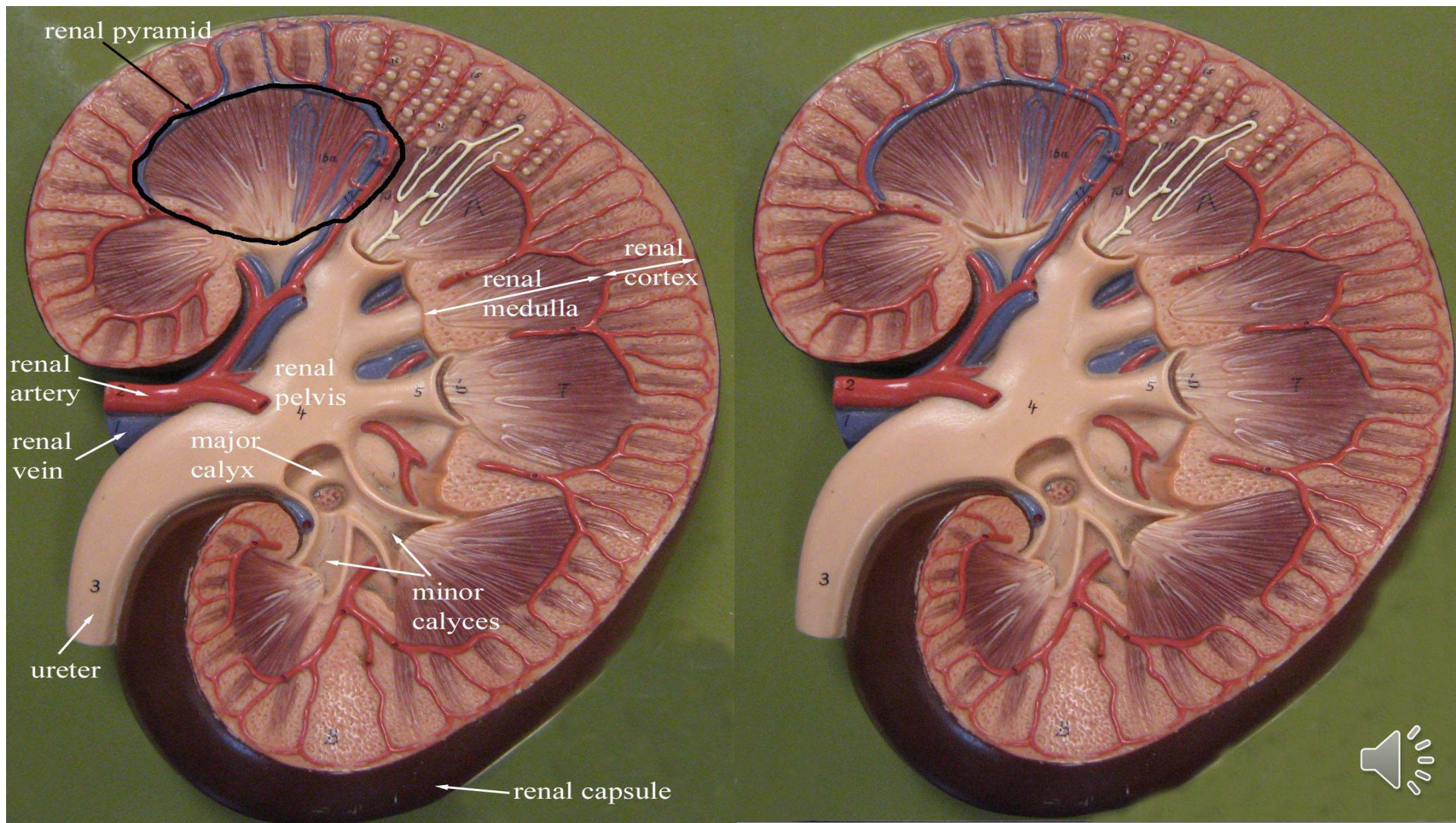


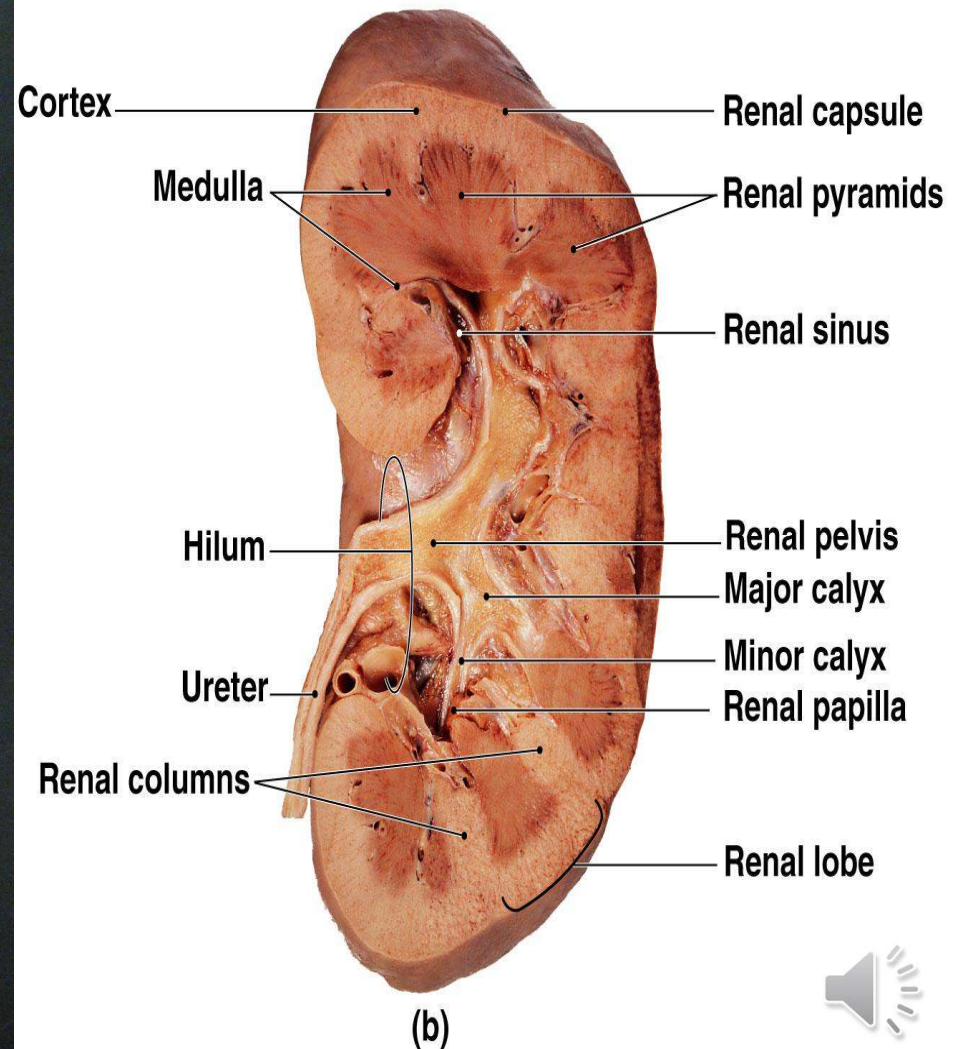
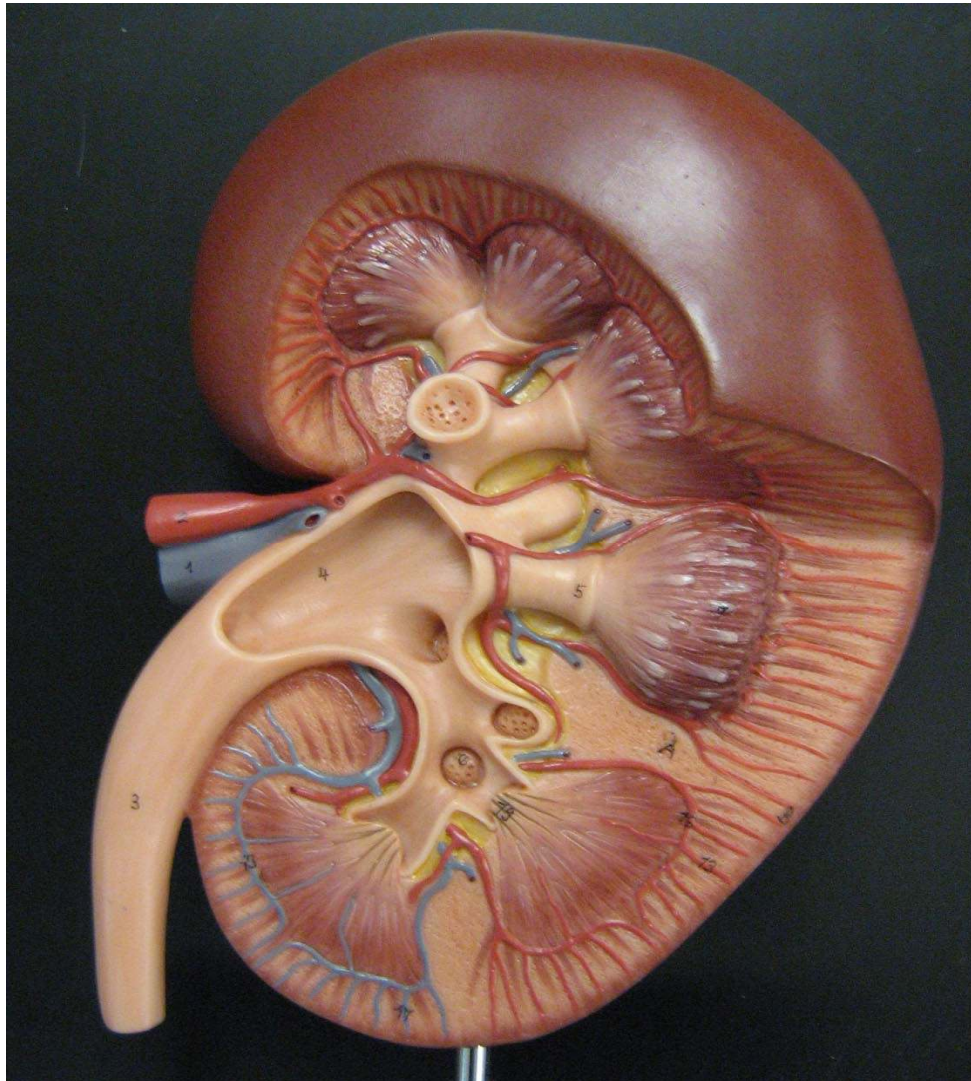






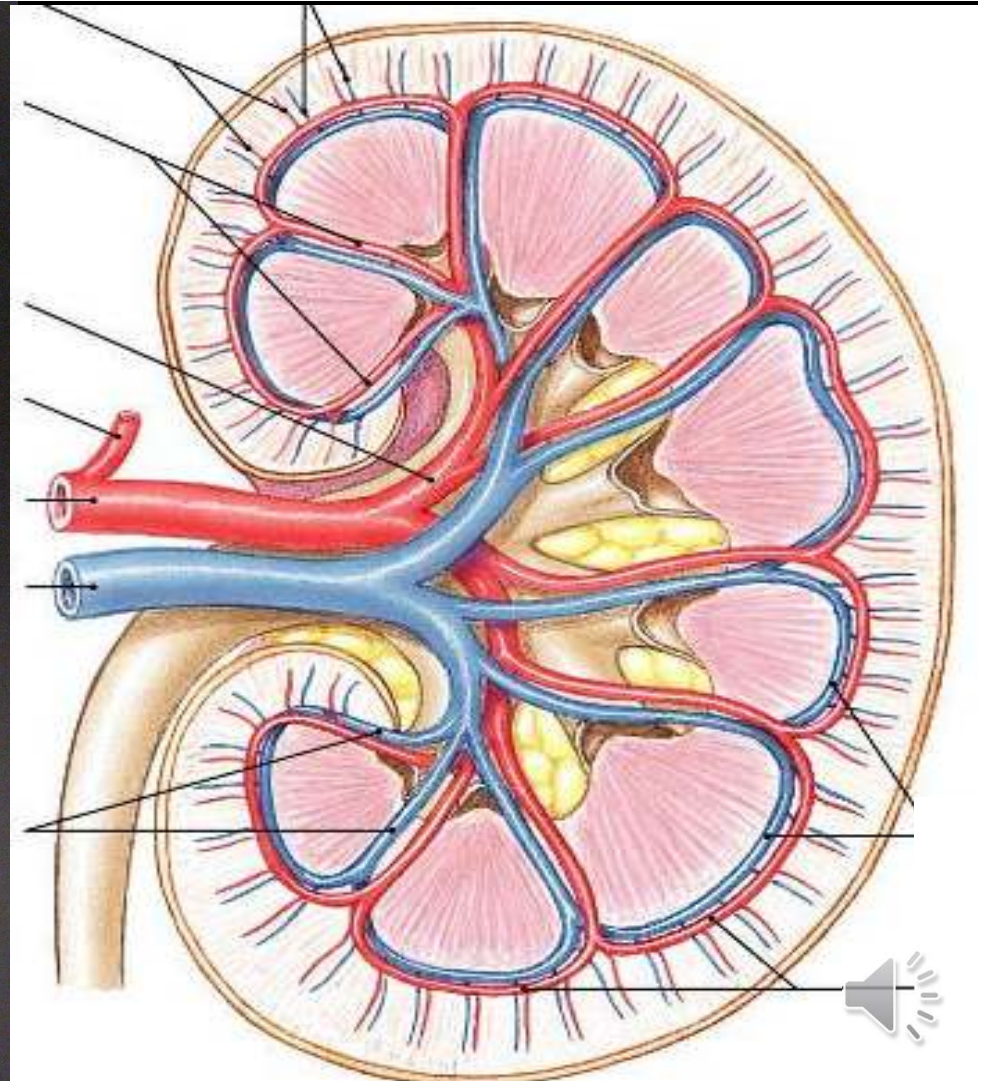
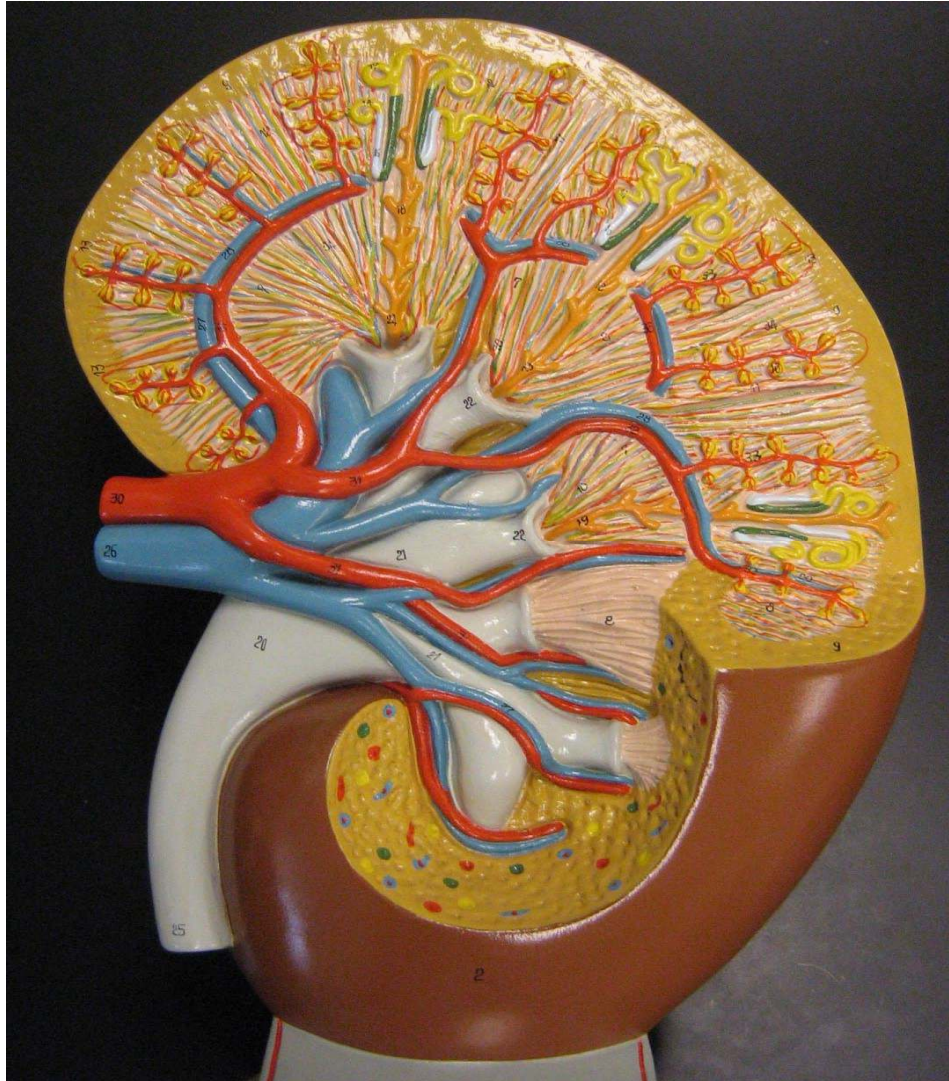


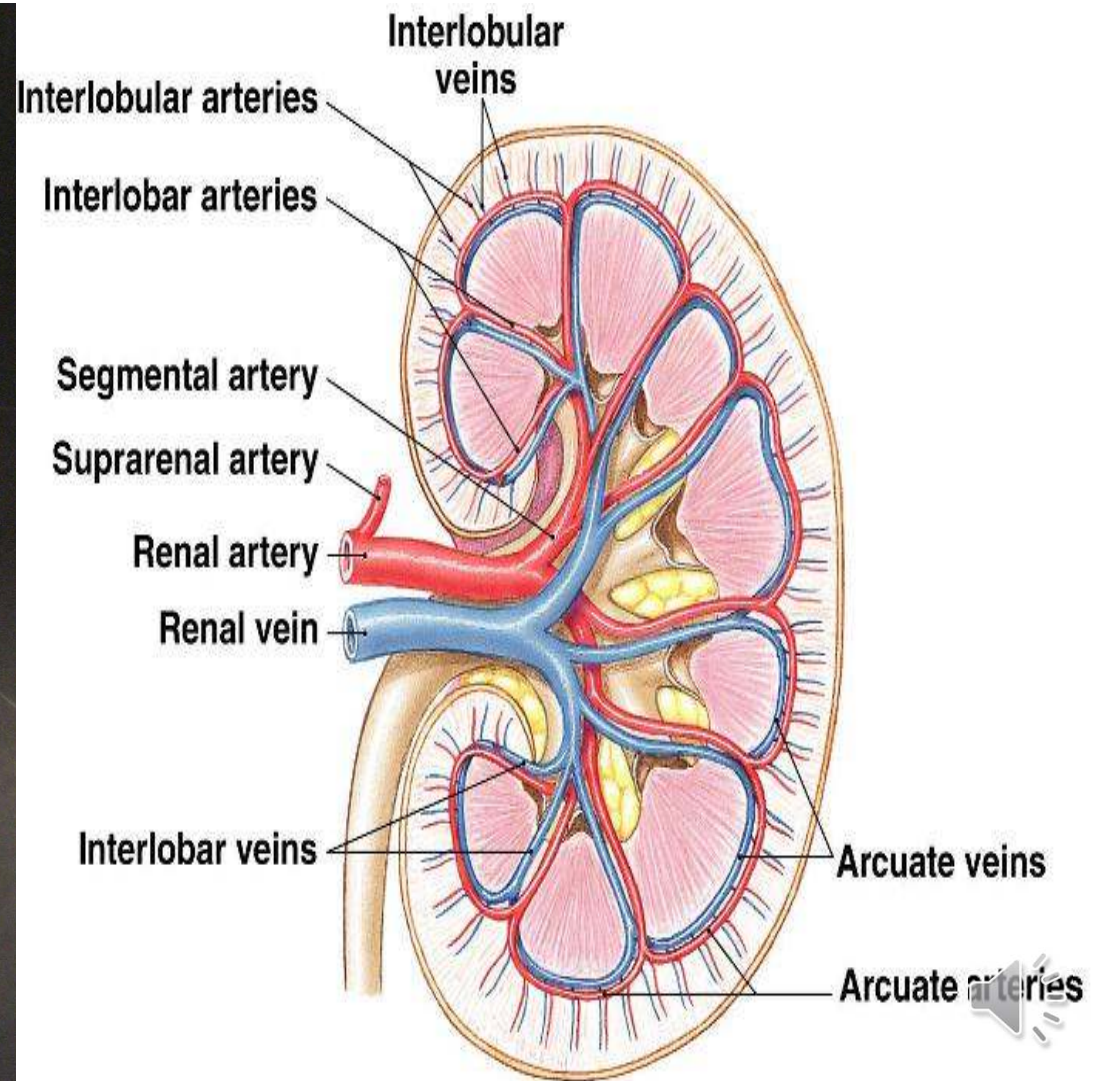


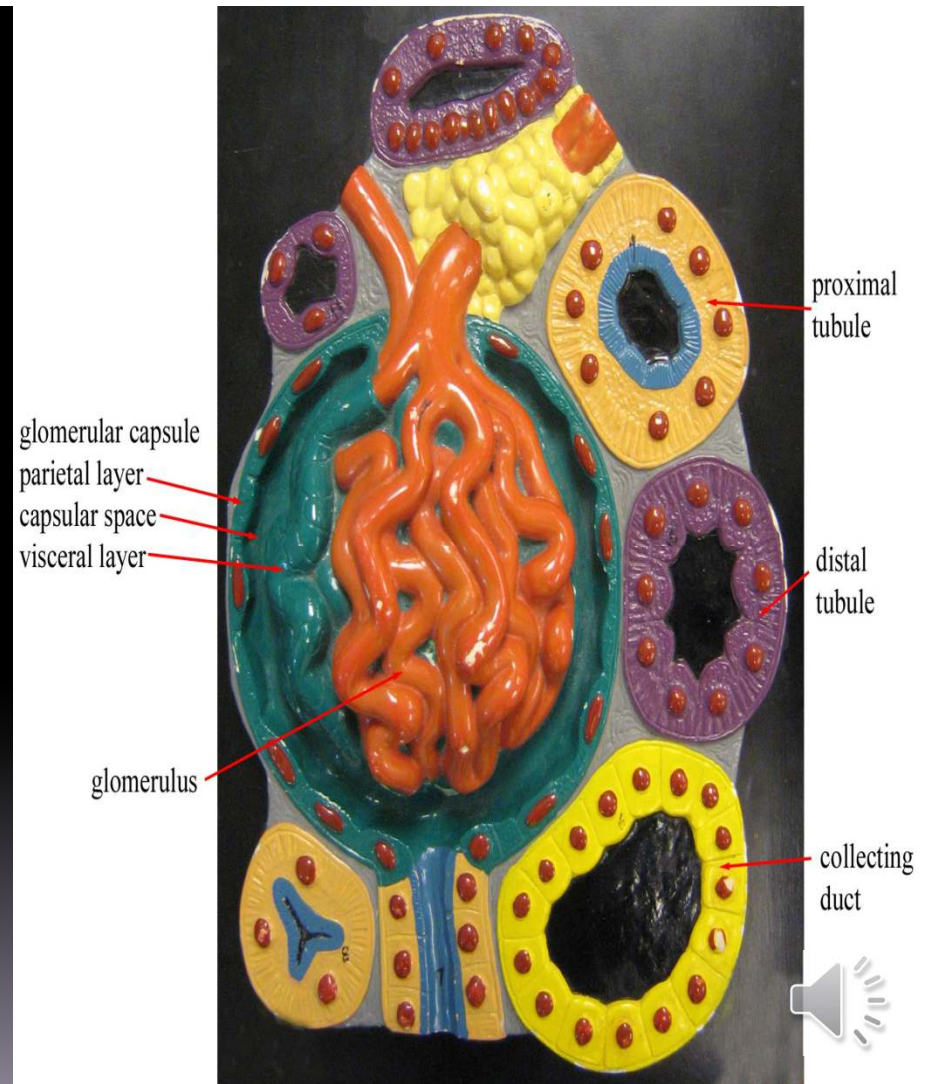
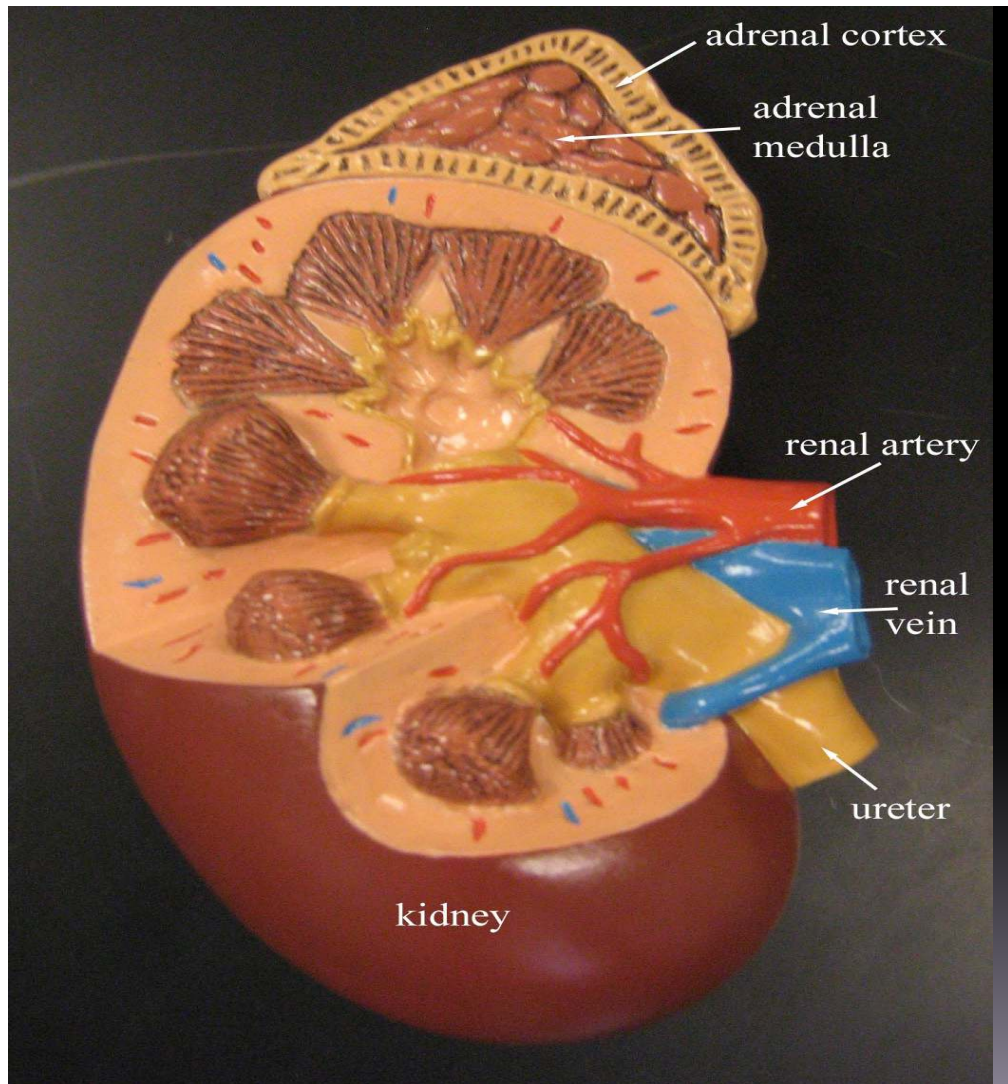


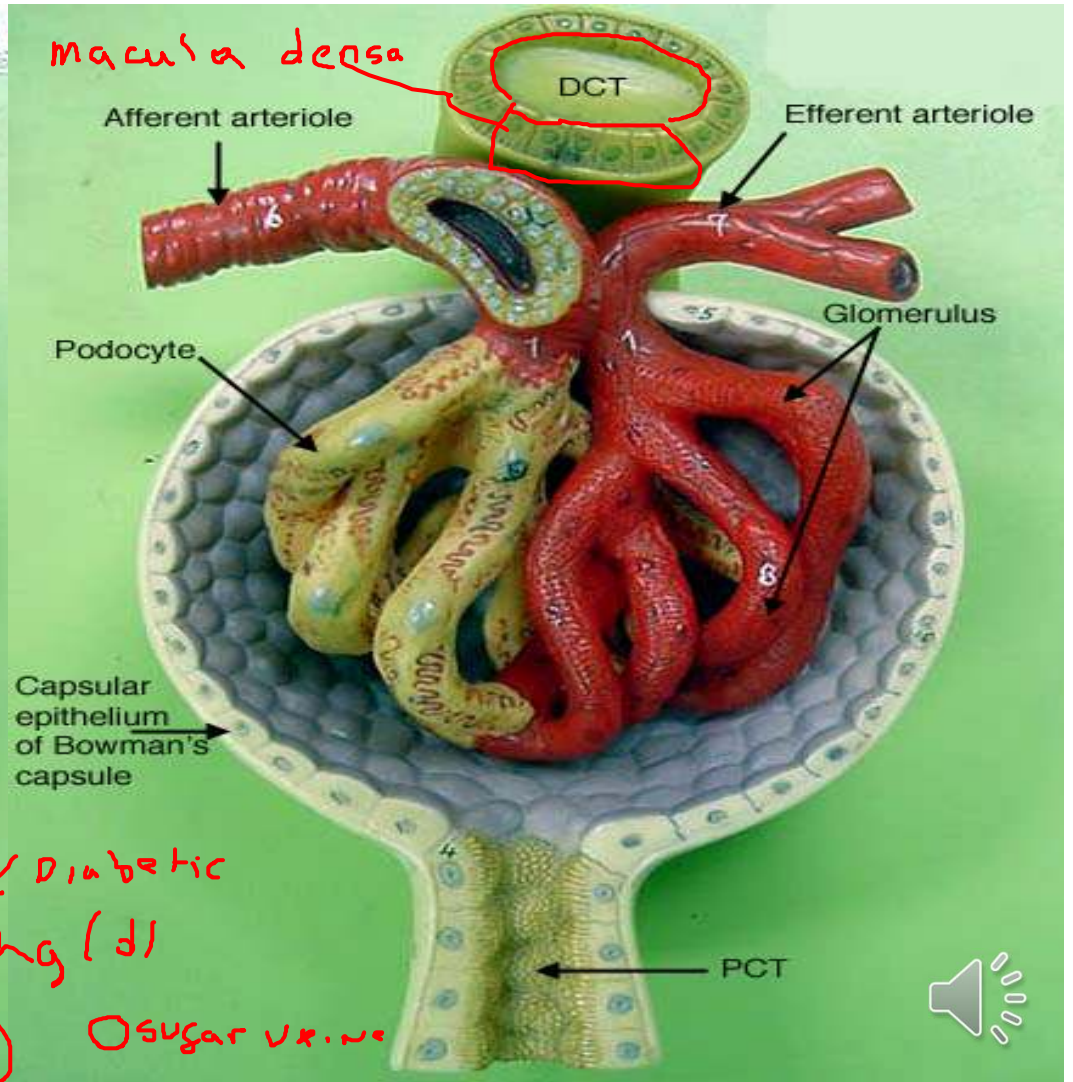
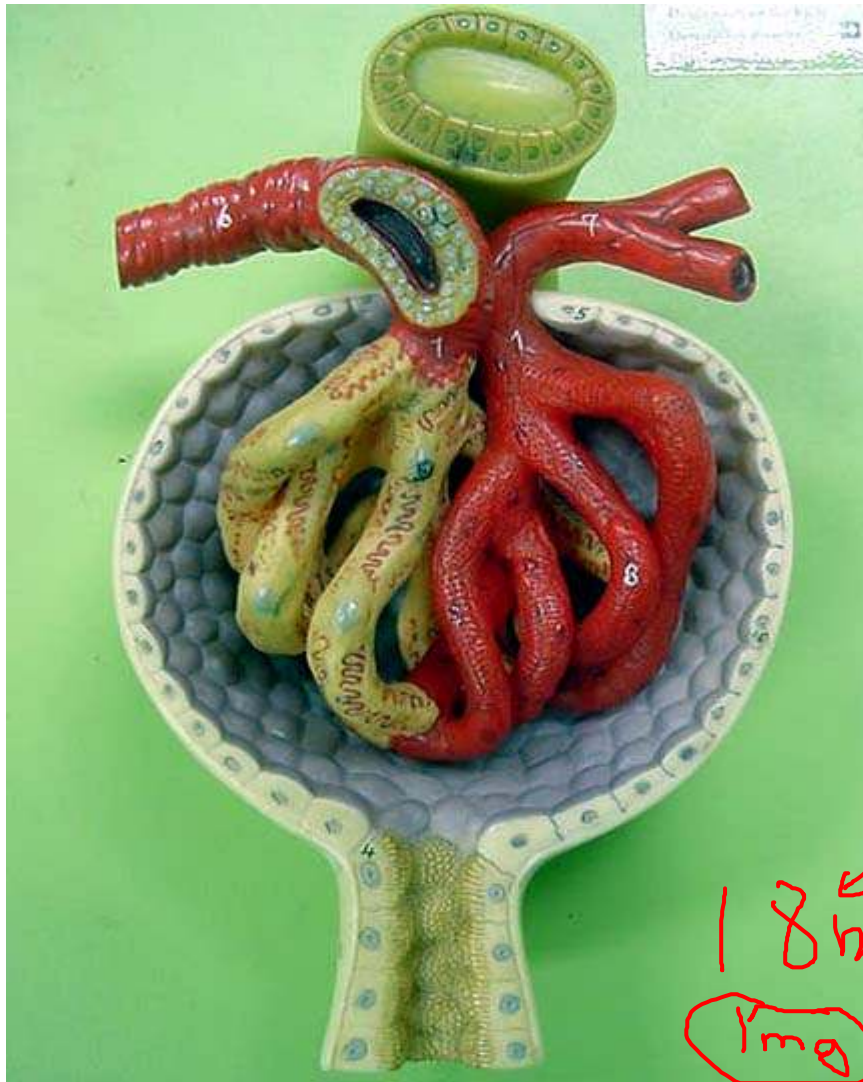
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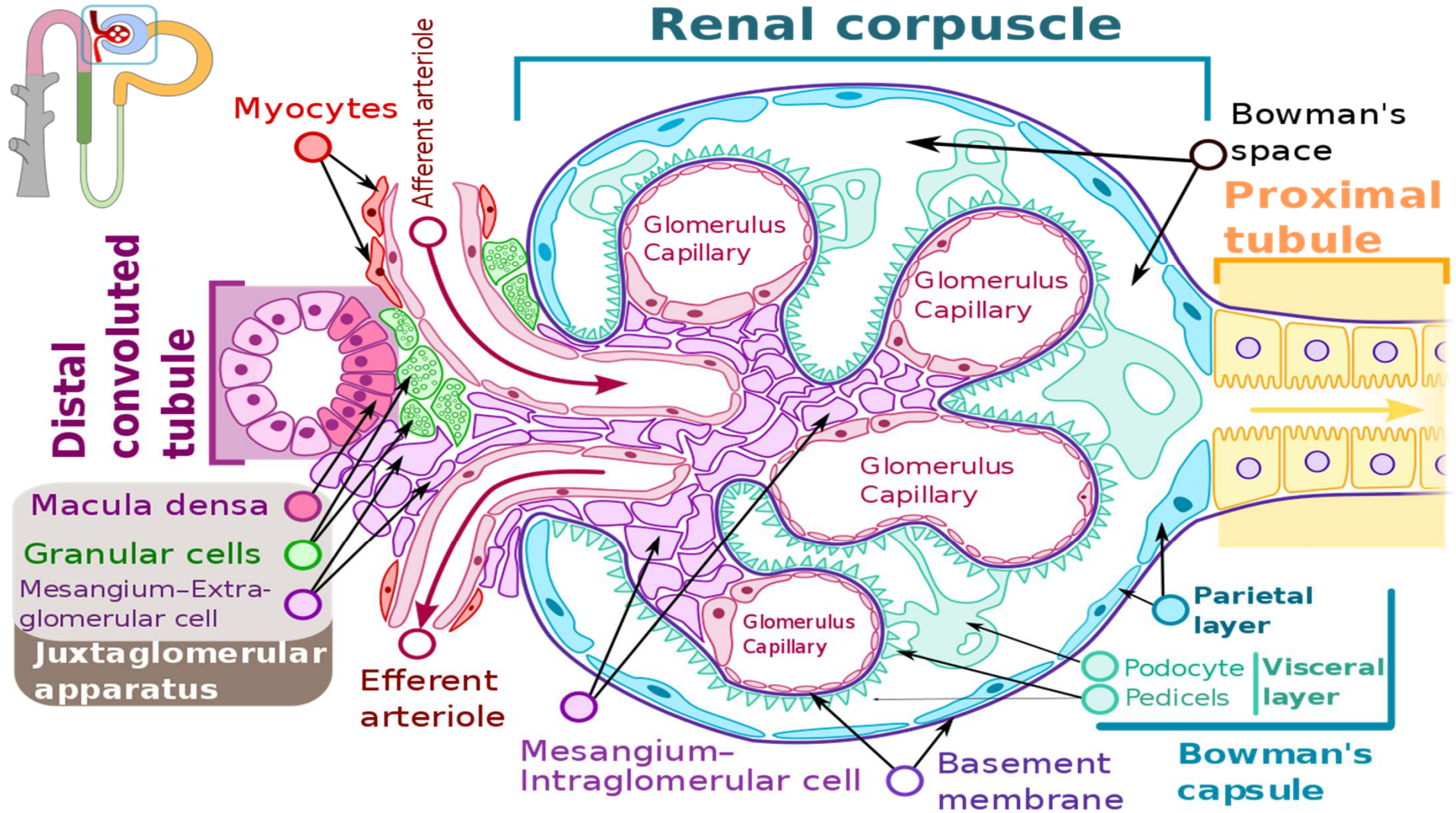


