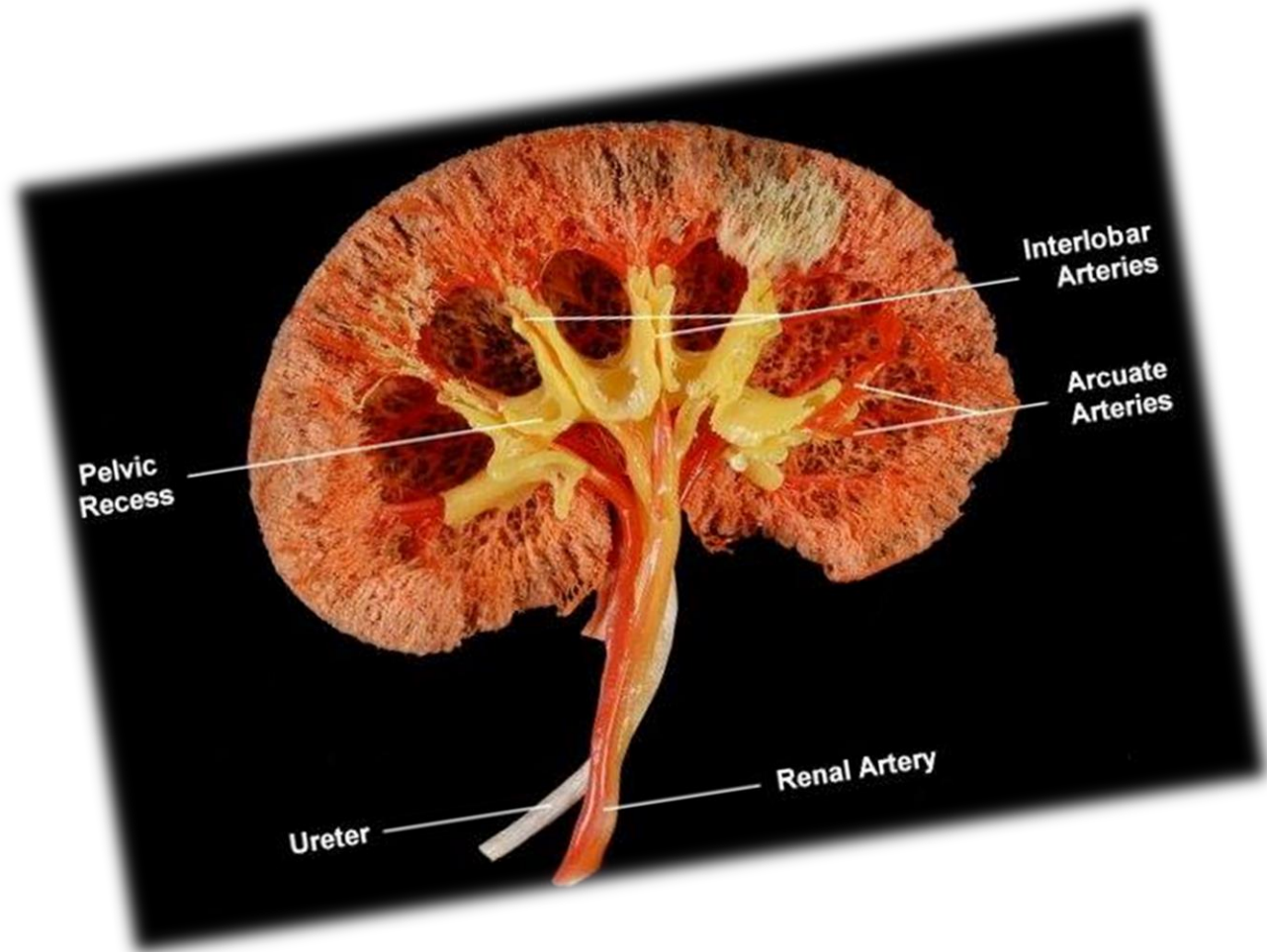


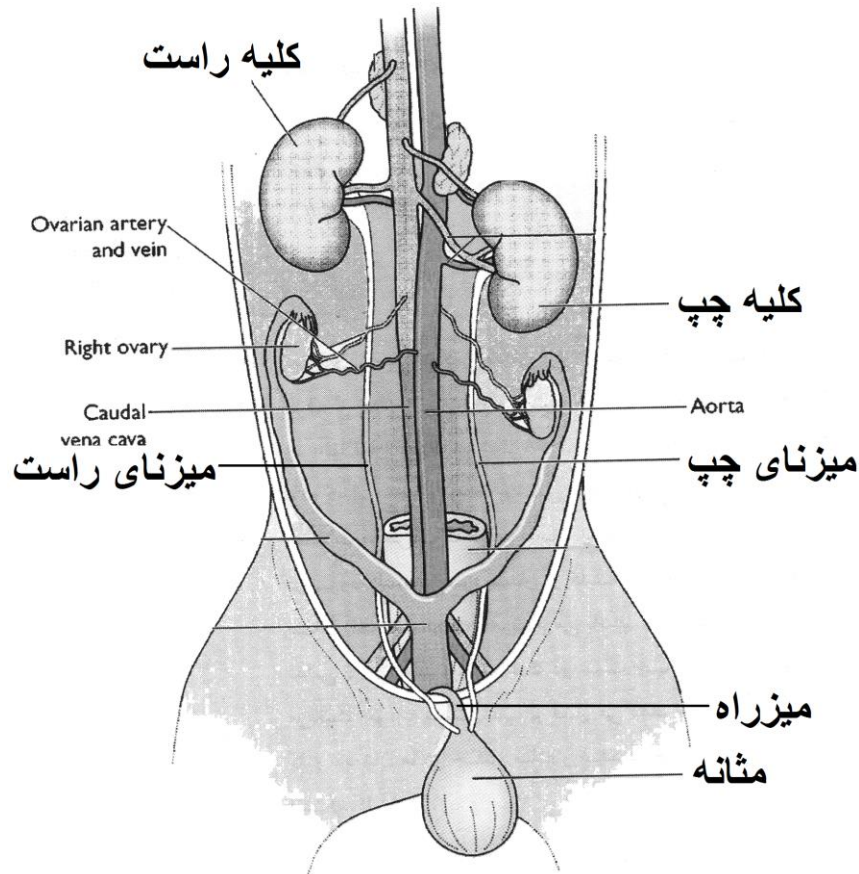
# Urogenital system

# دستگاه ادراری - تناسلی



# Urinary system

# دستگاه ادراری



کلیه Kidney

حالب (میزنای) Ureter

مثانه Urinary bladder

پیشابراه (میزراه) Urethra

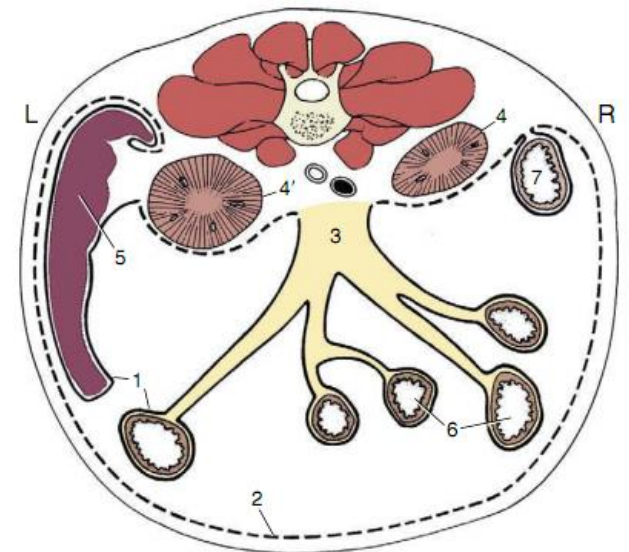
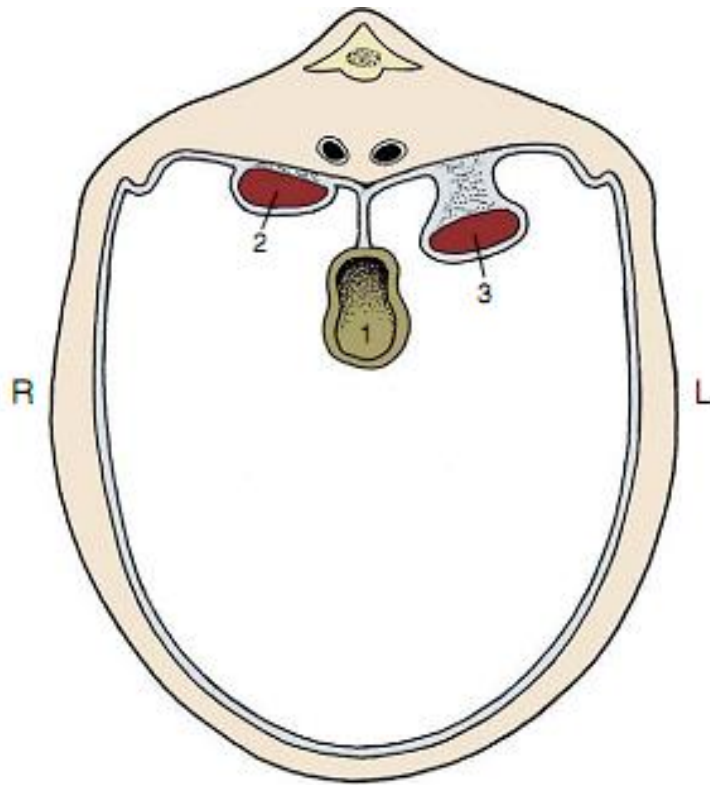
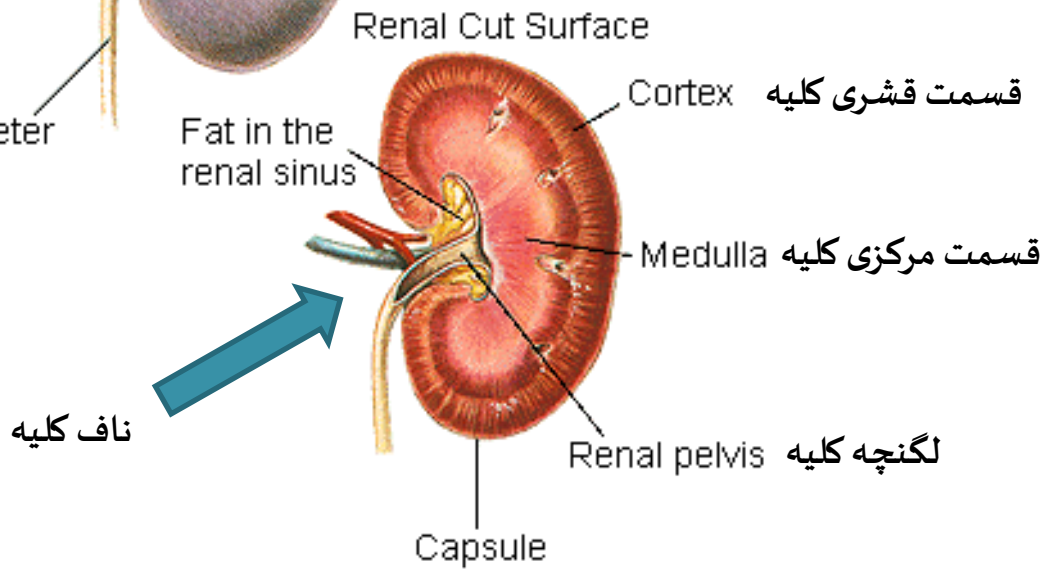
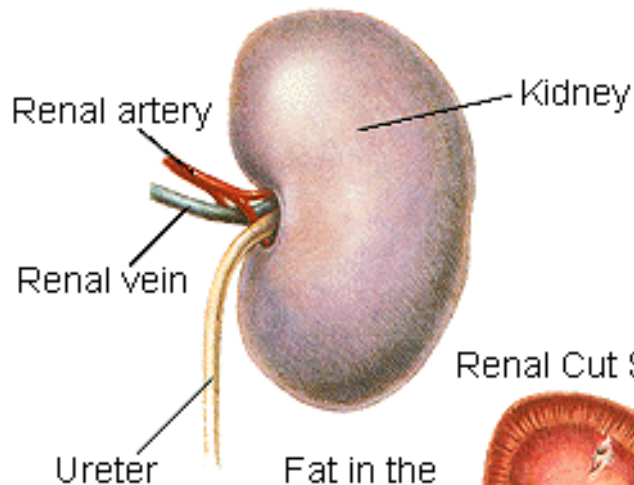
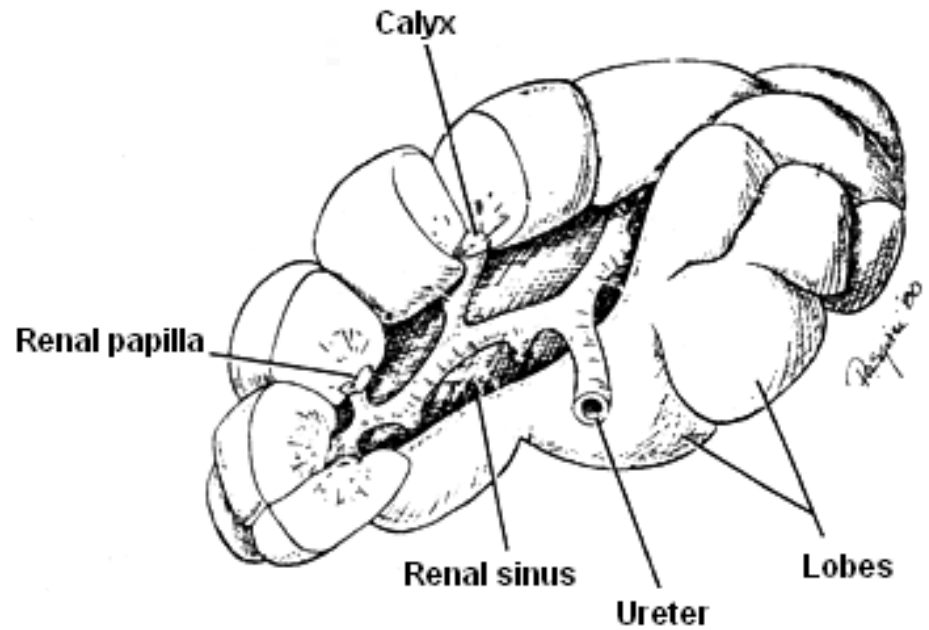
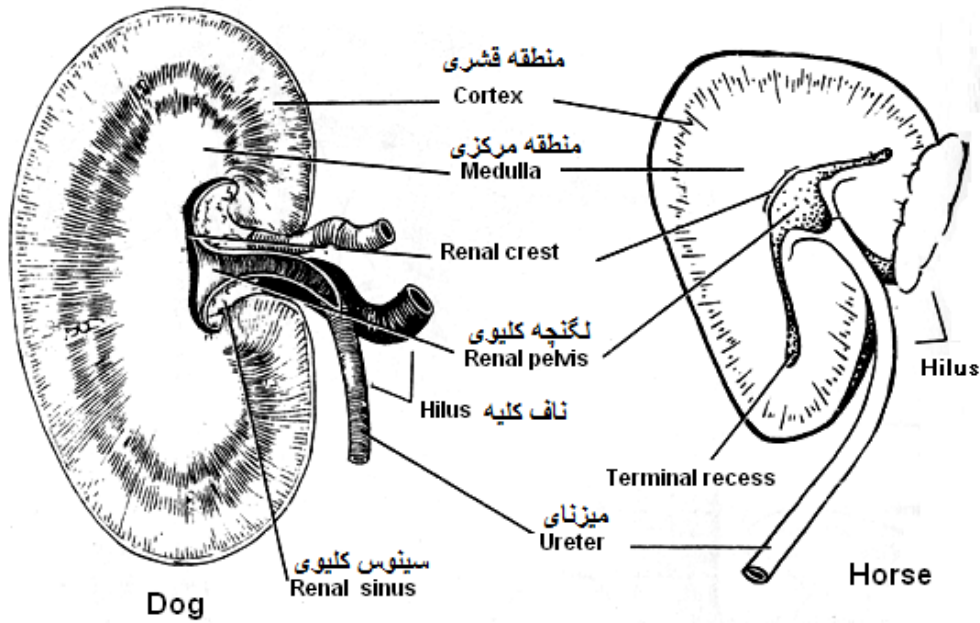
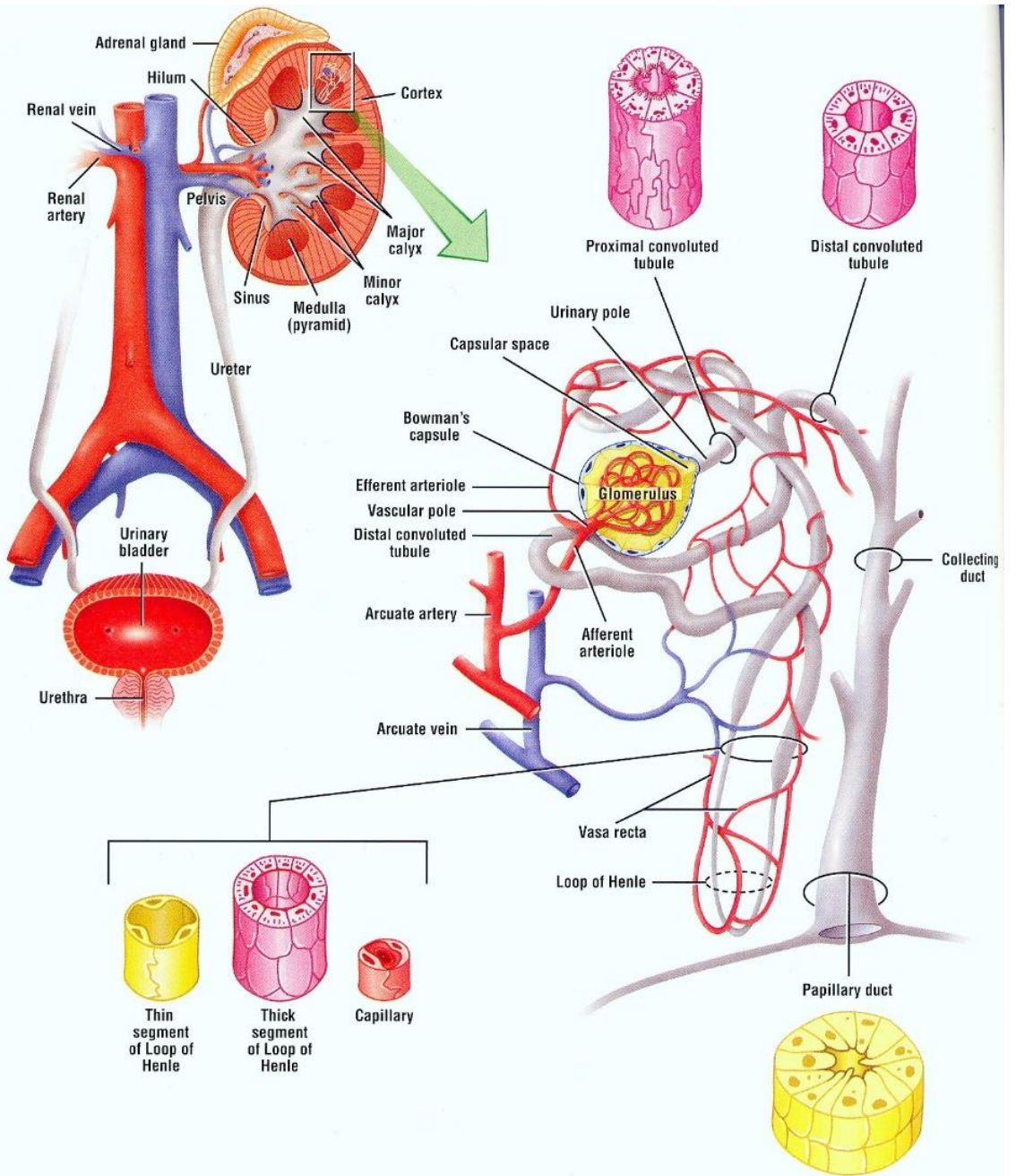


