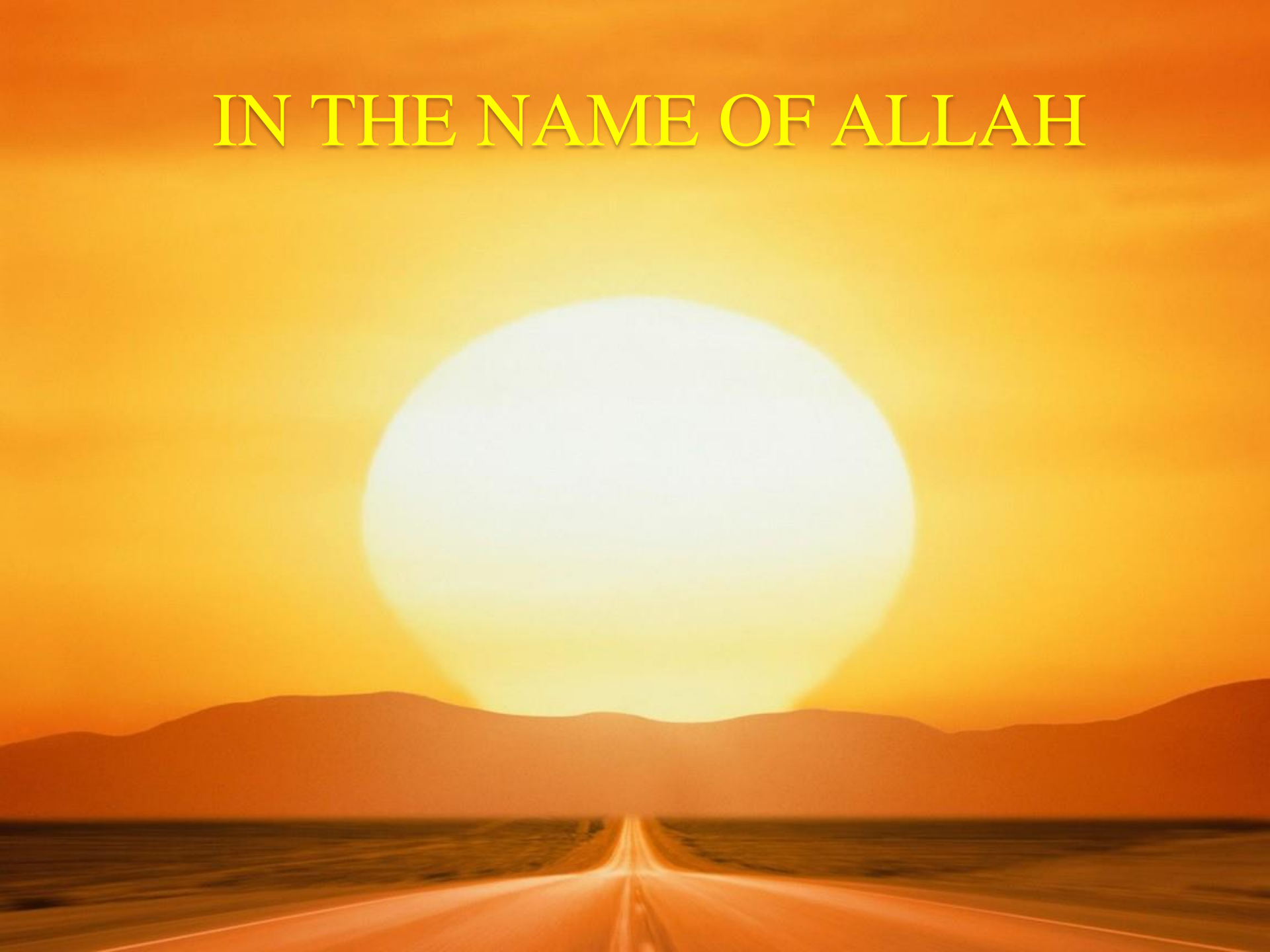


IN THE NAME OF ALLAH



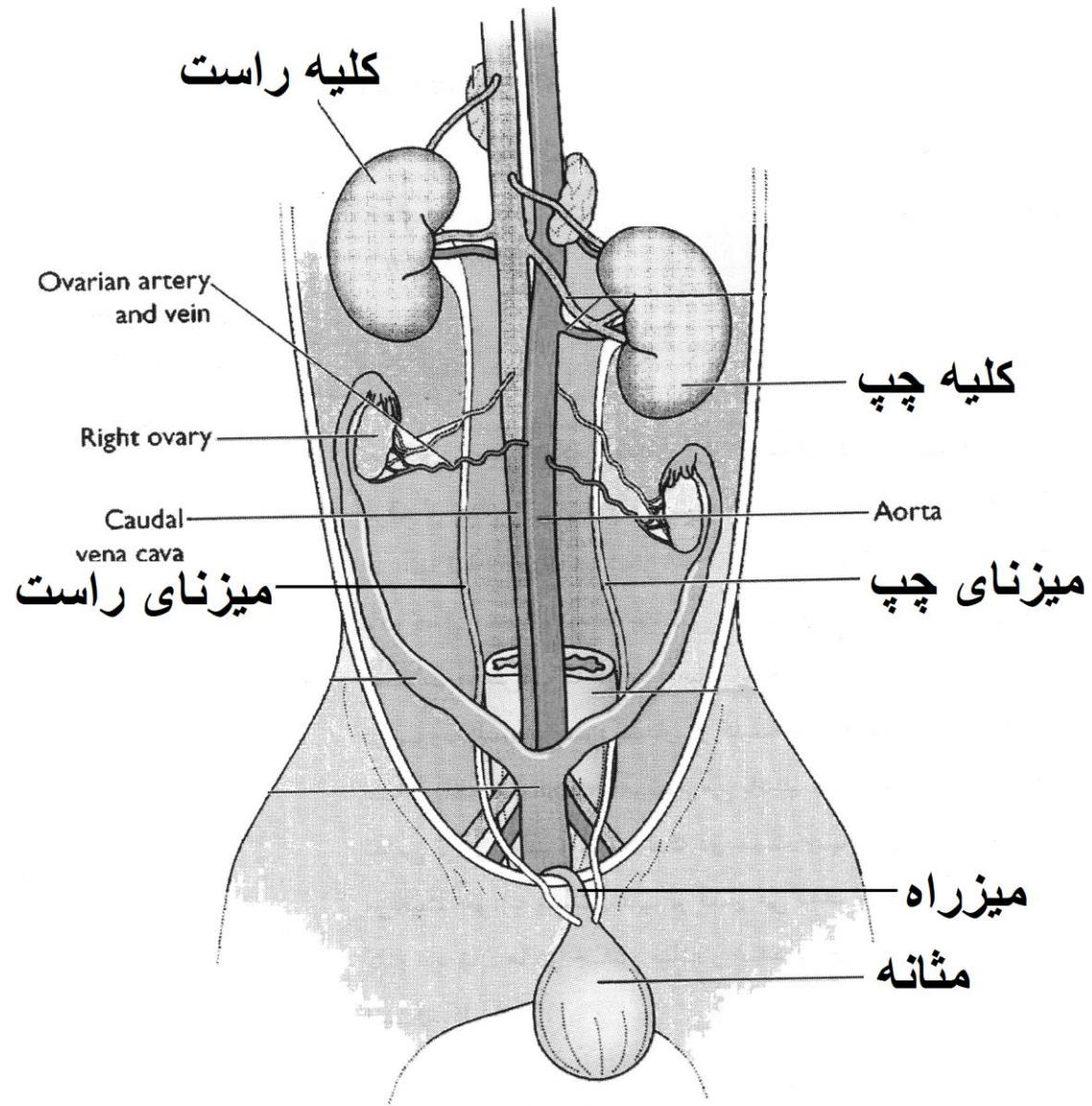
سیستم ادراری

Kidney کلیه 

Ureter میزنای 

Urinary bladder مثانه 

Urethra میزراه 



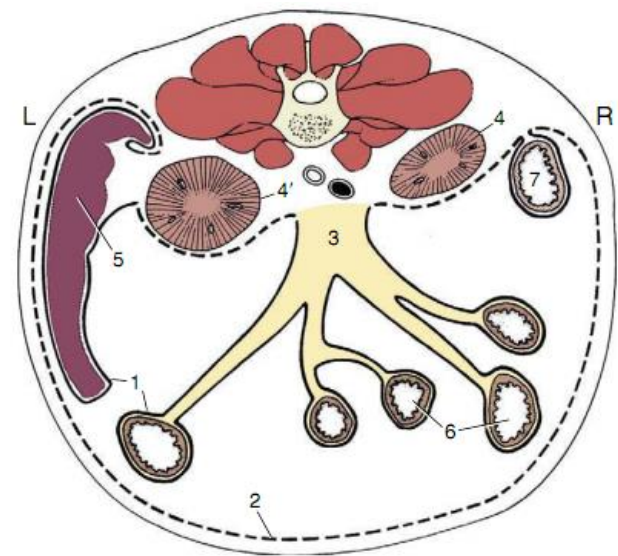