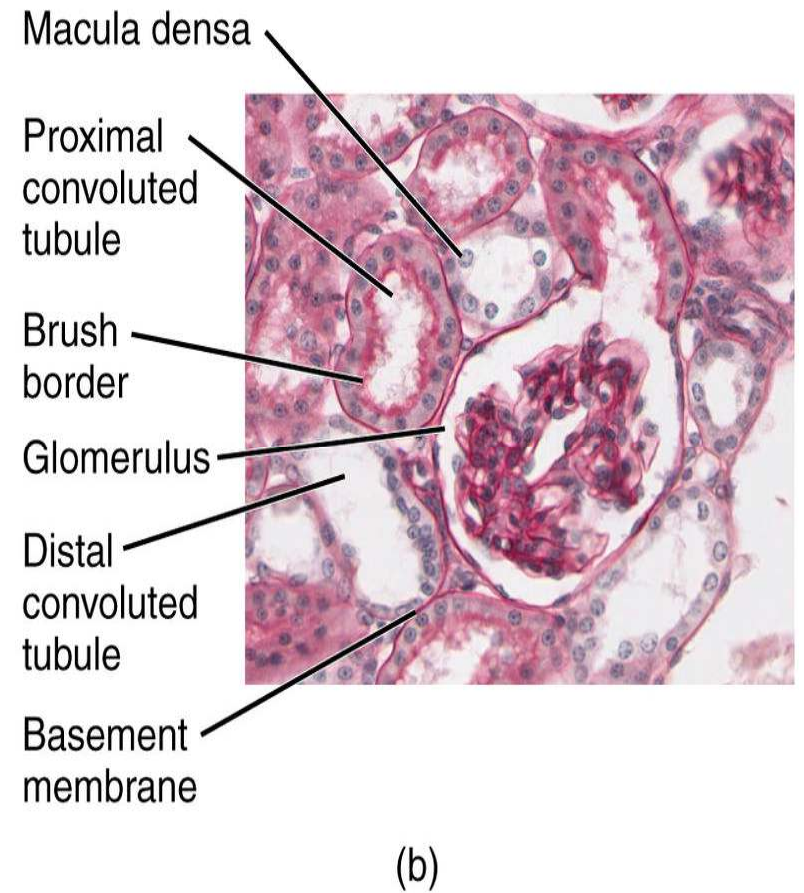
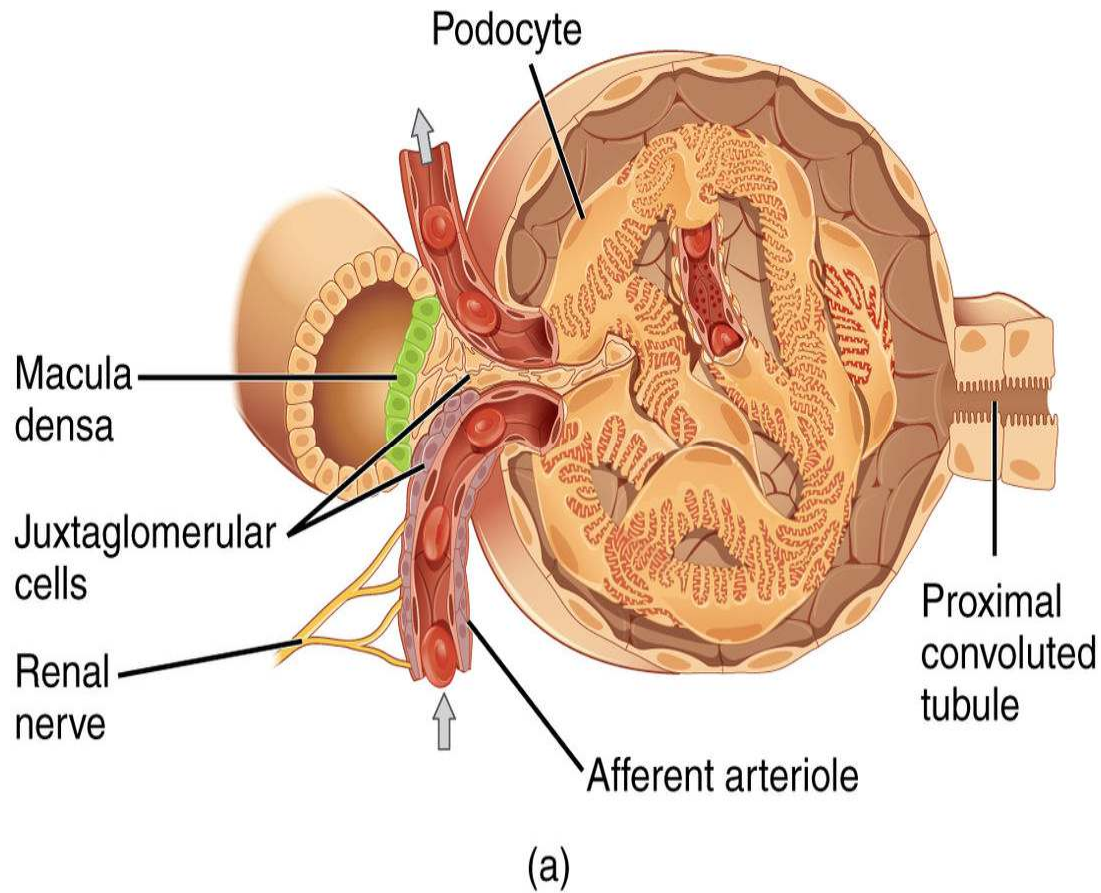


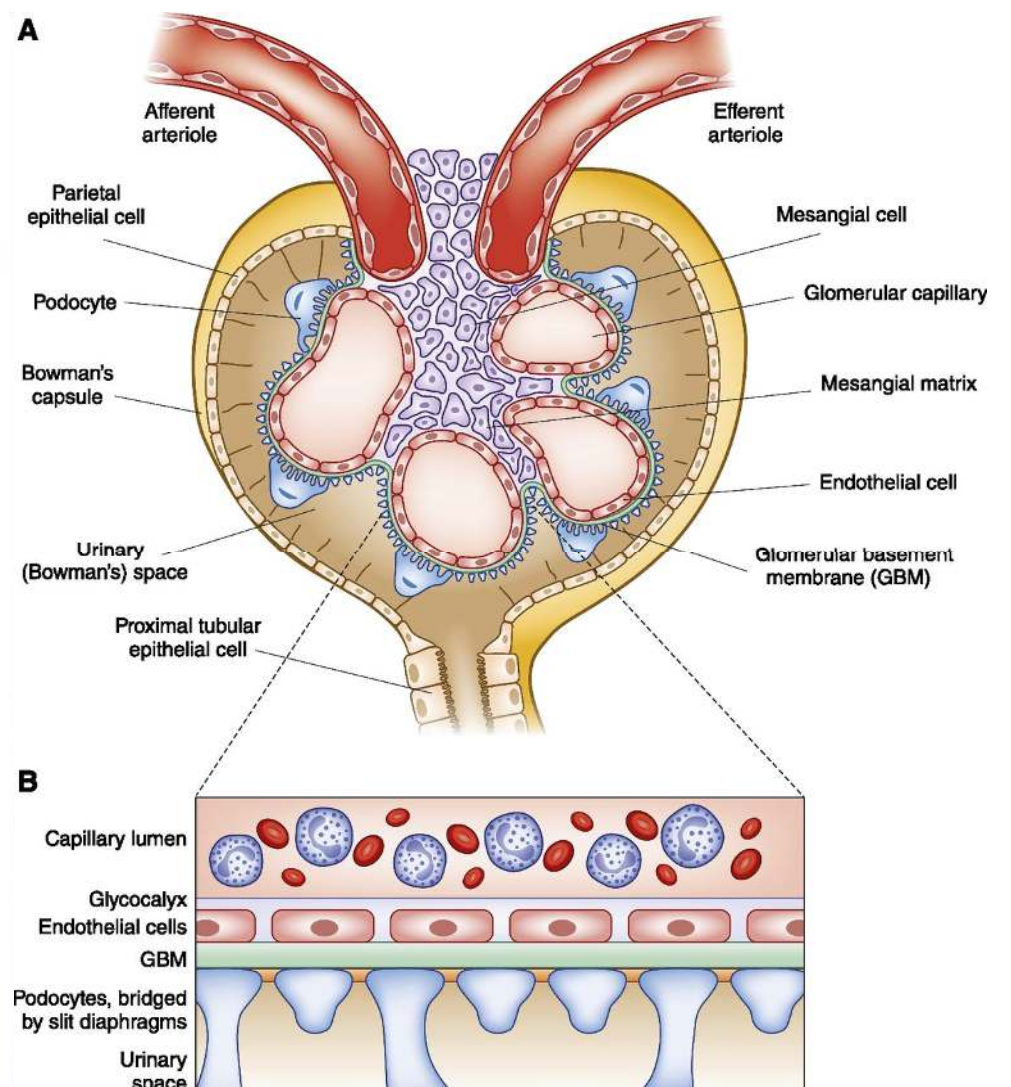
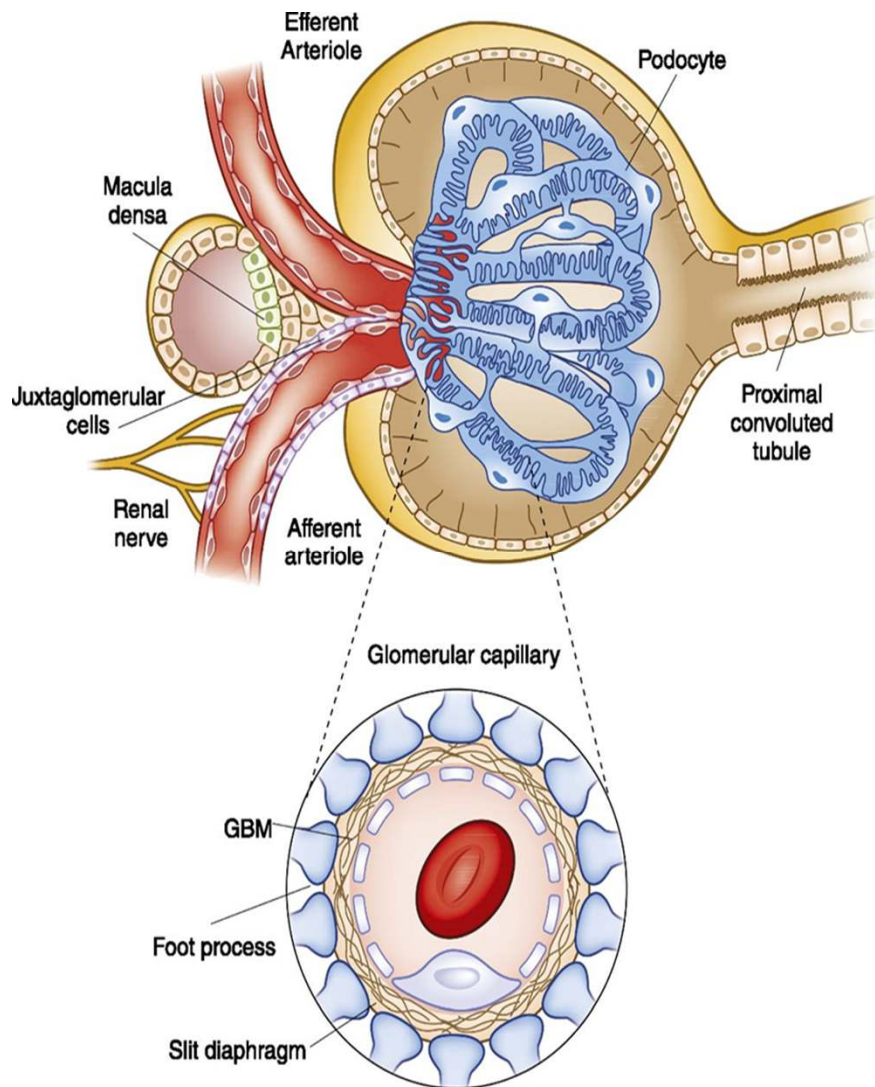
18 mg/dl ← Diabetic
1 mg Sugar urine