Figure 3-32 Schematic transverse section through the abdomen of the dog. 1, Visceral peritoneum (*continuous line*); 2, parietal peritoneum (*broken line*); 3, root of mesentery; 4, 4', right and left kidneys (retroperitoneal); 5, spleen; 6, jejunum; 7, descending duodenum.







**OVERVIEW FIGURE** ■ A sagittal section of the kidney showing the cortex and medulla, with blood vessels and the excretory ducts, including the pelvis and the ureter and a histologic comparison of the blood vessels, the different tubules of the nephron, and the collecting ducts.

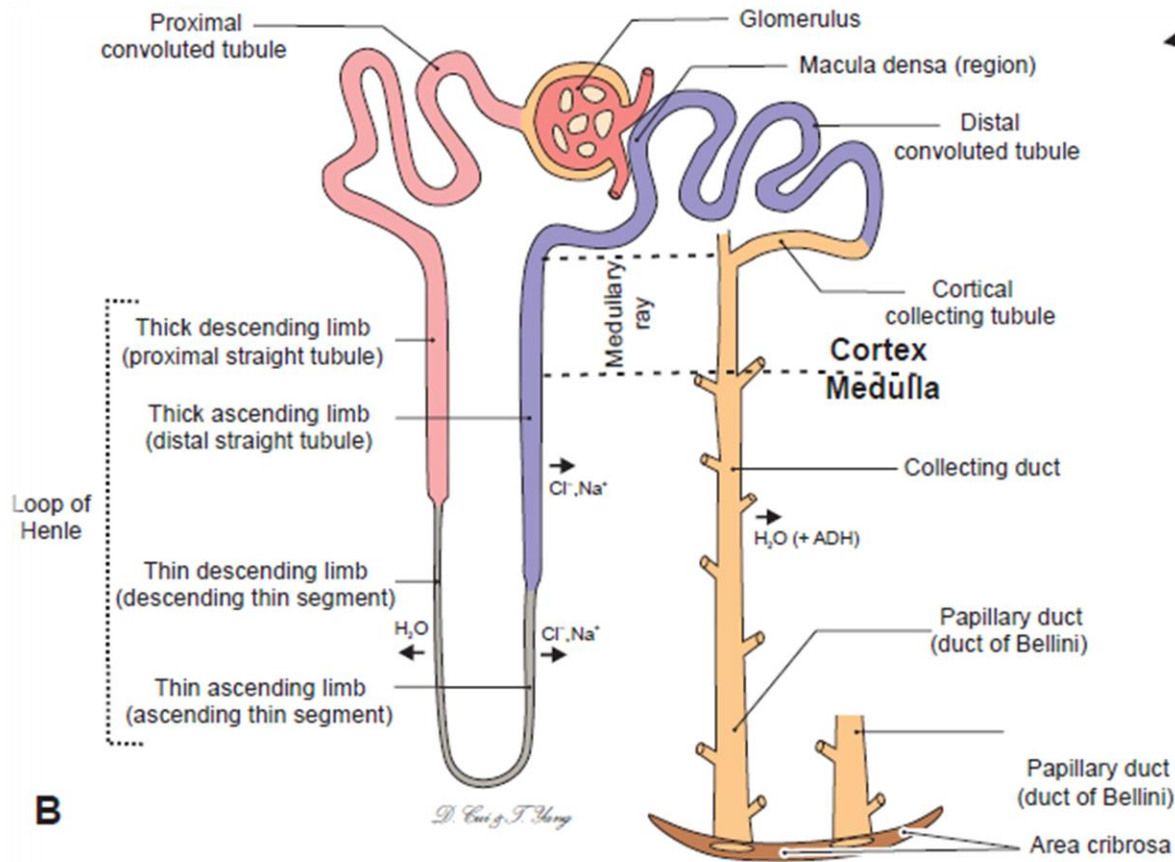
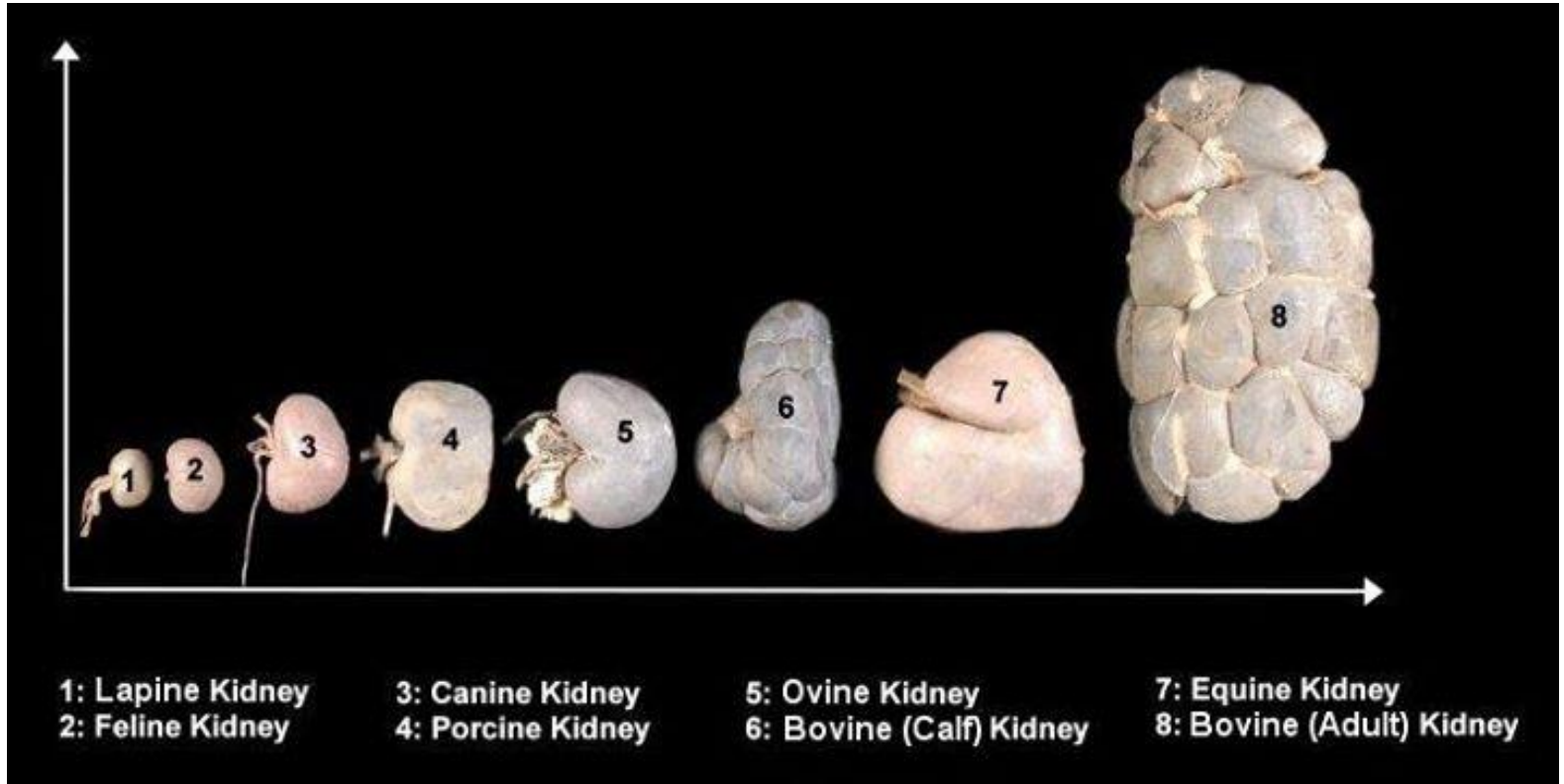