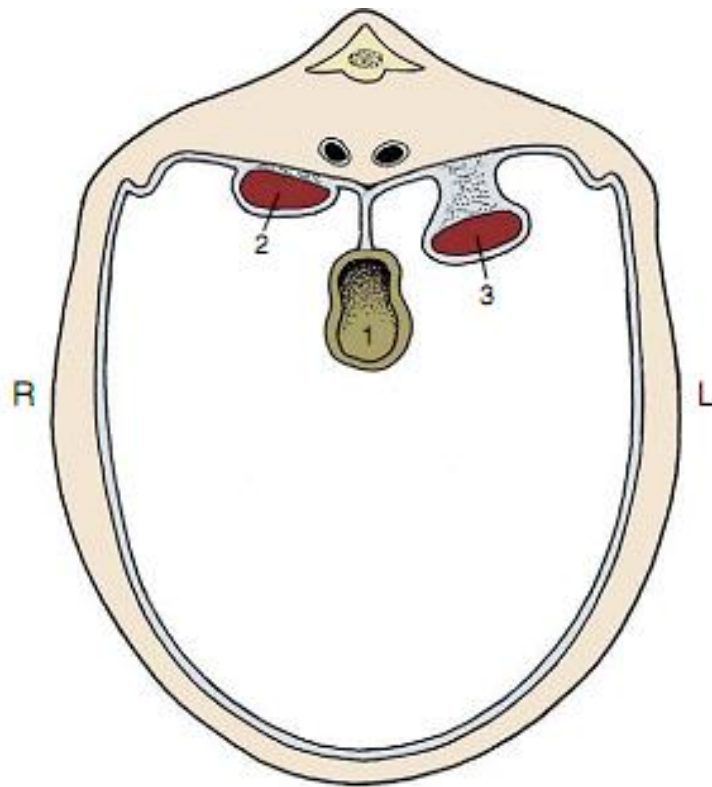
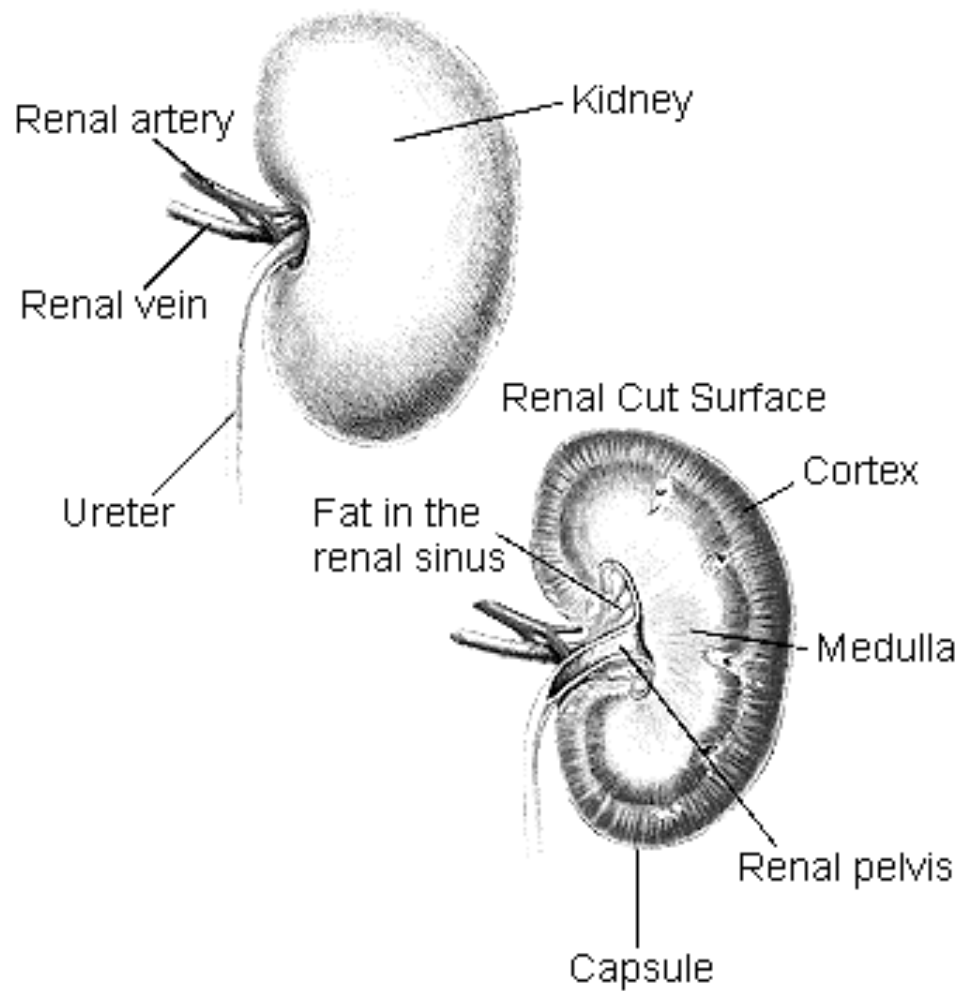
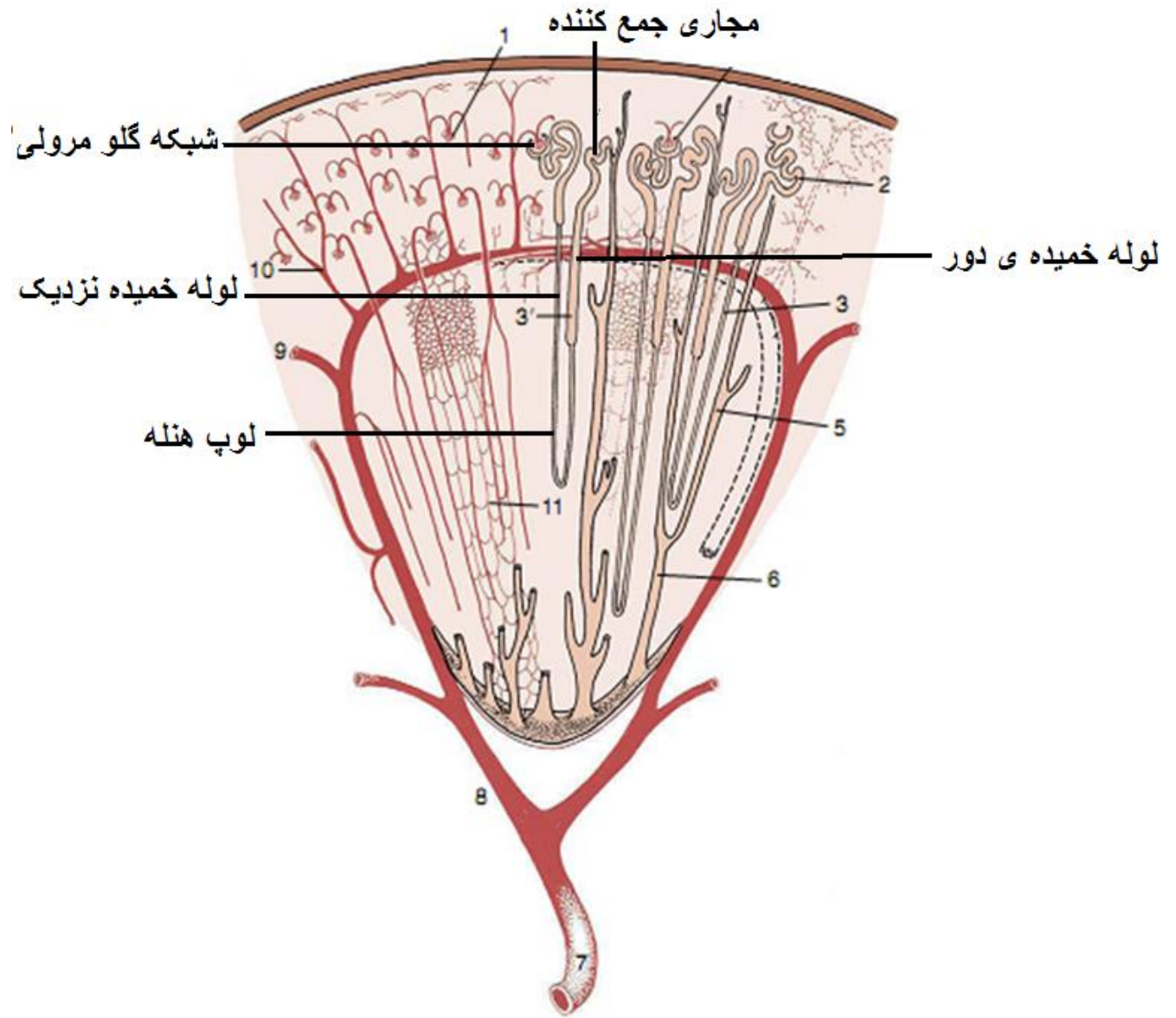
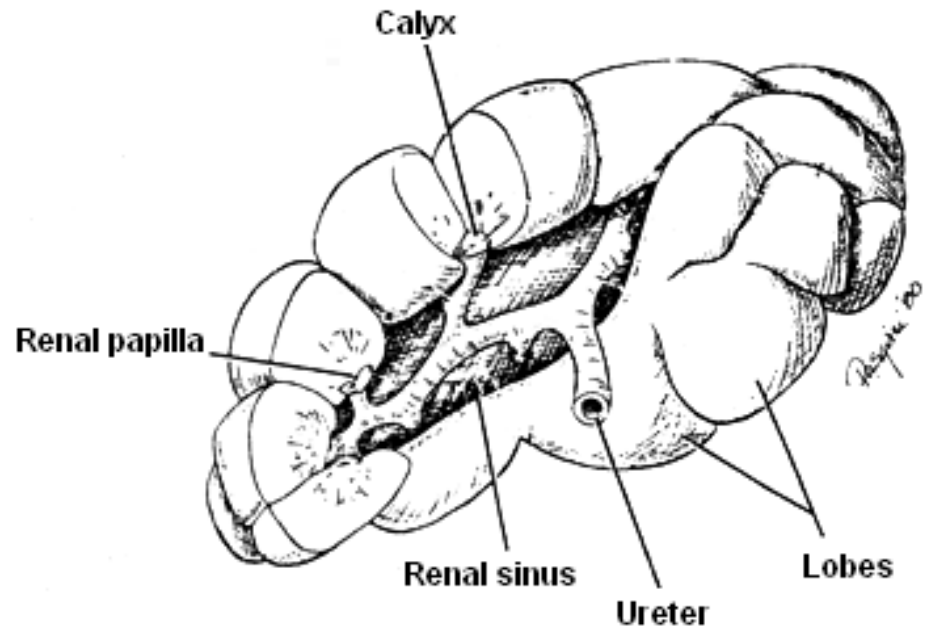
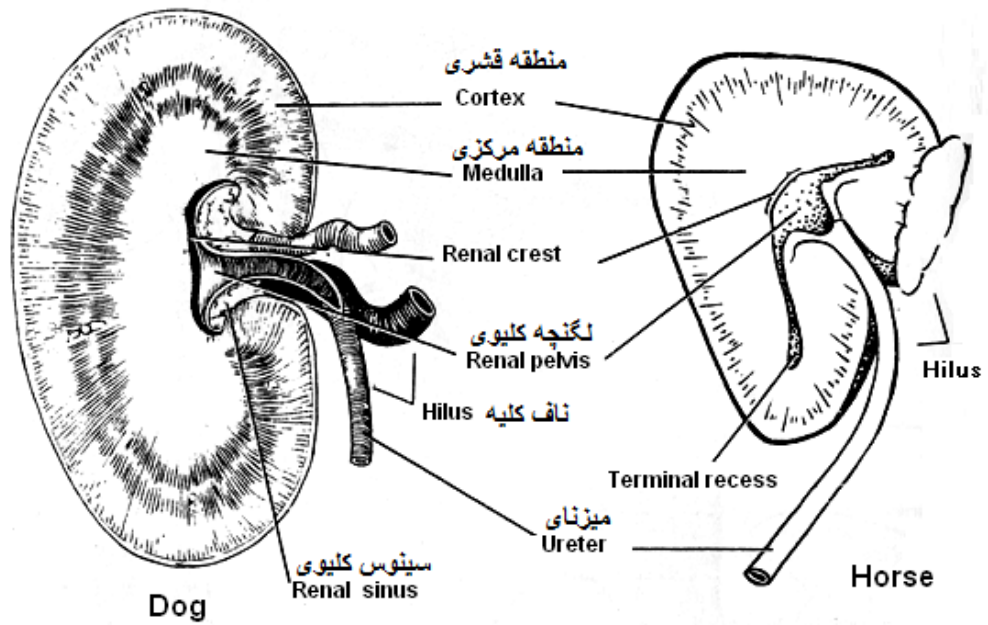