Renal corpuscle





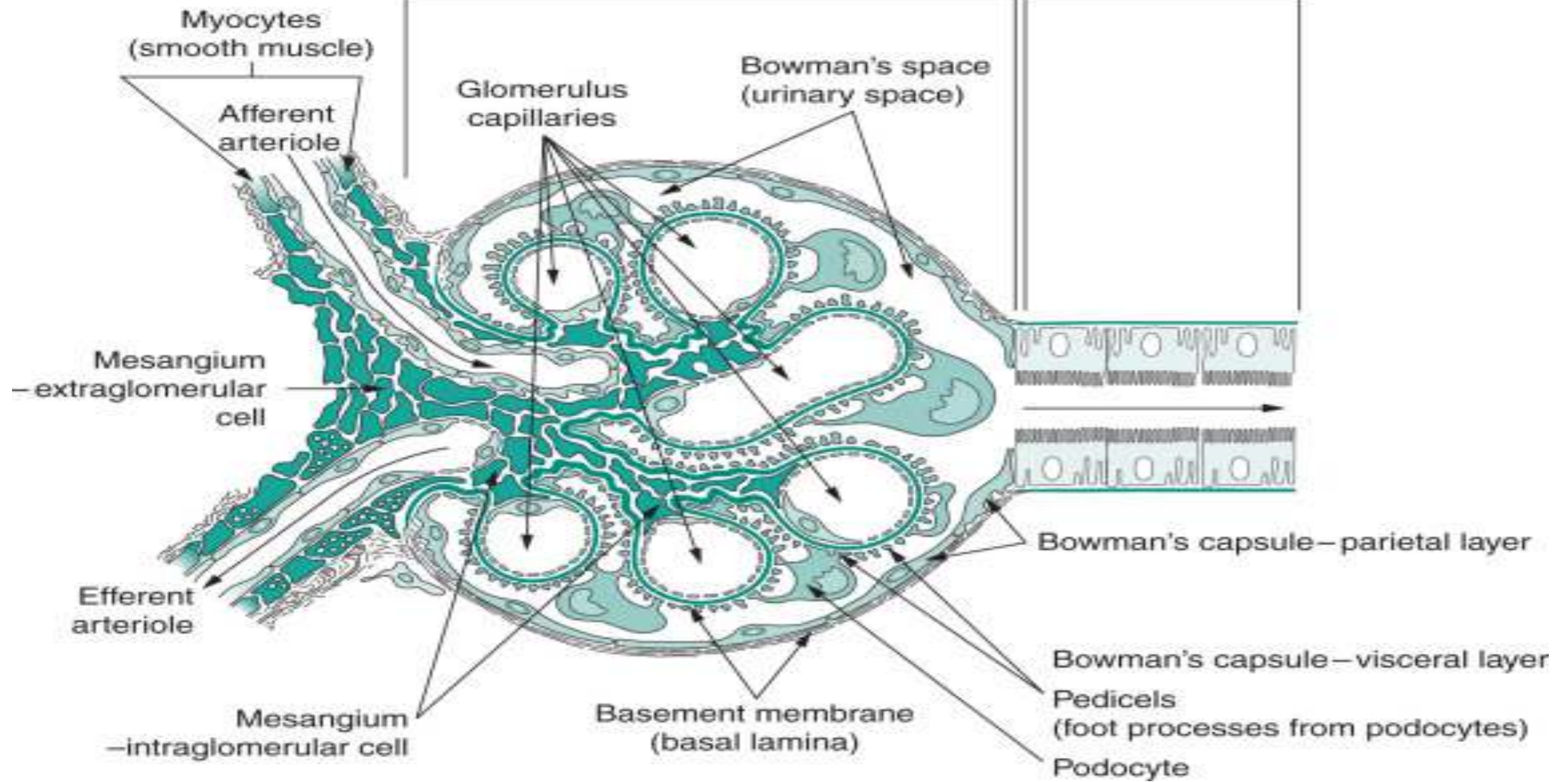


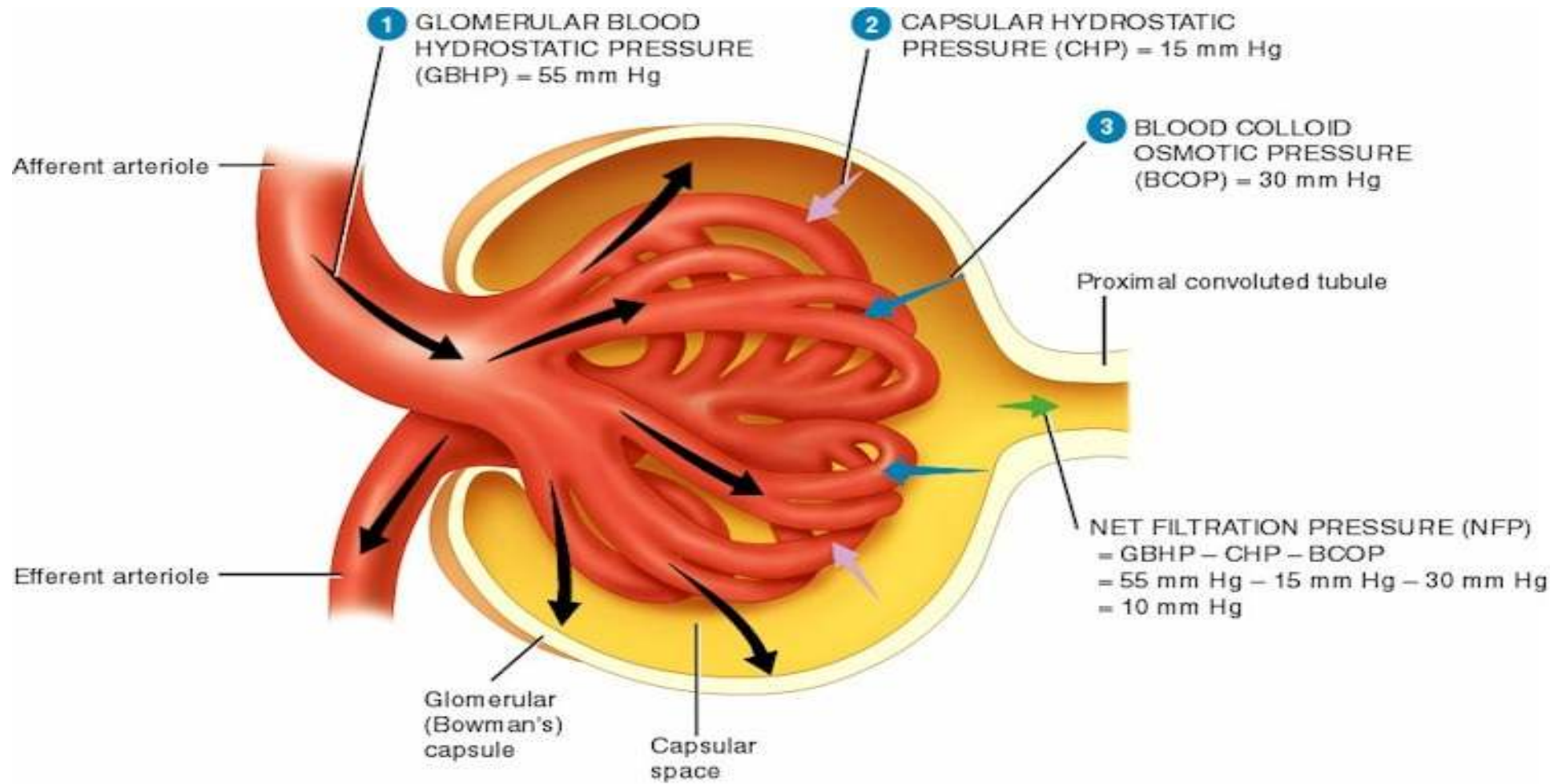
A

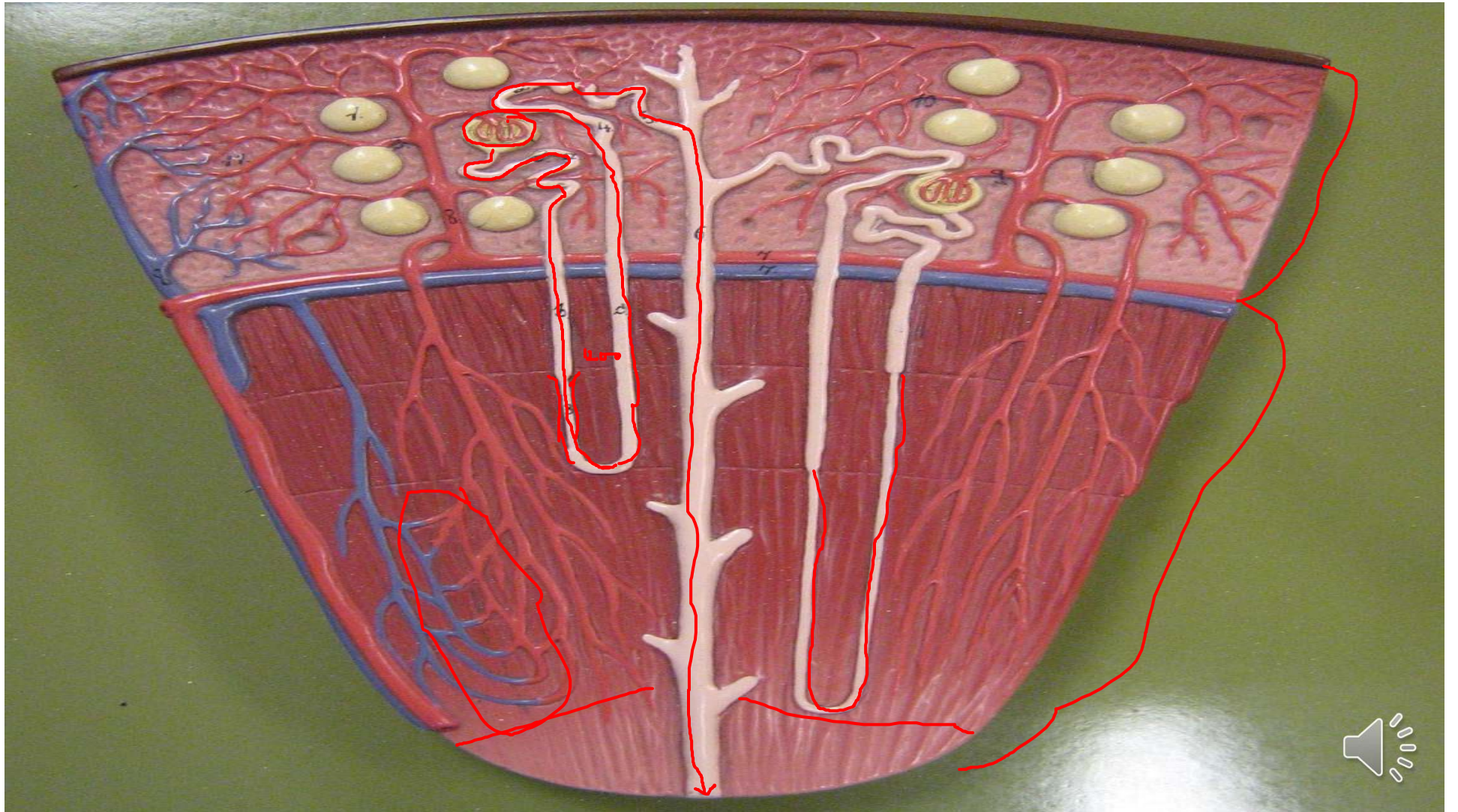
Renal corpuscle

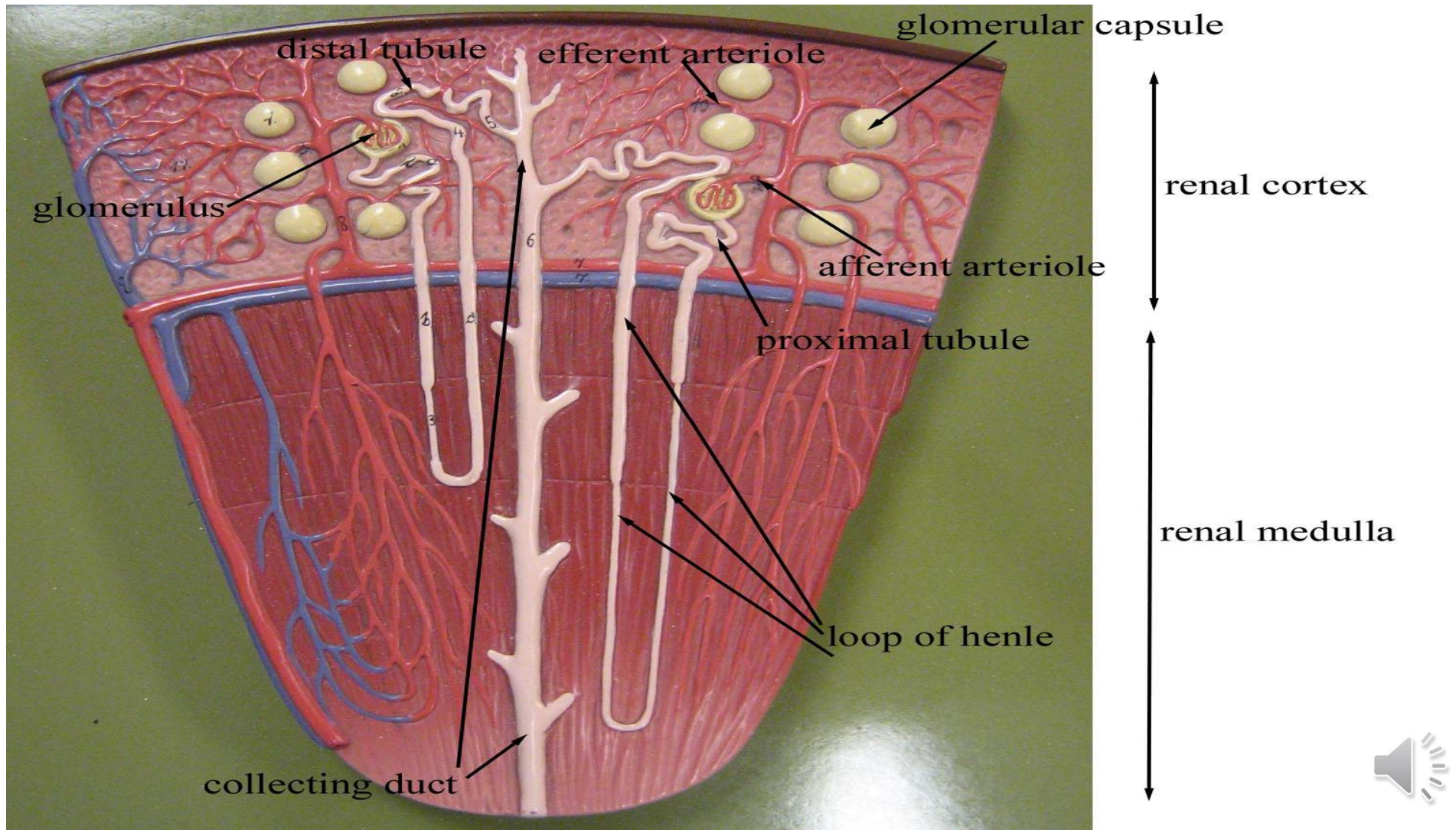
B

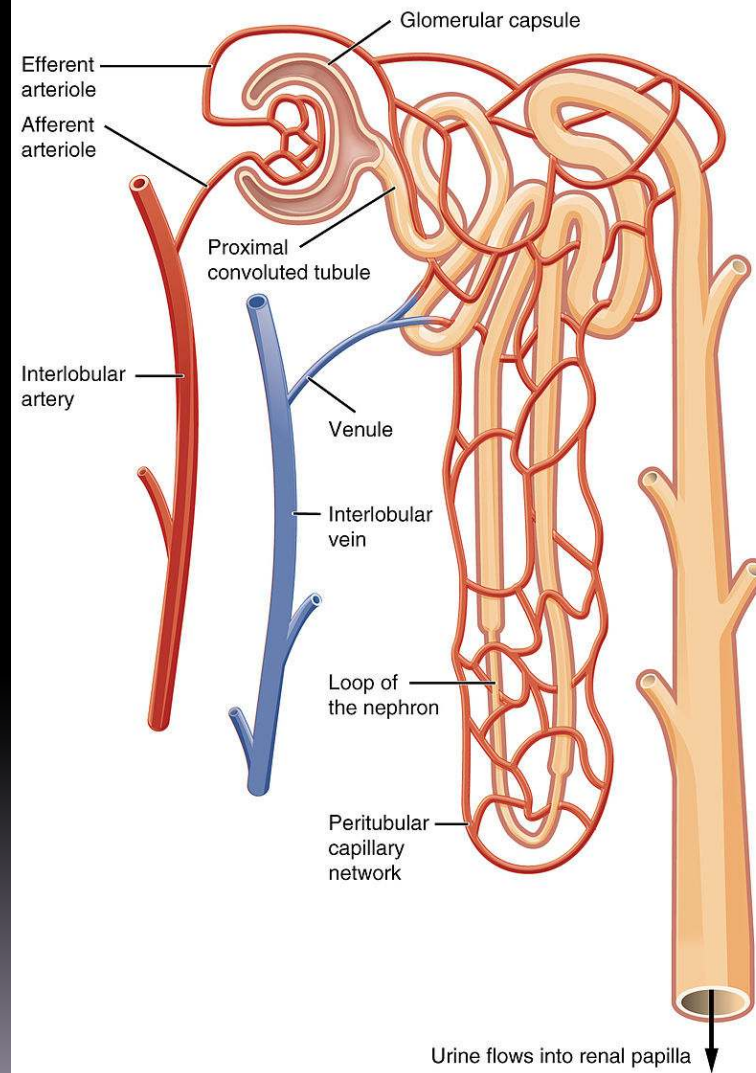
Proximal tubule

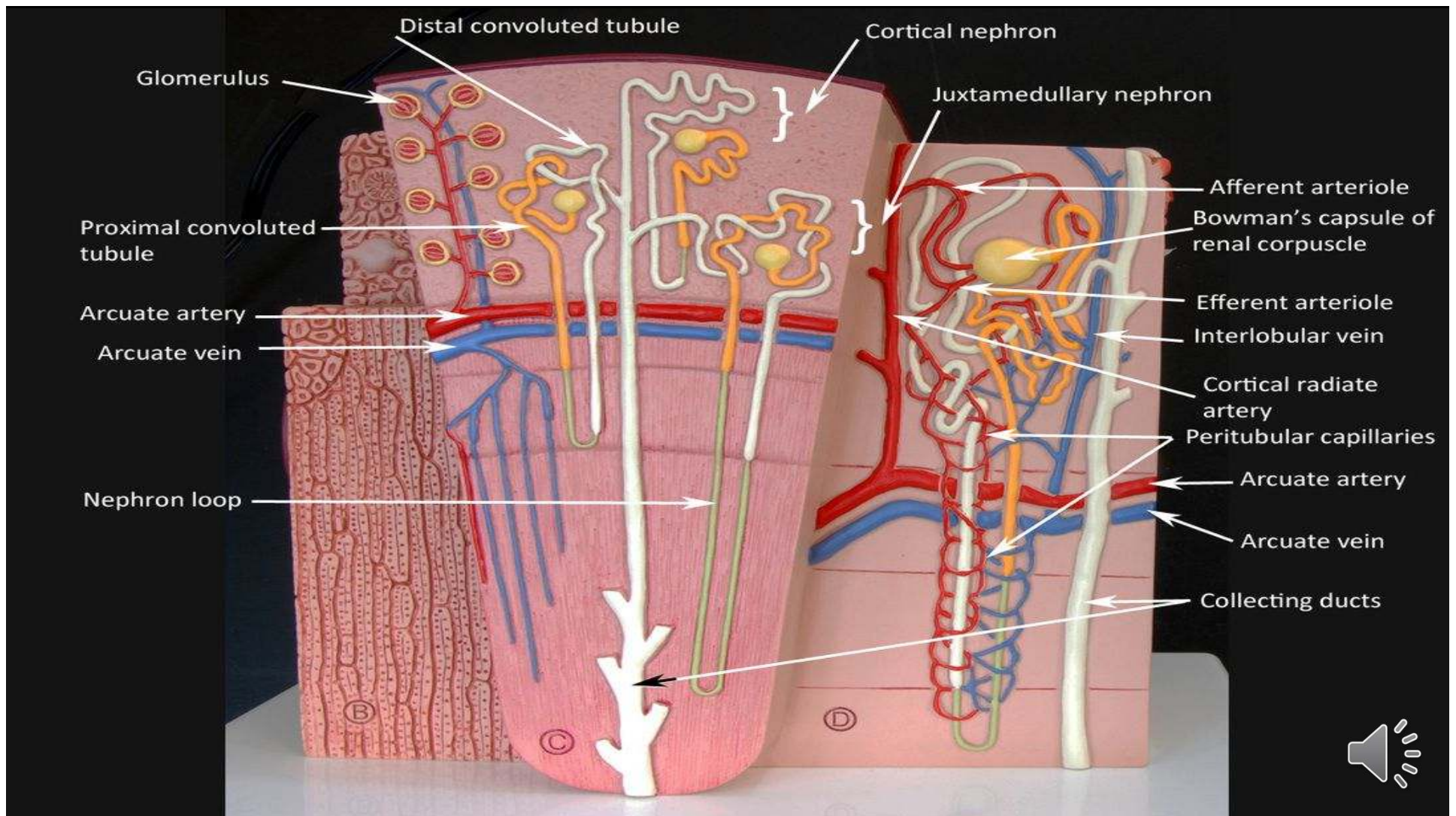


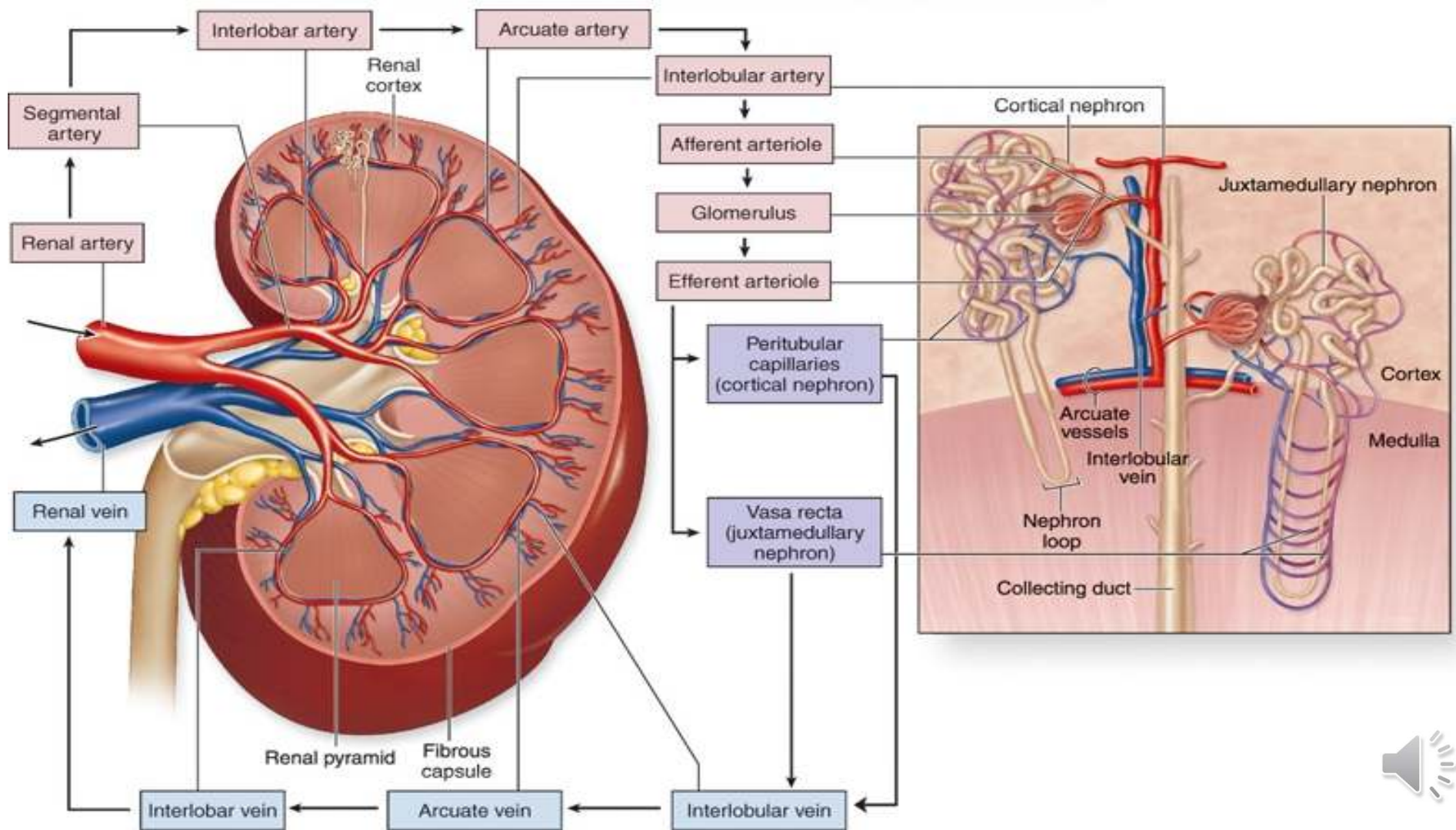




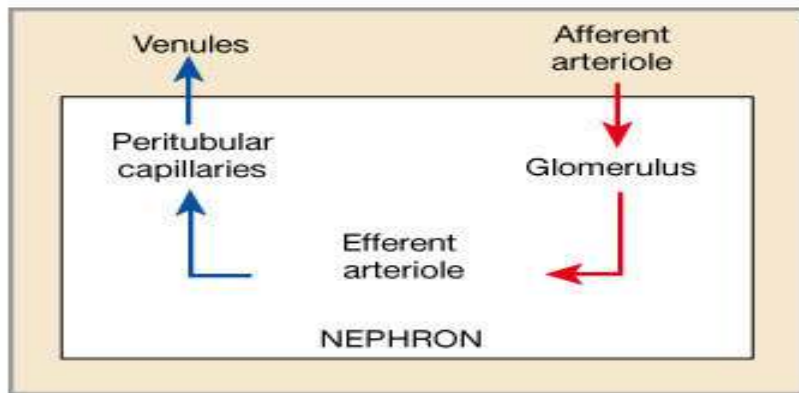




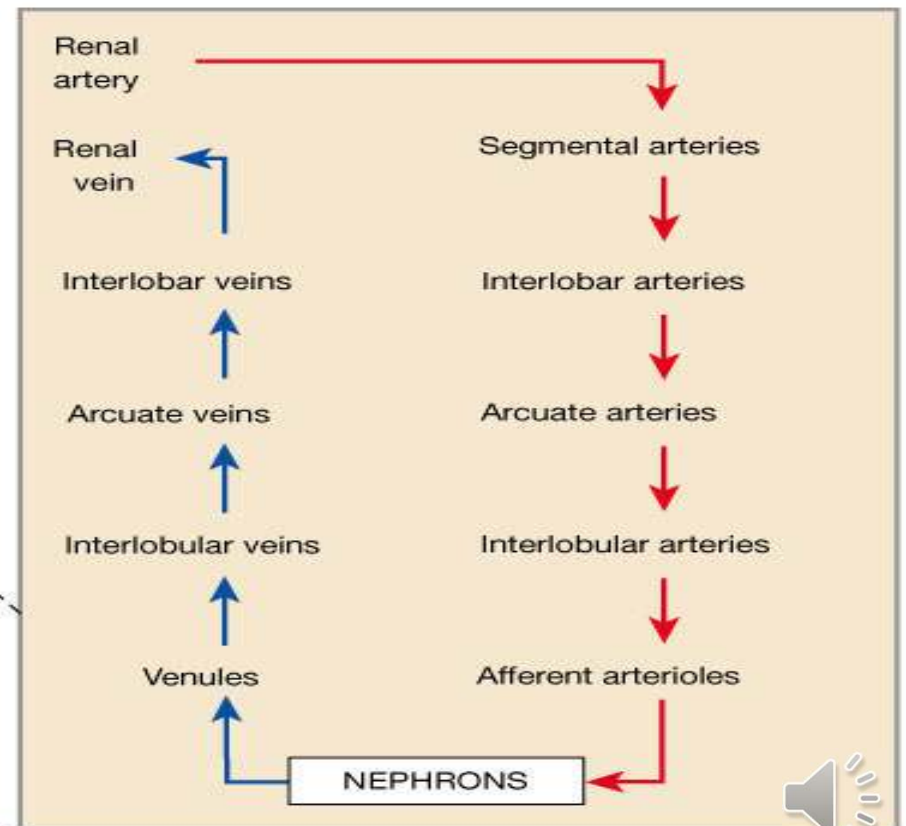




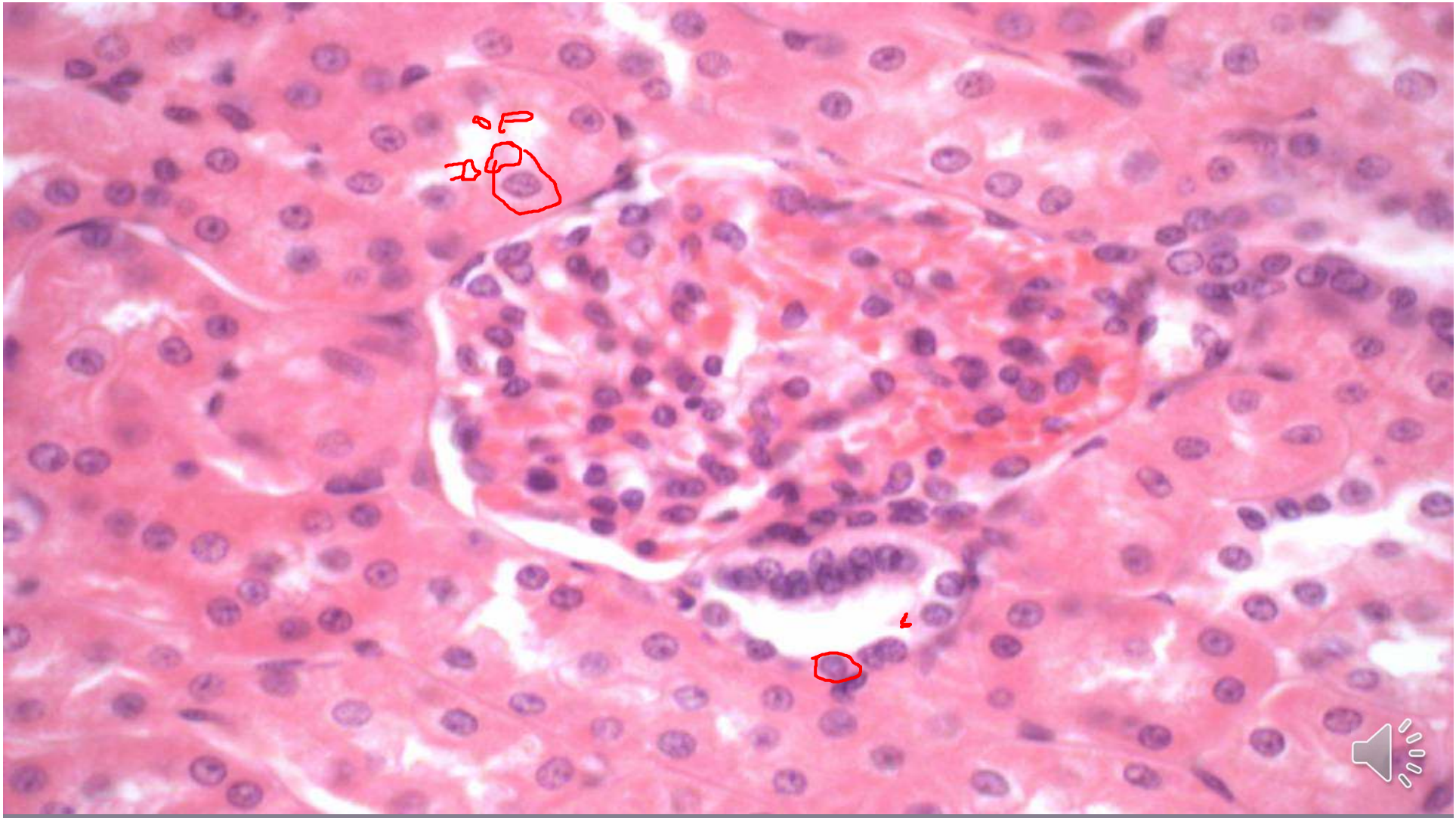
The Blood Supply to the

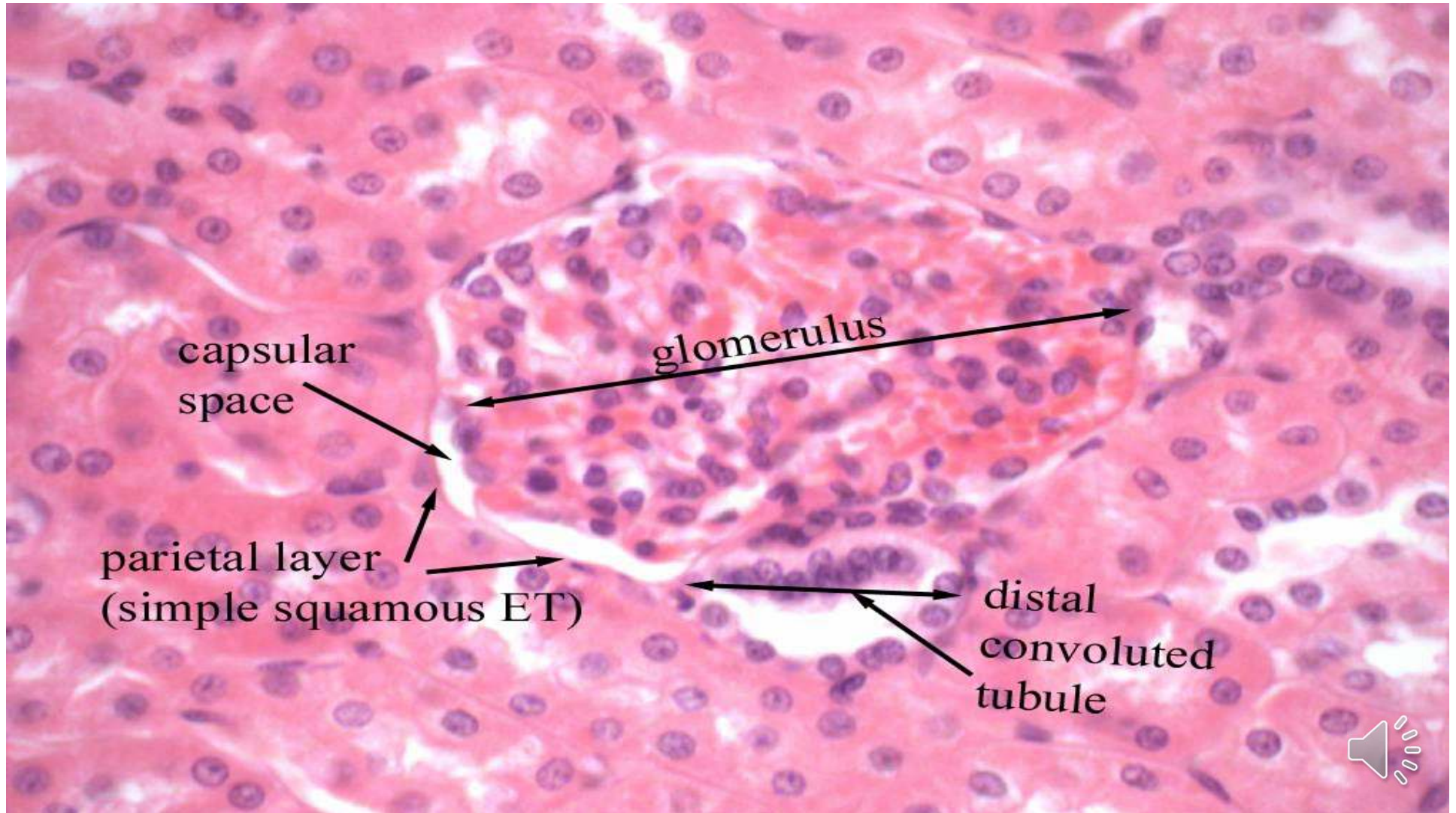


(d)



(c)



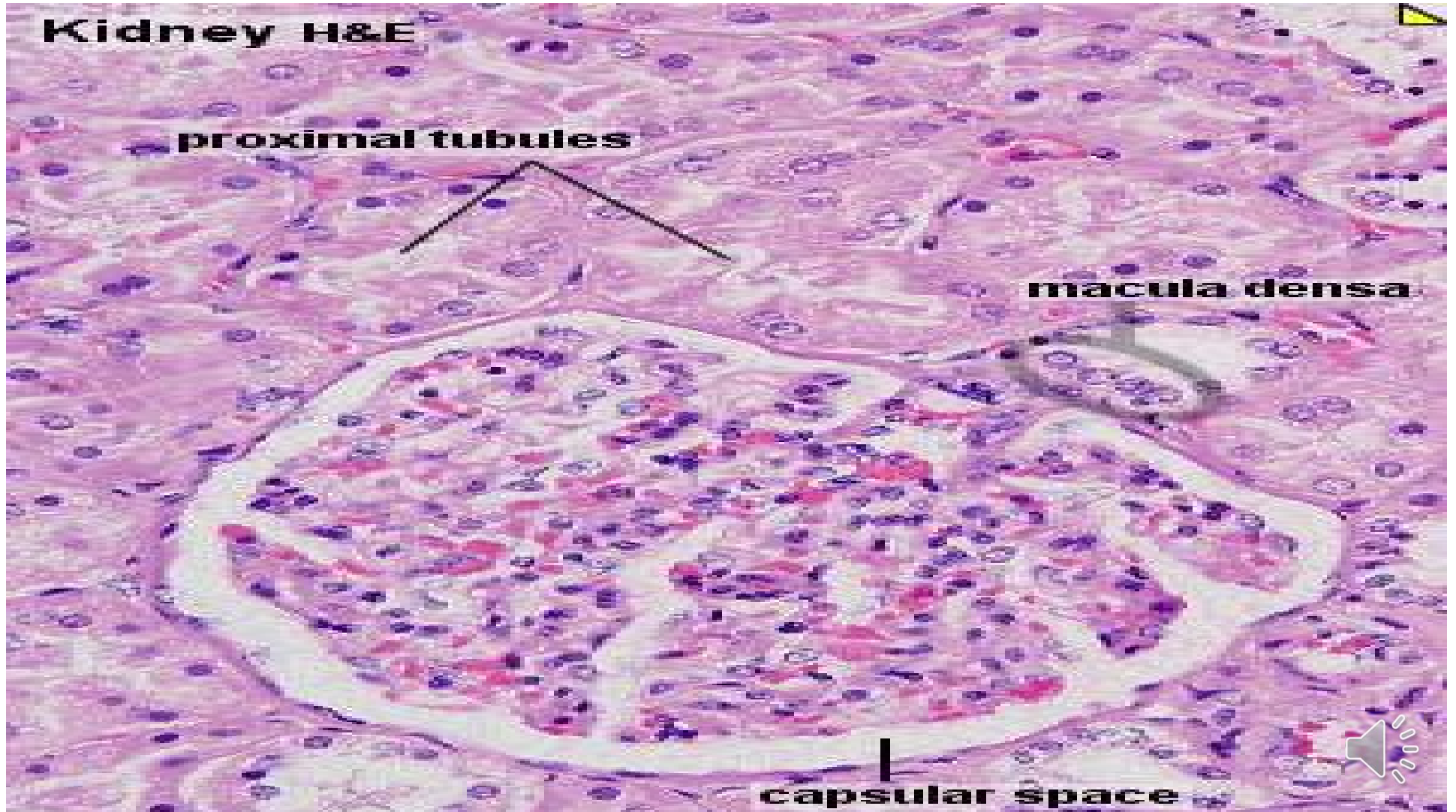


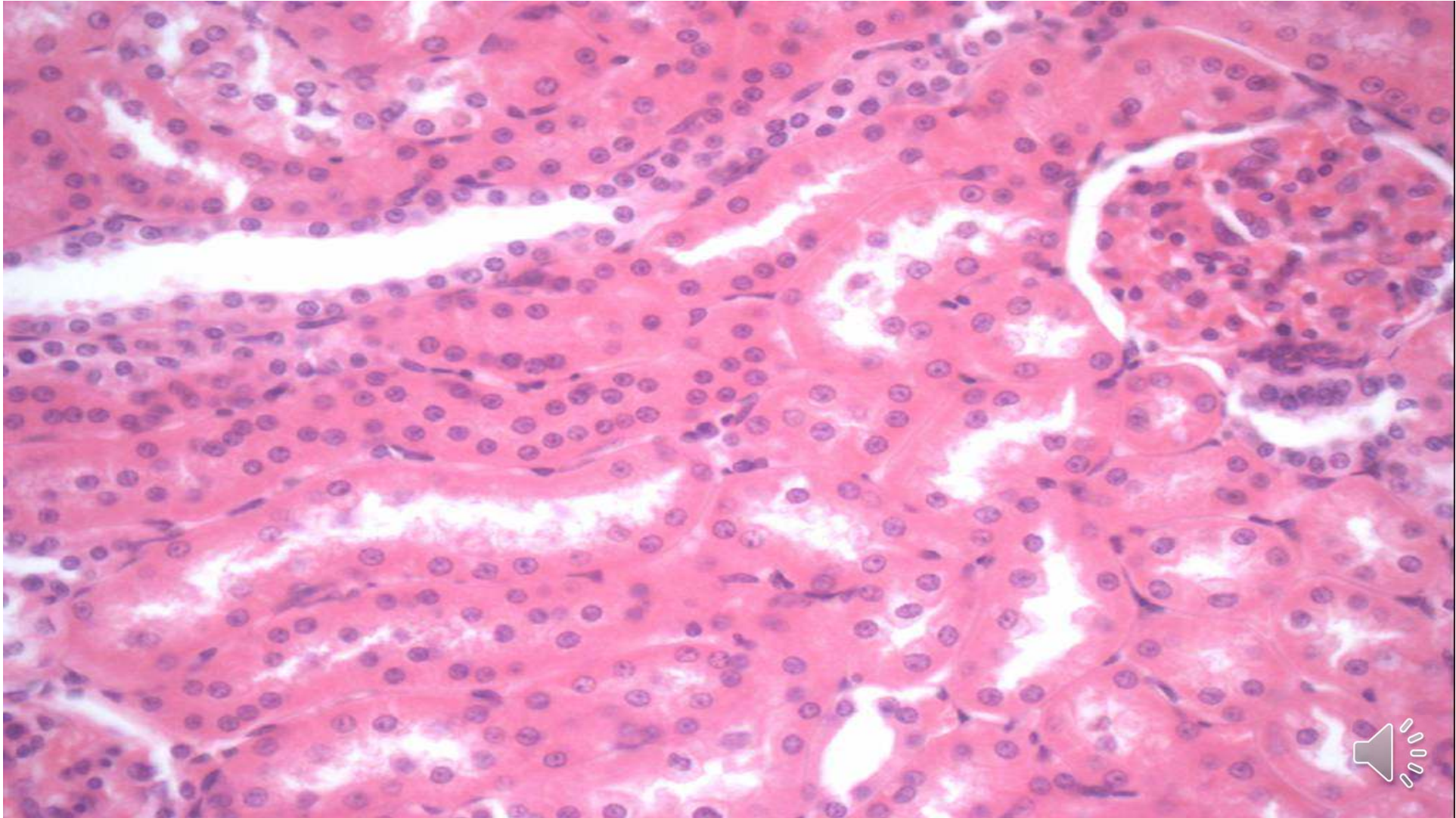
Kidney H&E

proximal tubules

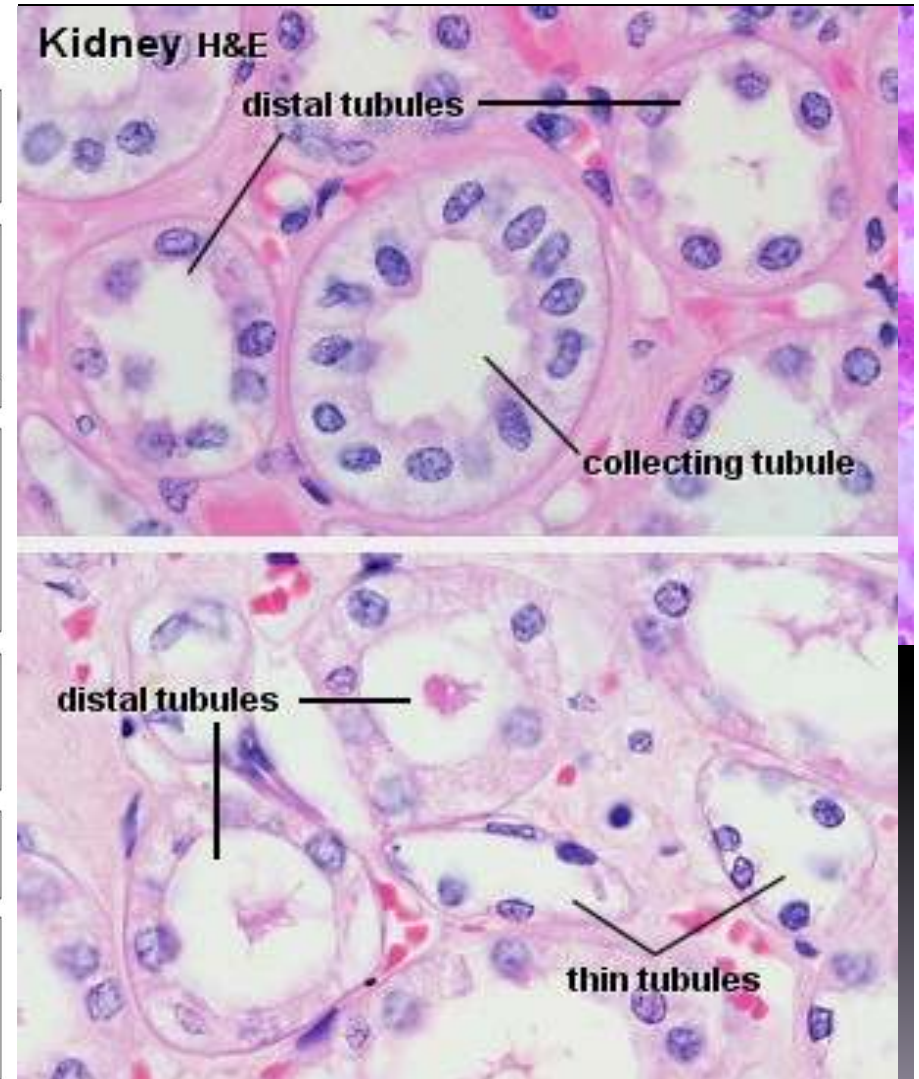
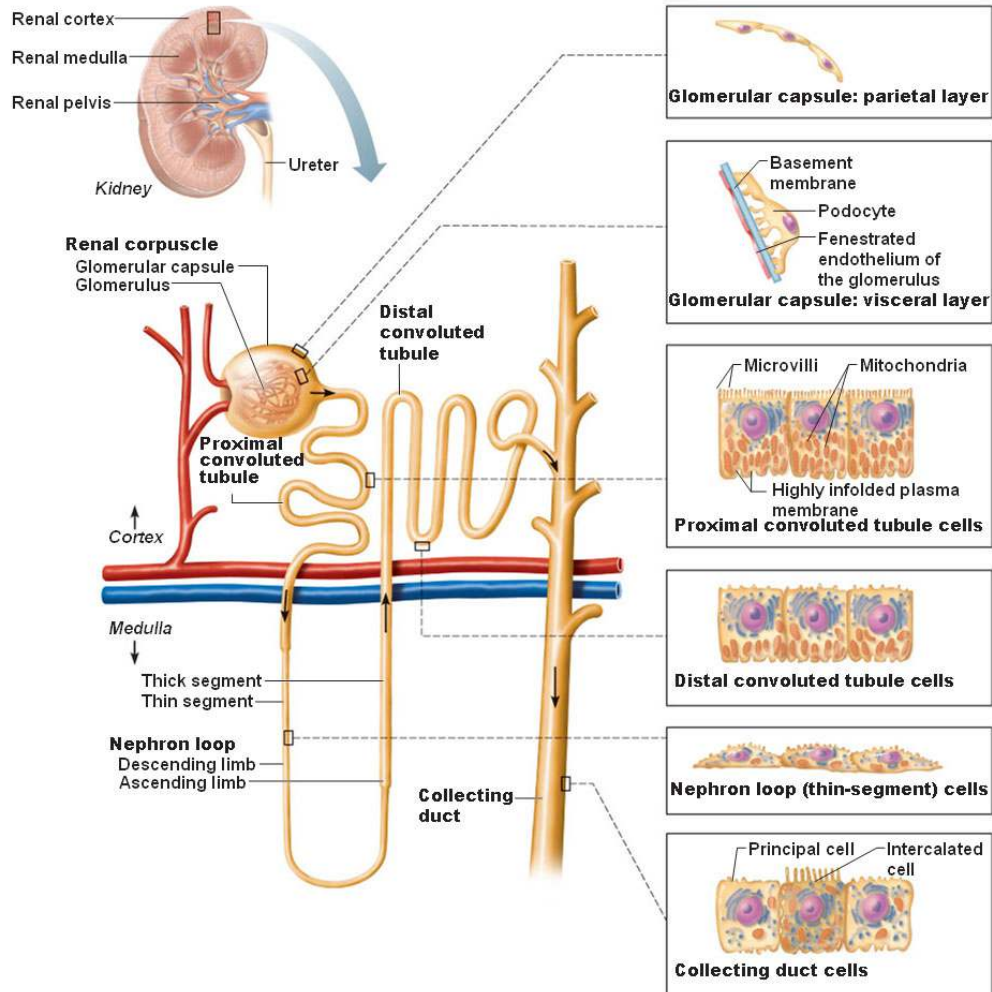
macula densa