Figure 12-8B. The nephron and collecting system of the kidney.

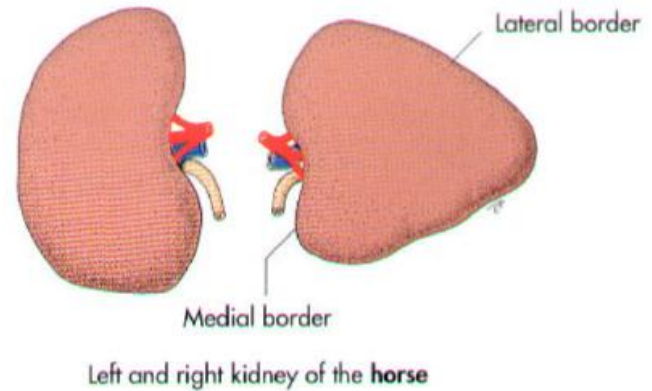
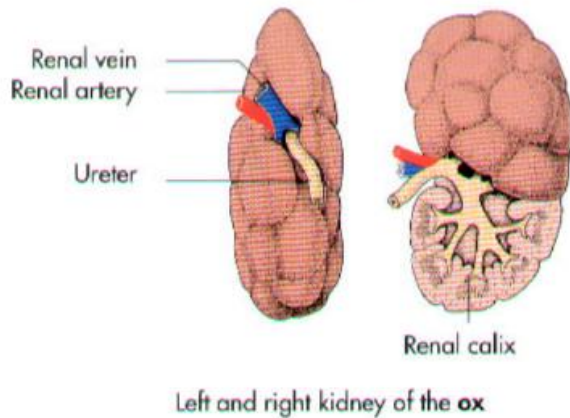
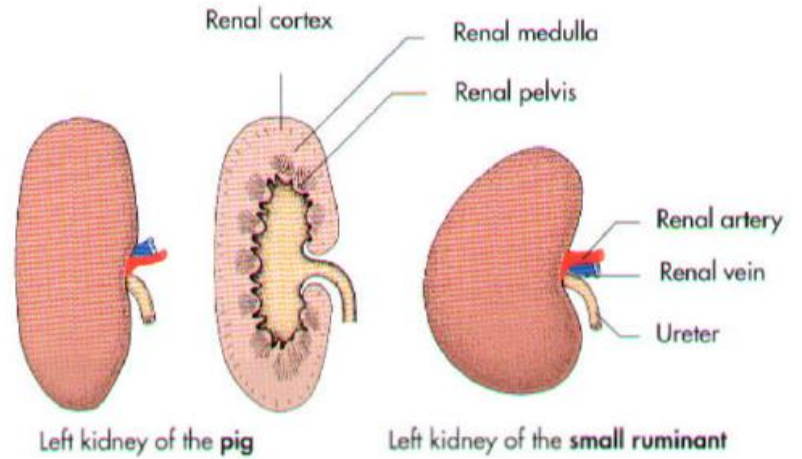
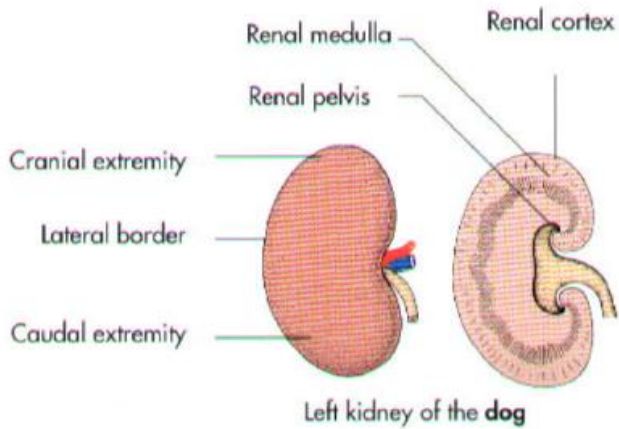
ساختار نفرون در کلیه ها