Figure 3-32 Schematic transverse section through the abdomen of the dog. 1, Visceral peritoneum (*continuous line*); 2, parietal peritoneum (*broken line*); 3, root of mesentery; 4, 4', right and left kidneys (retroperitoneal); 5, spleen; 6, jejunum; 7, descending duodenum.

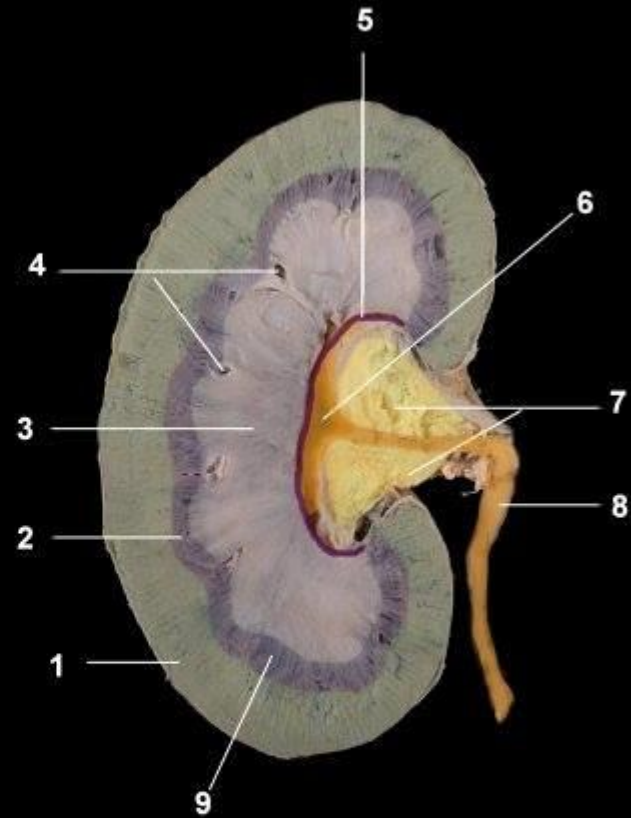








- 1: Medulla
- 2: Renal Pyramid
- 3: Cortex
- 4: Arcuate Arteries
- 5: Renal Crest



- 6: Renal Pelvis
- 7: Fat in Renal Sinus
- 8: Ureter
- 9: Corticomedullary Junction

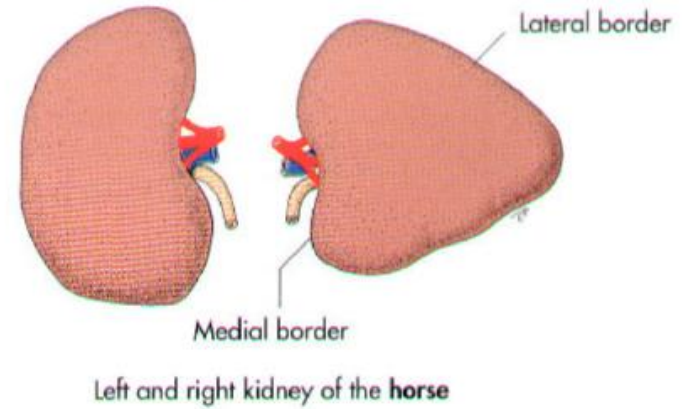
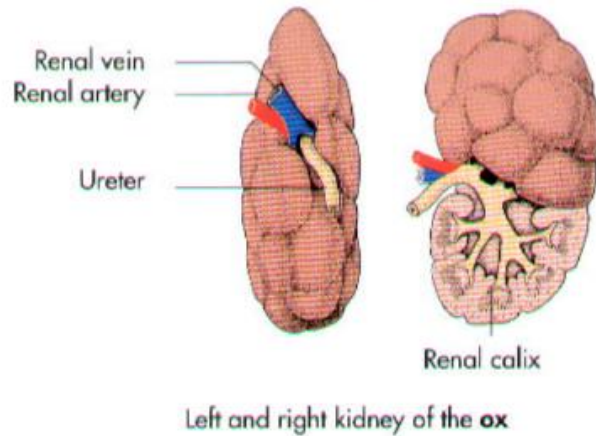
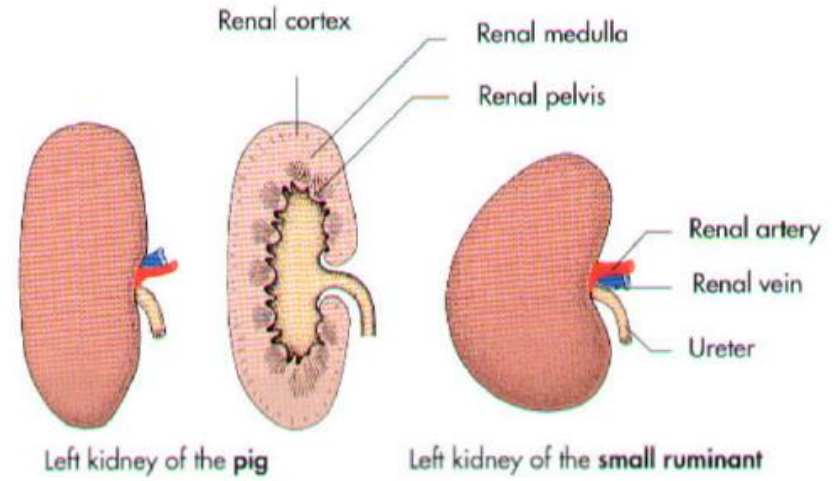
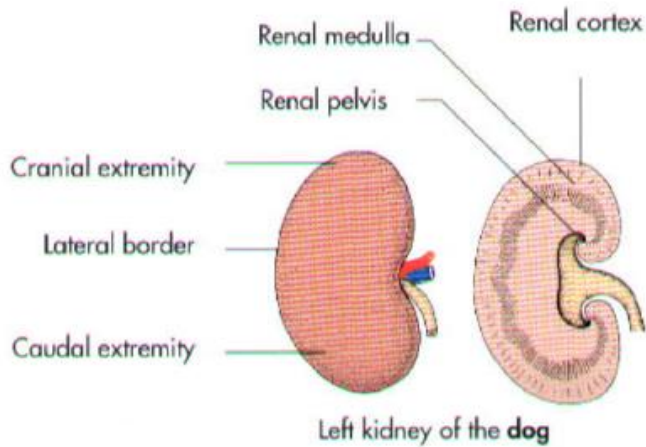