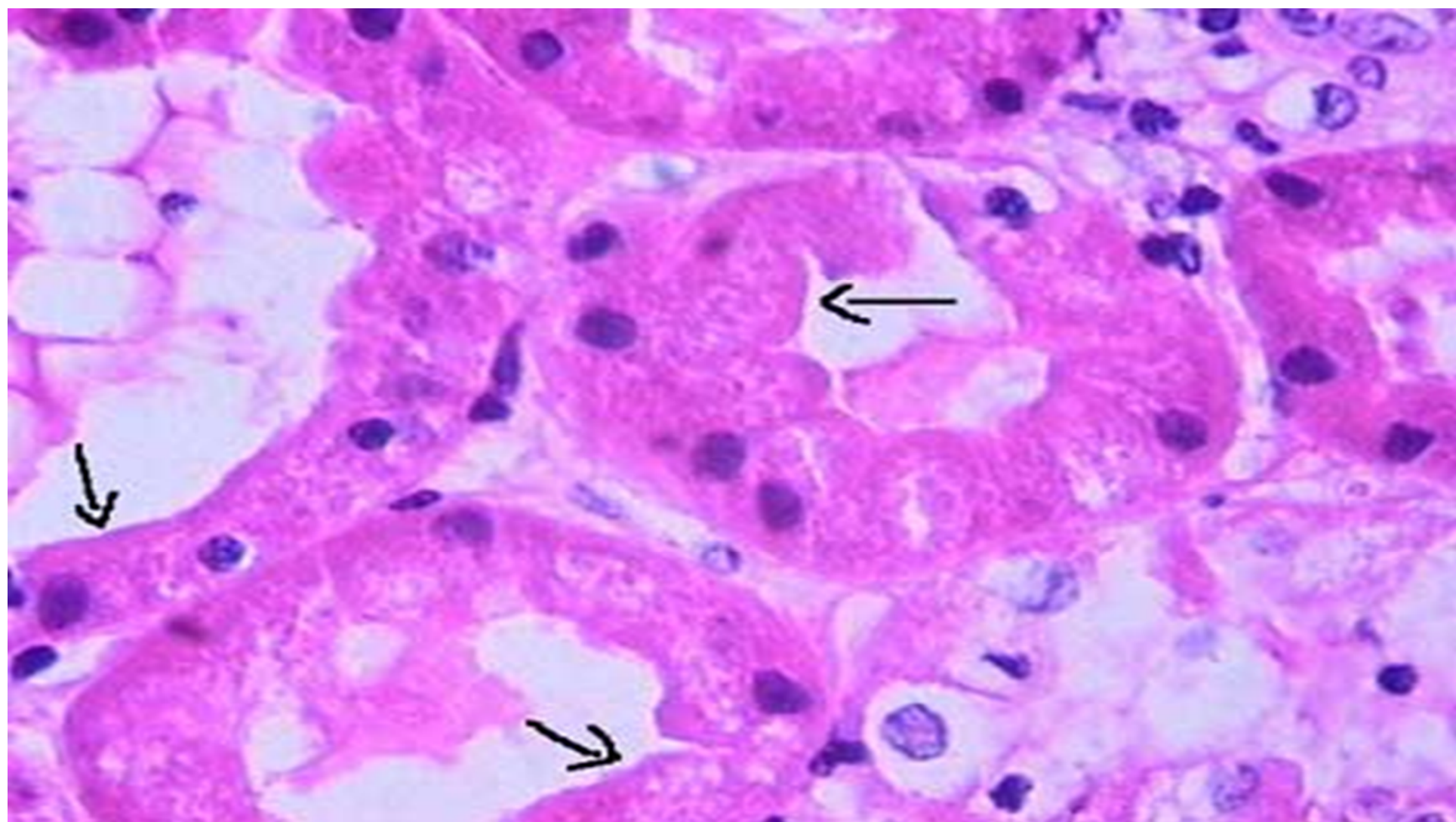
capsular space

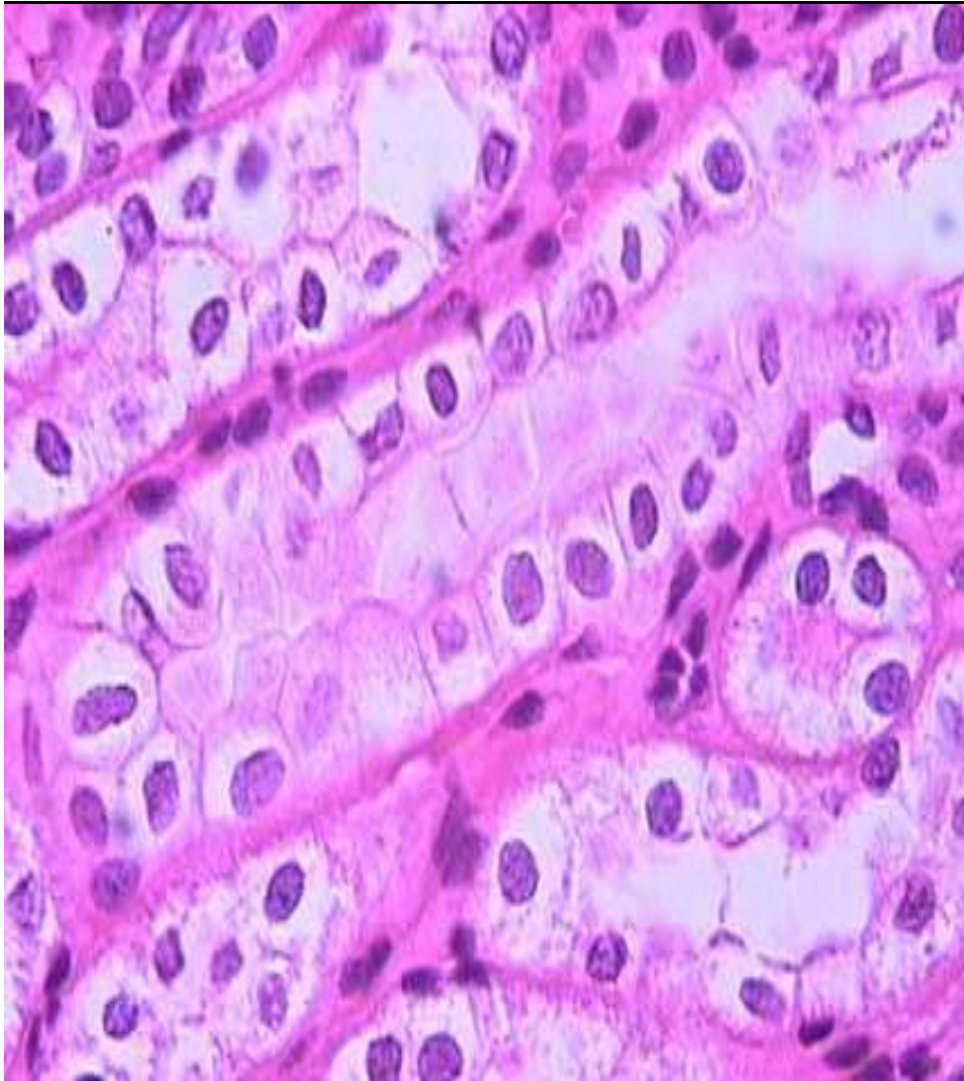




Renal Tubule

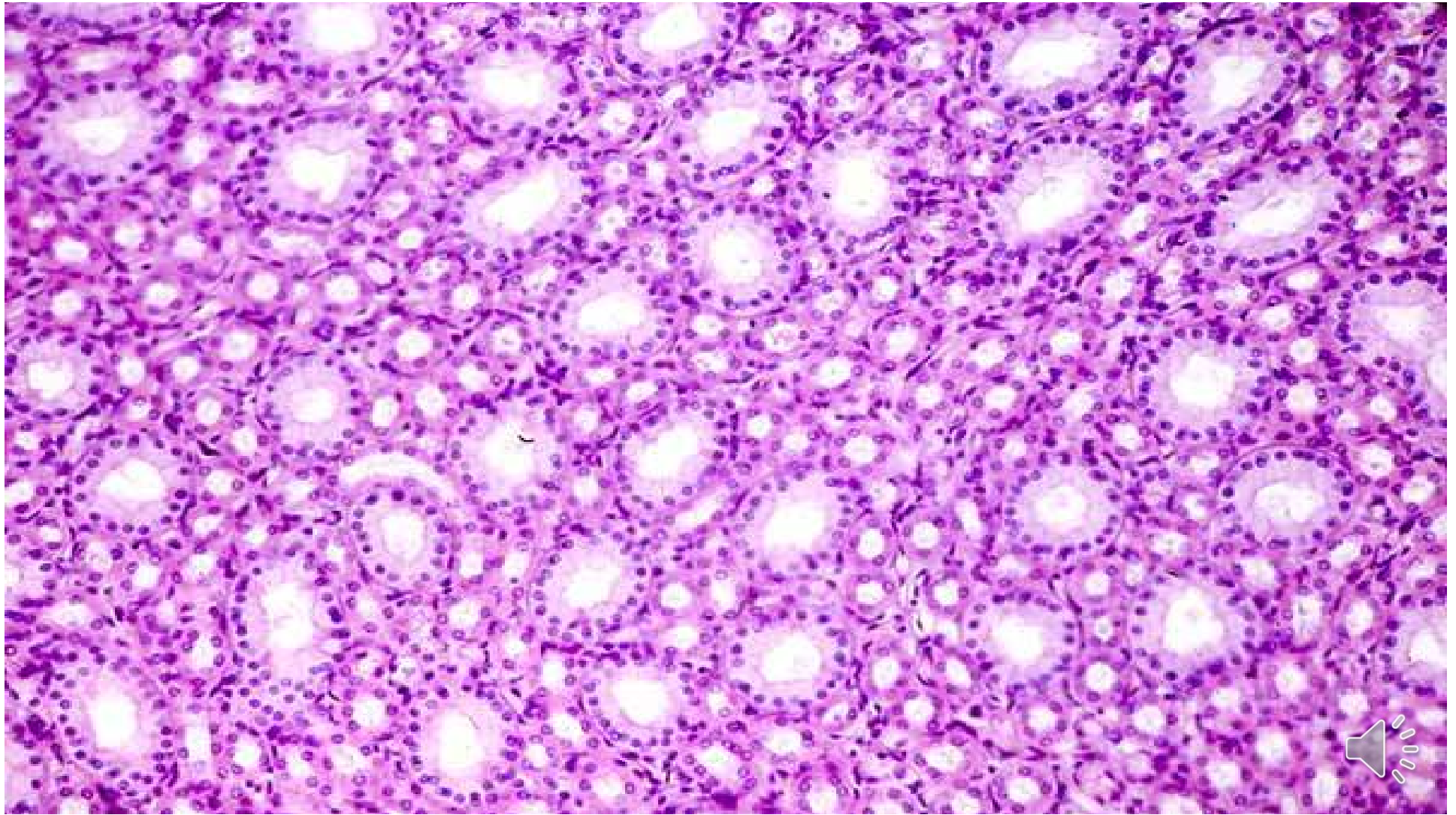


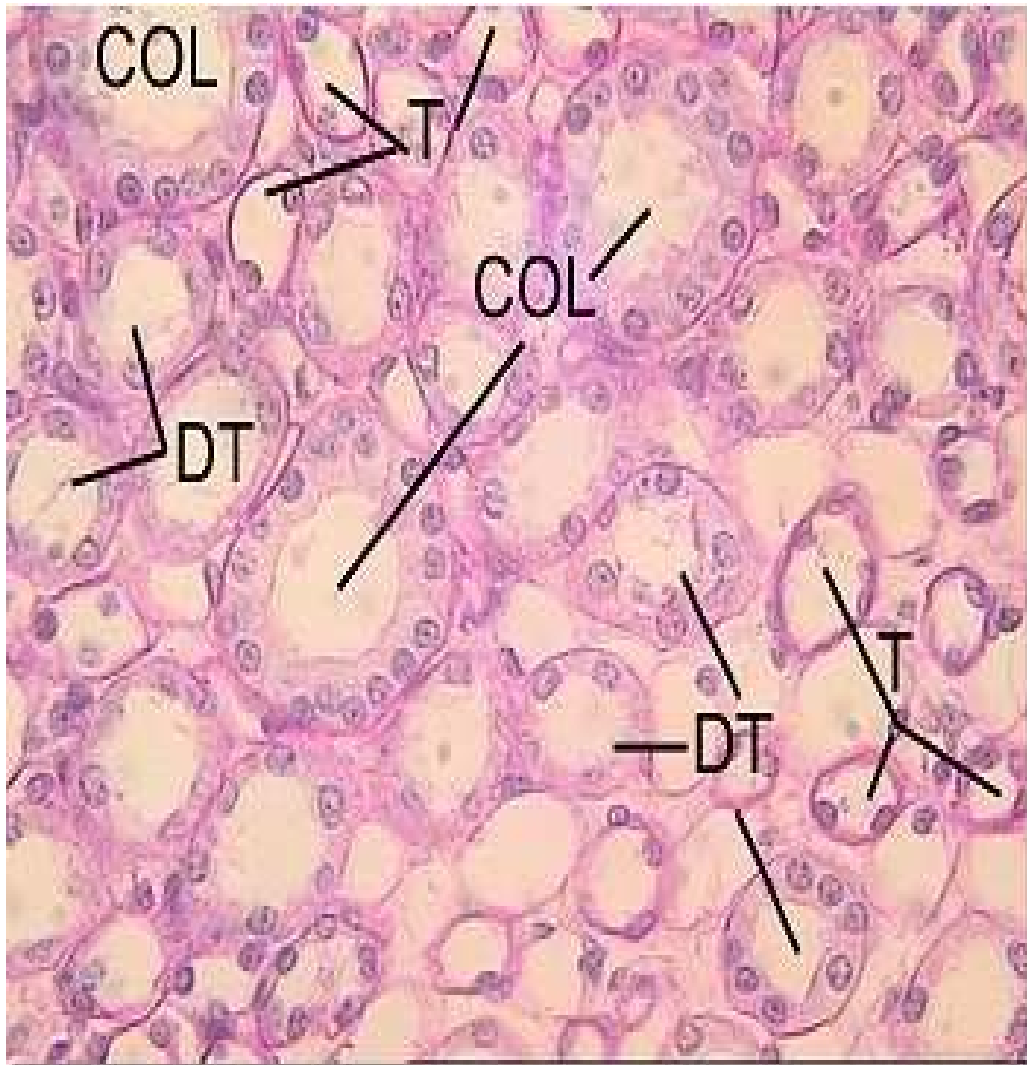




collecting duct cells.

Distal tubule cells gradually change to collecting duct cells and the histologic aspect, in many cases, do not permit differentiate between cells of this portions of the nephron with light microscopy. (H&E, X400).





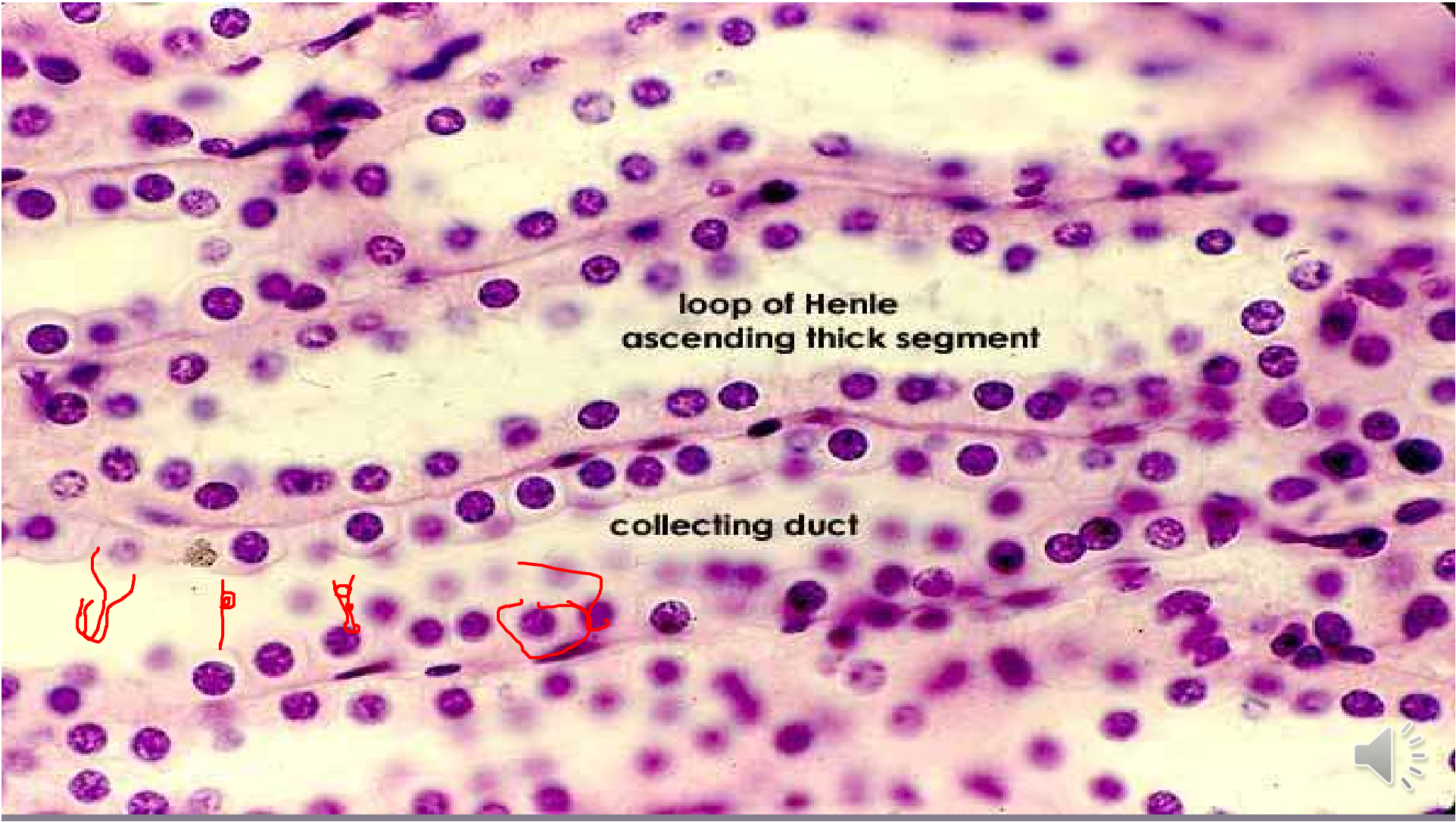
Renal Tubules

COL = Collecting Tubule

DT= Distal Tubule

**T= Thin segments of the
Loop of Henle**



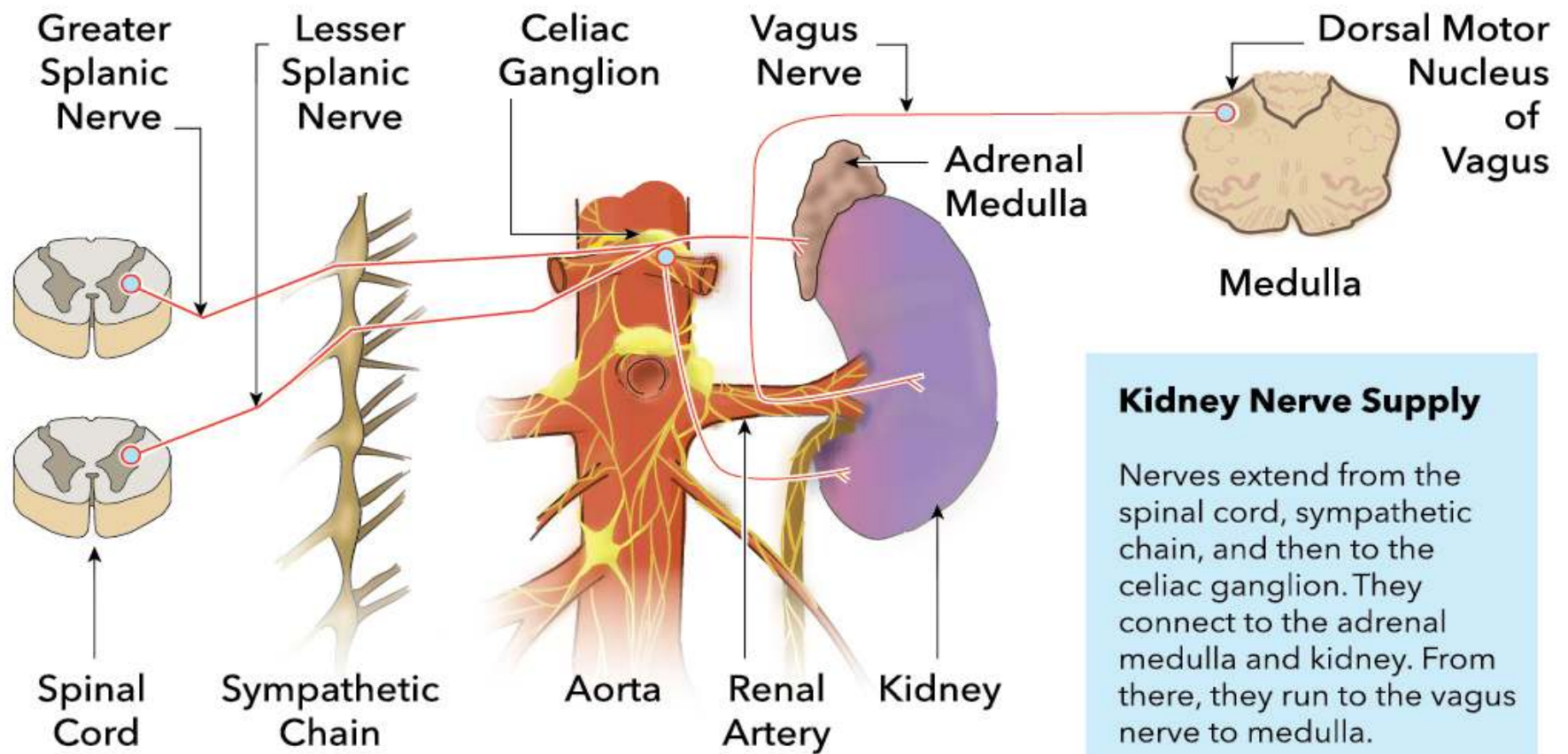


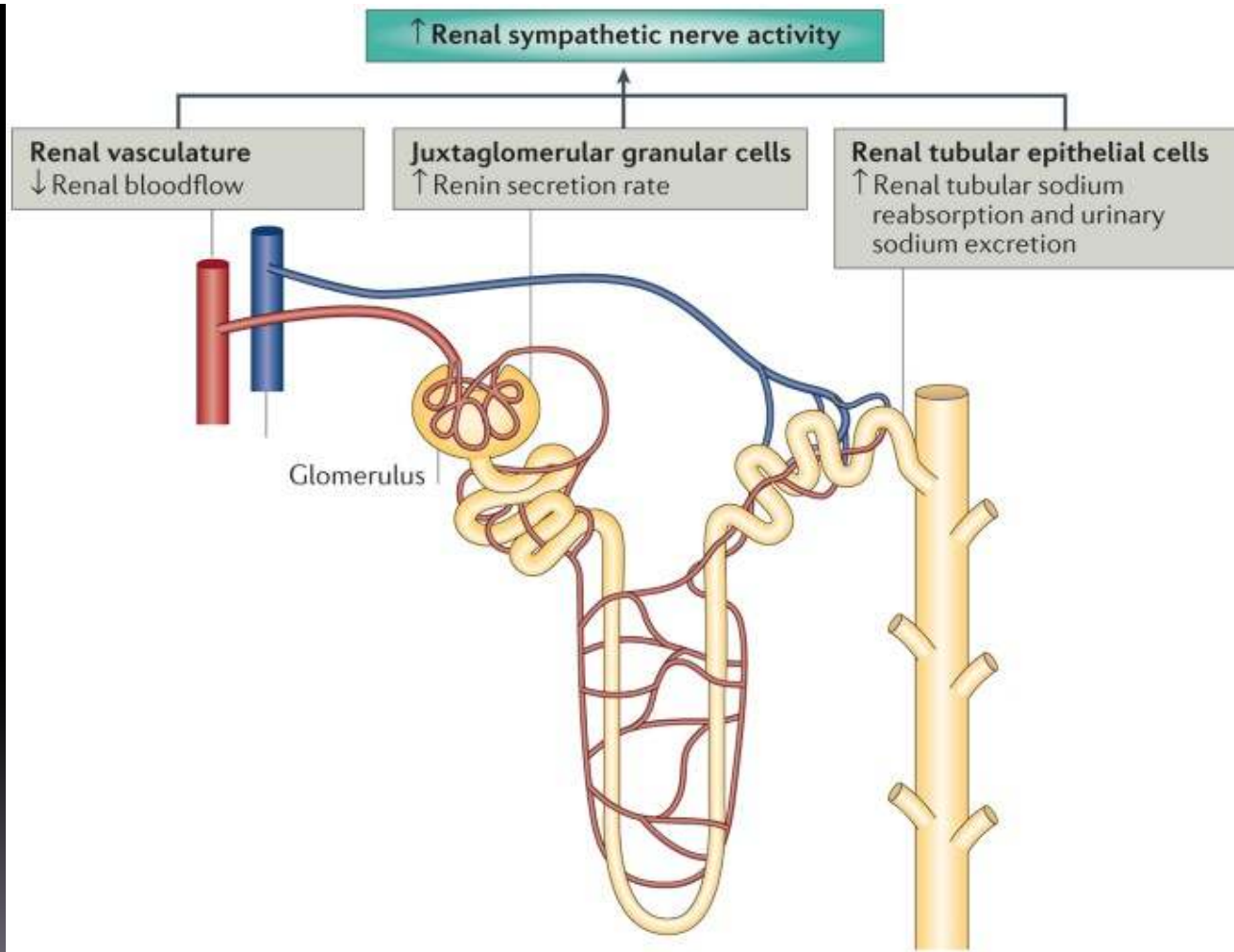
loop of Henle
ascending thick segment

This histological micrograph shows a section of kidney tissue. The central feature is the 'loop of Henle', which is a U-shaped structure. The 'ascending thick segment' is the part of the loop that is straight and oriented towards the top of the image. The surrounding tissue is composed of various cells, with many having prominent, dark purple nuclei. The overall color of the tissue is a pale pinkish-yellow.

collecting duct

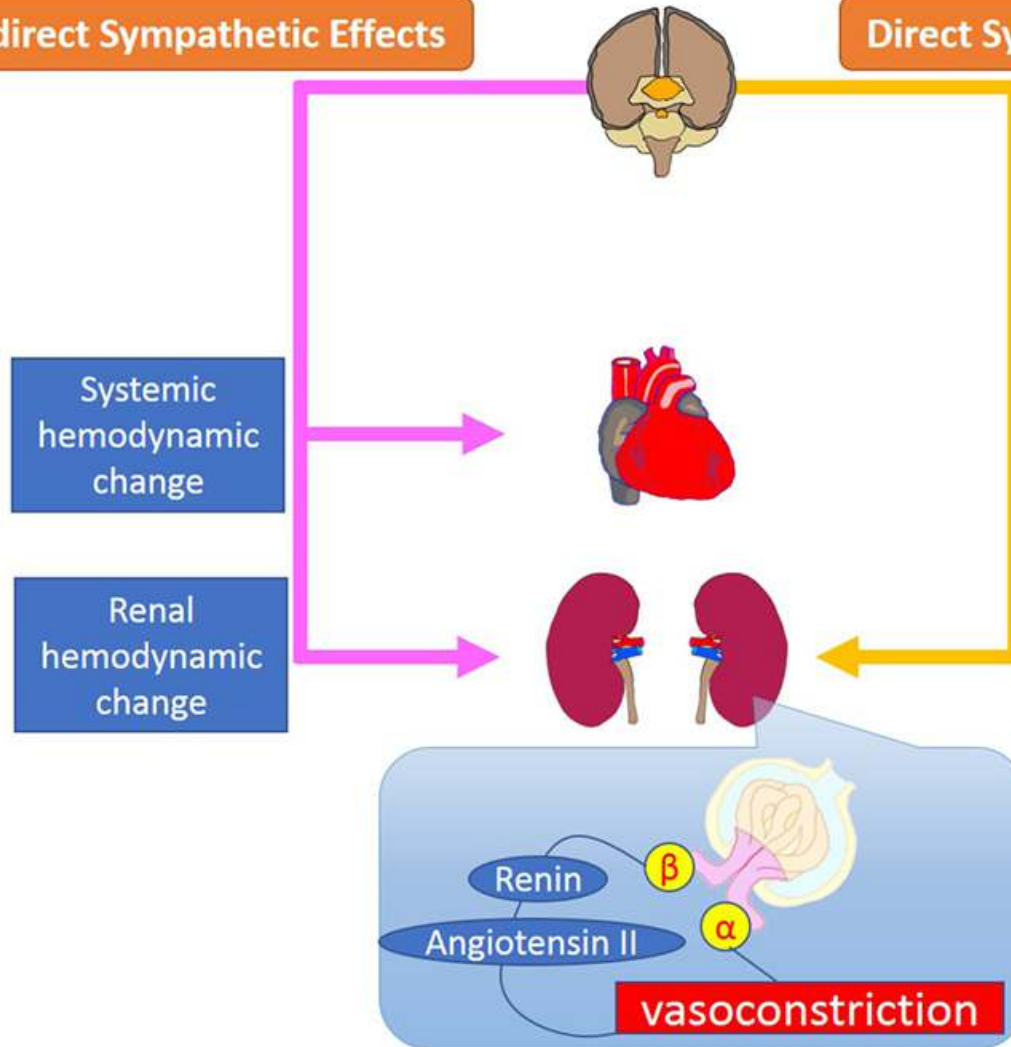
Hand-drawn red annotations are present in the lower-left area of the image. These include a wavy line, a vertical line with a small square at its base, a small vertical line with a crossbar, and a larger, more complex looped structure. A small speaker icon is located in the bottom right corner of the image.