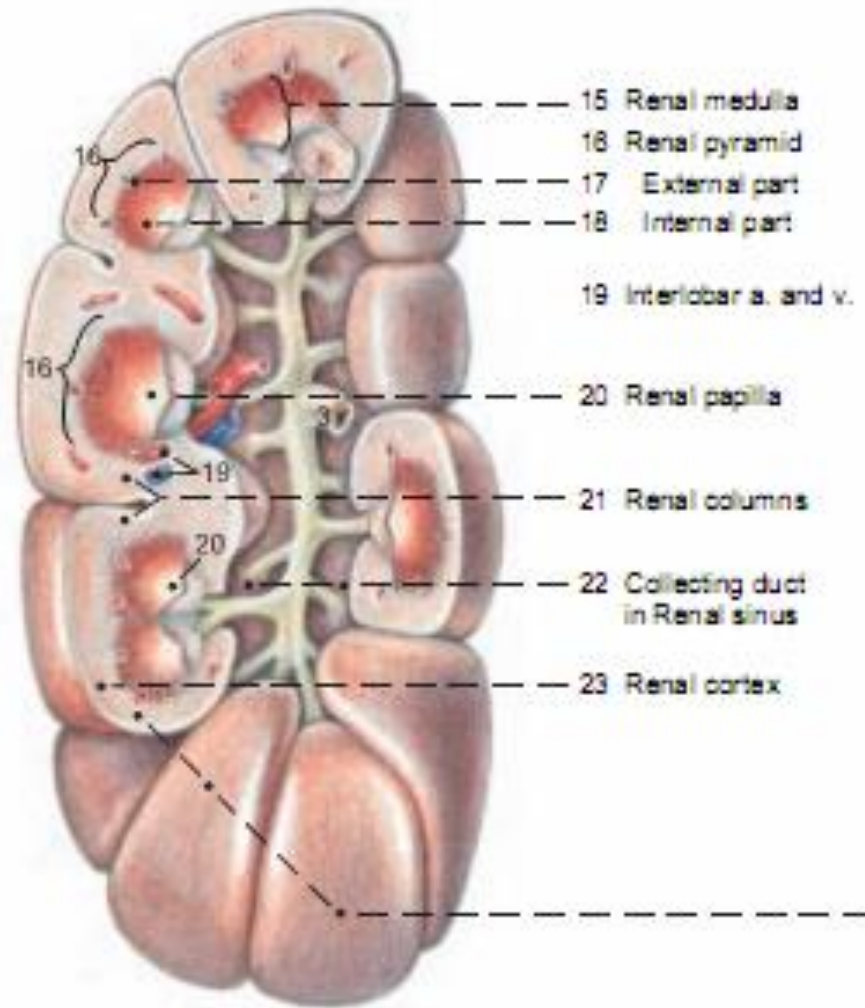


شکل کلیه در دام های مختلف

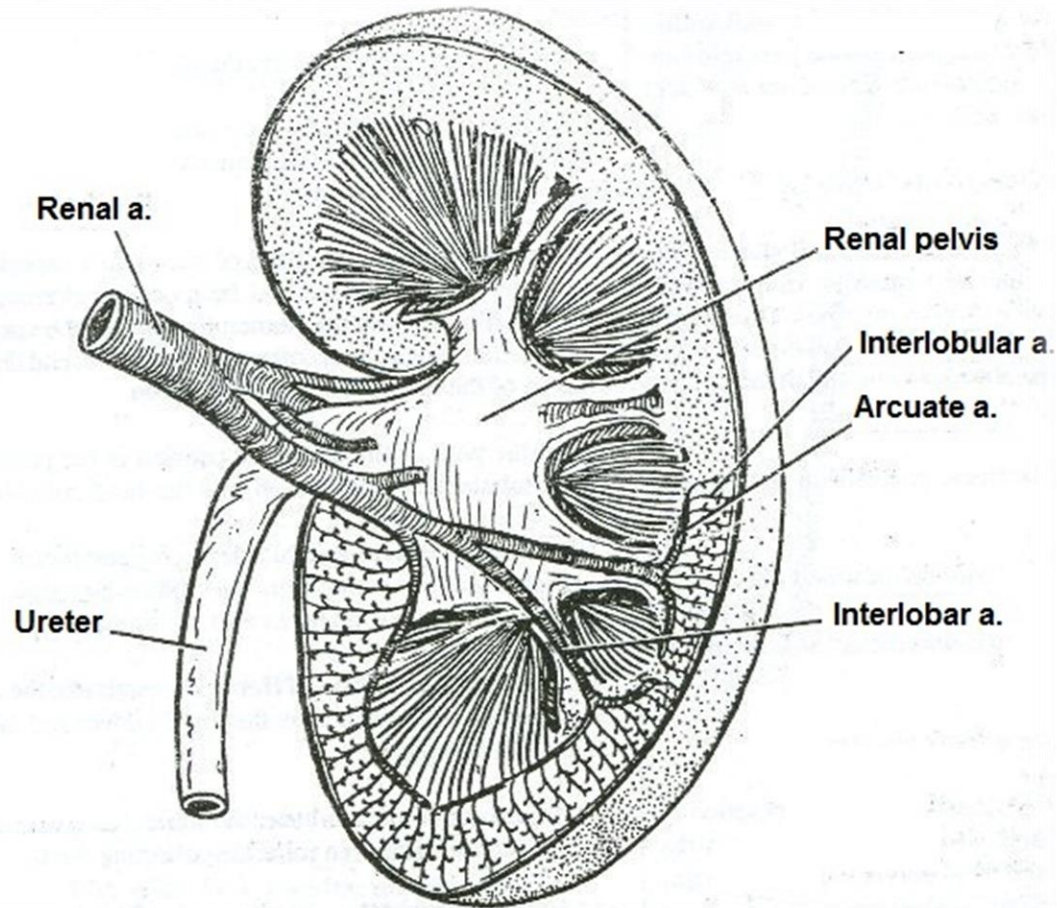




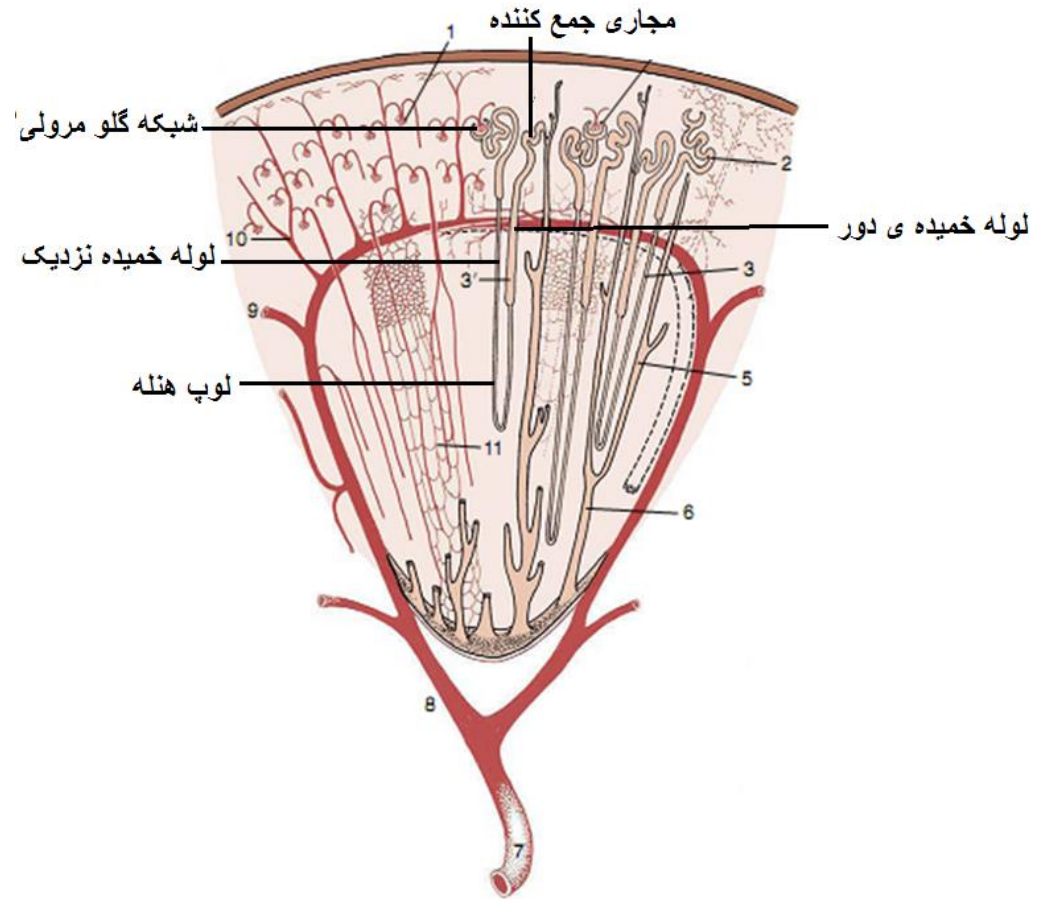


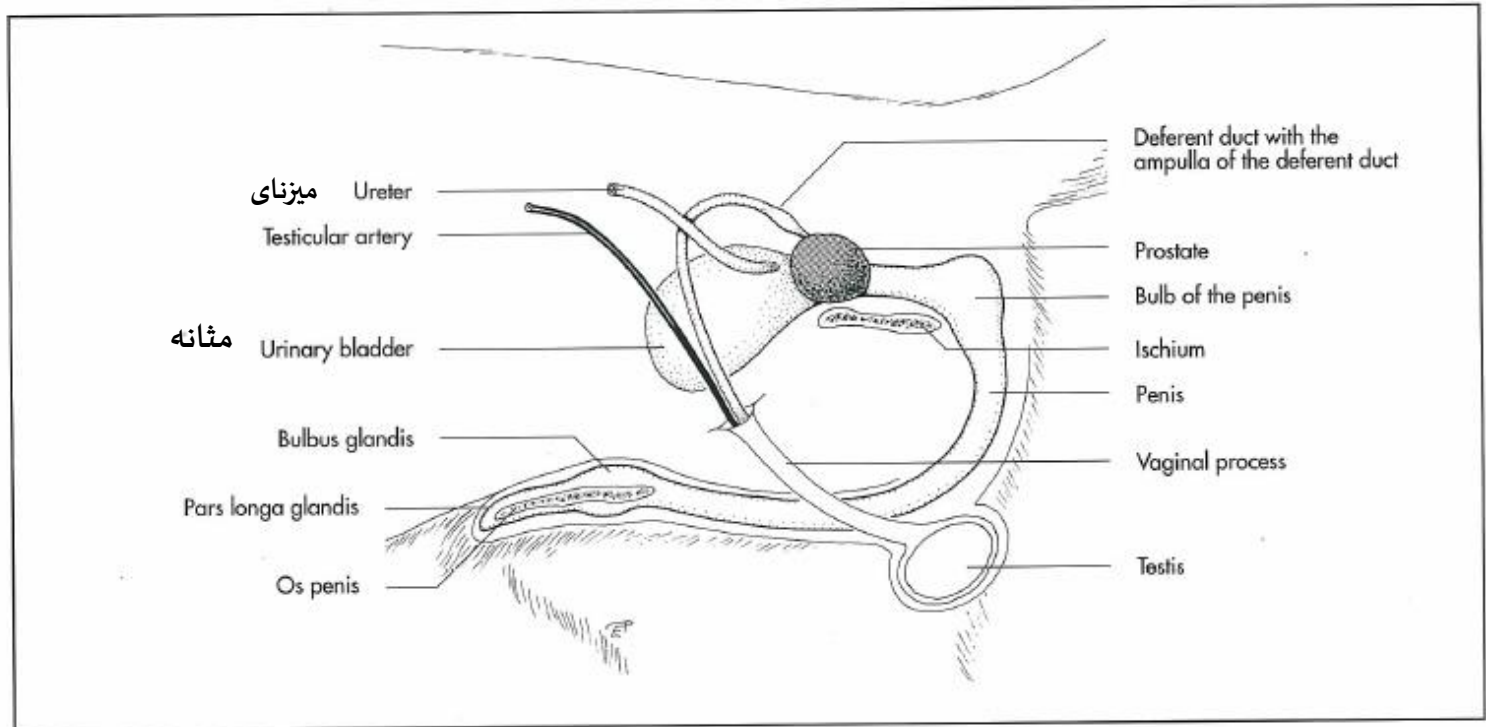


کلیه چپ در گاو

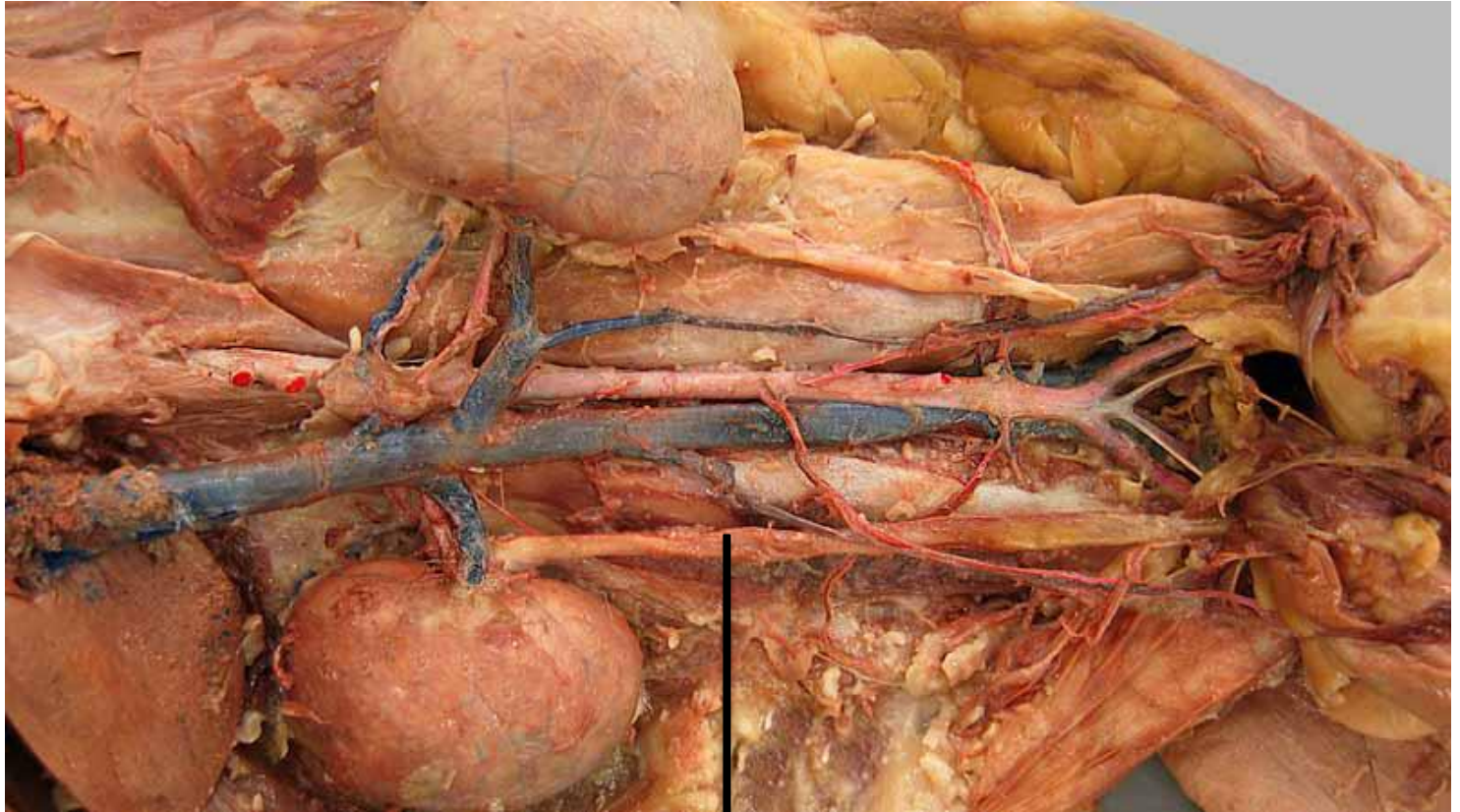


خونرسانی کلیه ها

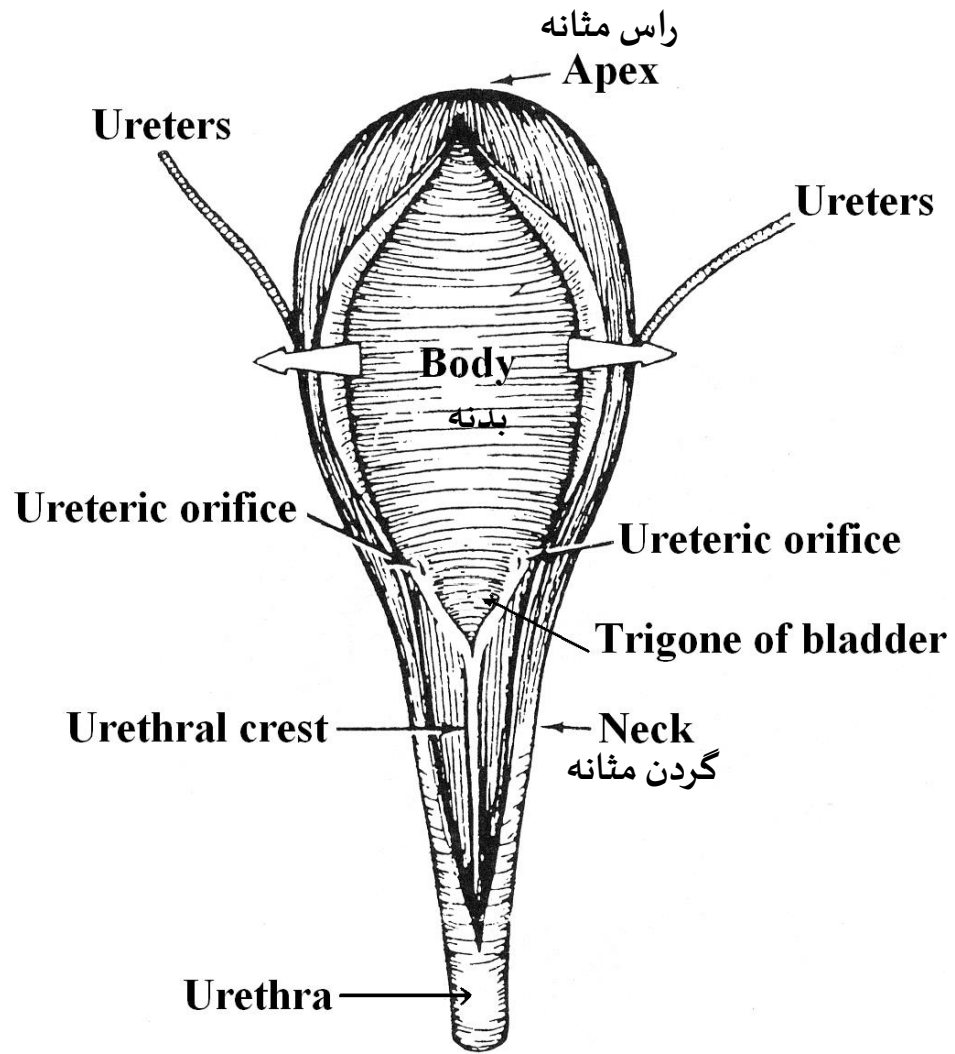




**Fig. 10-25.** Genital organs and accessory genital glands of the dog, schematic (Dyce et al., 1991).