Renal calix

Ureter

Calix renalis





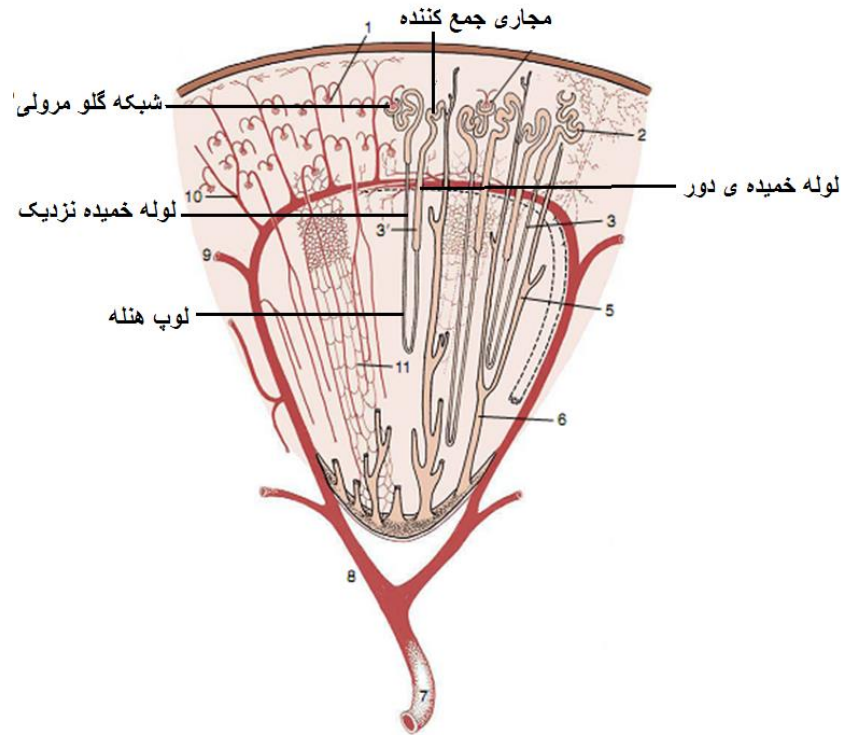
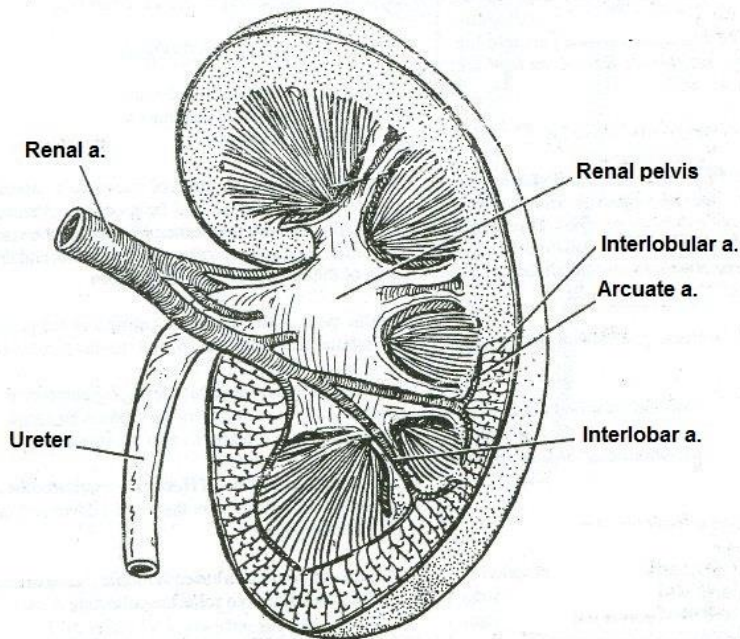




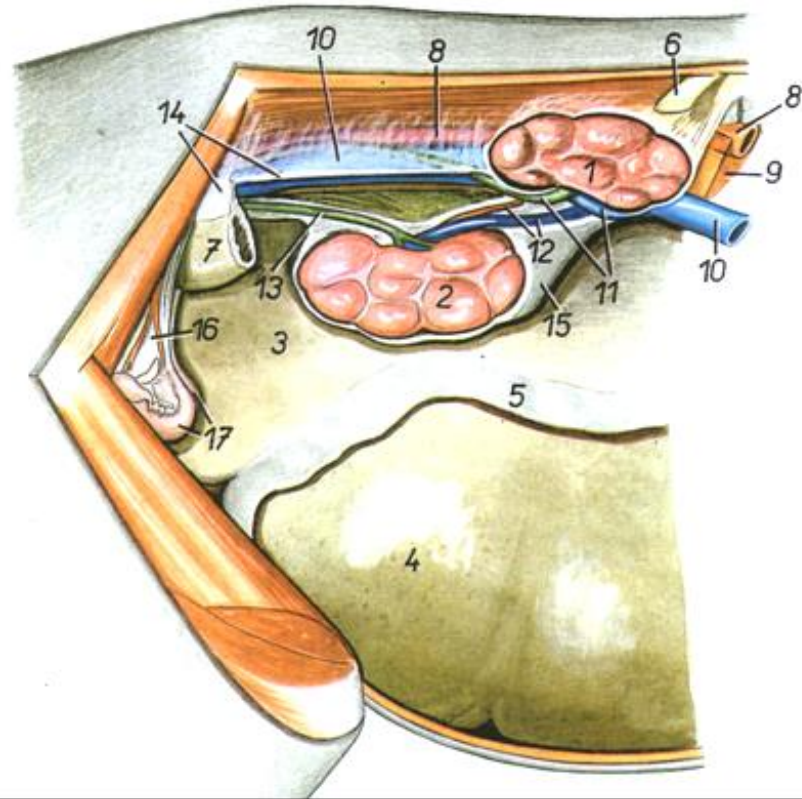
Figure 1 - Dorsal View, Left Kidney, Intrarenal arterial pattern and pelvis. (R: Renal artery; D: Dorsal branch of renal artery; V: Ventral branch of renal artery; I: Interlobar artery; a: arcuate artery; i: Interlobular artery)

Bovine:

12-25 lobes (different size)

R → last rib & first 2 lumbar V.

L → L3 until L5 /



1) Rt. kidney 2) Lt. kidney 3) Caudodorsal blind sac of rumen 4) Caudoventral blind sac of rumen 5) Deep layer of greater omentum 6) 13 th rib 7) Descending colon 8) Aorta 9) Lt & Rt Diaphragmatic crura 10) Caudal vena cava 11) Rt. ureter, Rt renal V 12) Lt. renal a & v 13) Lt ureter 14) Mesocolon 15) Adipose capsule 16) Broad lig. 17) Horns of uterus

♂
(ventral)

1 Right kidney

2 Renal a. and v.

3 Ureter

4 Medial iliac Inn.

5 Sacral Inn.

6 Iliofemoral Inn.

7 Adrenal gl.

8 Lumbar aortic Inn.

9 Renal Inn.

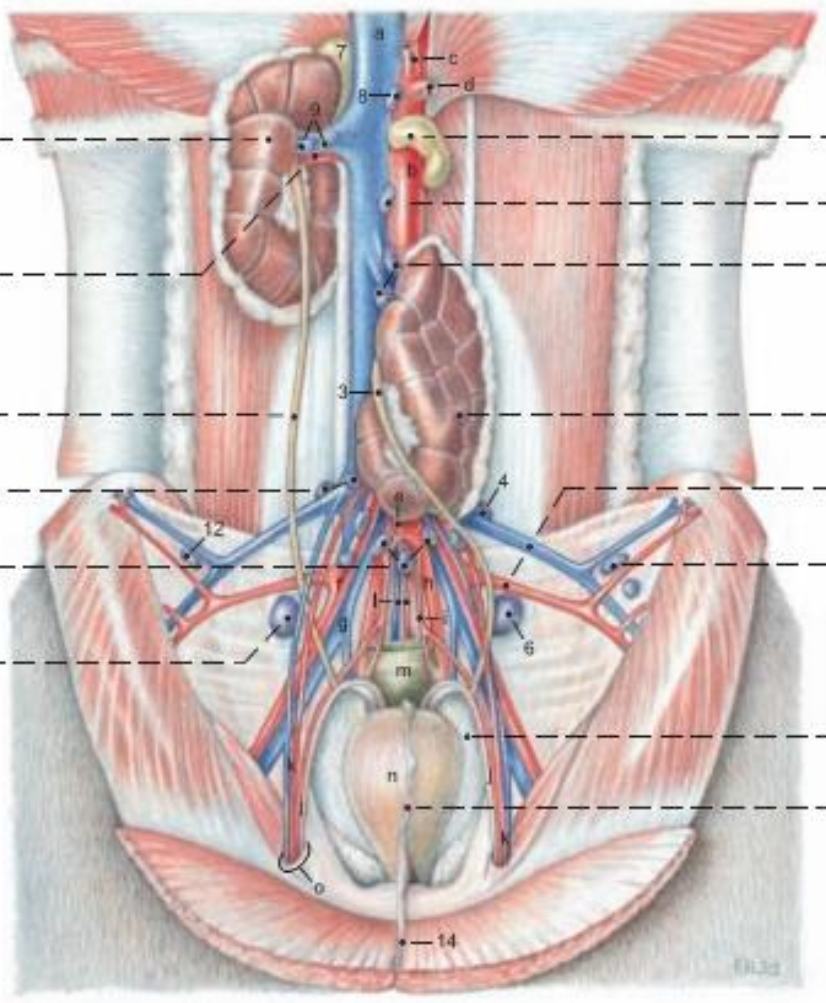
10 Left kidney (on the left in dorsal recumbency only)

11 Deep circumflex iliac a. and v.

12 Lateral iliac Inn.

13 Lat. lig. of bladder

14 Median lig. of bladder



(See p. 81)

Small ruminat:

Bean shaped

100-160 g

R → first 3 lumbar

L → L3 until L6

Peripheral fat (left)