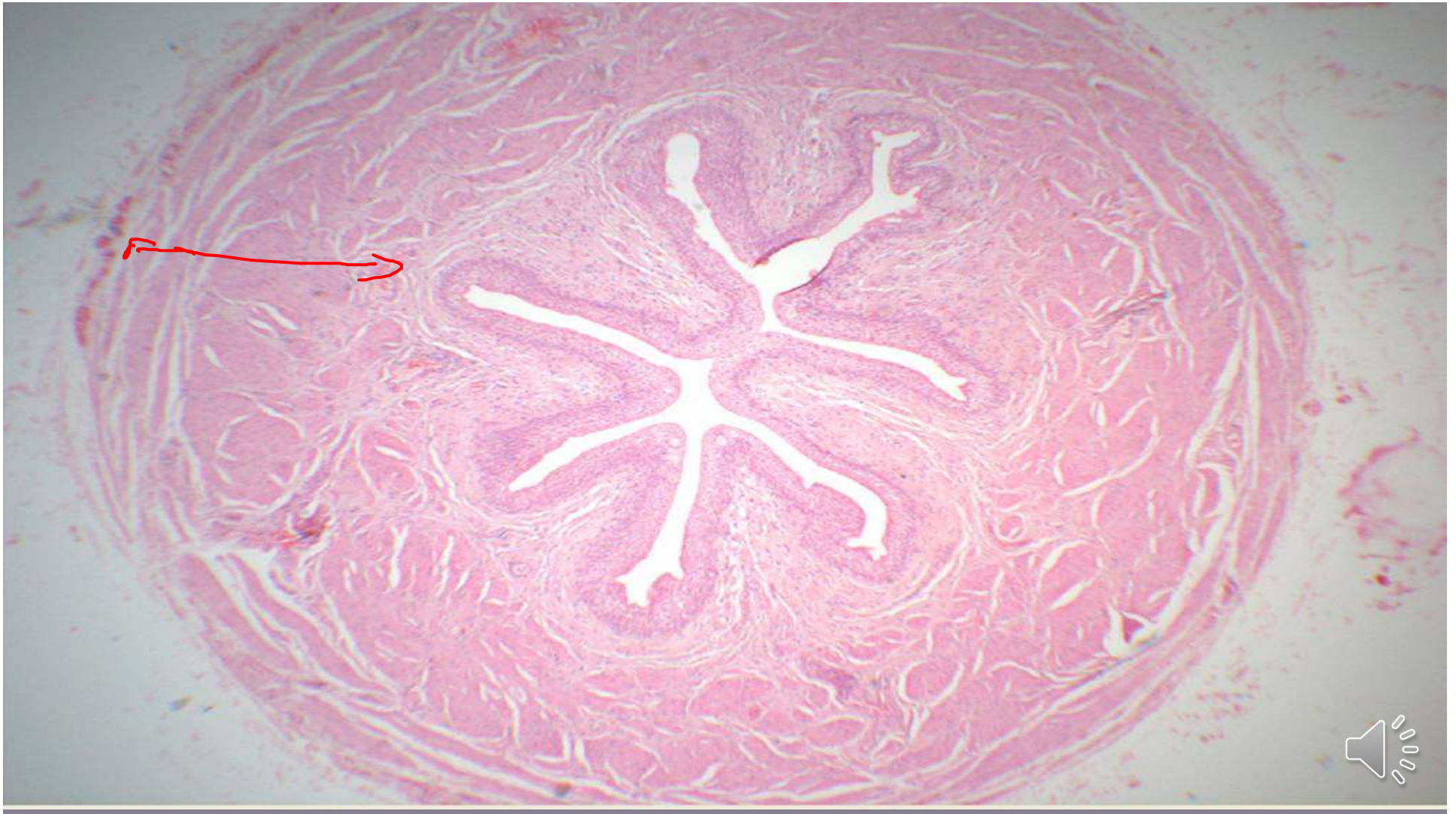


Indirect Sympathetic Effects

Direct Sympathetic Effects

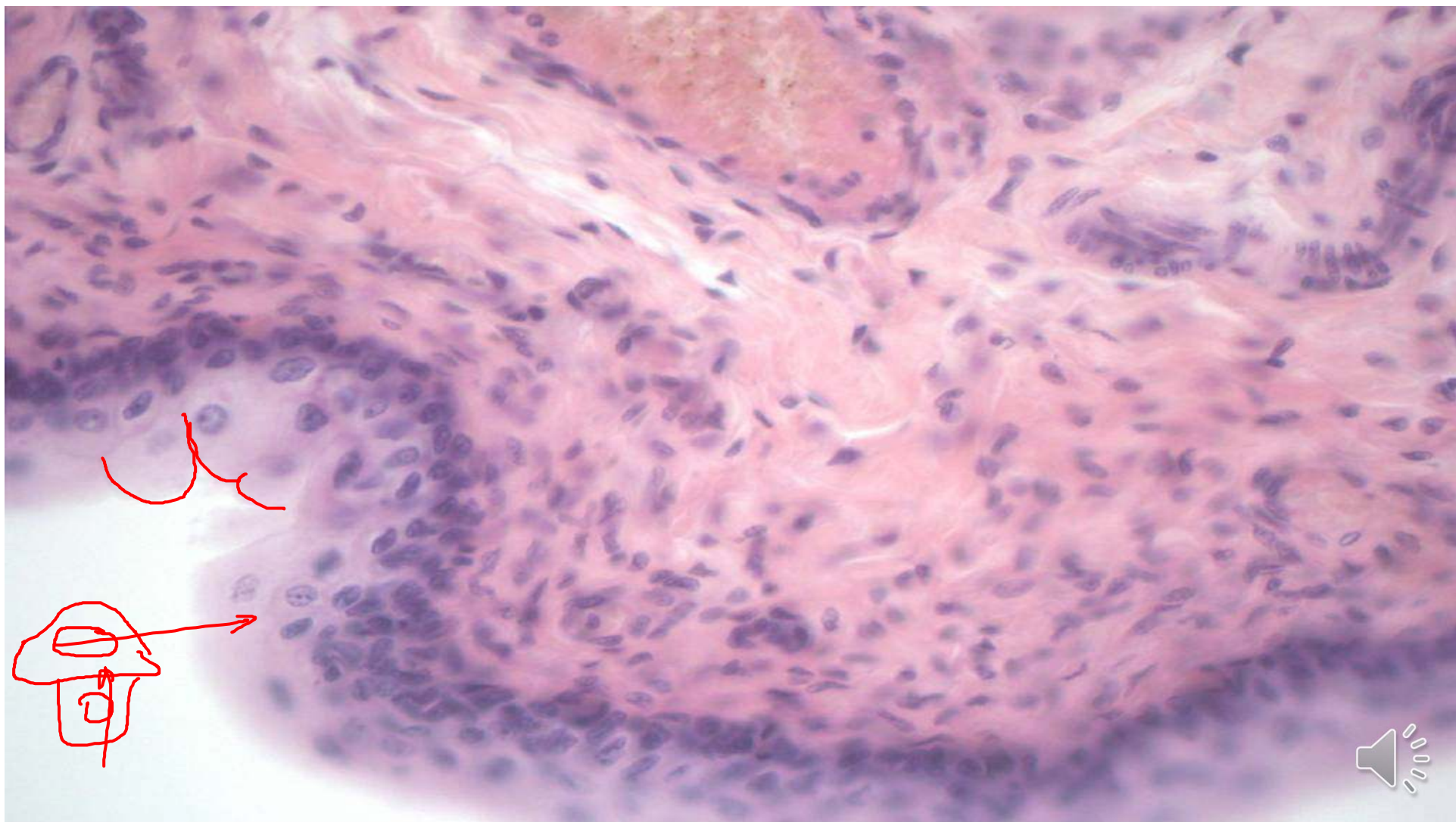


	action	receptor
renal artery	constriction	α_1, α_2
	dilation	D_1
renin secretion (Juxtaglomerular cell)	\uparrow	β_1
	\downarrow	α_2
prostaglandin production	\uparrow	α_1
proximal tubule		
sodium reabsorption	\uparrow	α_1, α_2
	\downarrow	D
HCO_3^- reabsorption	\uparrow	α_1
Na-H counter transport	\uparrow	$\alpha_2 > \alpha_1$
	\downarrow	D_1
glycogenesis	\uparrow	α_1
collecting duct		
sodium reabsorption	\downarrow	α_2
chloride reabsorption	\uparrow	β
potassium secretion	\uparrow	β_1

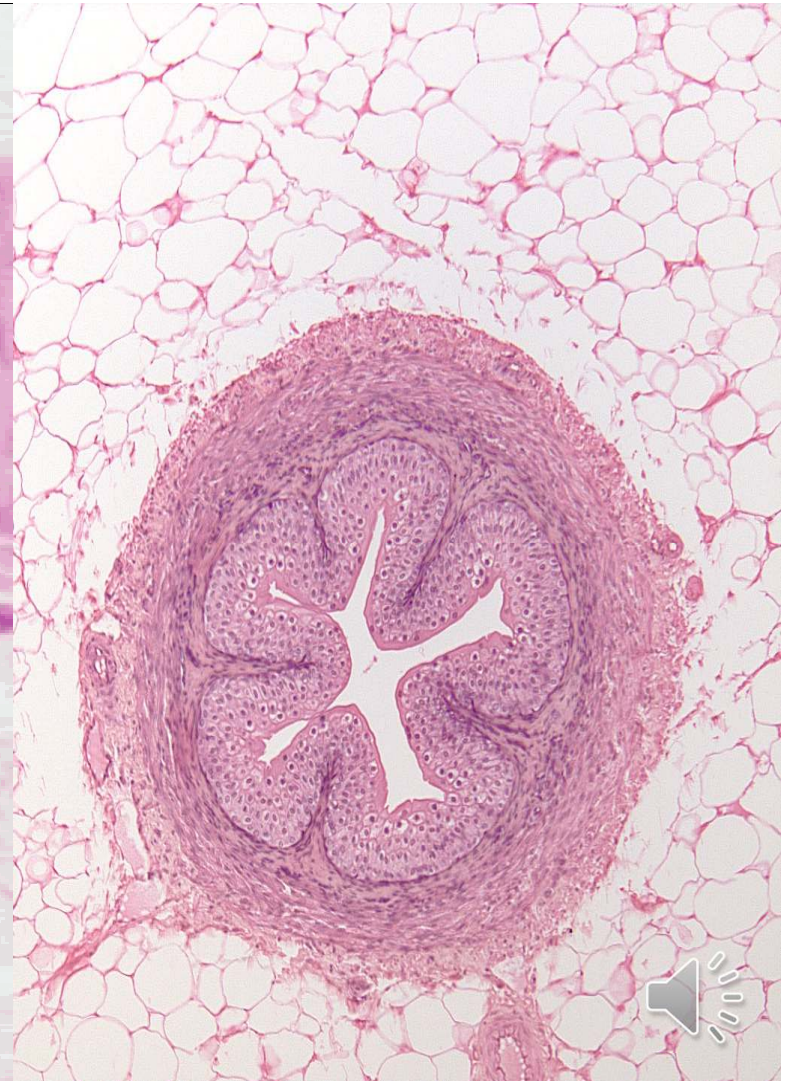
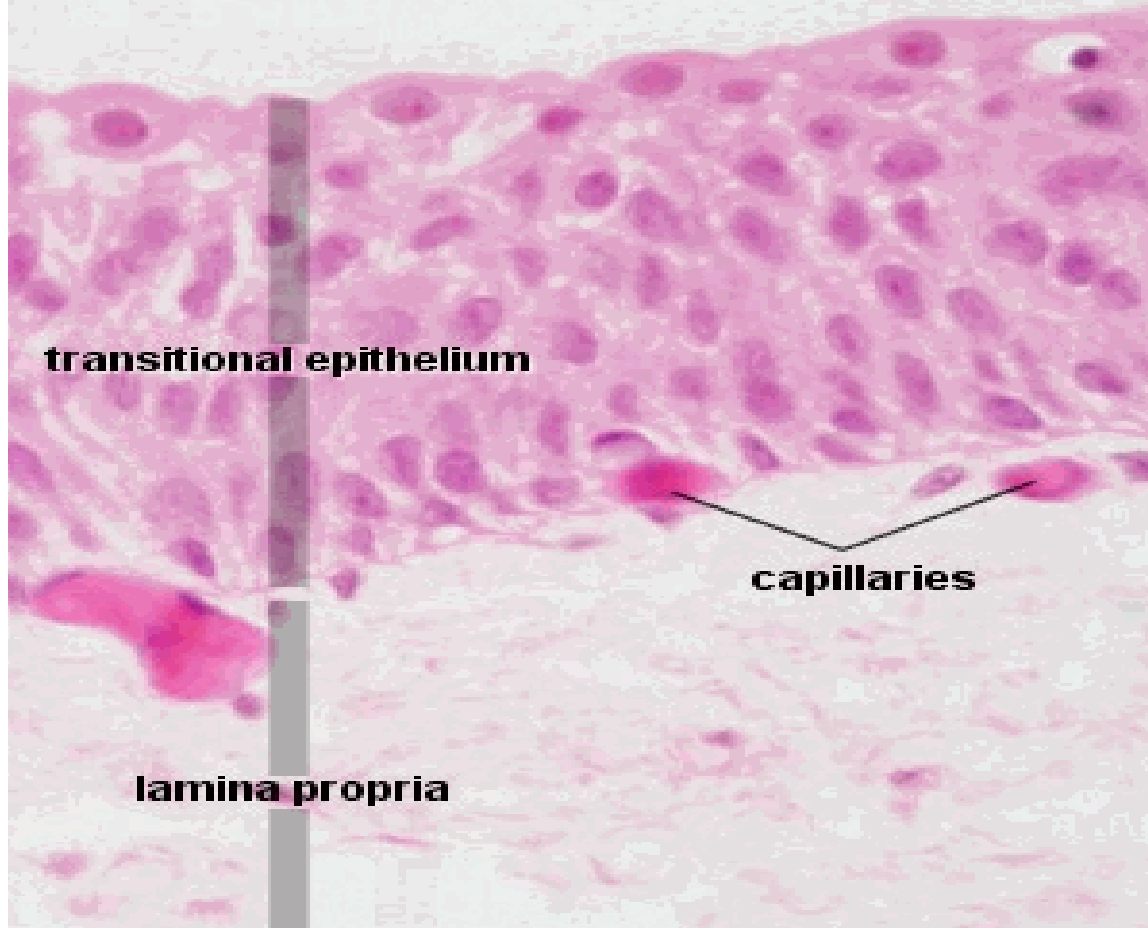


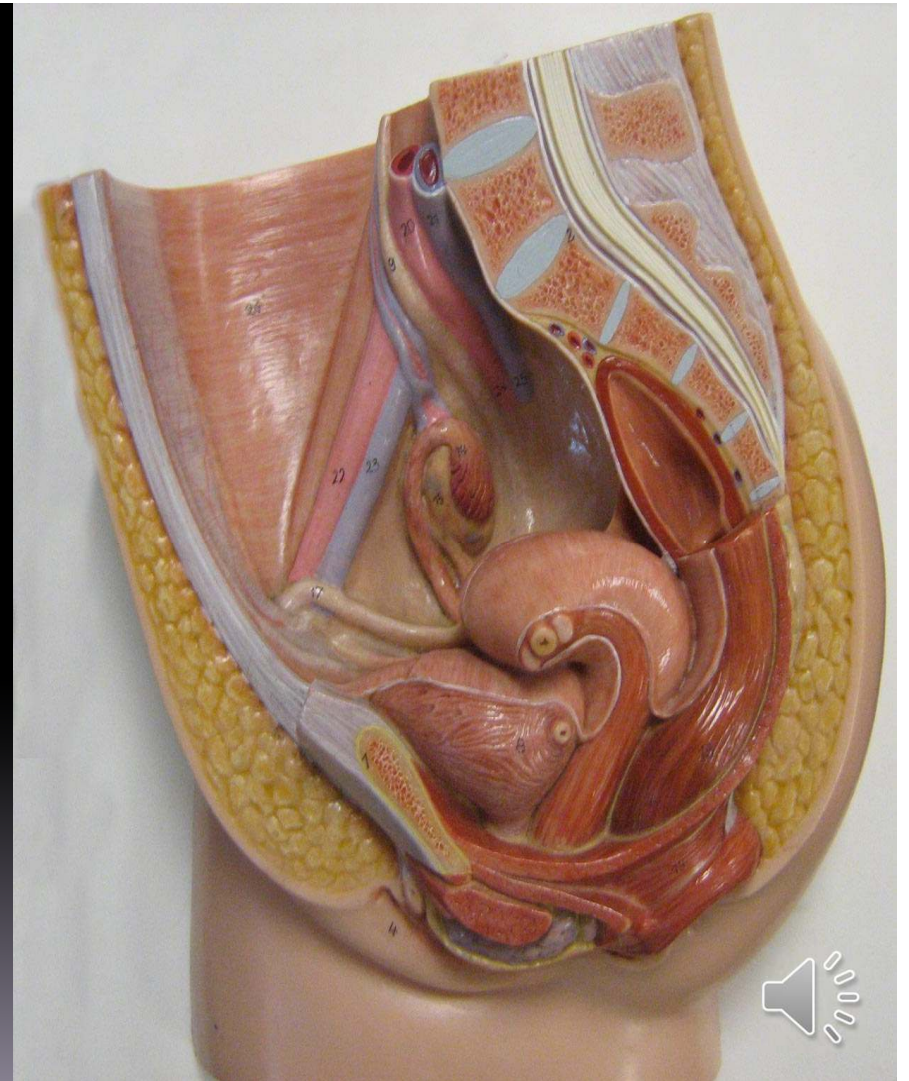
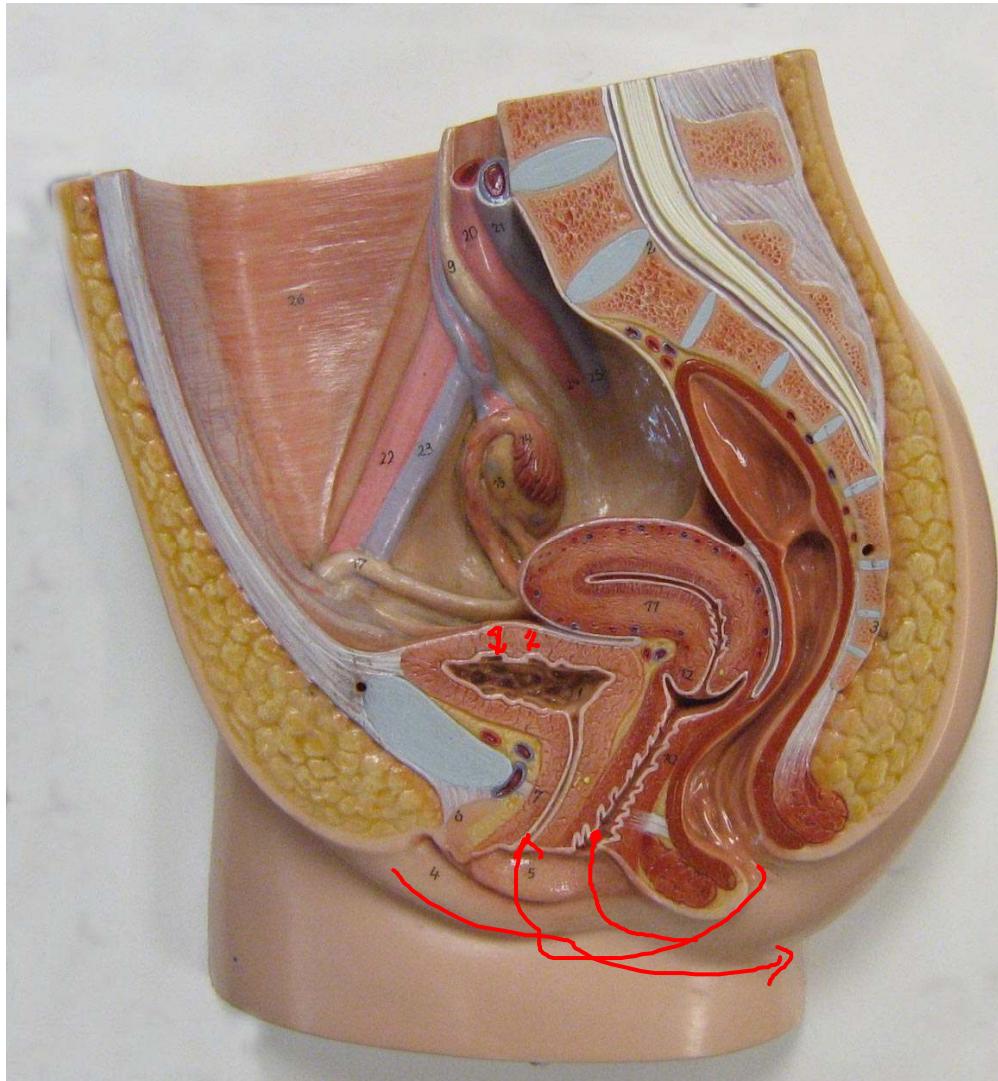


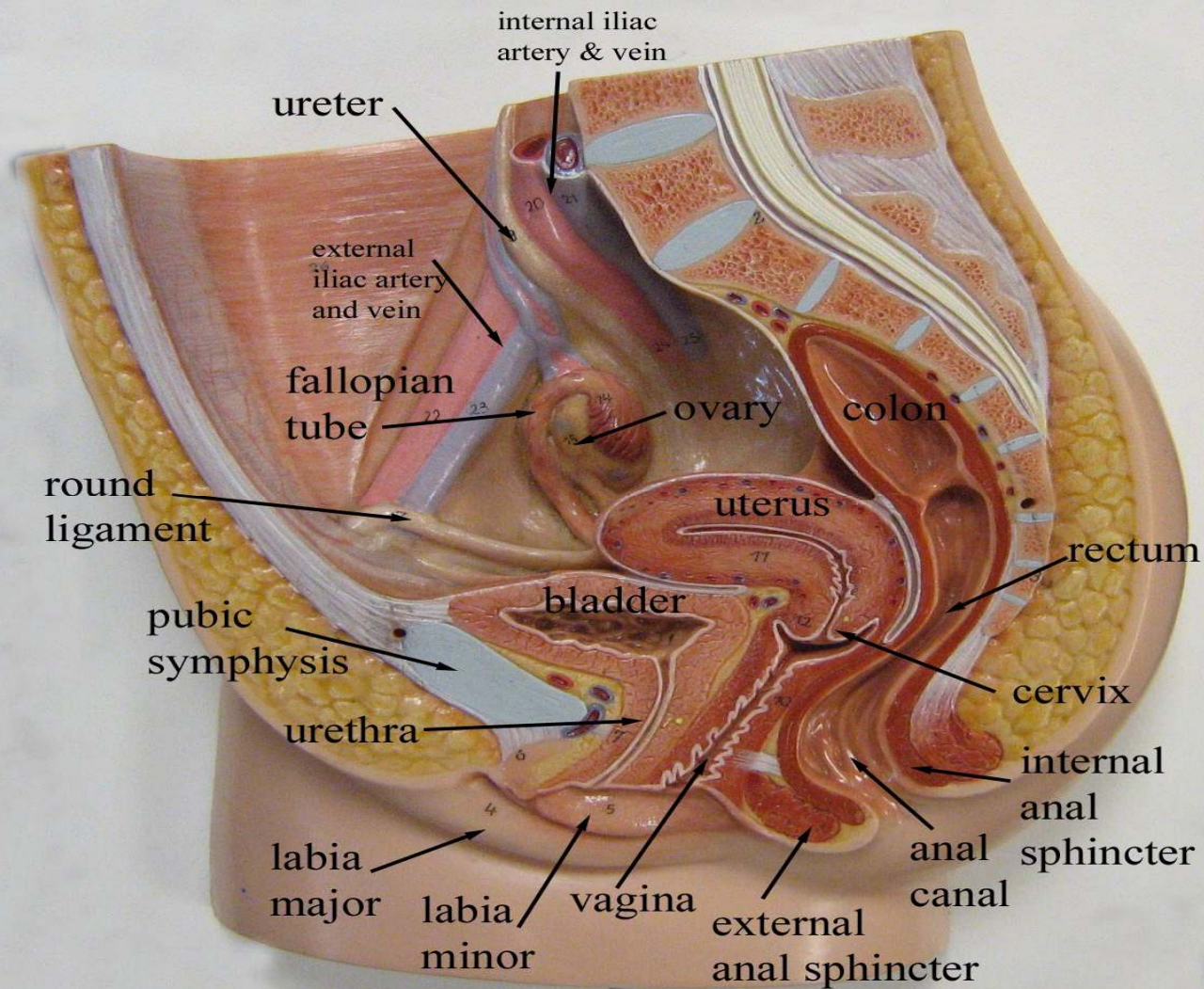


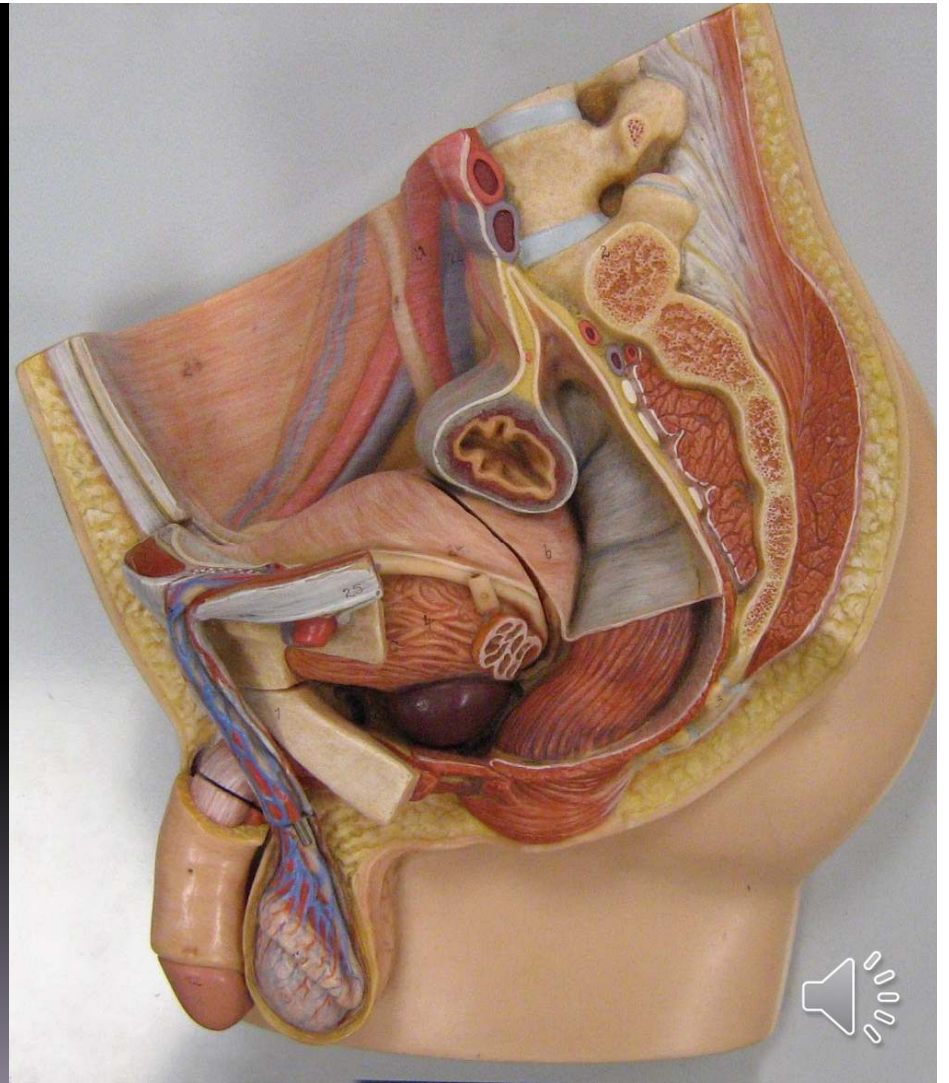
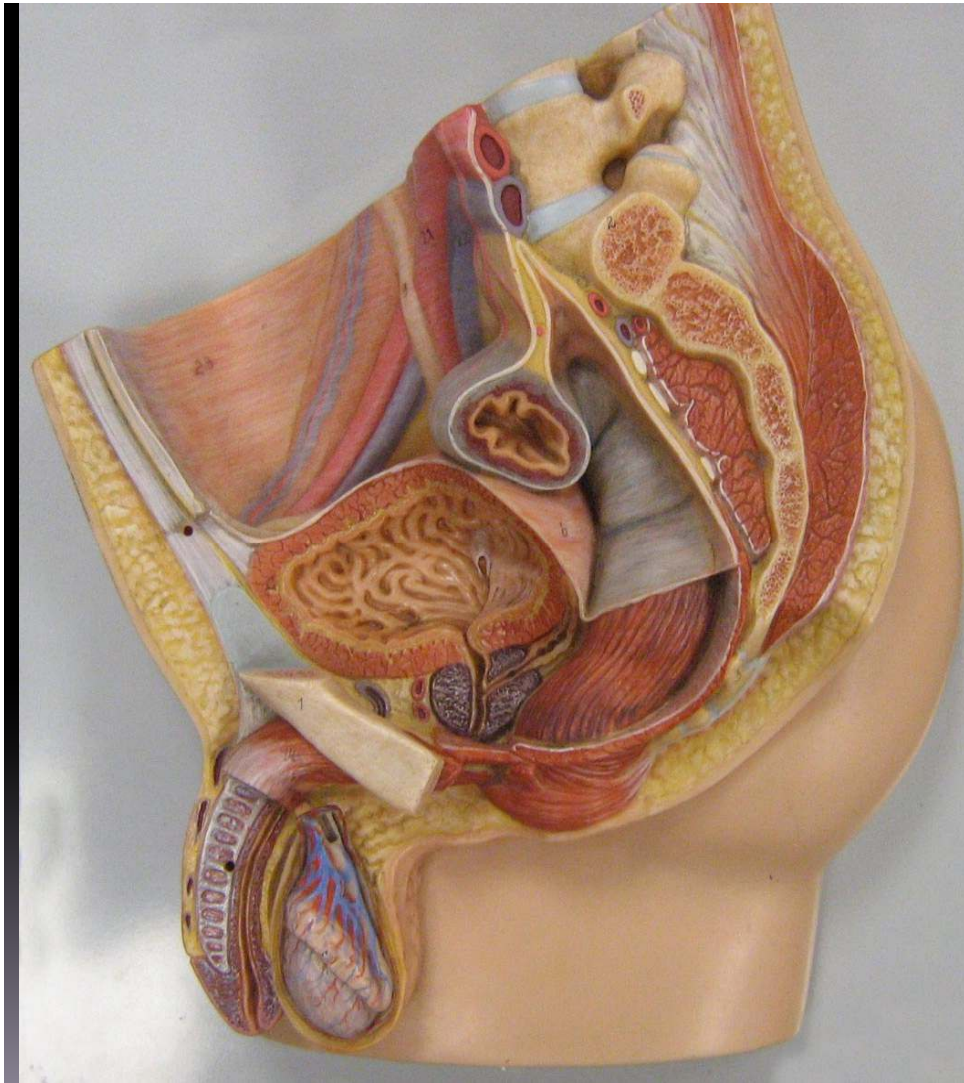


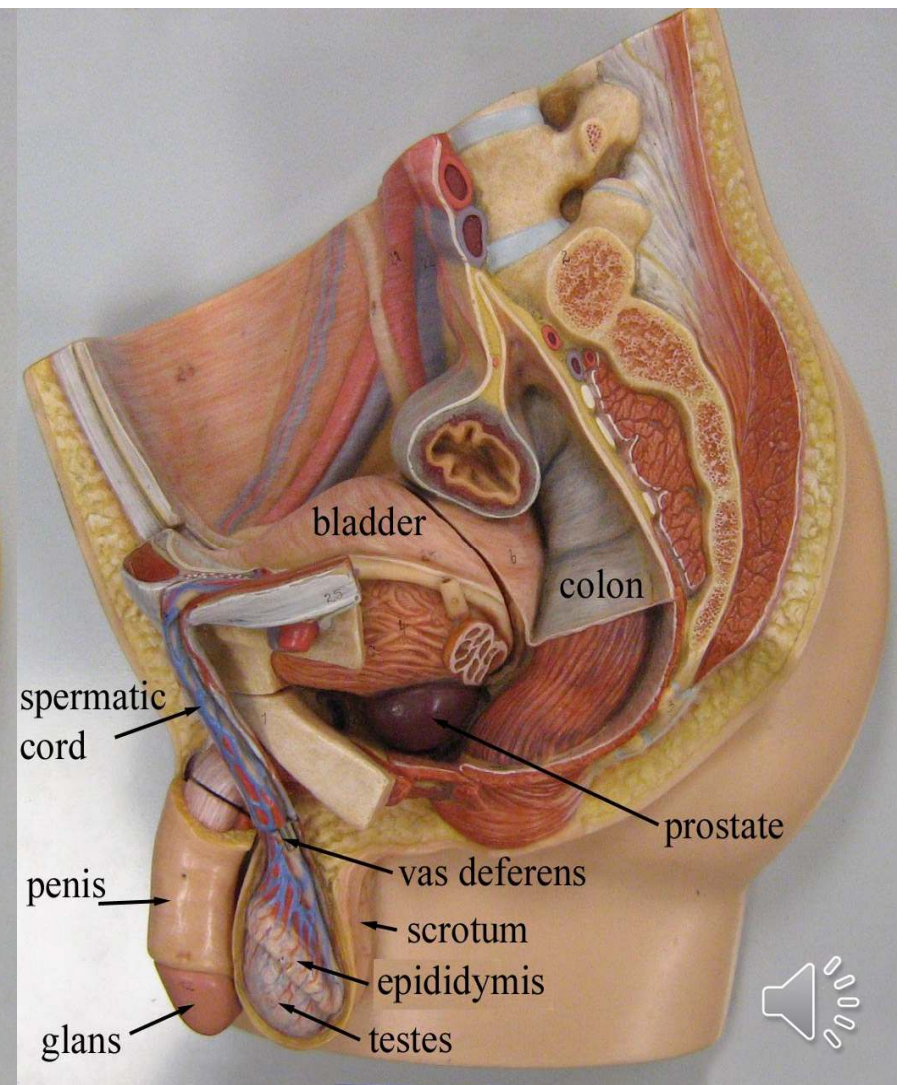
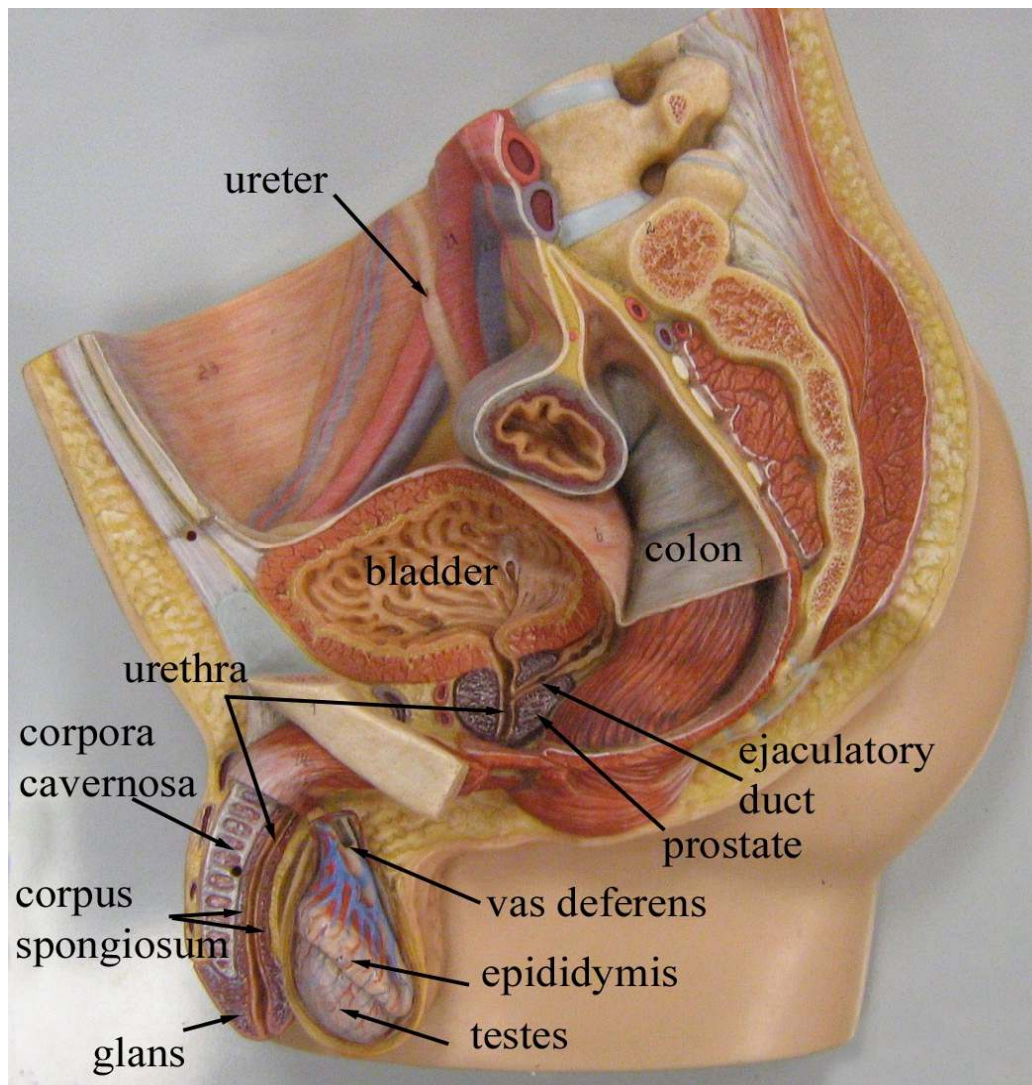
Ureter H&E