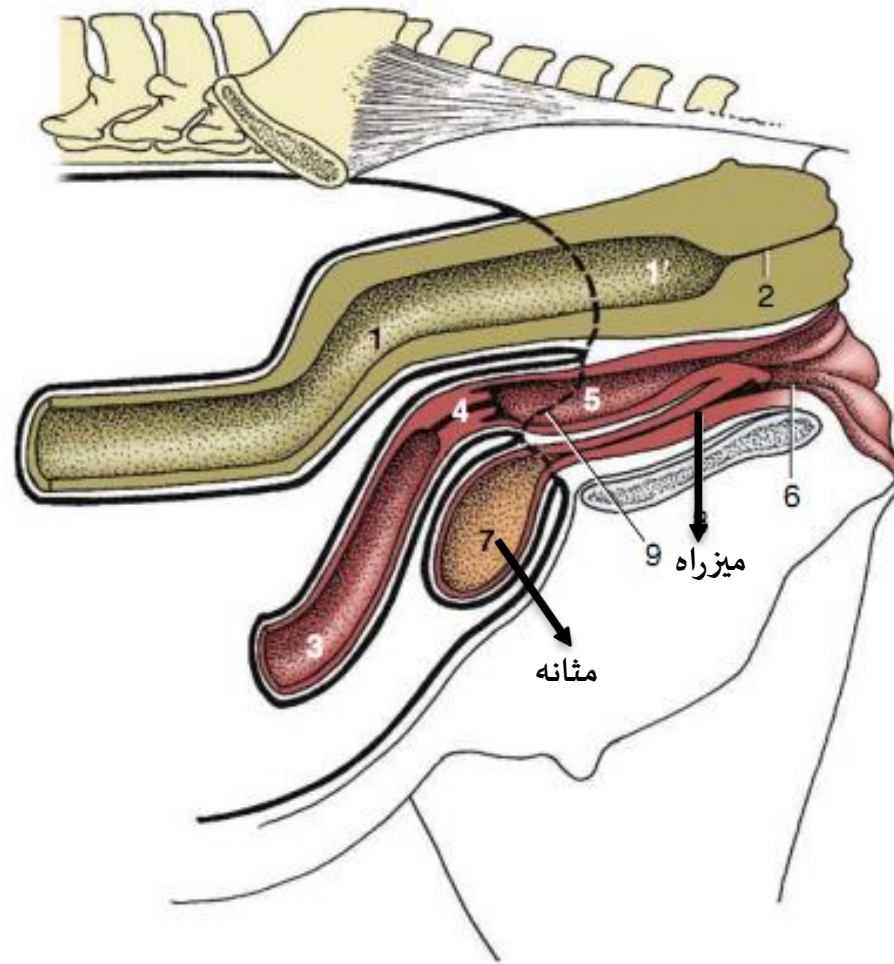


میزنای (حالب)

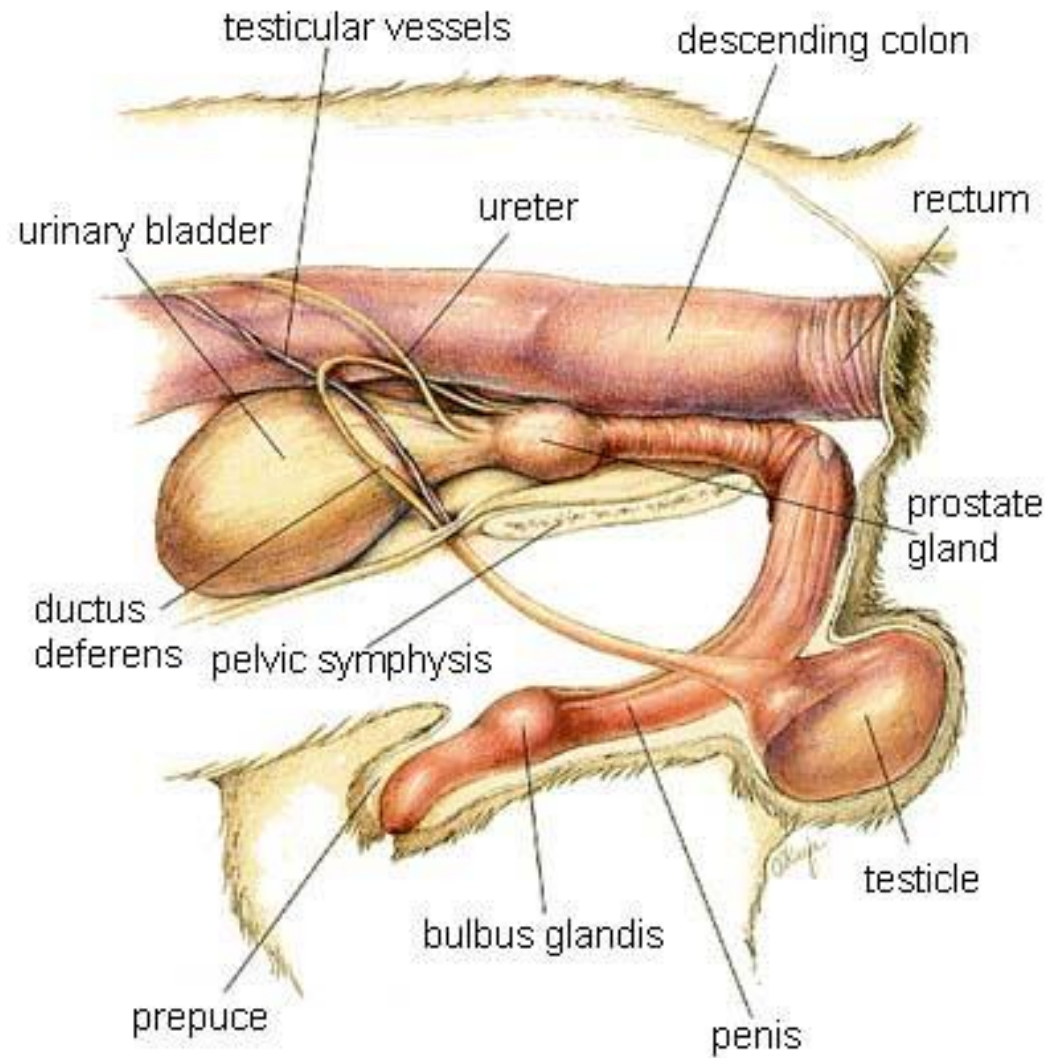


مثانه





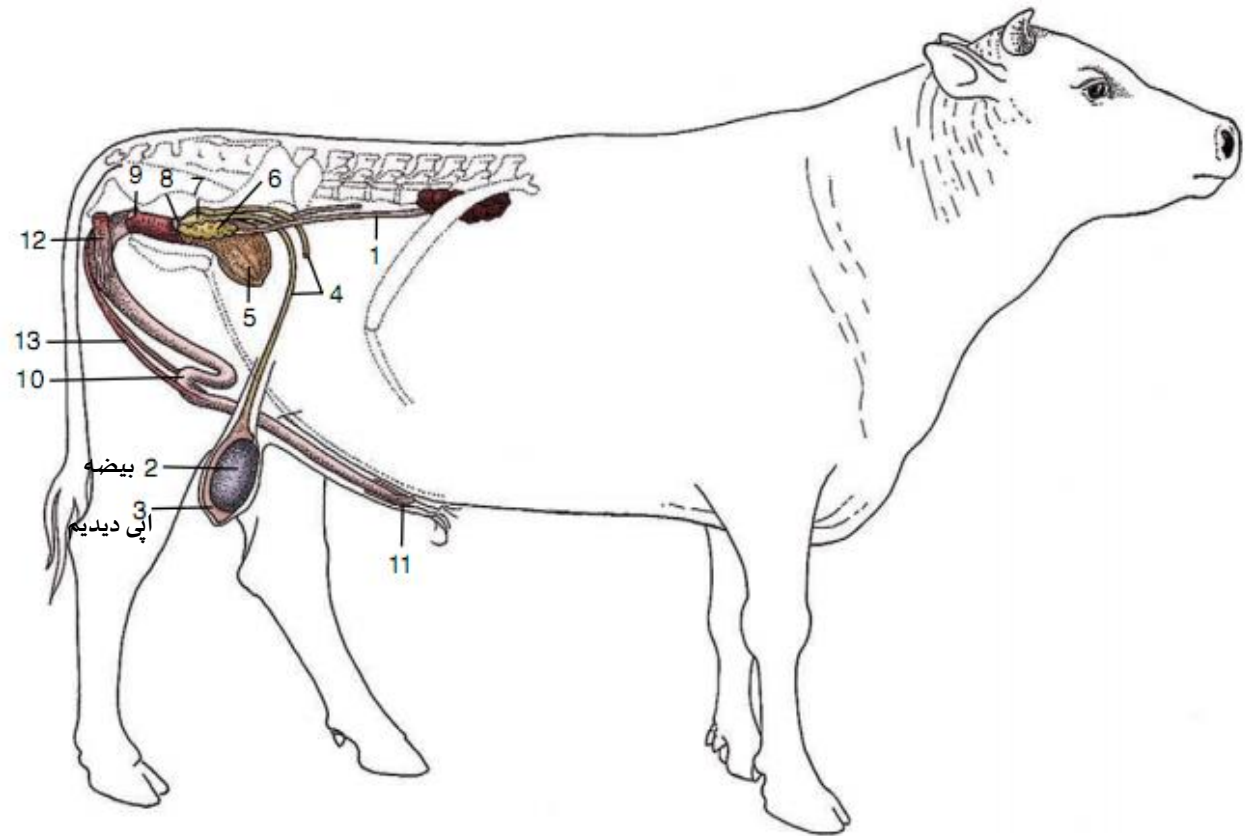
Schematic median section of the pelvis of the mare. 1, 1', Peritoneal and retroperitoneal parts of the rectum; 2, anal canal; 3, uterus; 4, cervix; 5, vagina; 6, vestibule; 7, bladder; 8, urethra; 9, caudal extent of peritoneum.