Smaller than dog & cat

kidney of Goat is longer than the Sheep



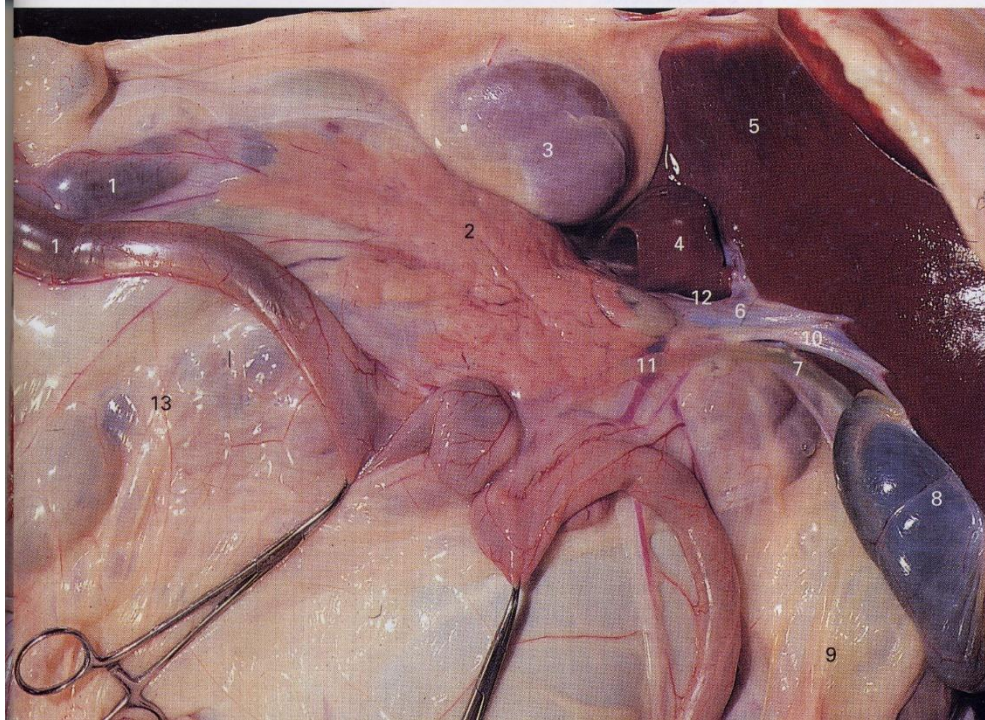
335. Dorsal view of the right kidney of a sheep. The renal capsule has been removed.

- | | |
|------------------|------------------|
| 1 Cranial pole | 4 Dorsal surface |
| 2 Lateral border | 5 Hilus |
| 3 Caudal pole | |



336. Dorsal section of the right kidney of a sheep seen from the dorsal aspect.

- | | |
|-----------------------------|---------------------------------------|
| 1 Cranial pole | 7 Lobar vessels |
| 2 Renal pelvis | 8 Outer medulla |
| 3 Corticomedullary junction | 9 Inner medulla |
| 4 Renal crest | 10 Fat lying in the renal sinus |
| 5 Cortex | 11 Renal end of the ureter in section |
| 6 Lateral border | |



318. Right view of the pancreas and related structures in a sheep.

- | | |
|---|---|
| 1 Descending duodenum | 8 Gall bladder |
| 2 Pancreas | 9 Lesser omentum |
| 3 Right kidney | 10 Cystic duct |
| 4 Caudate lobe of the liver | 11 Common bile duct |
| 5 Visceral surface of the right lobe of the liver | 12 Omental (epiploic) foramen |
| 6 Portal vein | 13 Superficial sheet of the greater omentum |
| 7 Bile duct | |

Horse:

Renal crest

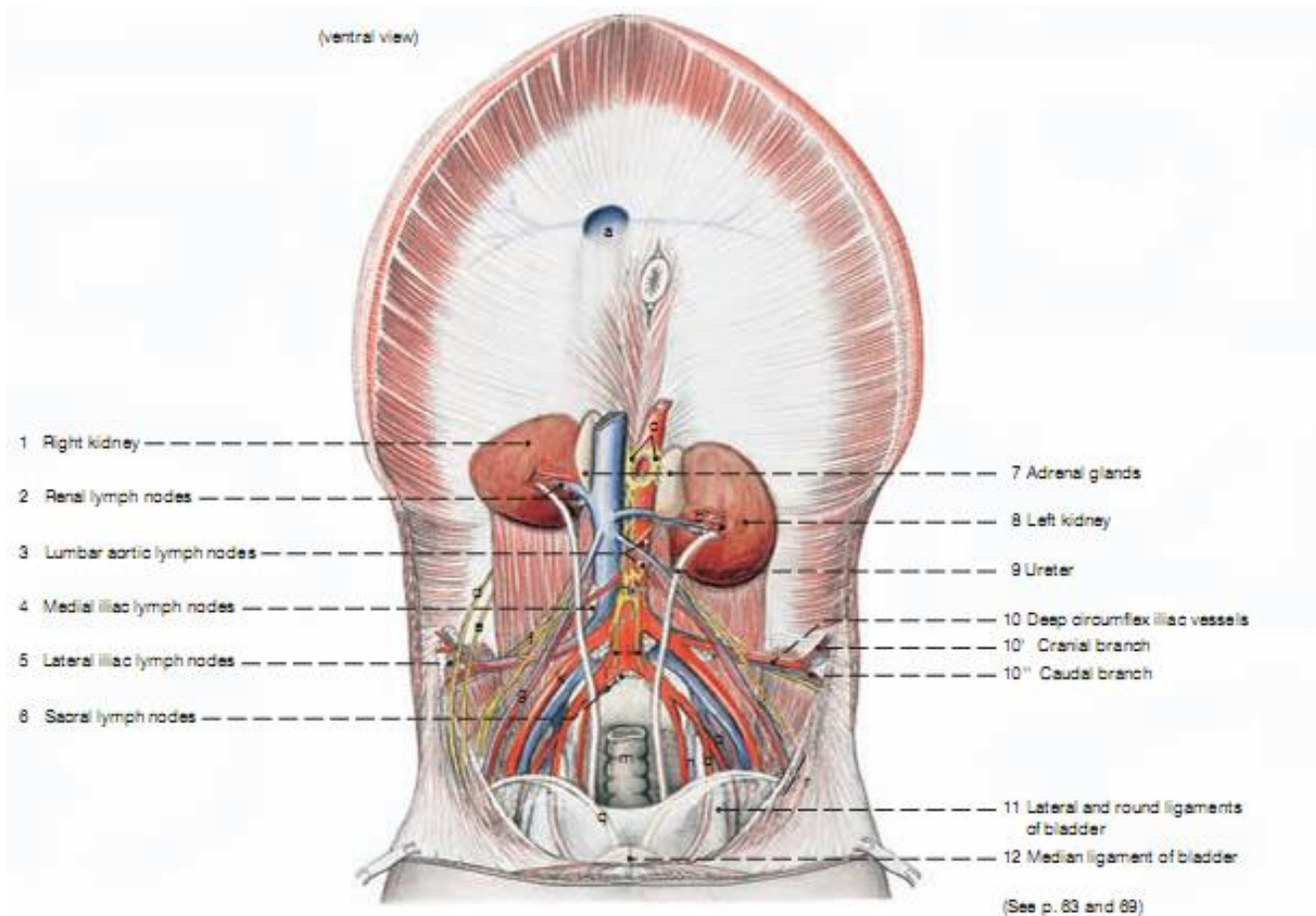
Right kidney → last 2-3 thoracic V and first lumbar V./heart shaped

Entirely covered by the ribs

Left kidney

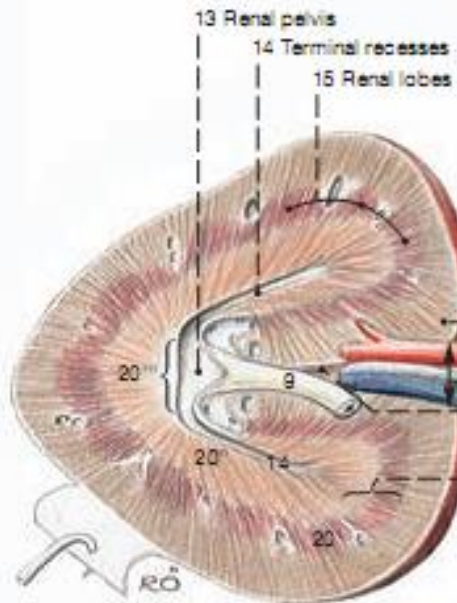
18th - - - L2-L3

Cranial pole of Left kidney → hilus of Right kidney.