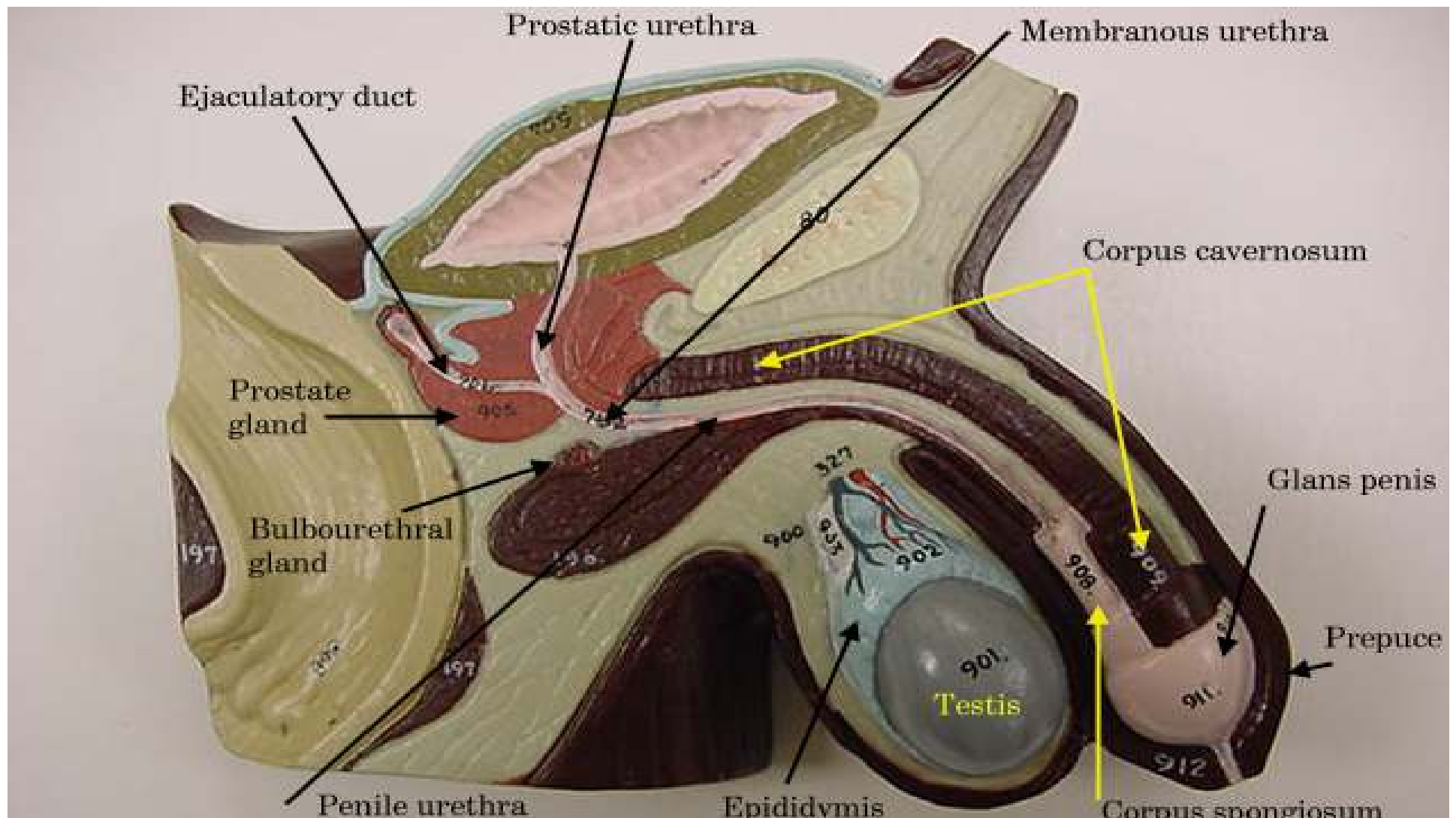




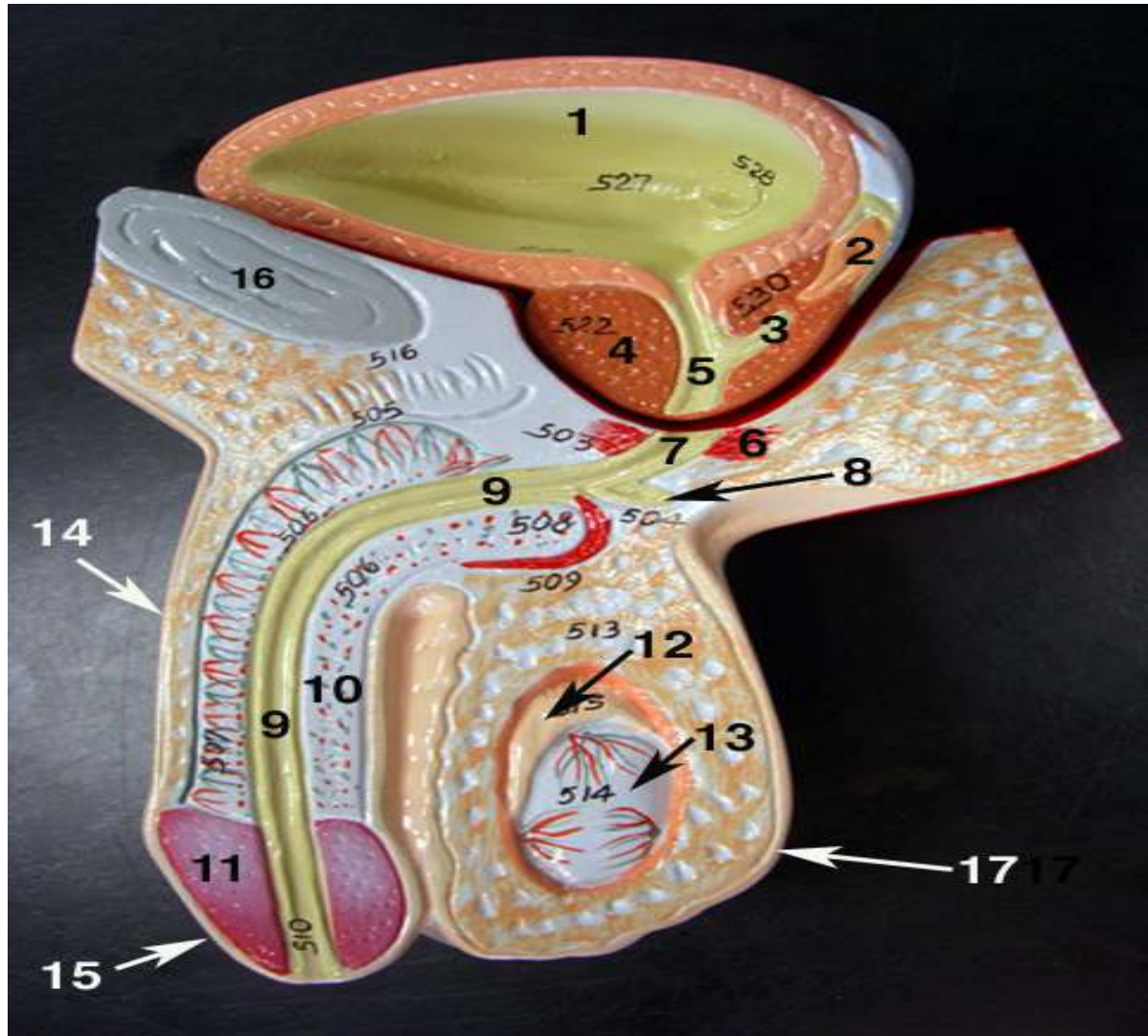




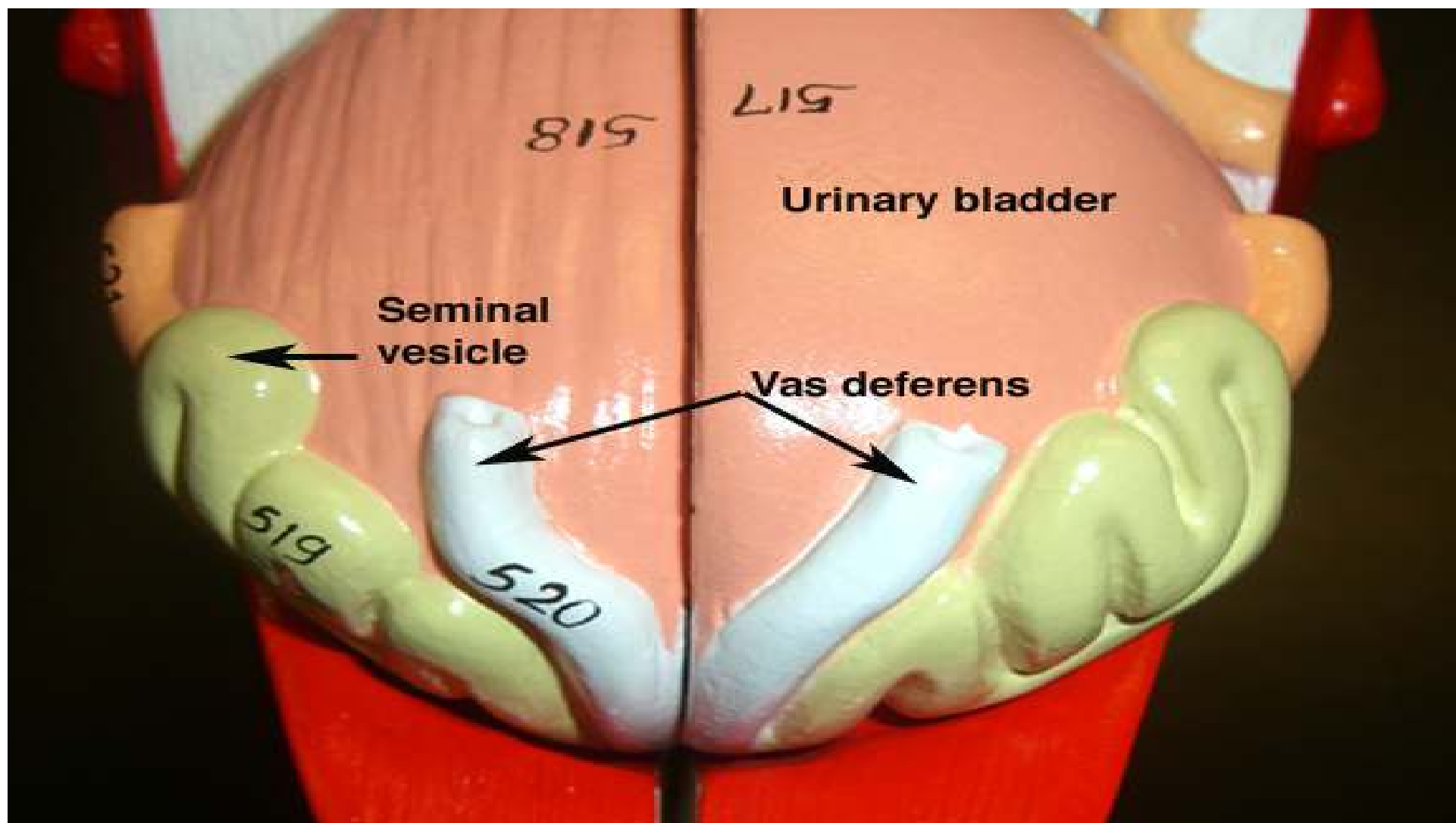


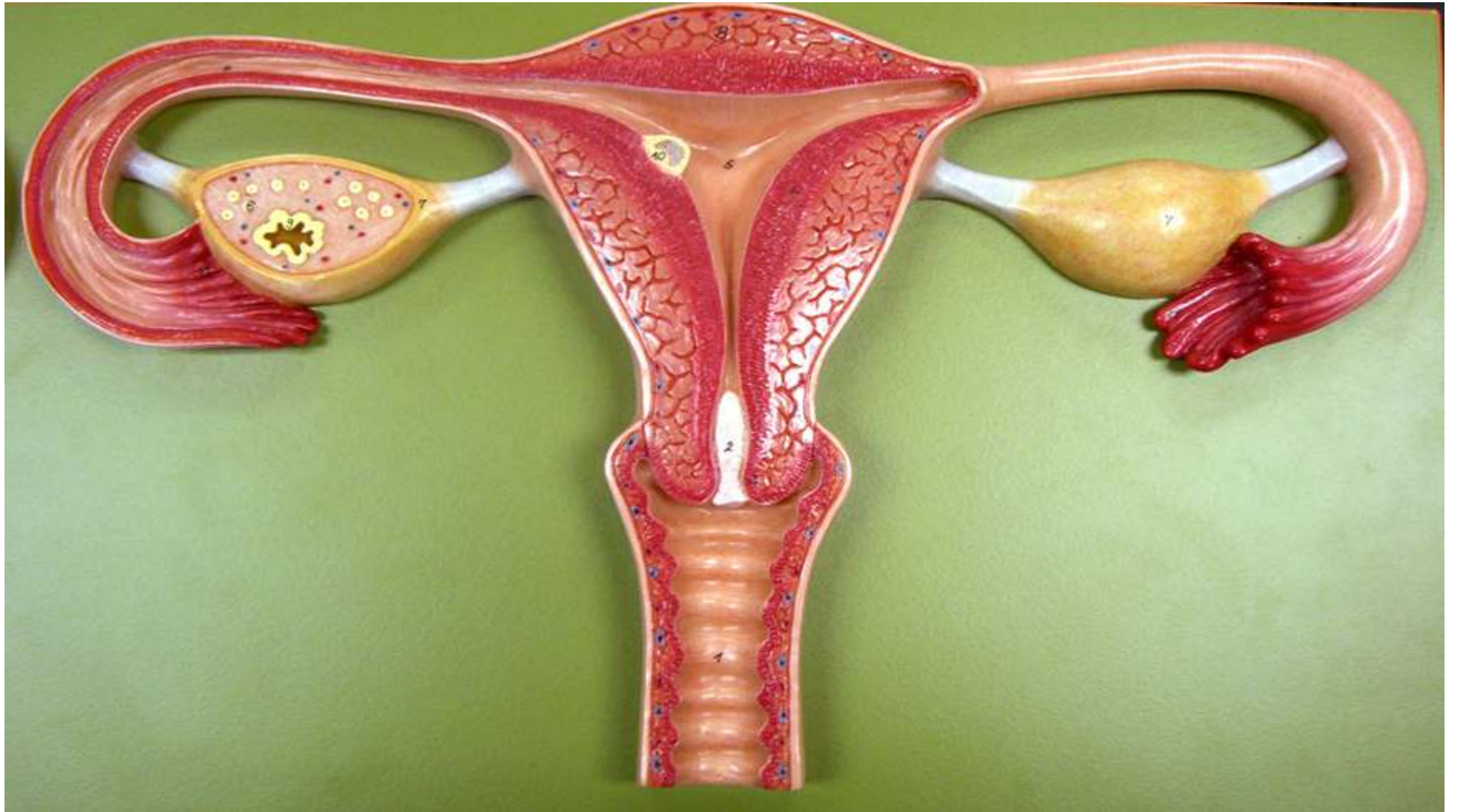


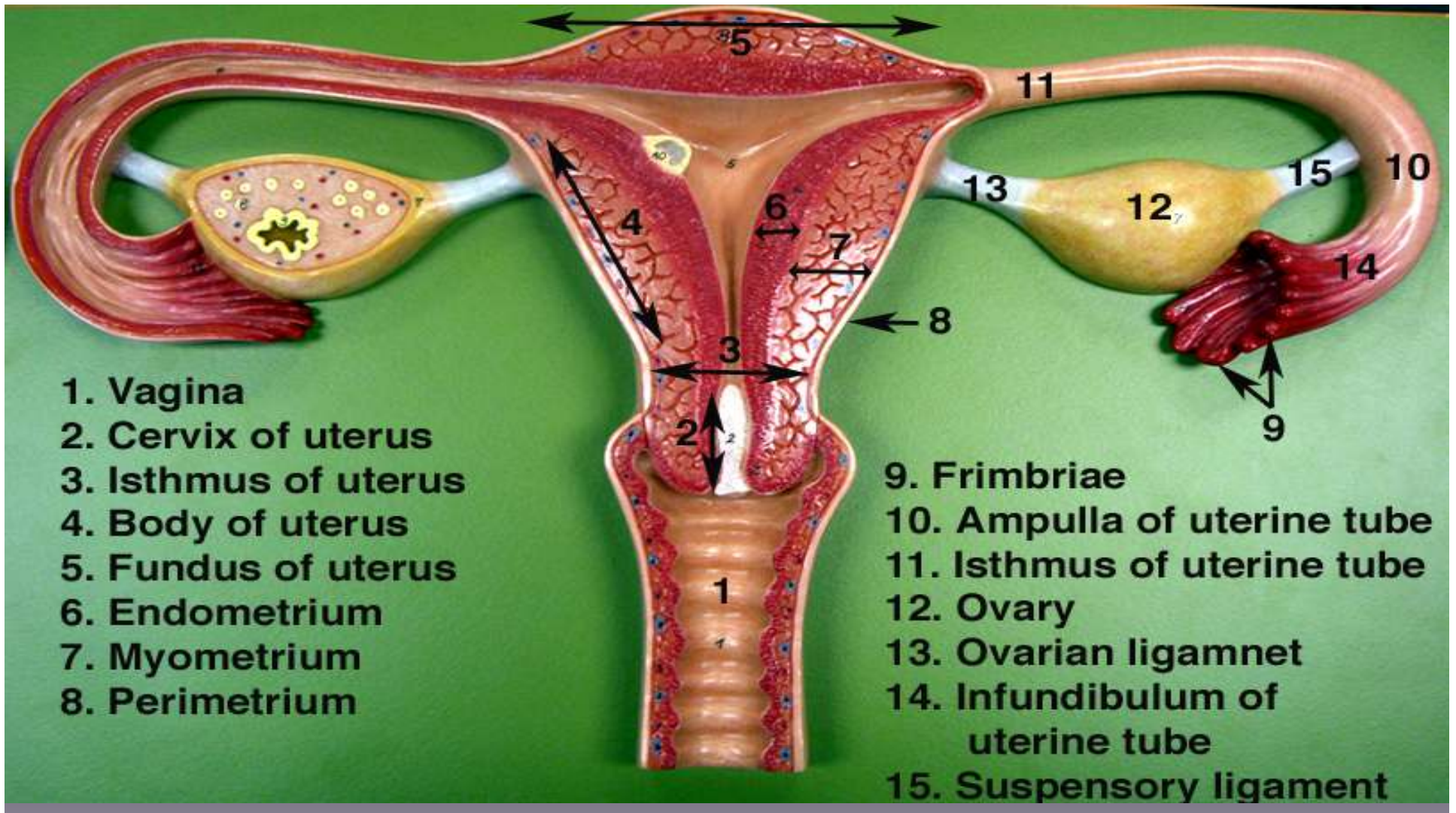


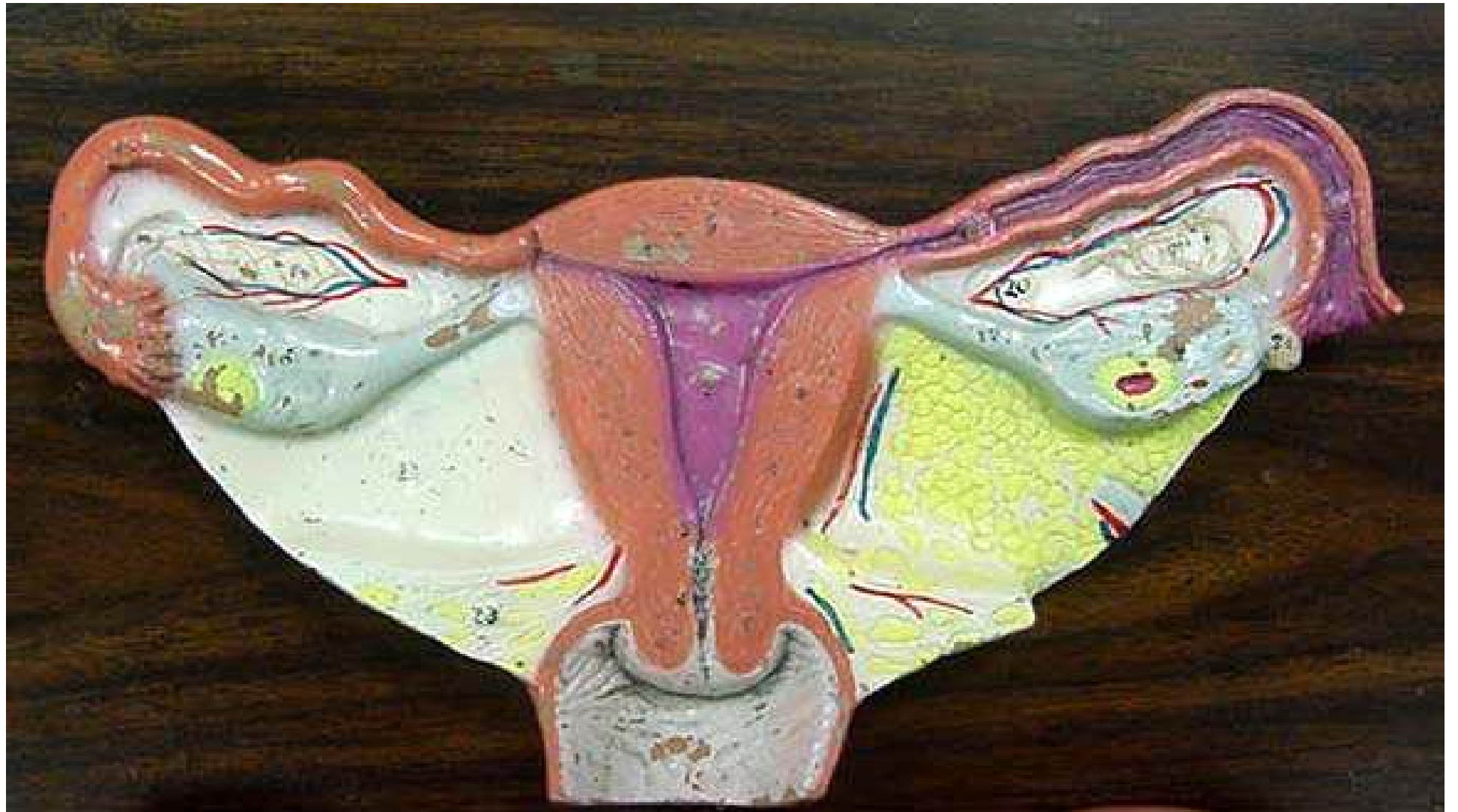


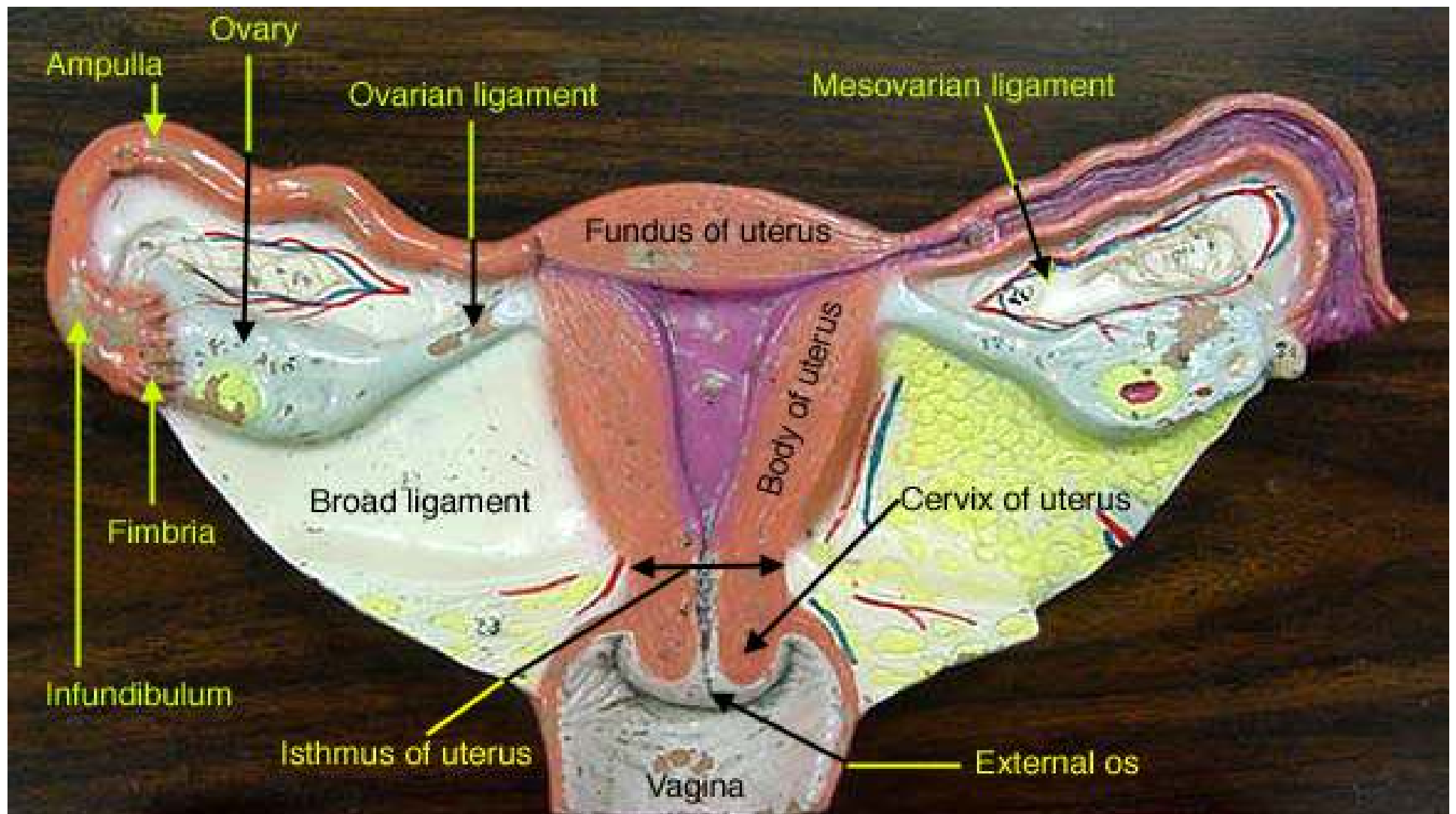
1. Urinary bladder
2. Ampulla of vas deferens
3. Ejaculatory duct
4. Prostate gland
5. Prostatic urethra
6. External urethral sphincter
7. Membranous urethra
8. Bulbourethral gland
9. Penile urethra
10. Corpus spongiosum
11. Glans penis
12. Epididymis
13. Testis
14. Penis
15. Prepuce
16. Pubic bone
17. Scrotum