# Male Genital system

## دستگاه تناسلی نر

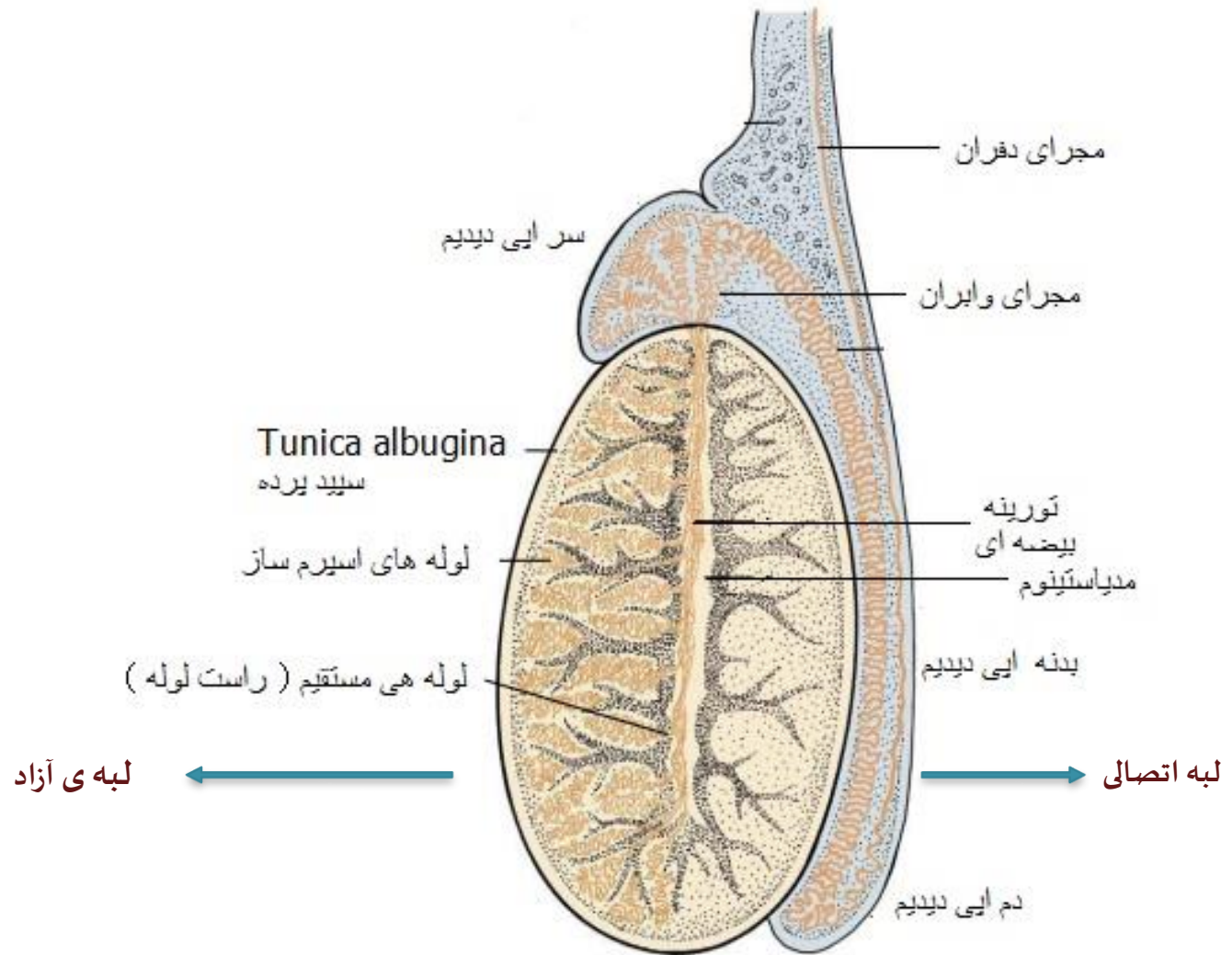
- دستگاه تناسلی نر از چهار بخش زیر تشکیل شده است :
- 1- گناد یا همان بیضه ها (Testis) که وظیفه تولید اسپرم و هورمونهای جنسی را به عهده دارند .
- 2- مجاری مانند اپی دیدیم و کانال دفران و میزراه که مشترک با سیستم ادراری است.
- 3- غدد ضمیمه ای که وظیفه تولید مایع منی ( Semen ) را به عهده دارند.
- 4- آلت تناسلی ( Penis ) که همان اندام جفت گیری در جنس نر به شمار می آید.

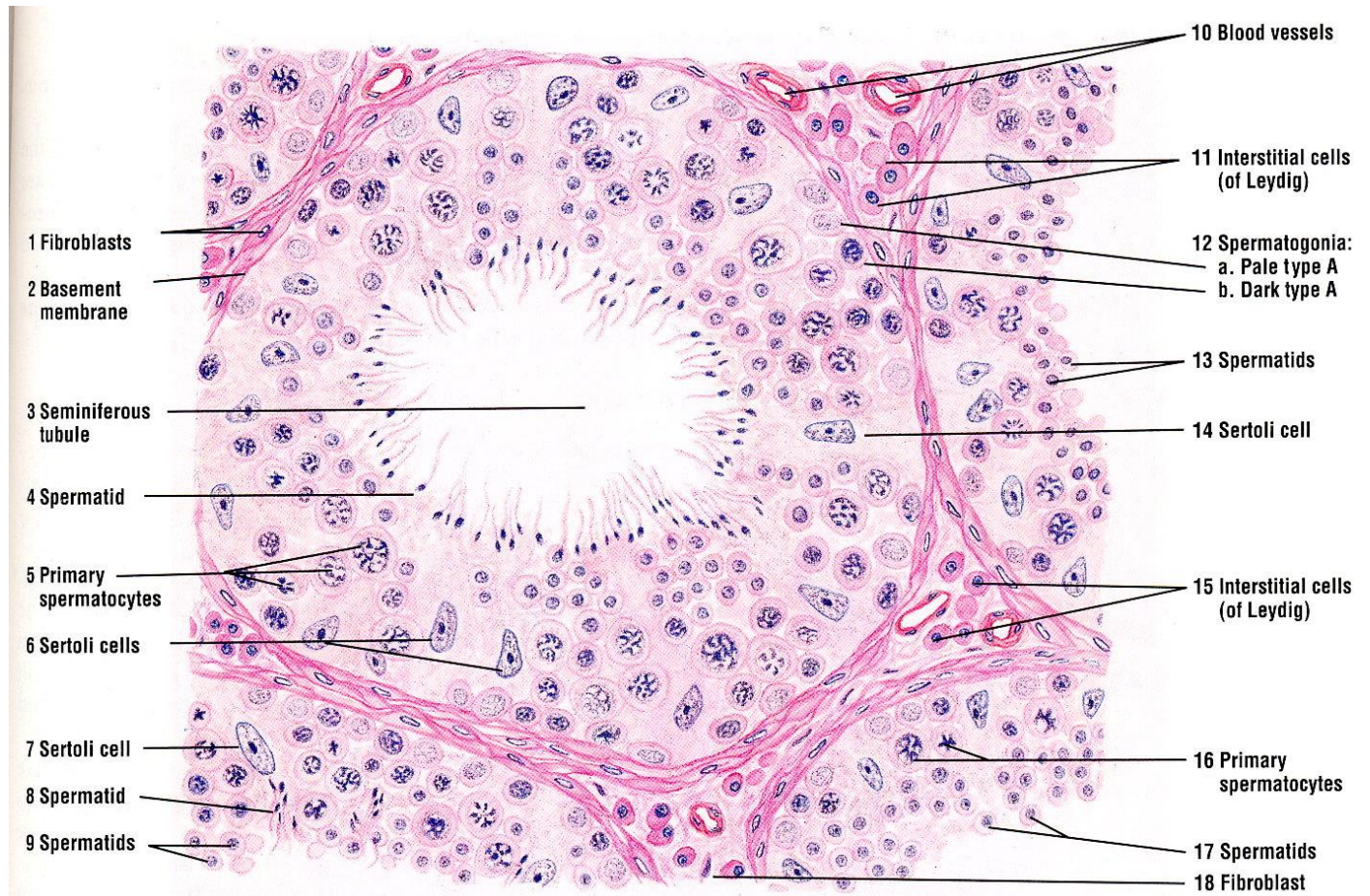


1, Ureter; 2, right testis; 3, epididymis; 4, deferent duct; 5, bladder;  
 6, vesicular gland; 7, ampulla of deferent duct; 8, body of prostate; 9, bulbourethral gland; 10, sigmoid flexure of penis; 11, glans  
 penis; 12, ischiocavernosus; 13, retractor penis.