Right Kidney

sectioned through hilus and poles



13 Renal pelvis

14 Terminal recesses

15 Renal lobes

18 Renal cortex

17 Renal hilus

18 Renal sinus

19 Interlobar vessels

20 Medulla

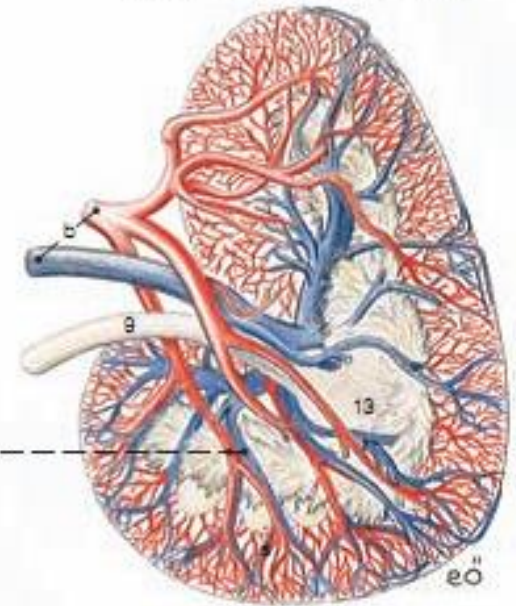
20' External part

20'' Internal part

20''' Renal crest

Left Kidney

cast of renal vessels and renal pelvis



e^o

Dog:

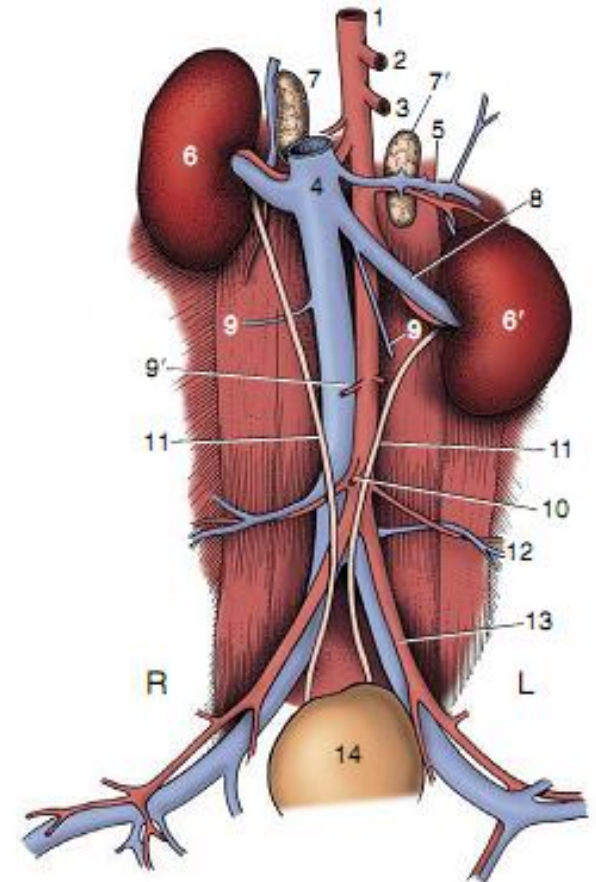
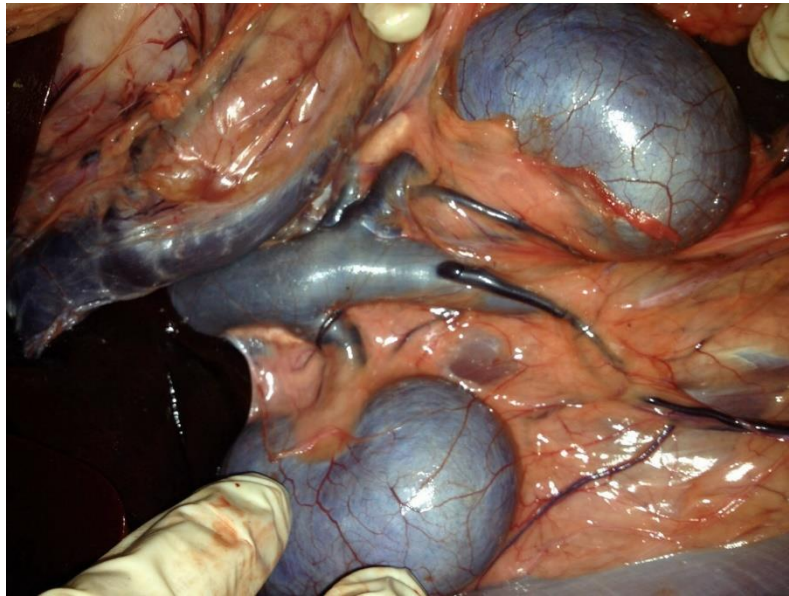
Dark brownish red or bluish red

W → 40-60 g

Right kidney → first 1-3 lumbar V.

L → less firmly fixed/ L2 until L4

The left kidney slightly heavier than right (2/3 cases)



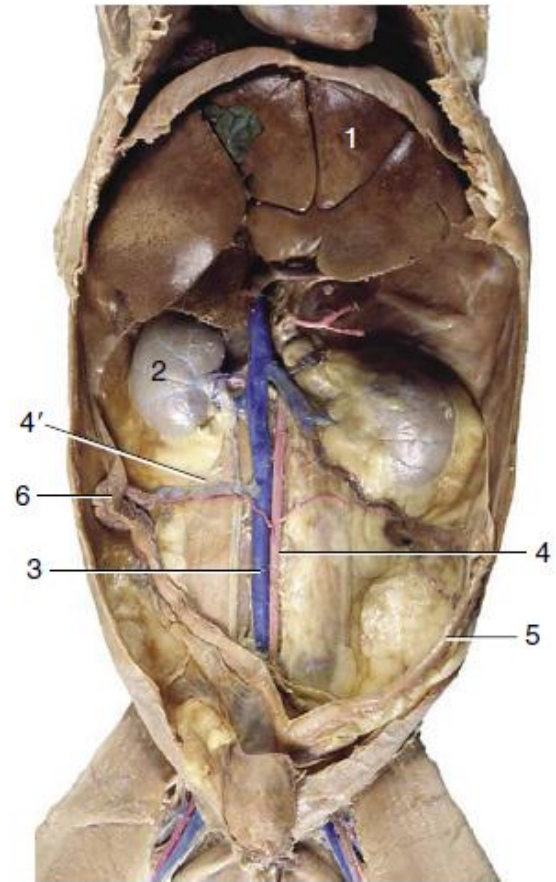
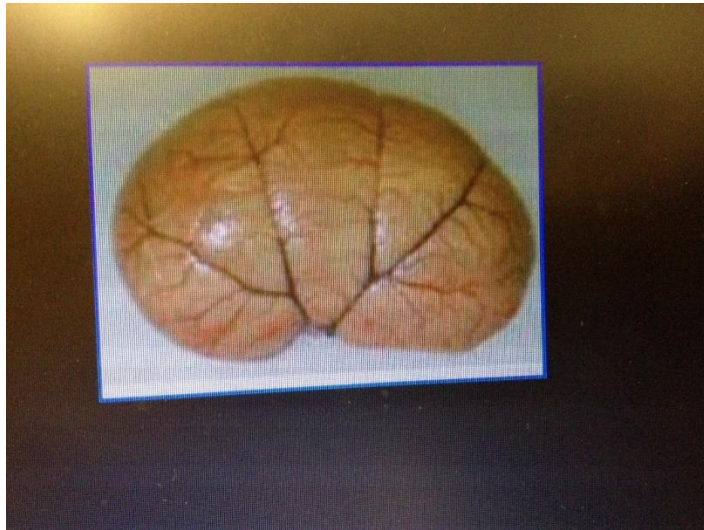
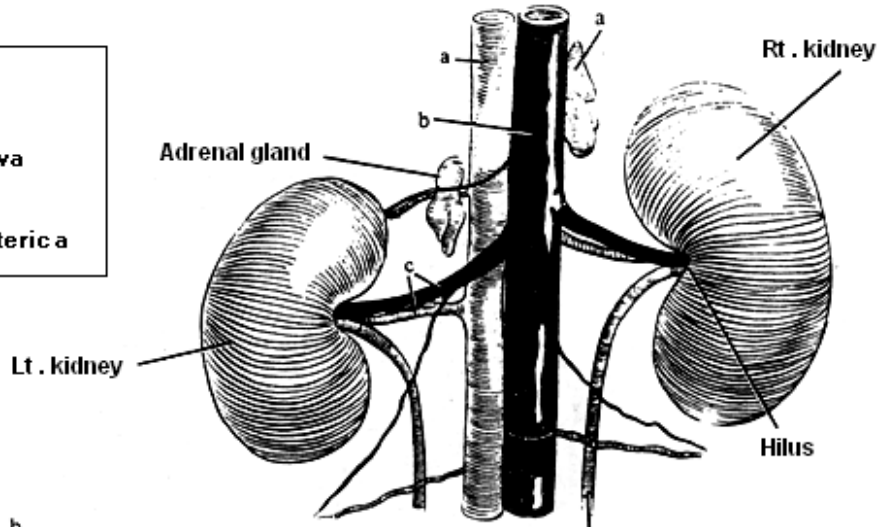
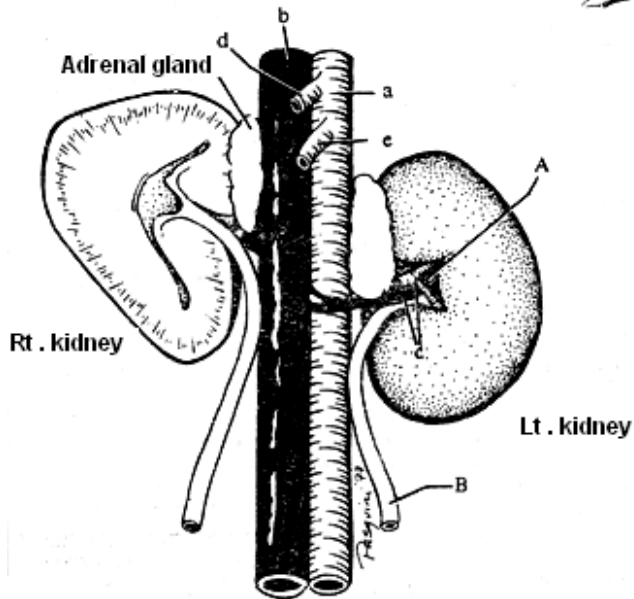


Figure 15-5 Ventral view of feline abdominal roof. 1, Liver; 2, kidneys (with stellate v.v.); 3, caudal vena cava (injected); 4, aorta; 4', ovarian a. (injected); 5, uterine horn; 6, ovary.