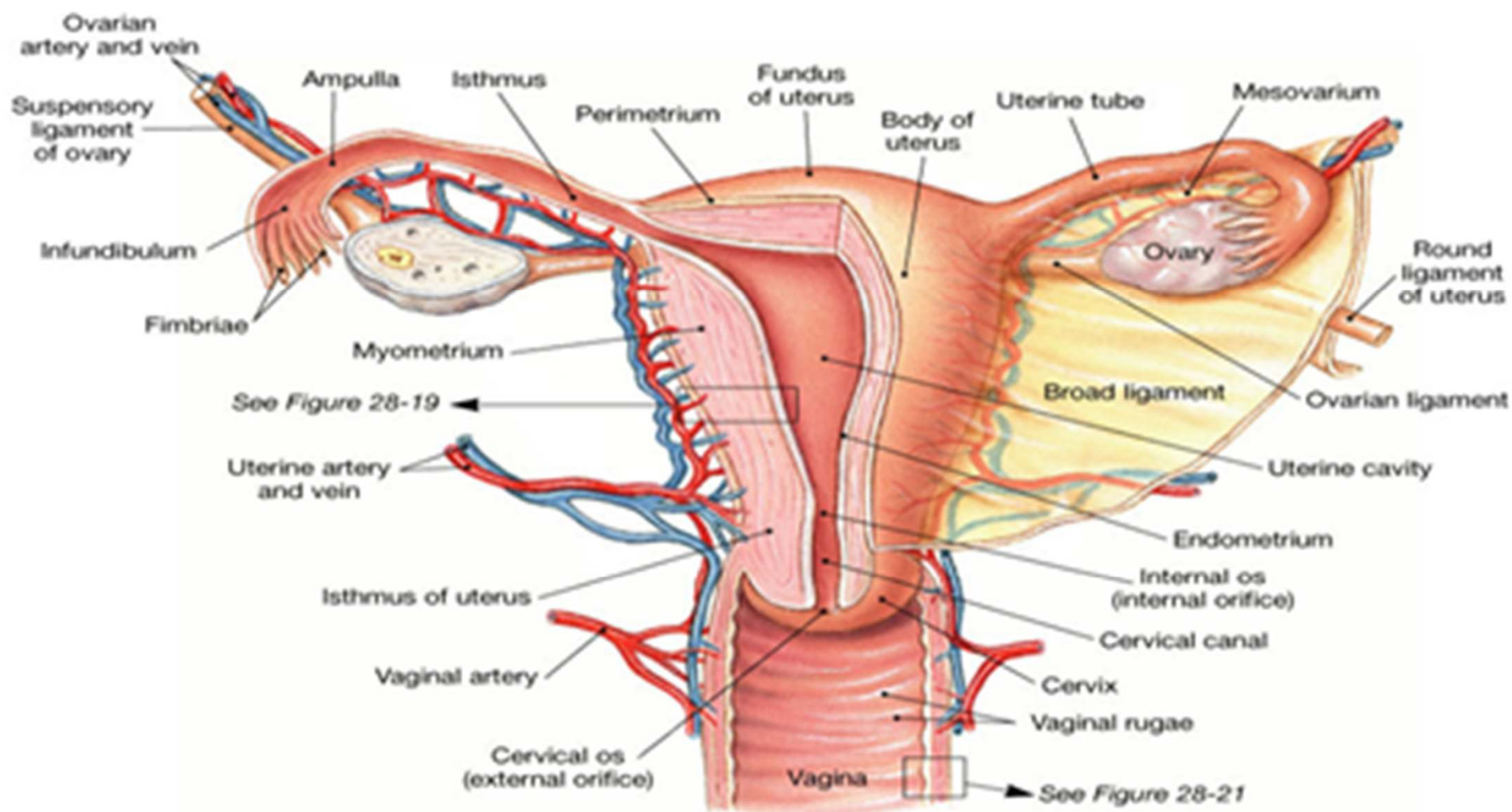






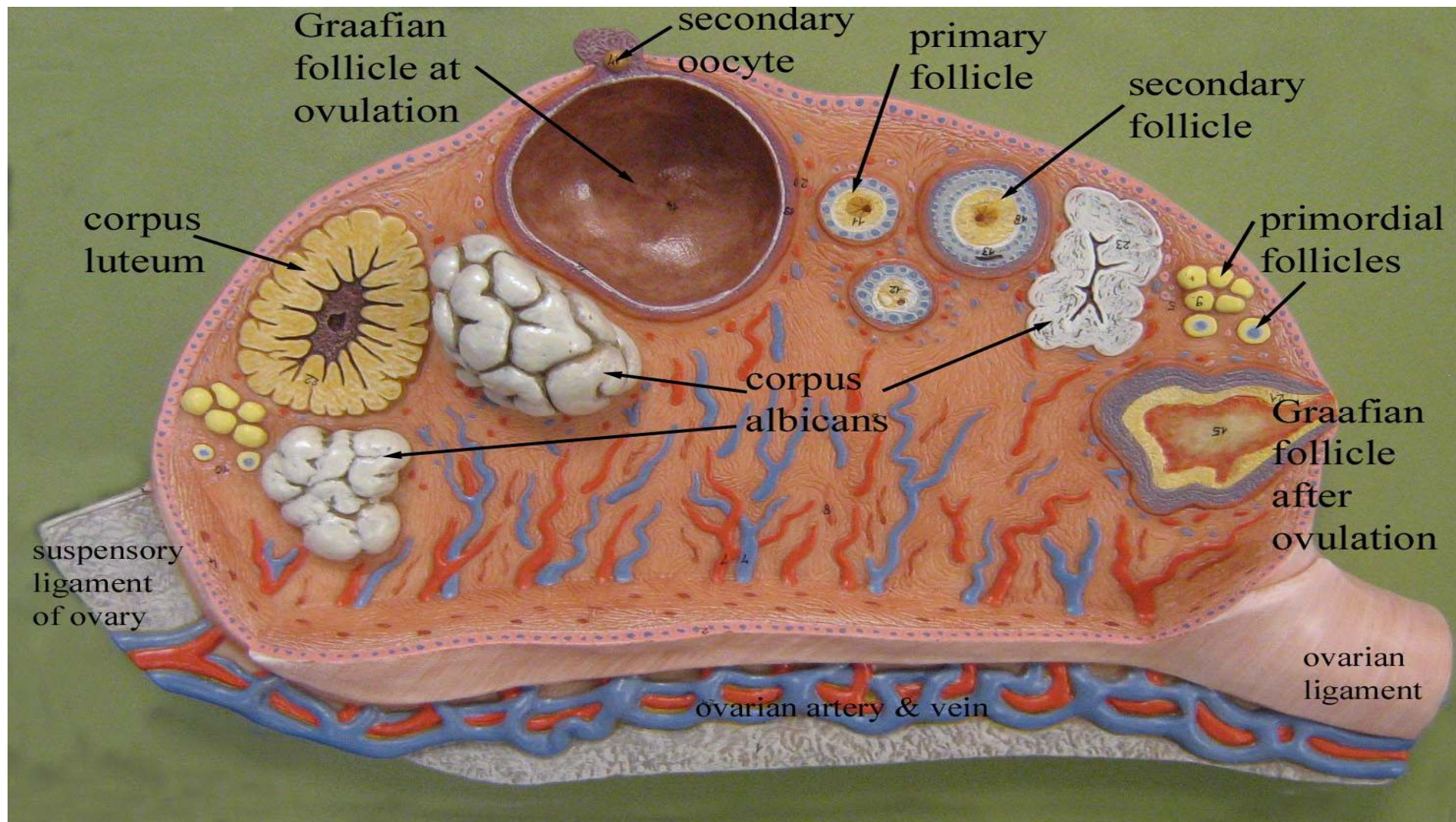




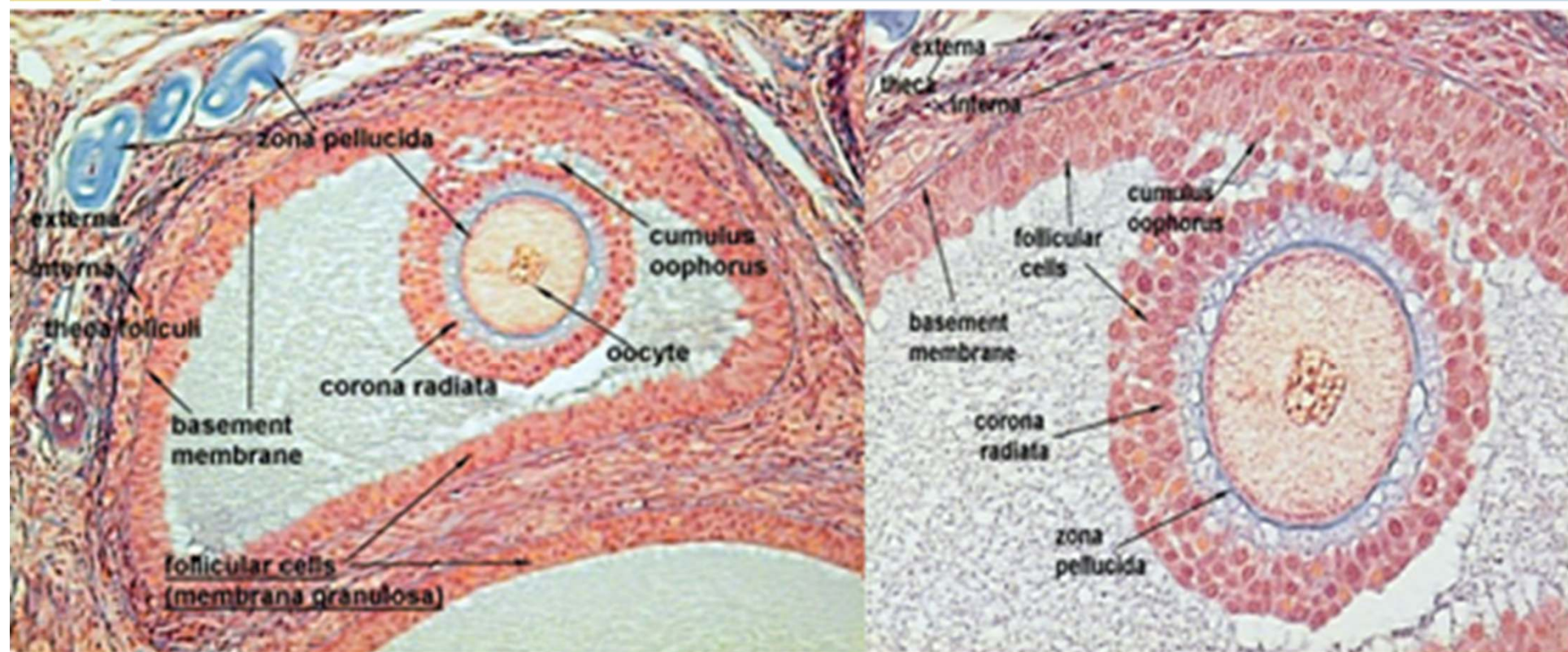


(c) Posterior view

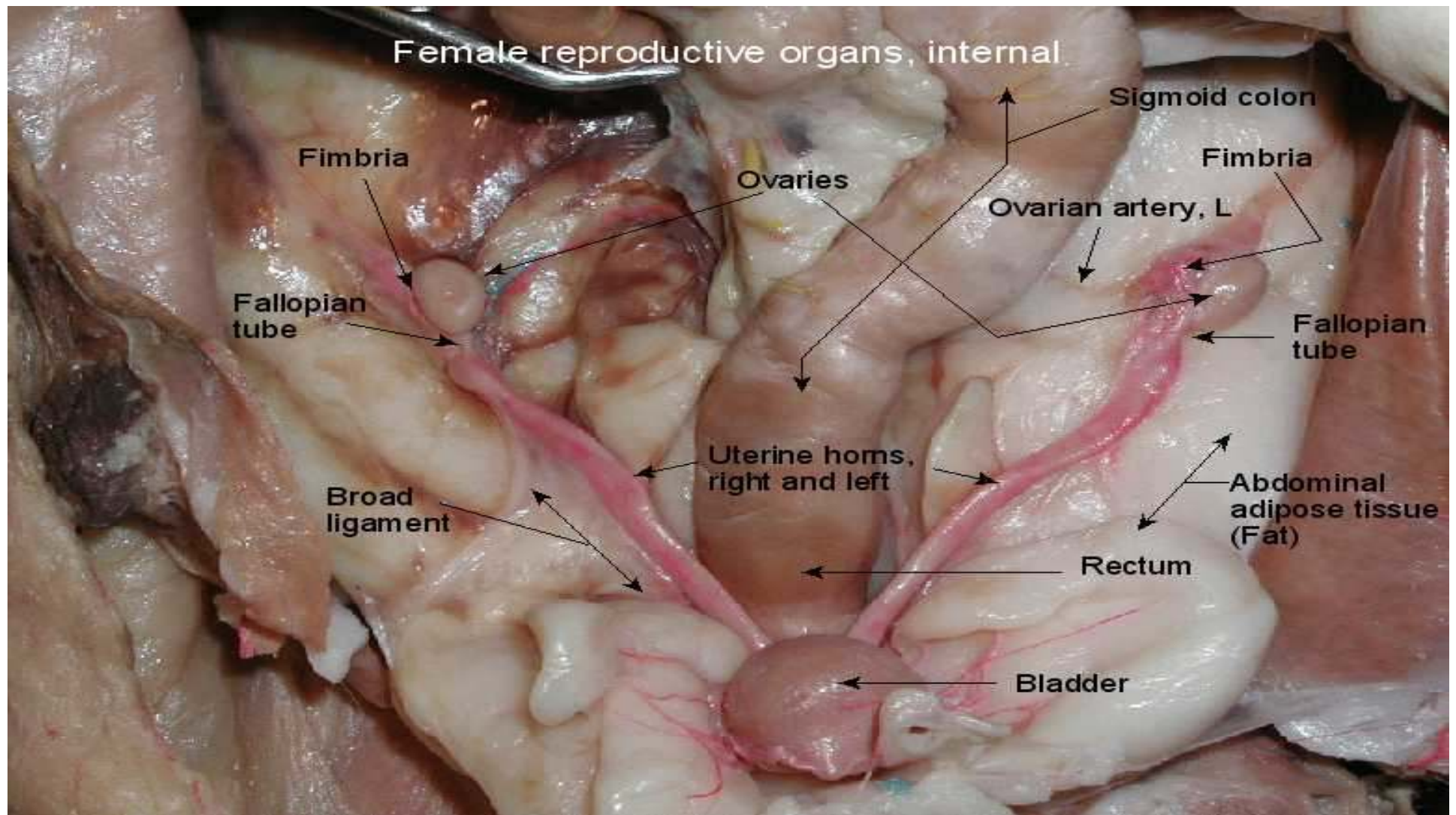


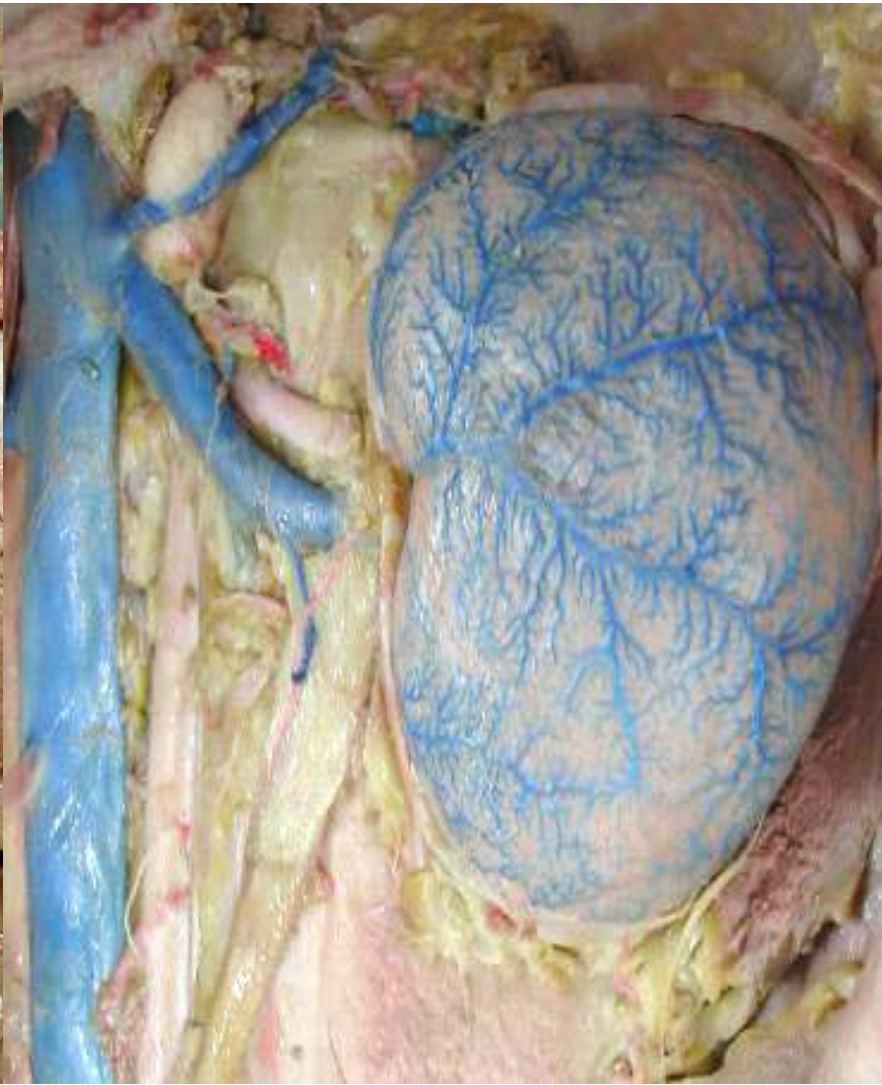


Ovaries



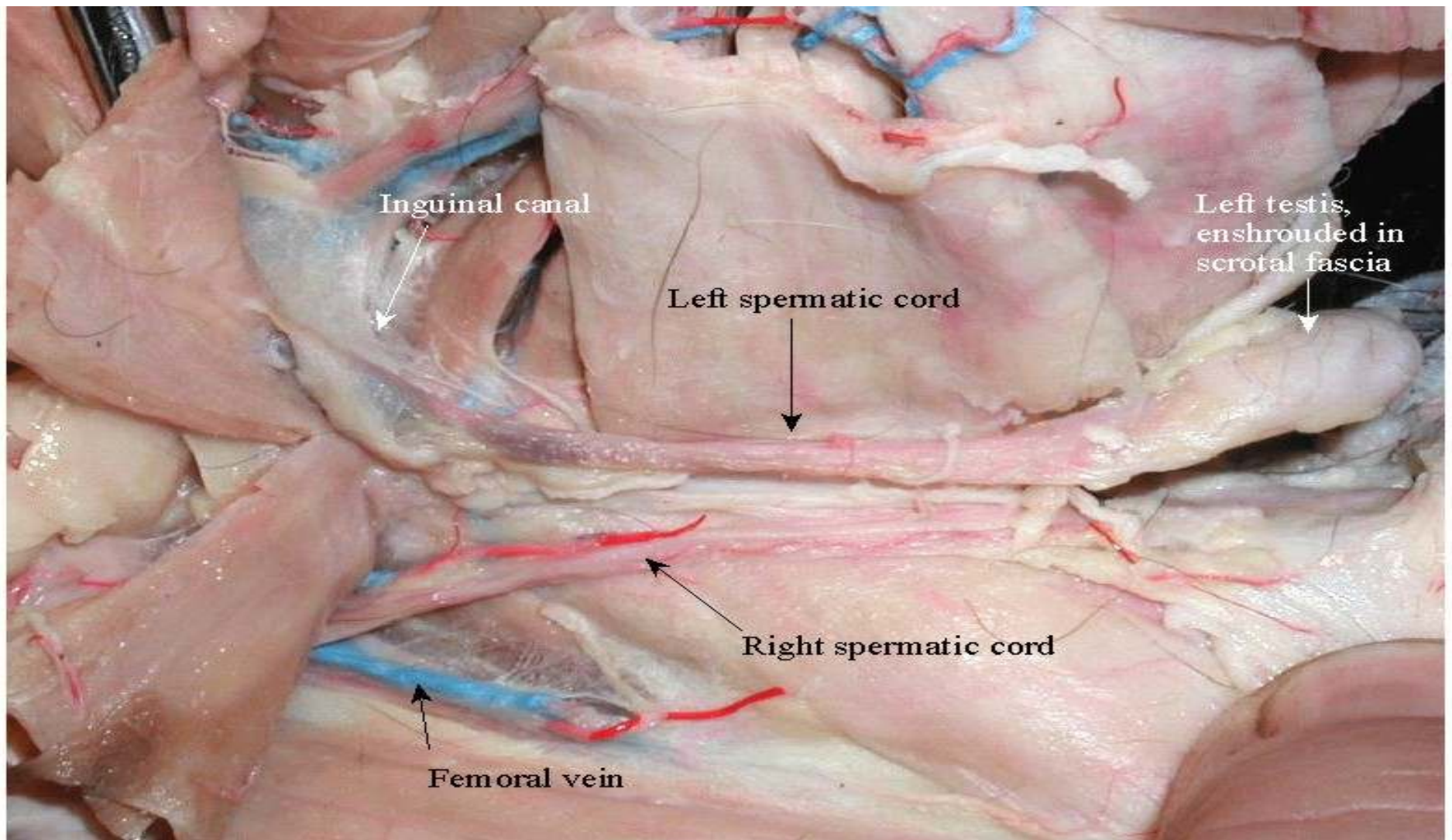
Female reproductive organs, internal







URINARYBLADDER
CAT

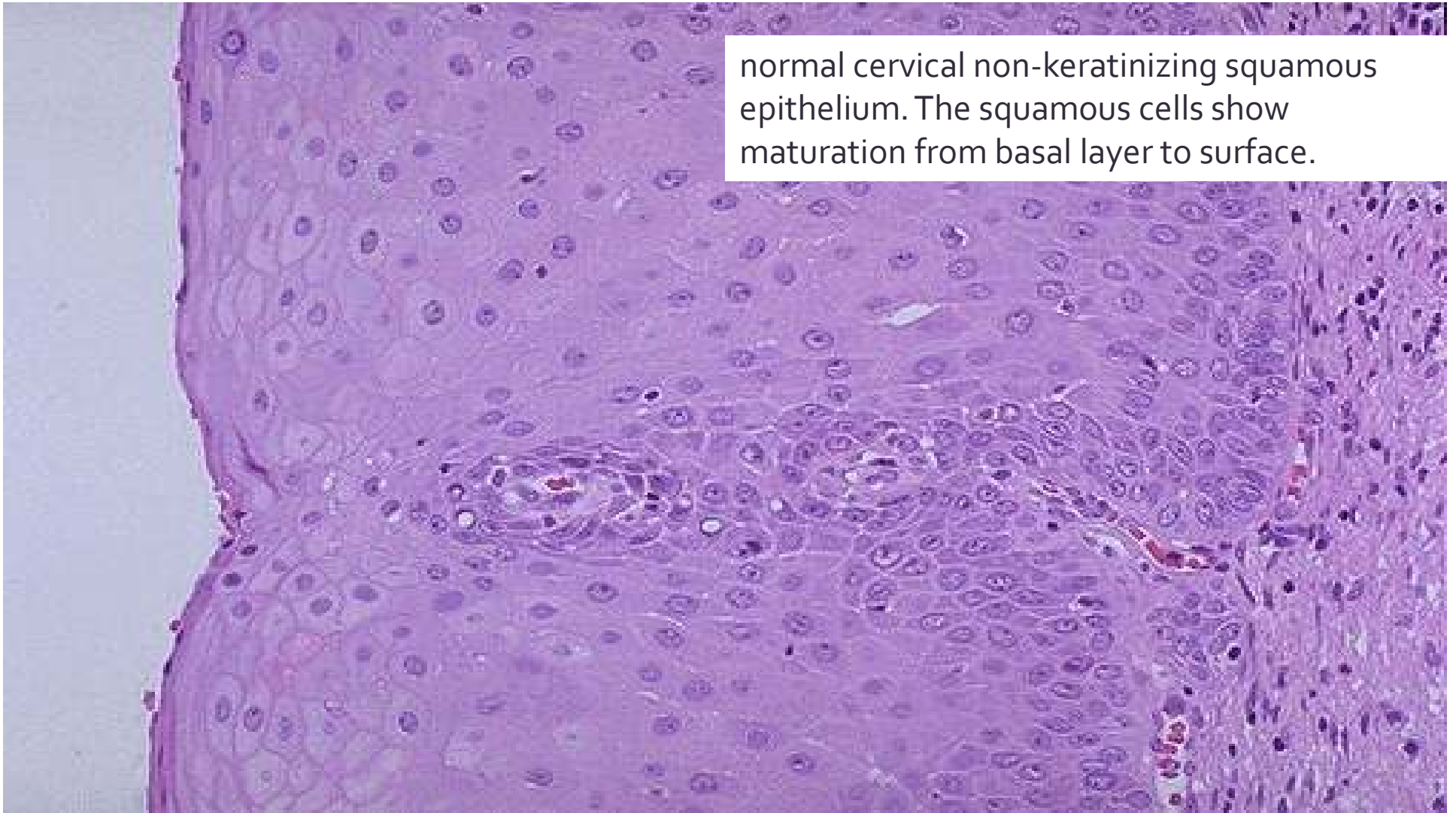


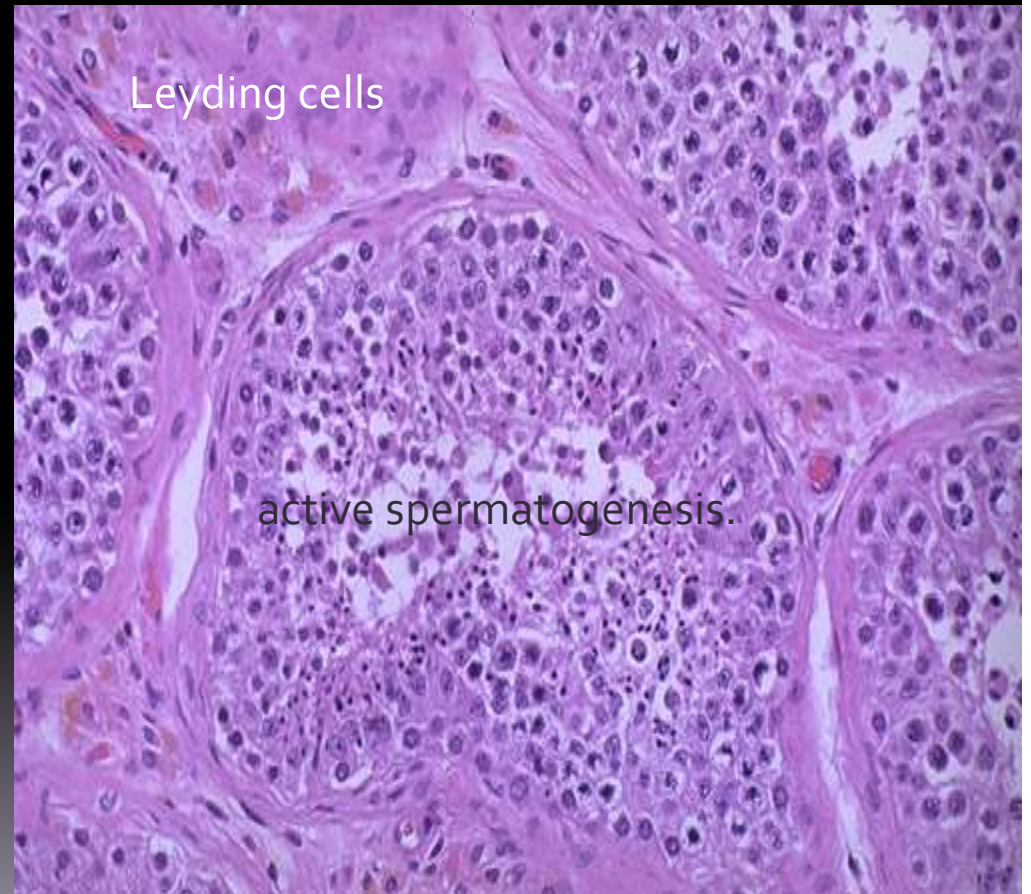
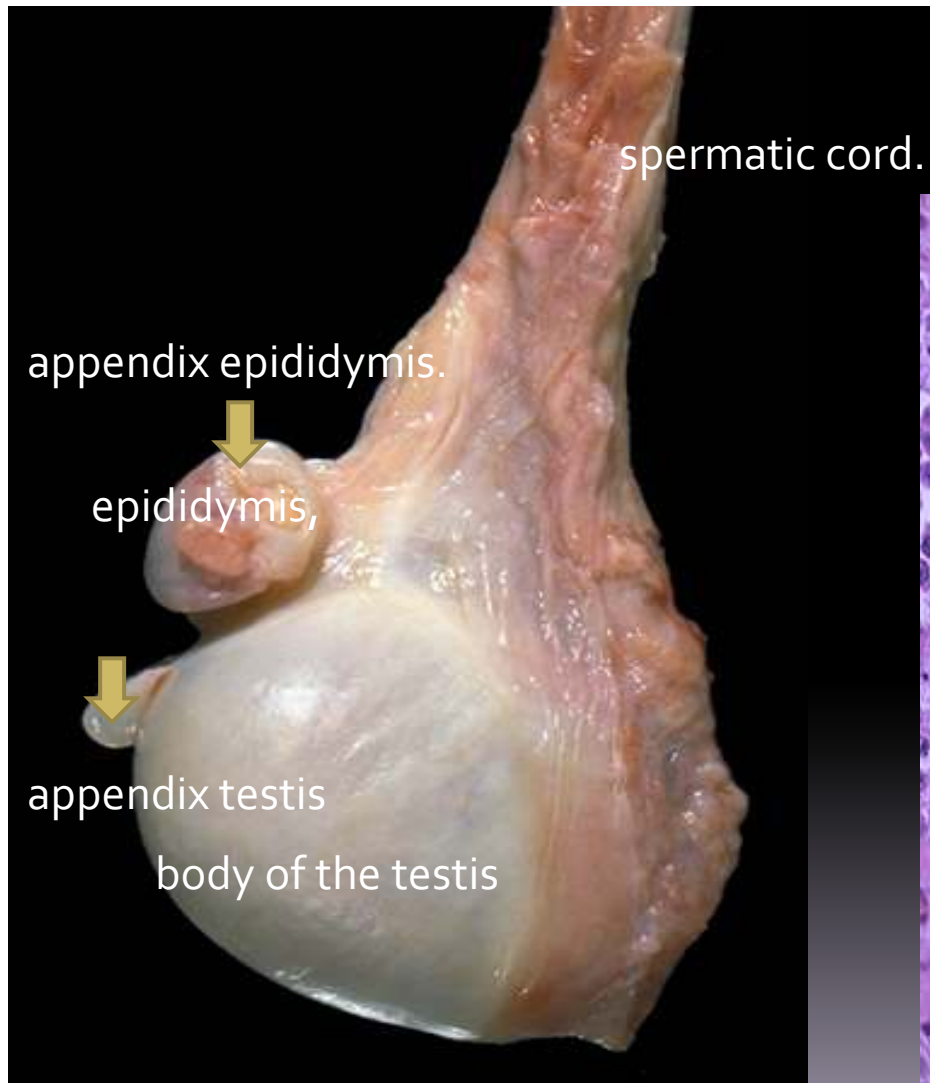


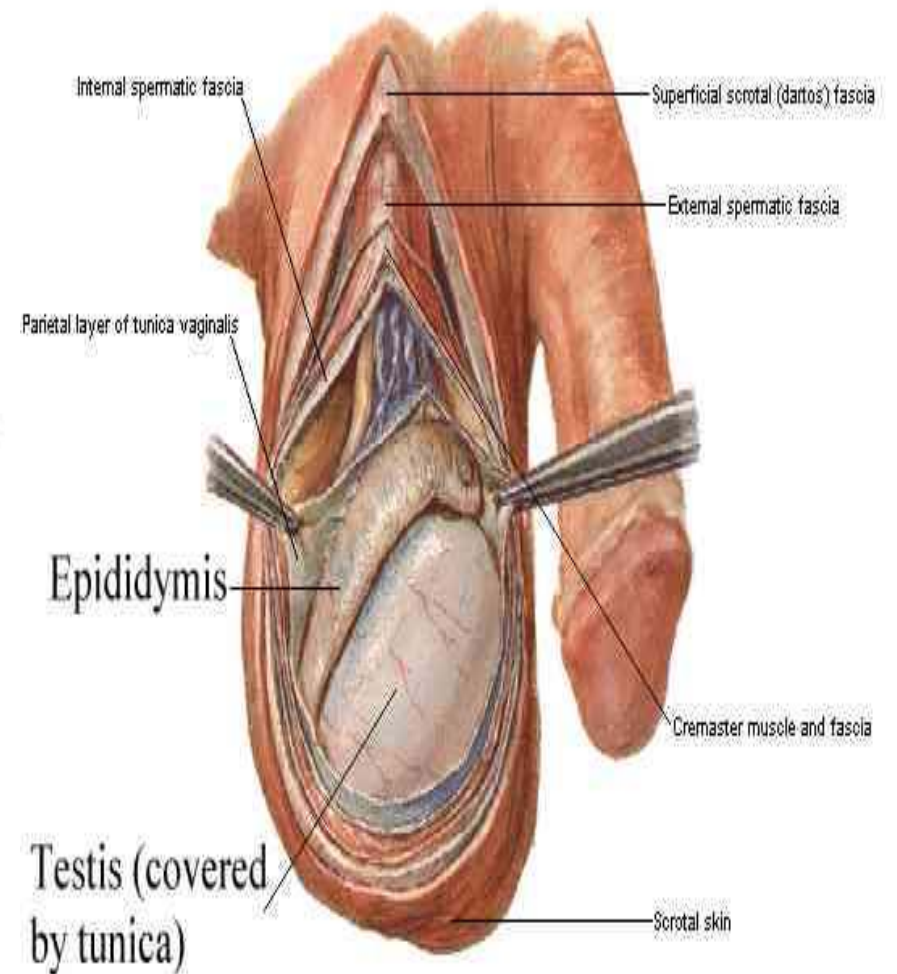
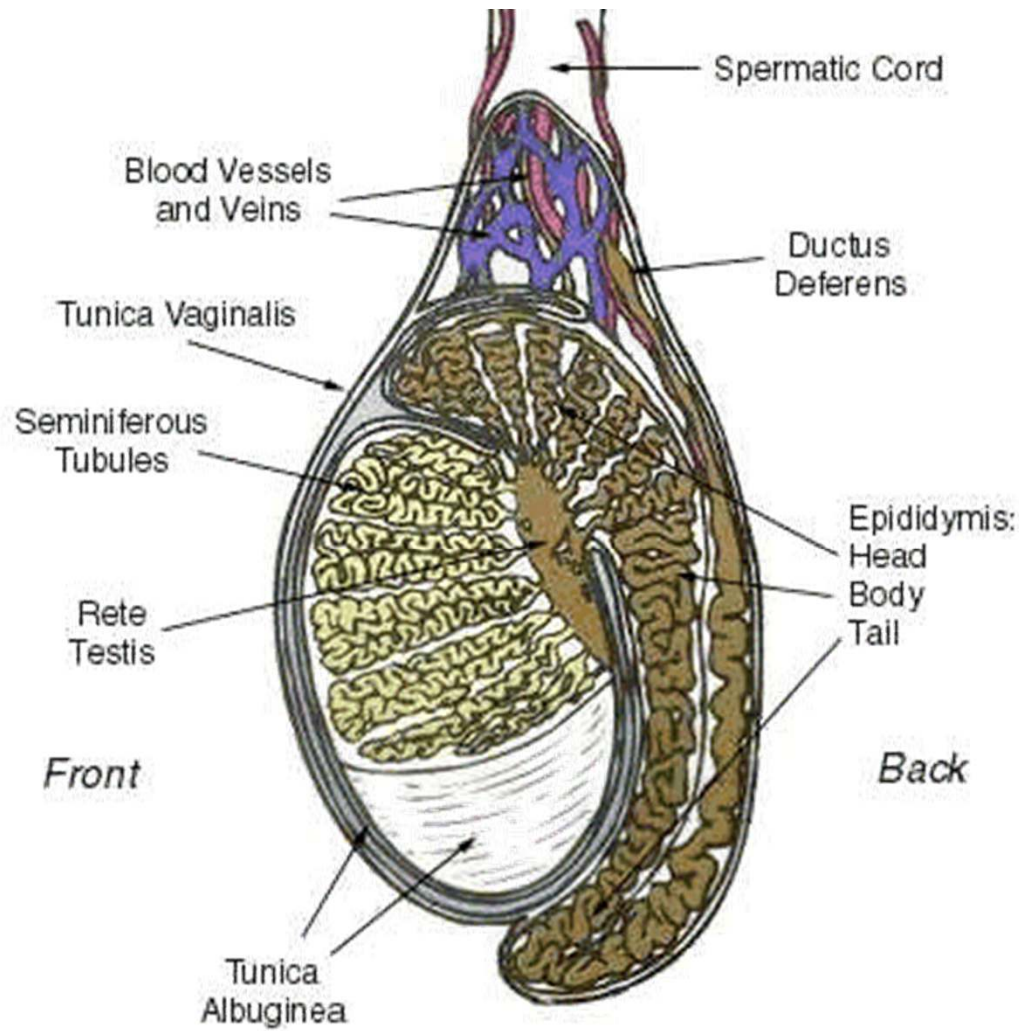
normal cervix with a smooth, glistening mucosal surface.



normal cervical non-keratinizing squamous epithelium. The squamous cells show maturation from basal layer to surface.