# Testis

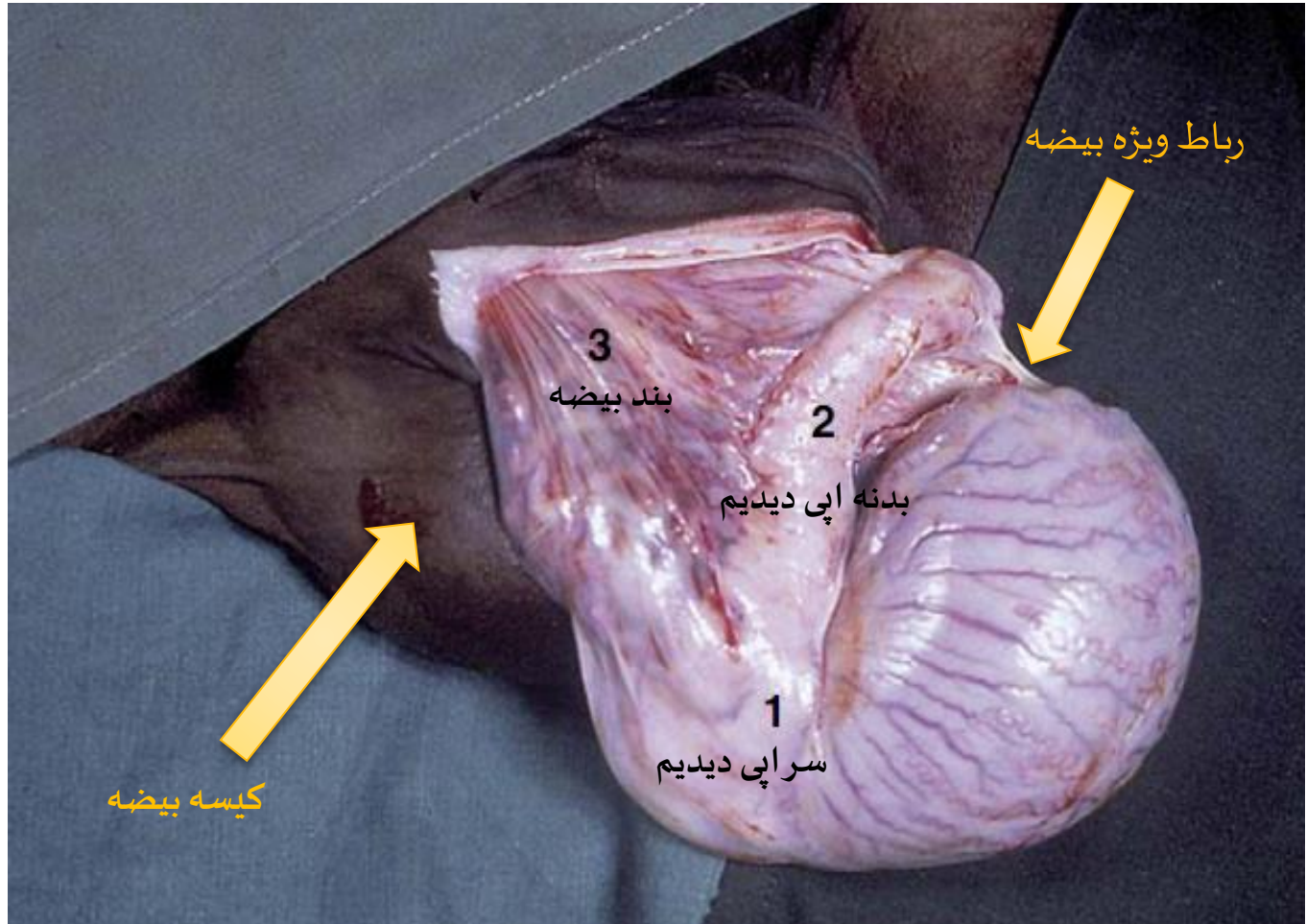
## بیضه

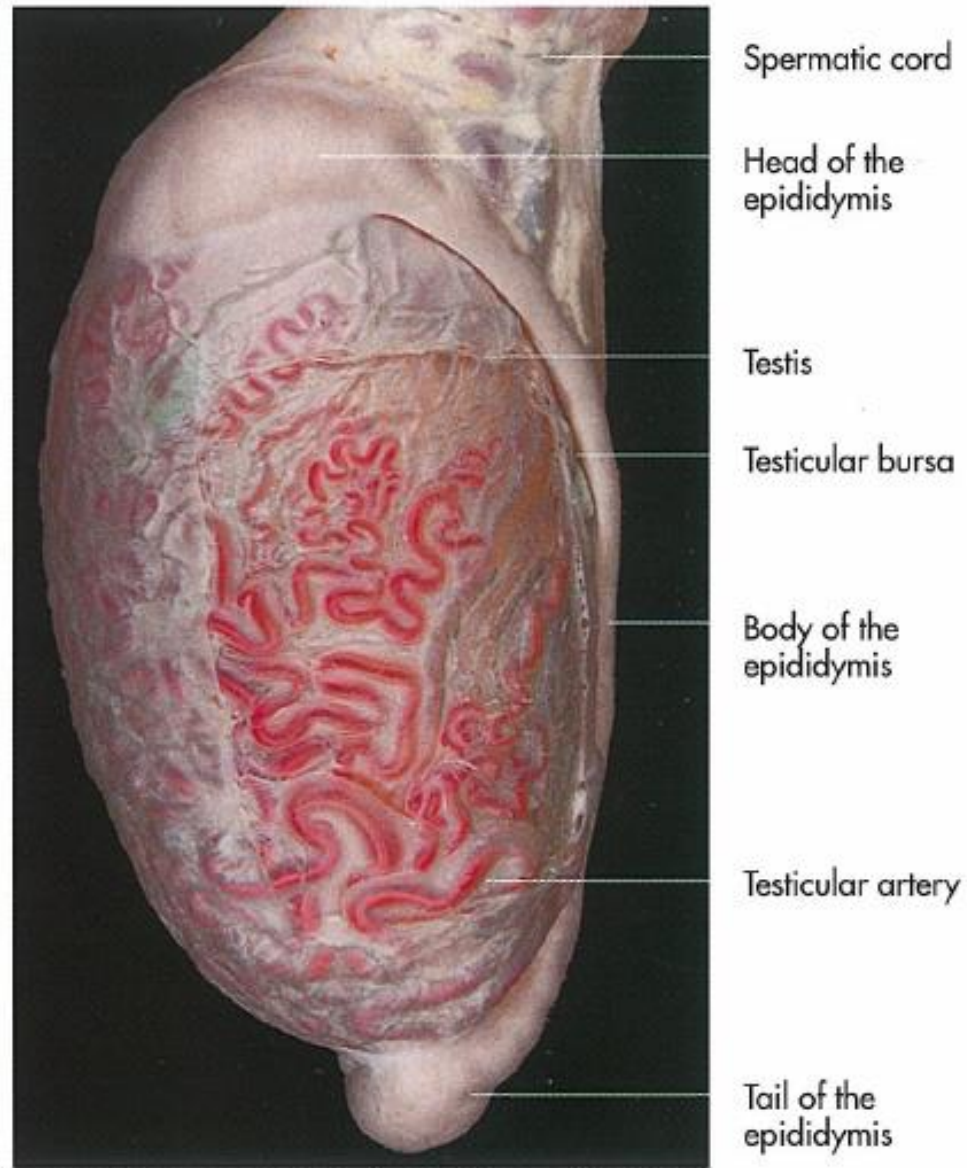




**FIGURE 18.3** ■ Primate testis: spermatogenesis in seminiferous tubules (transverse section). Stain: hematoxylin and eosin. Medium magnification.

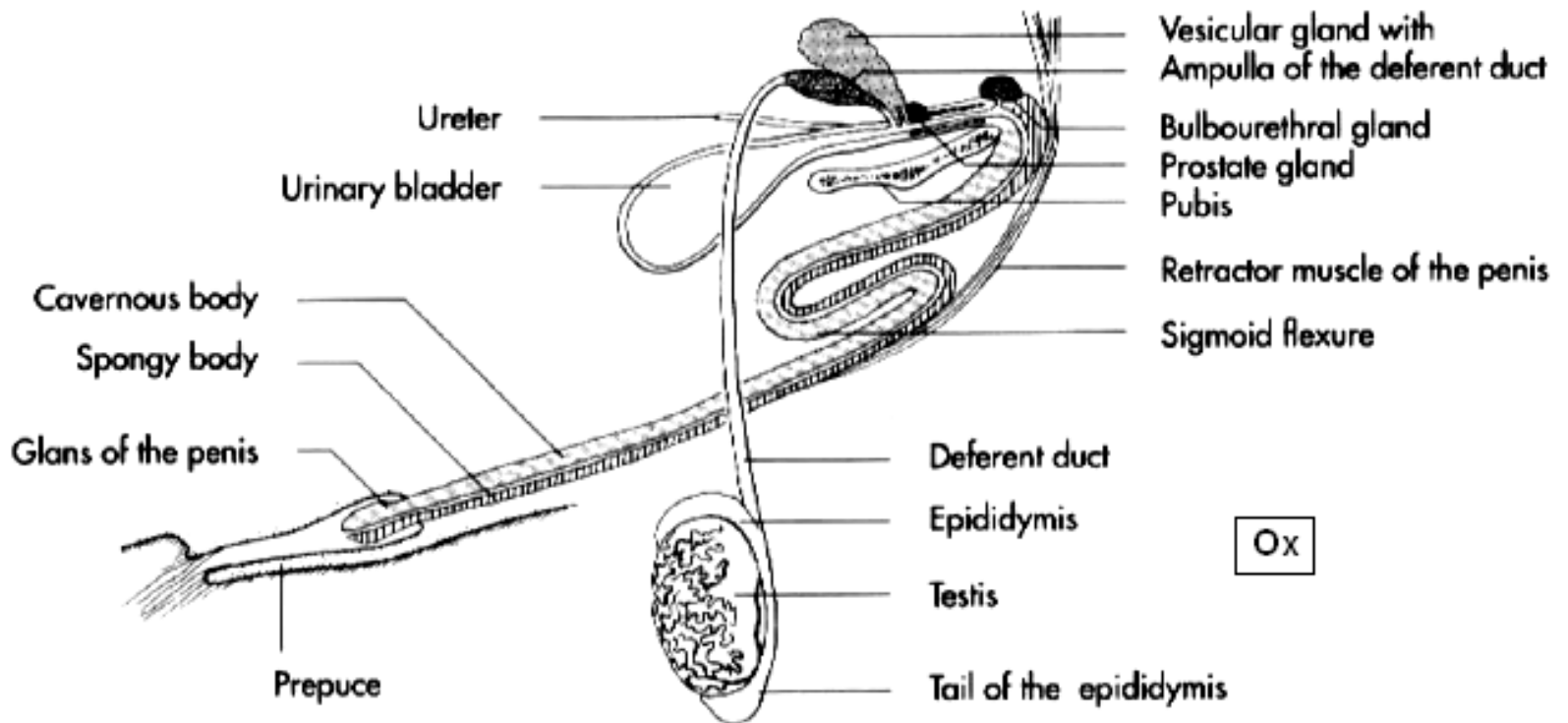
ساختاریک لوله منی ساز



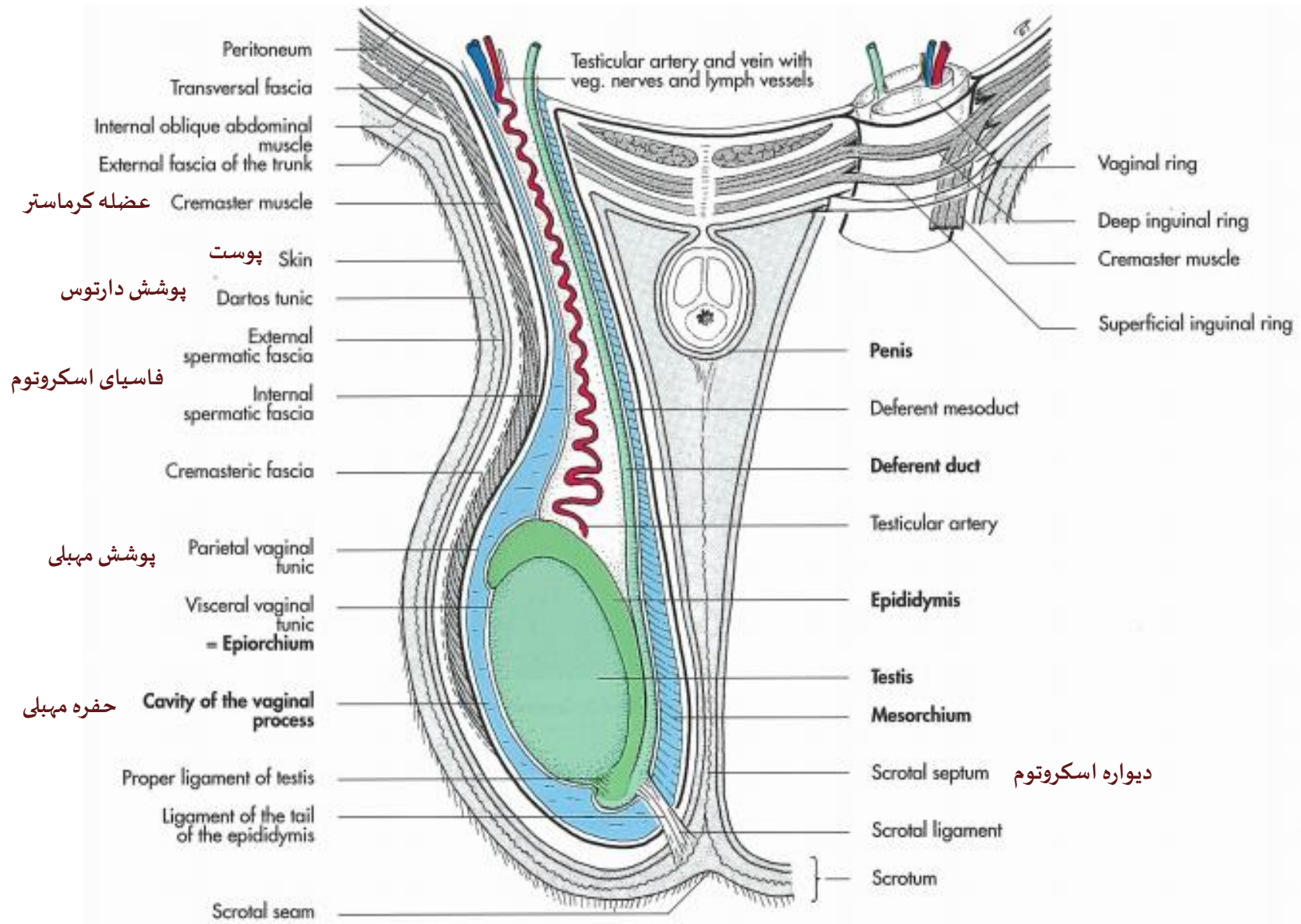


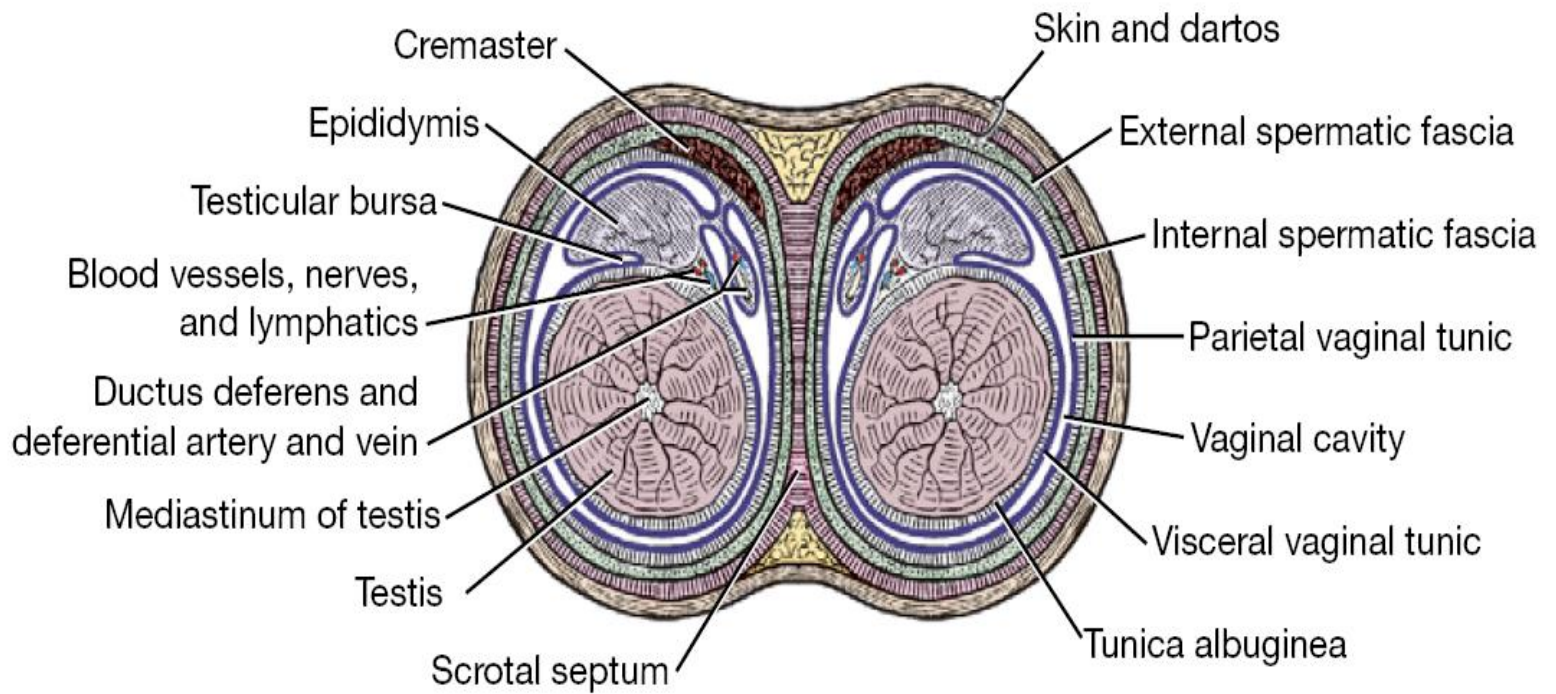
**Fig. 10-16.** Testis of a bull after injection of the blood vessels.