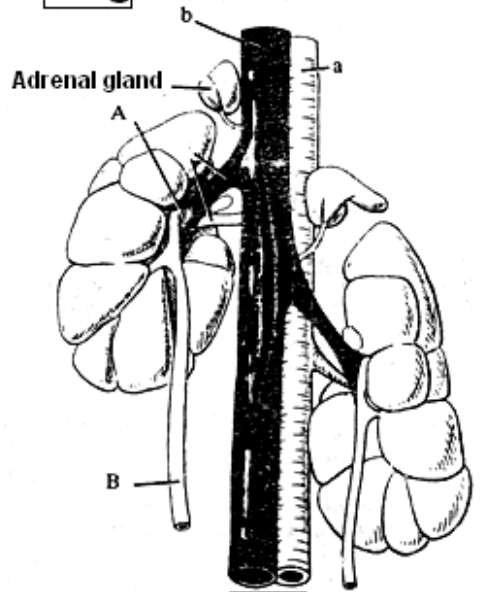
A: Hilus
B: Ureter
a: Aorta
b: Caudal vena cava
c: Renal a & v
d: Celiaca
e: Cranial Mesenteric a



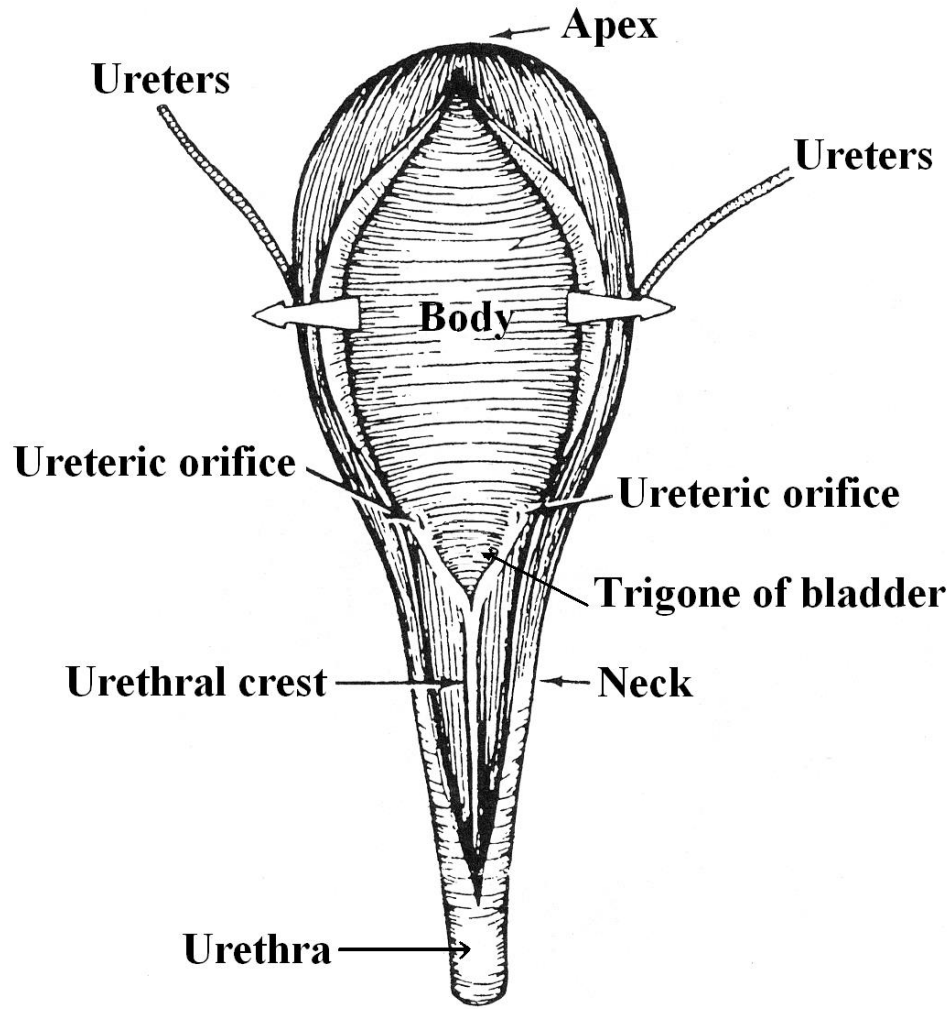
Dog

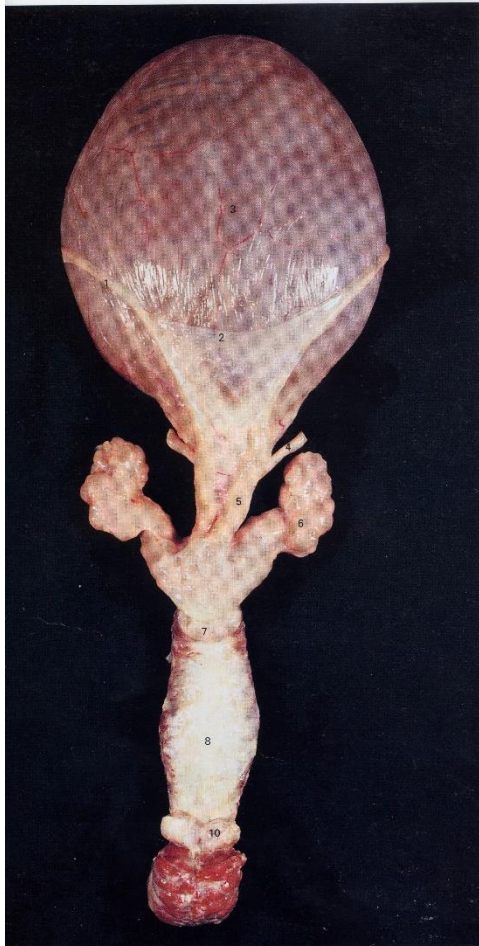


Horse



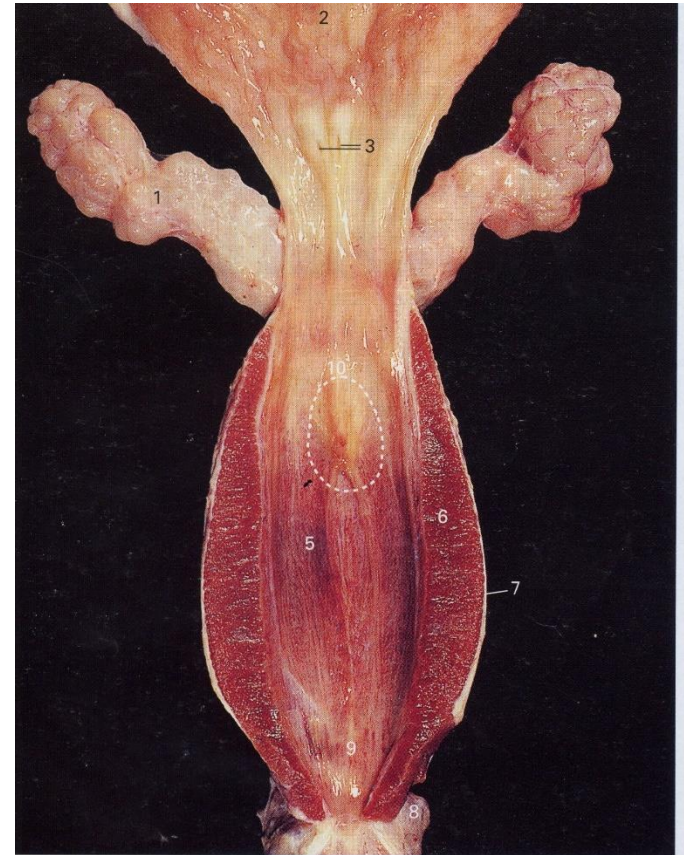
Ox





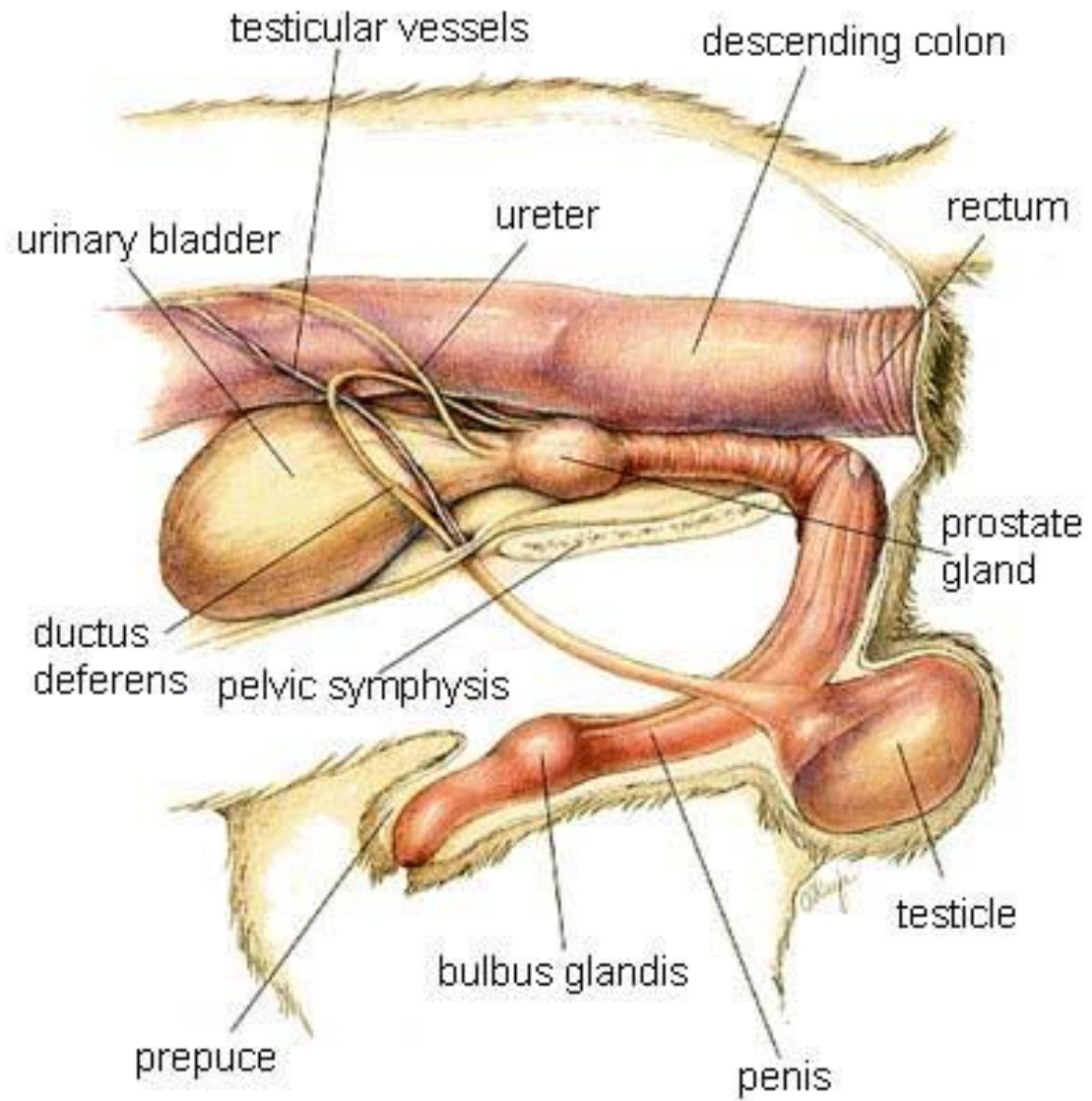
352. Dorsal view of the bladder, pelvic urethra and related structures in a bull.

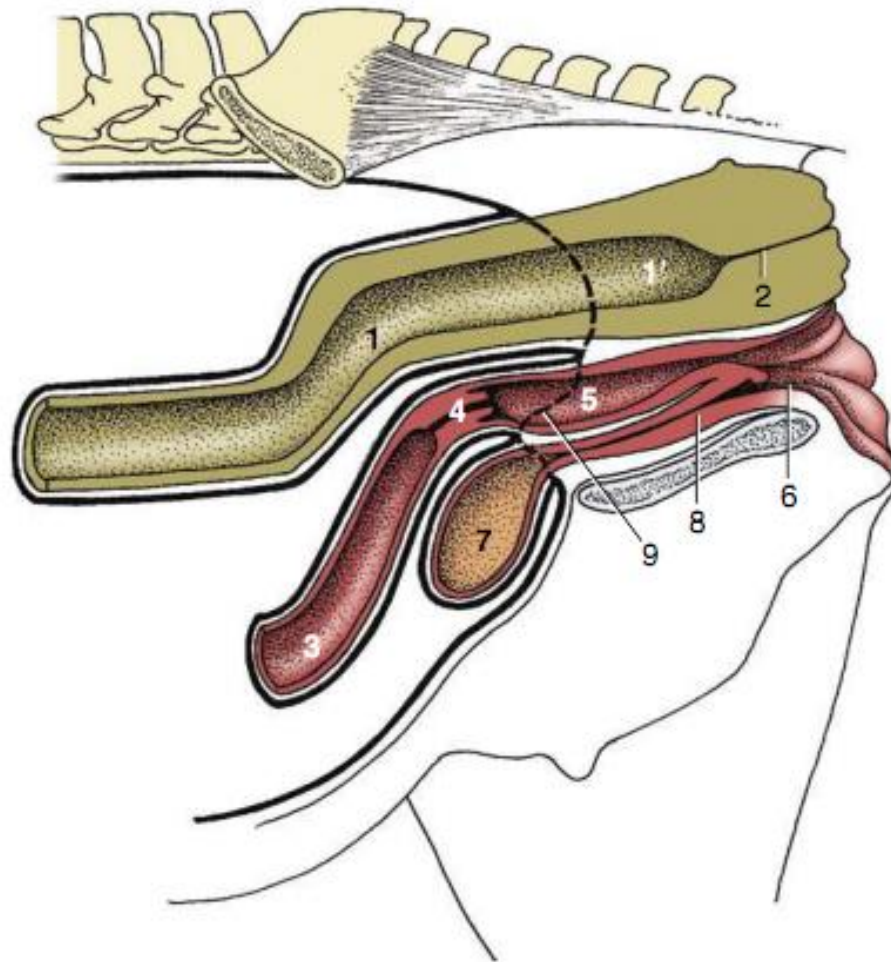
- | | |
|---|--|
| 1 Left deferent duct | 7 Body of the prostate gland |
| 2 Genital fold | 8 Dorsal tendinous part of the urethral muscle |
| 3 Bladder | 9 Fleahy part of the urethral muscle |
| 4 Right ureter | 10 Right lobe of the bulbourethral gland |
| 5 Right ampulla of the deferent duct | 11 Bulb of the penis |
| 6 Right vesicular gland (sometimes misleadingly called the seminal vesicle) | |



354. Bovine pelvic urethra opened from the ventral aspect.

- | | |
|---|---|
| 1 Right vesicular gland | 7 Fascia covering the urethral muscle |
| 2 Mucosa of the bladder | 8 Left bulbourethral gland |