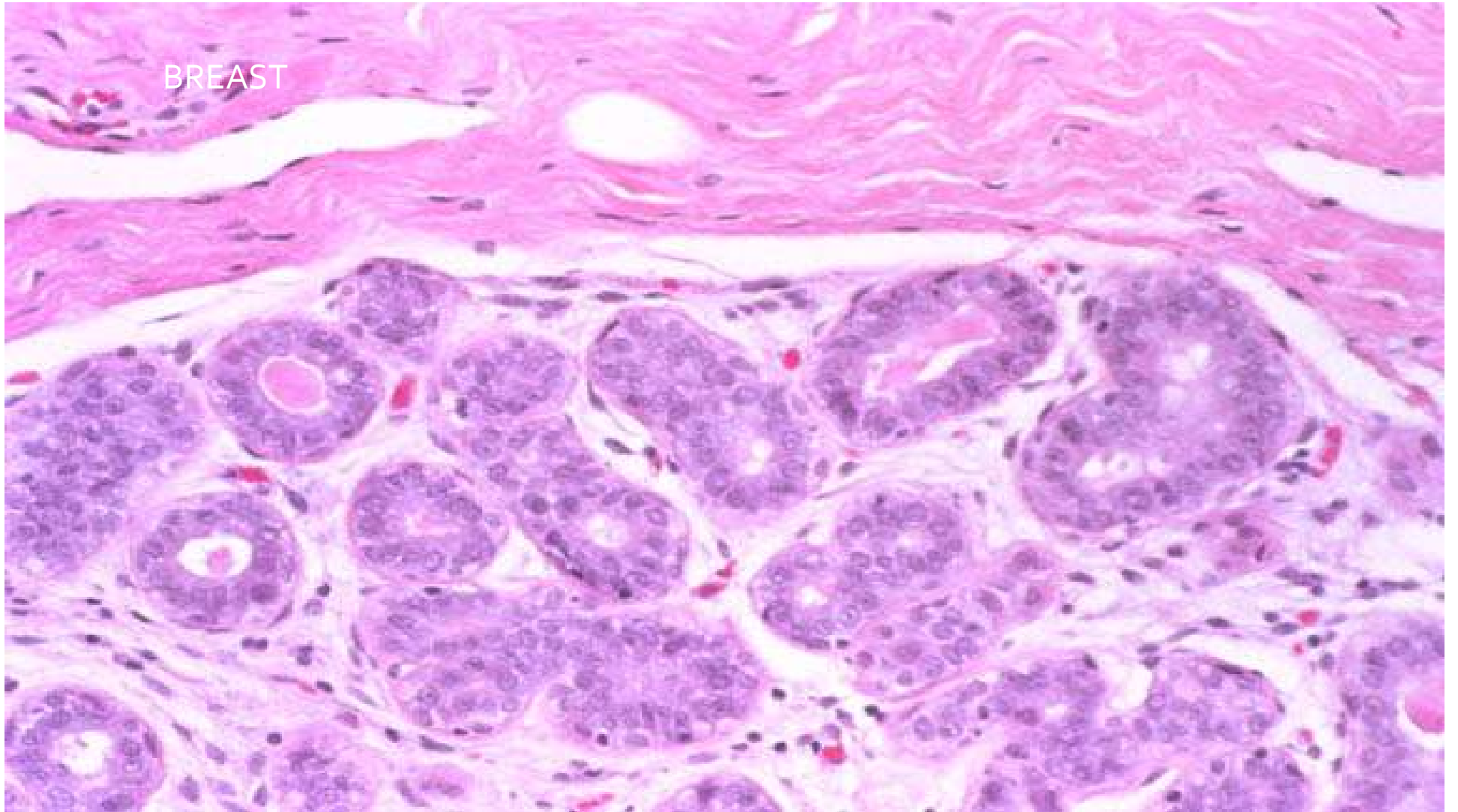




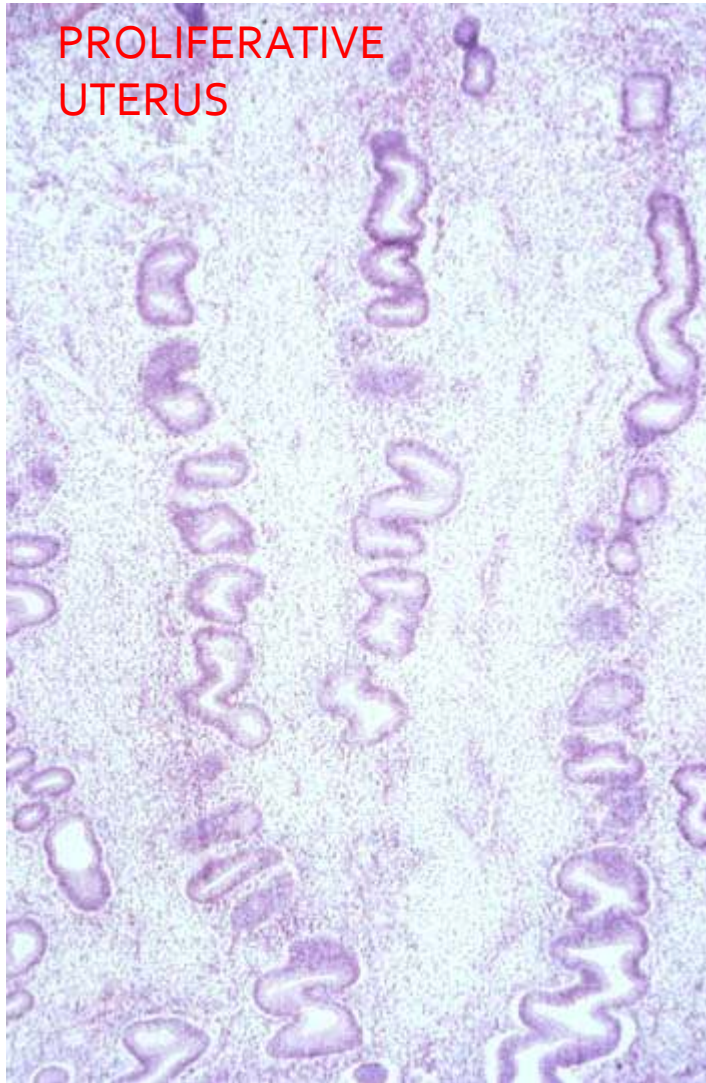




BREAST

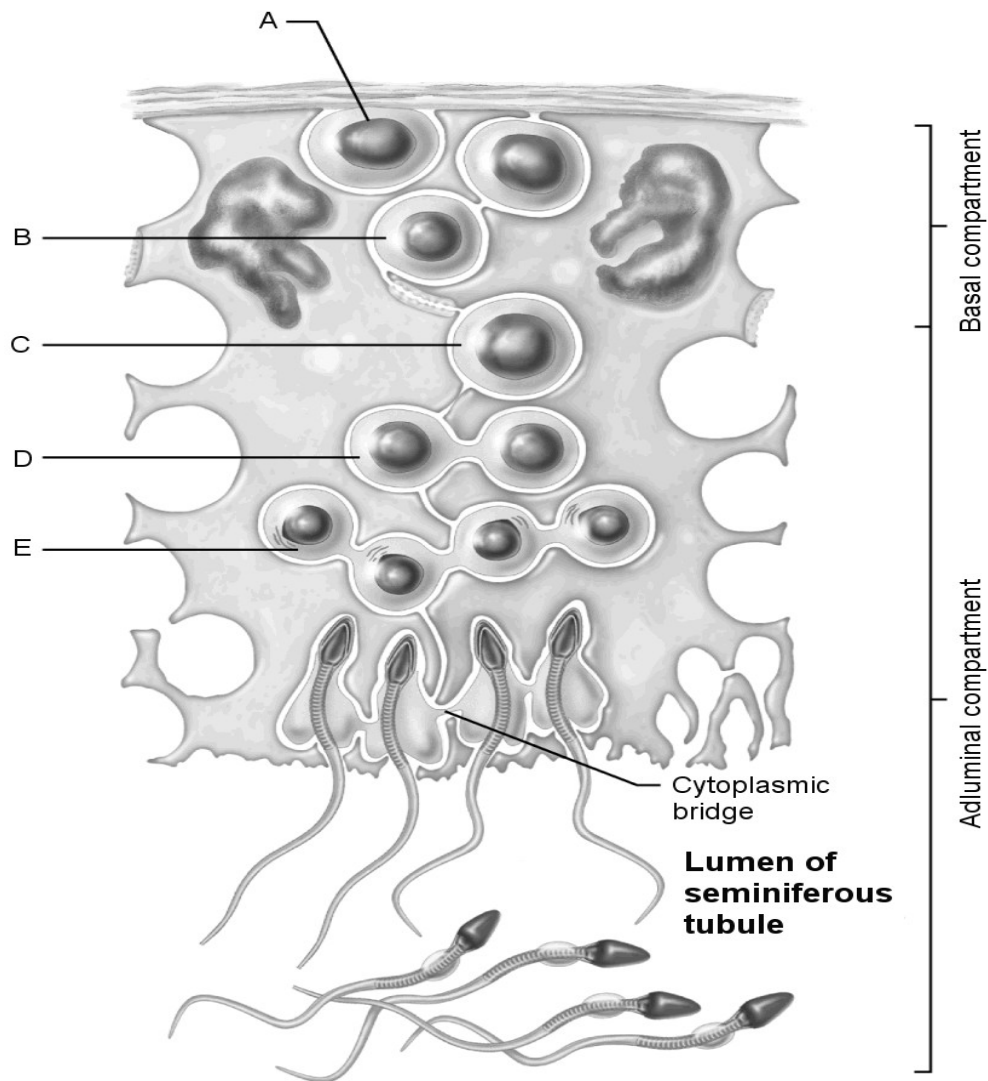


PROLIFERATIVE
UTERUS



SECRETORY





54) Stem cell.

Answer: A

55) First cells with n number of chromosomes.

Answer: D

56) Type B spermatogonia.

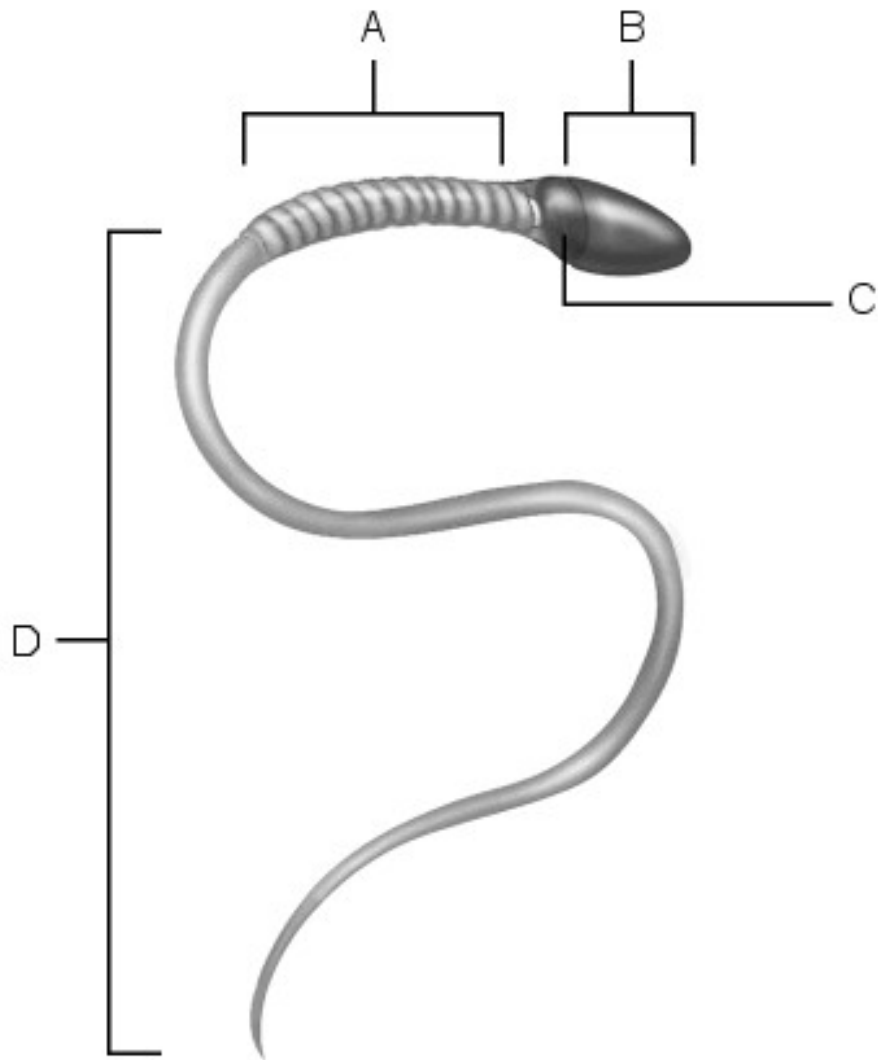
Answer: B

57) Early spermatids.

Answer: E

58) Primary spermatocyte.

Answer: C



match the following:

59) Acrosome.

Answer: B

60) Location of mitochondria.

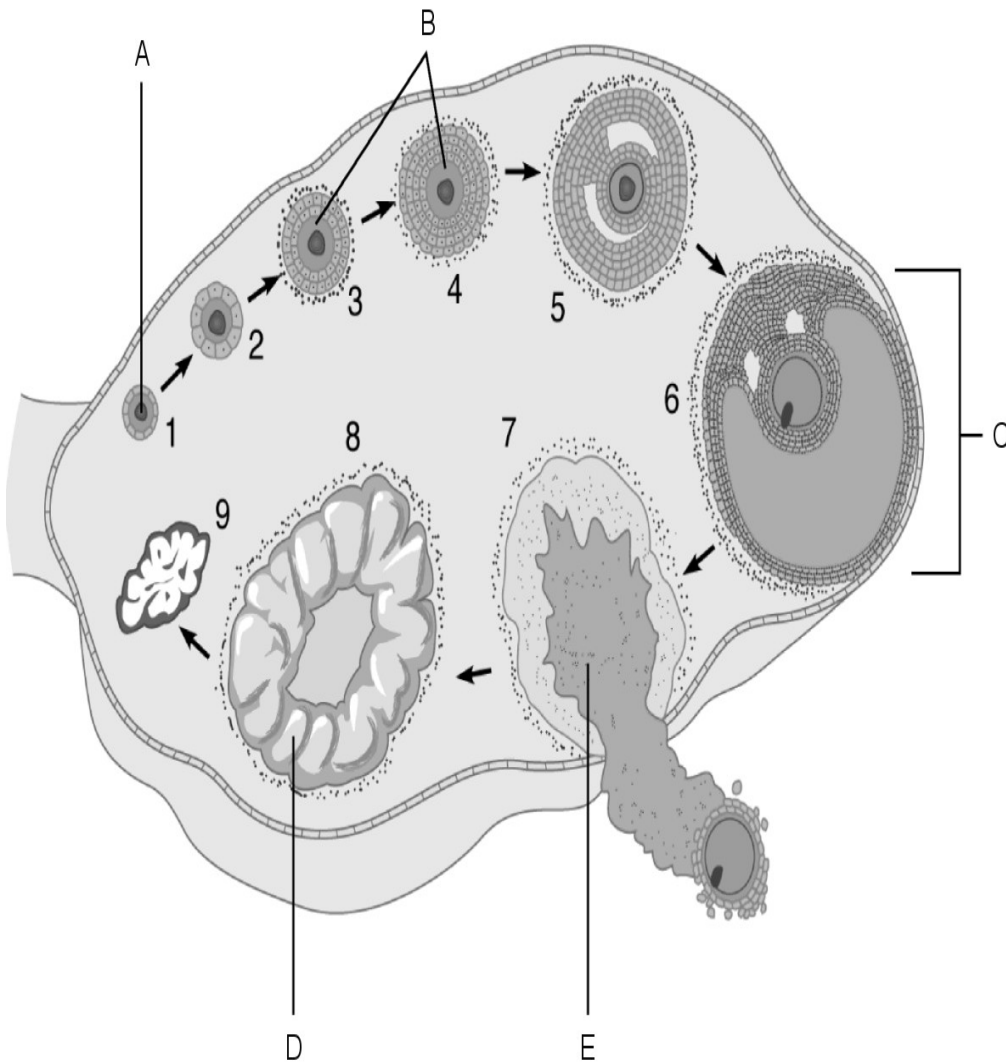
Answer: A

61) Midpiece.

Answer: A

62) Location of nucleus.

Answer: C



63) The stage called ovulation.

Answer: E

64) Vesicular (Graafian) follicle.

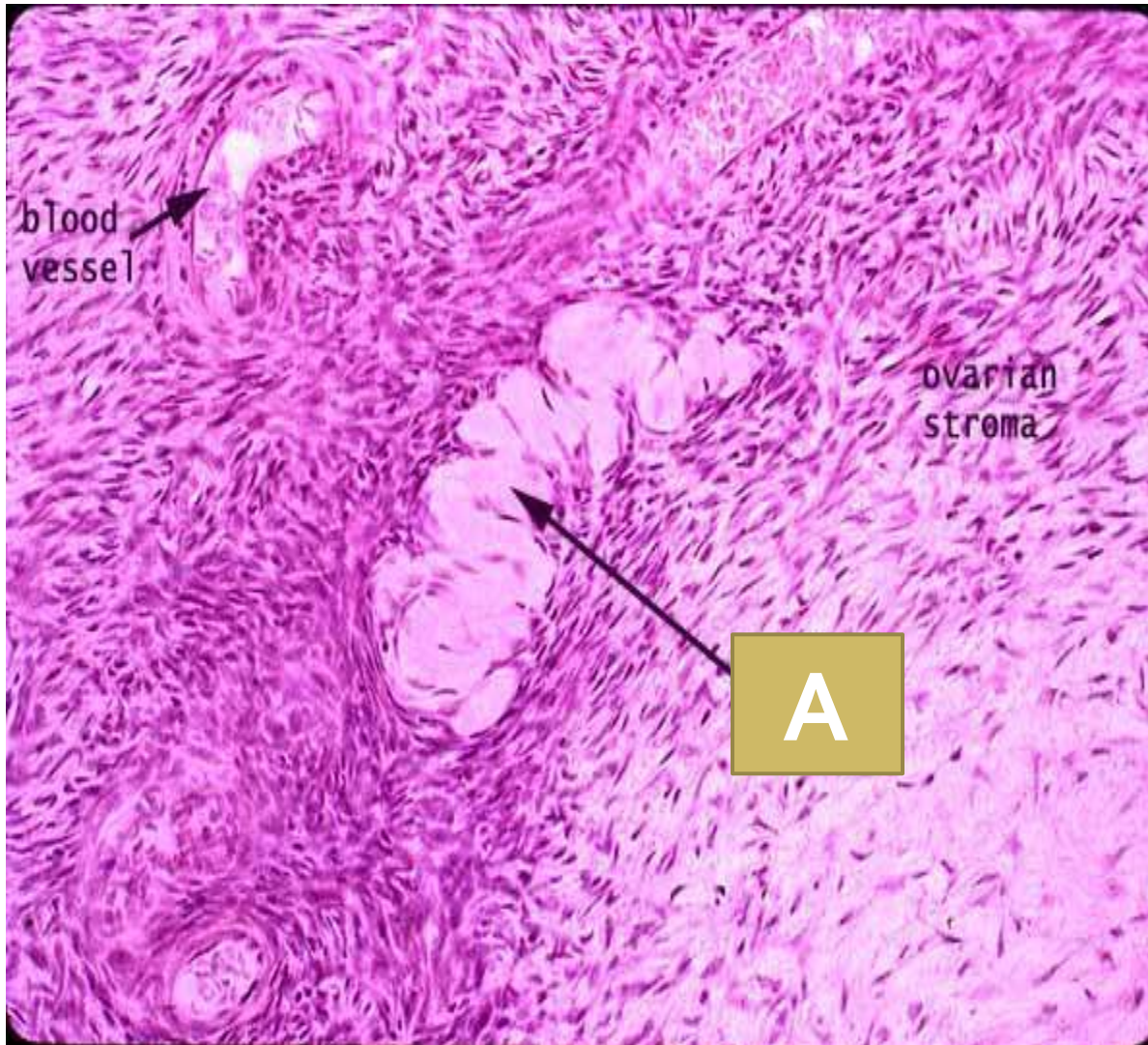
Answer: C

65) Primary follicles.

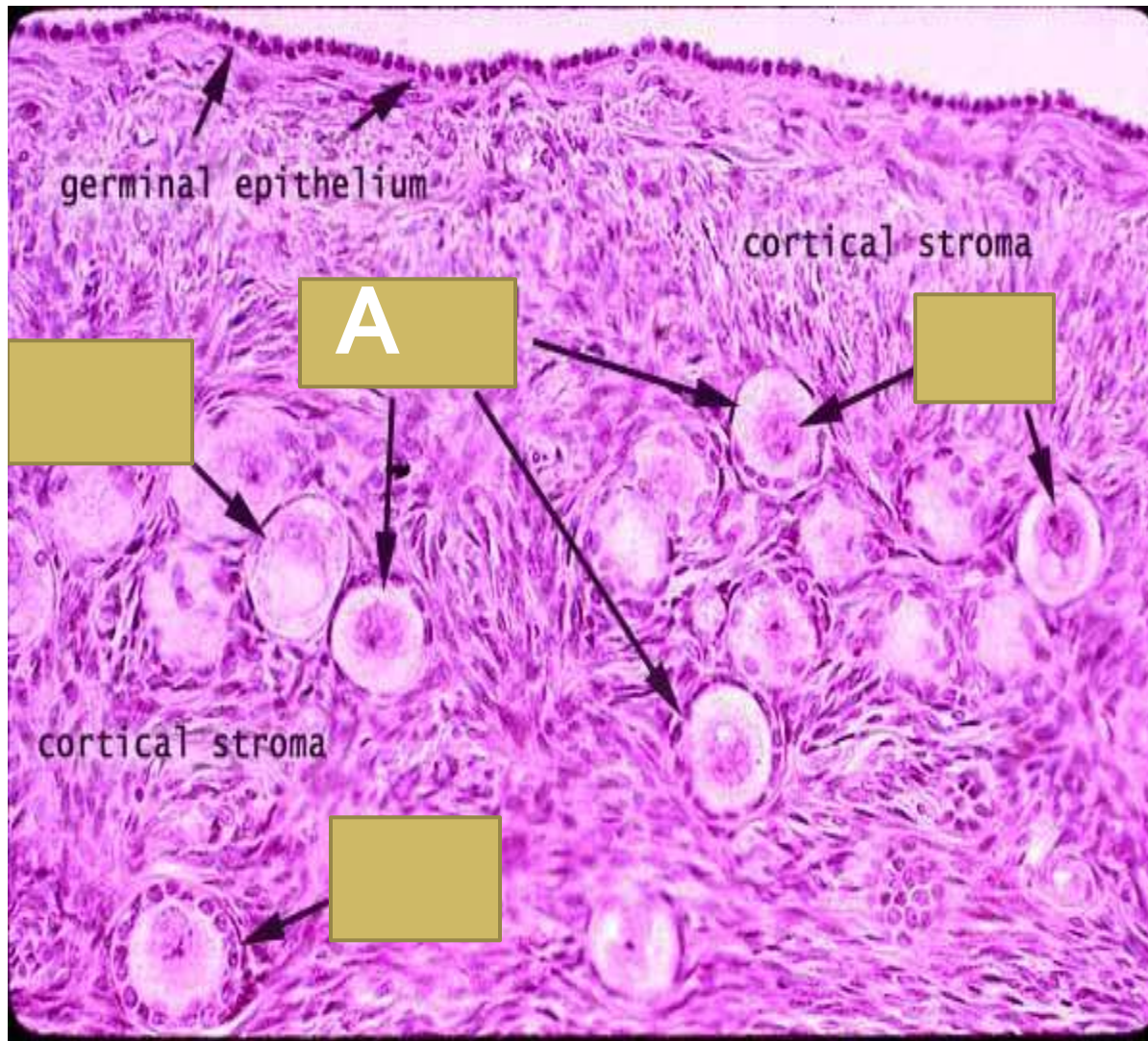
Answer: B

66) Primordial follicle.

Answer: A



67/Identify structure A
A/CORPUS ALBICANS
B/CORPUS LUTEUM
C/CORPUS MAGELUM
D/GRAFIAN VESICLE
E/PRIMARY FOLLICLE



68/IDENTIFY A
A/SECONDARY FOLLICLES
B/PRIMARY FOLLICLE
C/TERTIARY FOLLICLES
D/ATRETIC FOLLICLE



73/Where this
pictures has been
taking from?

A/VAGINA

B/BREAST

C/PENIS

D/URETHRA

E/URETER

83/ Identify 1

A/ Leydig cells

B/ Sertoli cells

C/ interstitial cells

d/a,b correct

e/a,c correct

84/ FUNCTION OF #1

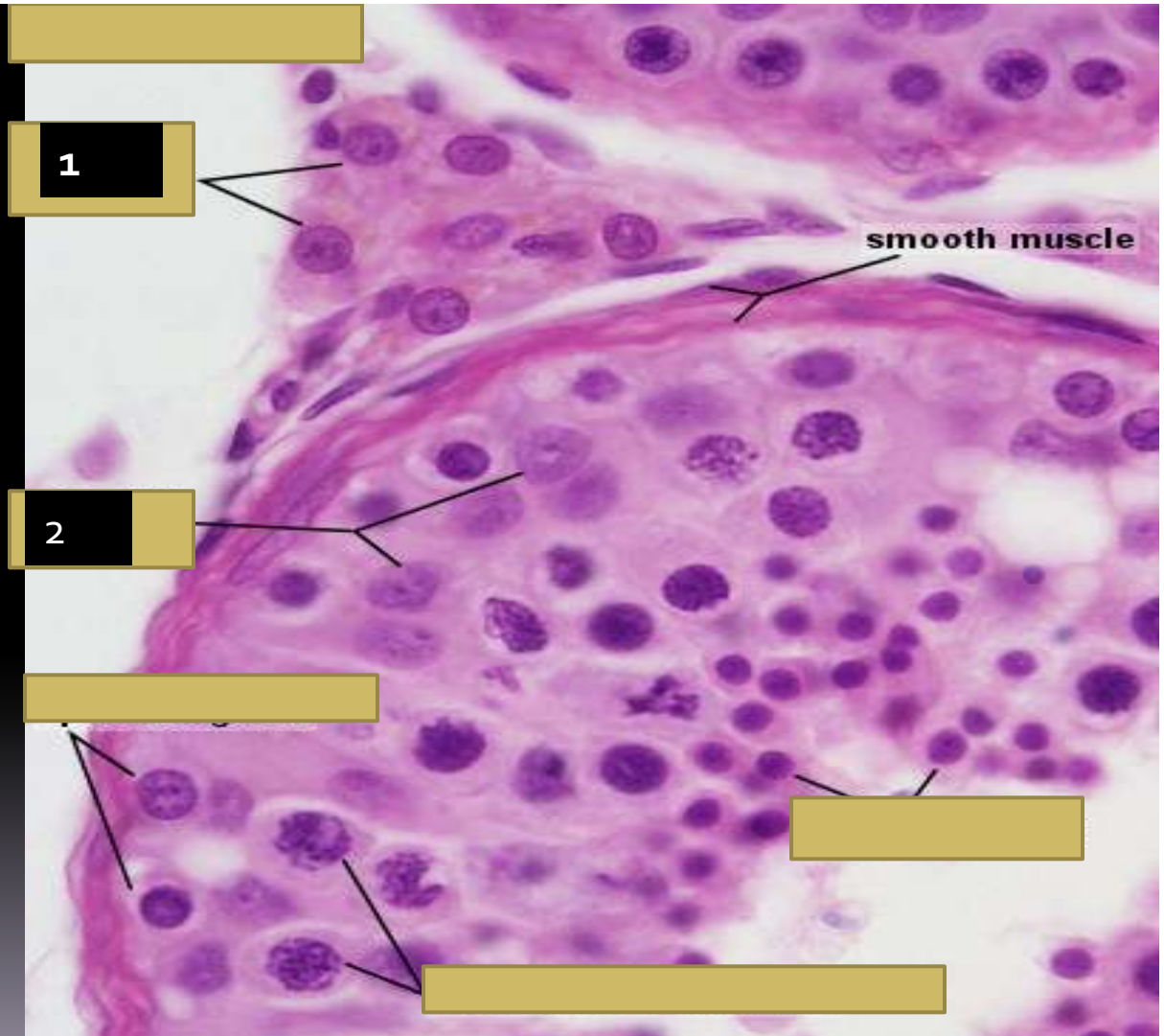
A/ They produce testosterone in the presence of luteinizing hormone (LH).

B/ They produce testosterone in the presence of FSH

C/ Maintenance and protection

D/ They produce Estrogen in the presence of luteinizing hormone (LH).

e/ I am confused



83/ Identify 1

A/ Leydig cells

B/ Sertoli cells

C/ interstitial cells

d/a,b correct

e/a,c correct

84/ FUNCTION OF #1

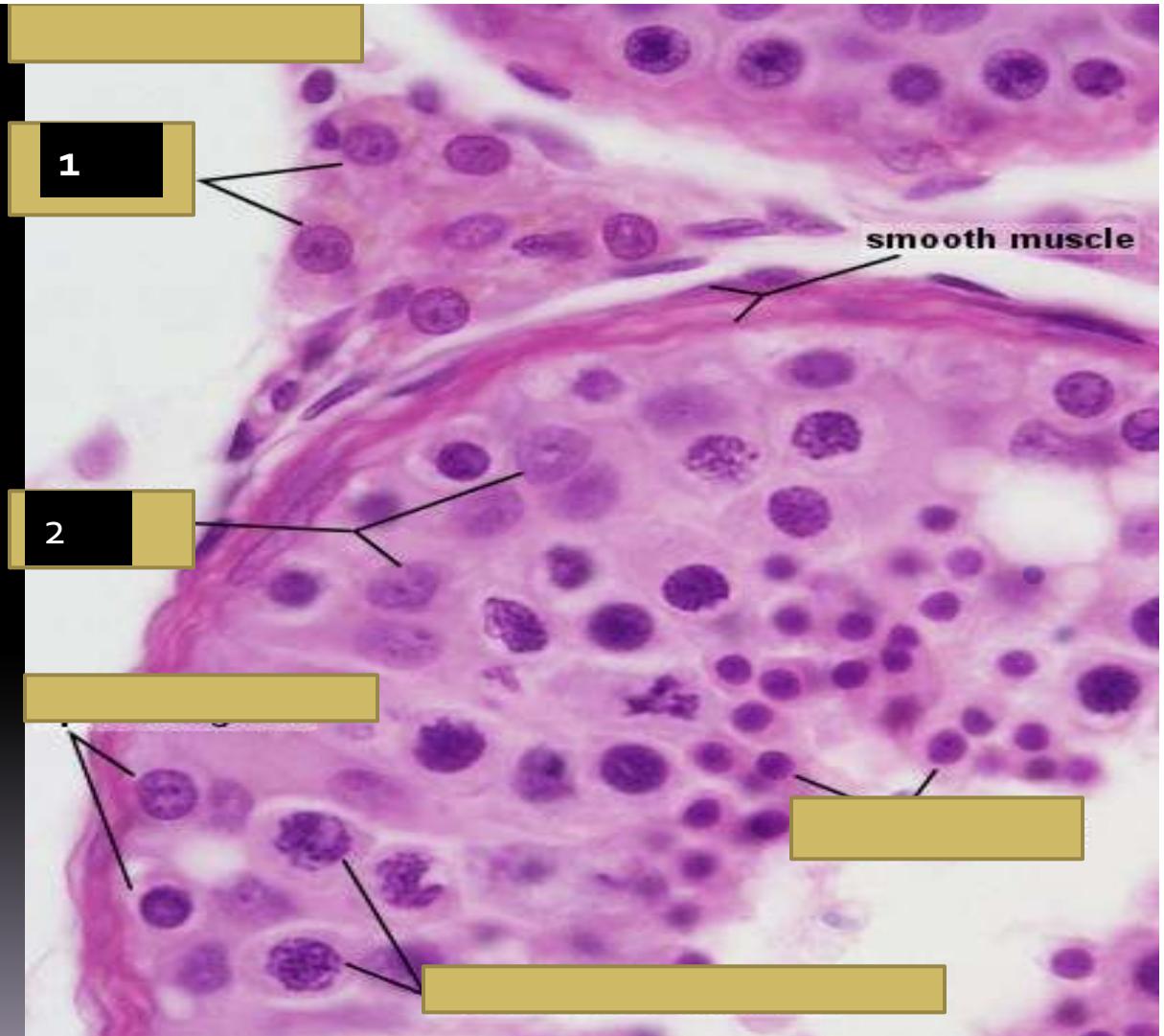
A/ They produce testosterone in the presence of luteinizing hormone (LH).

B/ They produce testosterone in the presence of FSH

C/ Maintenance and protection

D/ They produce Estrogen in the presence of luteinizing hormone (LH).

e/ I am confused



Mature (Vesicular) Follicle