| 3 Openings of the ureters | 9 Glandular openings |
| 4 Left vesicular gland | 10 Colliculus seminalis where the openings of the ejaculatory ducts are located |
| 5 Openings of the disseminate prostate glands | |
| 6 Urethral muscle | |





Schematic median section of the pelvis of the mare. 1, 1', Peritoneal and retroperitoneal parts of the rectum; 2, anal canal; 3, uterus; 4, cervix; 5, vagina; 6, vestibule; 7, bladder; 8, urethra; 9, caudal extent of peritoneum.

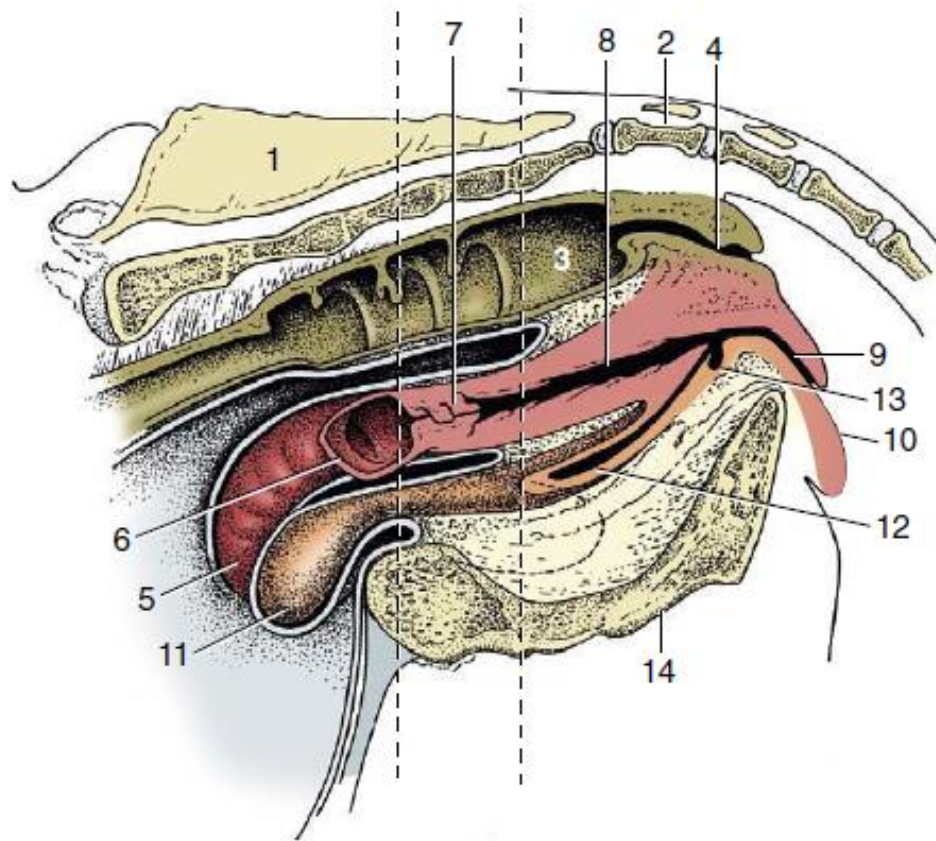


Figure 29–11 Median section of the bovine pelvis. The *two vertical broken lines* indicate the levels of the transverse sections in Figures 29–7 and 29–8. The position of the obturator foramen is indicated by a *broken outline*. 1, Sacrum; 2, first caudal vertebra; 3, rectum; 4, anal canal; 5, right uterine horn; 6, left uterine horn, mostly removed; 7, cervix; 8, vagina; 9, vestibule; 10, vulva; 11, bladder; 12, urethra; 13, suburethral diverticulum; 14, symphysis.



Thanks For Your Nice Attention