# scrotum لایه های کیسه بیضه





لایه های کیسه بیضه / مقطع عرضی

عروق و عصب بیضه ای

Testicular a, v, n & lymphatics

بند بیضه



Pariteal vaginal tunic

Visceral vaginal tunic

Deferent duct مجرای دفران

Vaginal ring

Mesorchium

شبكة نیلوفری

Pampiniform plexus

Body of epididym

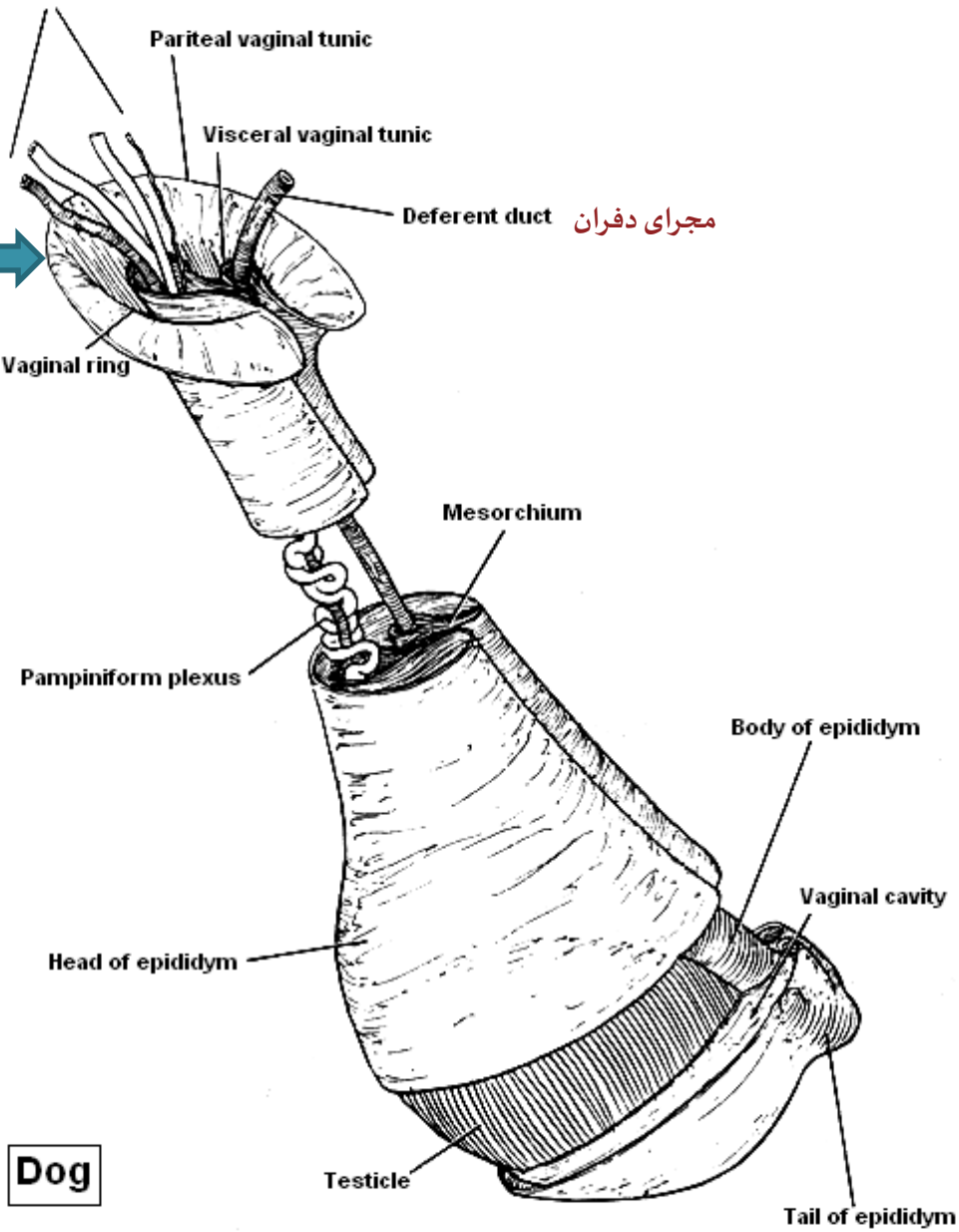
Head of epididym

Vaginal cavity

Dog

Testicle

Tail of epididym



Pampiniform plexus

Testicular artery

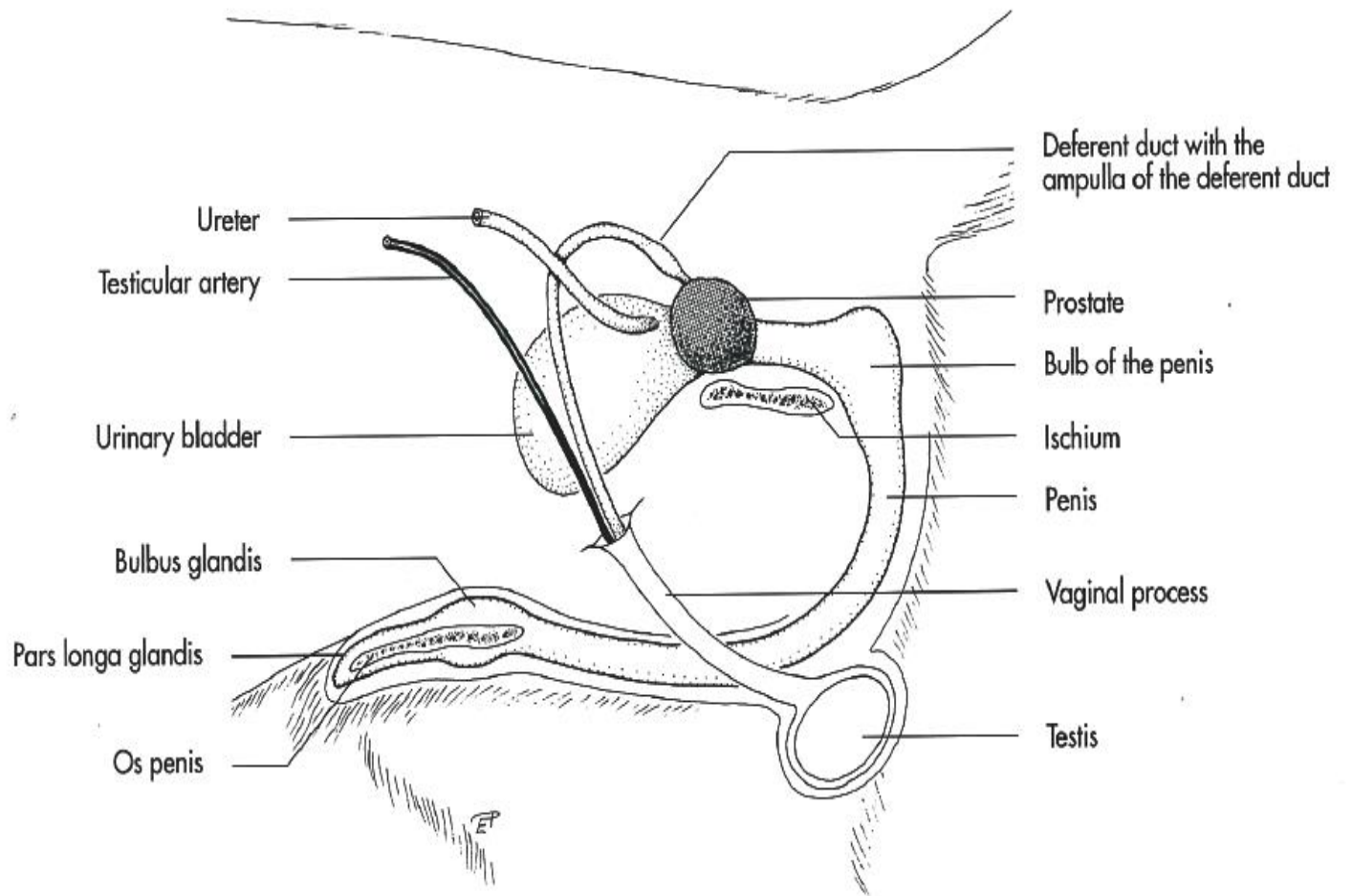
Pampiniform plexus

Testicular artery



Fig. 10-15. Testicular artery and vein within the spermatic cord of a ram, corrosion cast.

**Pampiniform plexus / شبکه نیلوفری**



## غدد ضمیمه تناسلی

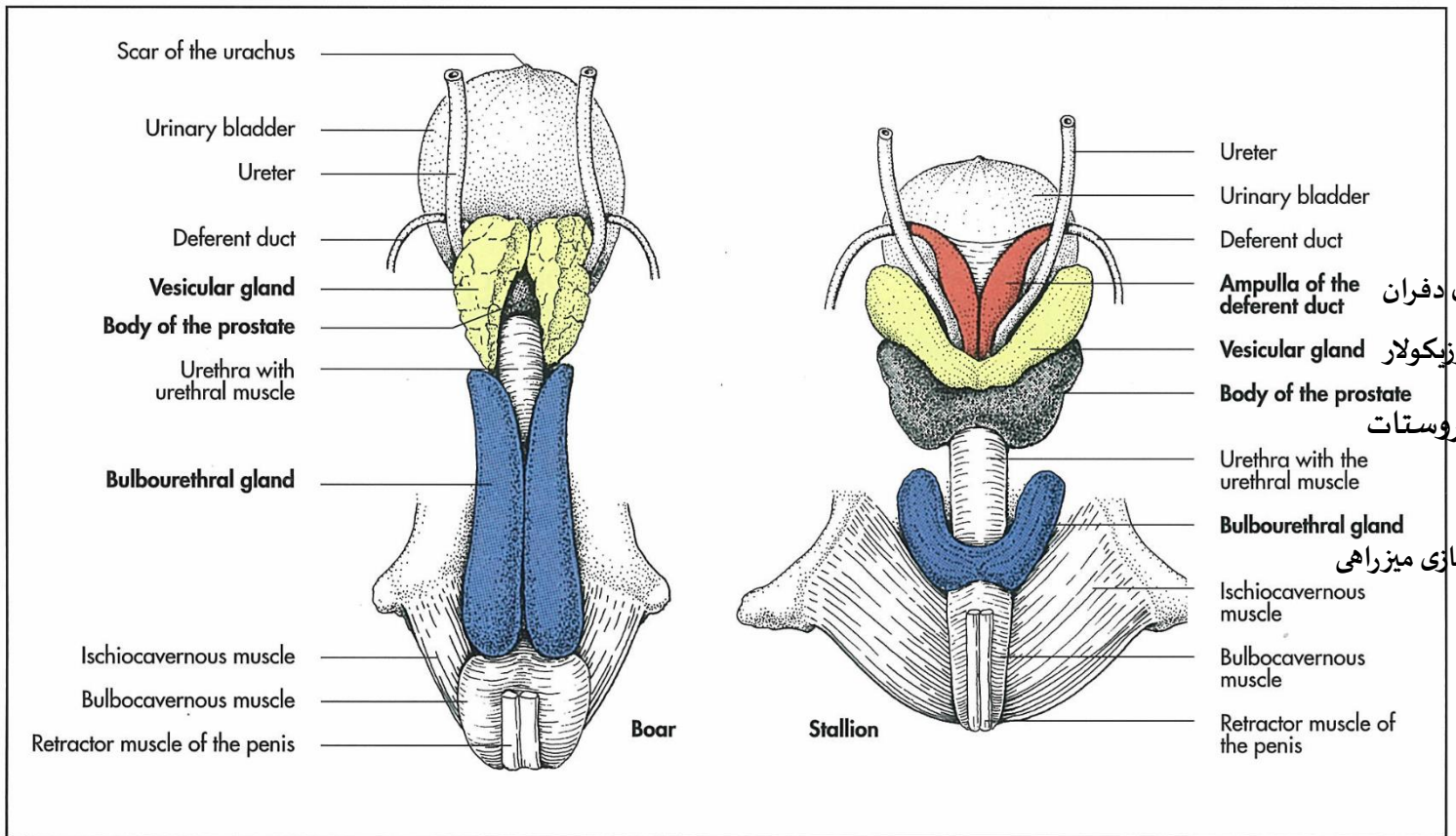


Fig. 10-20. Accessory genital glands of the boar and stallion, schematic.

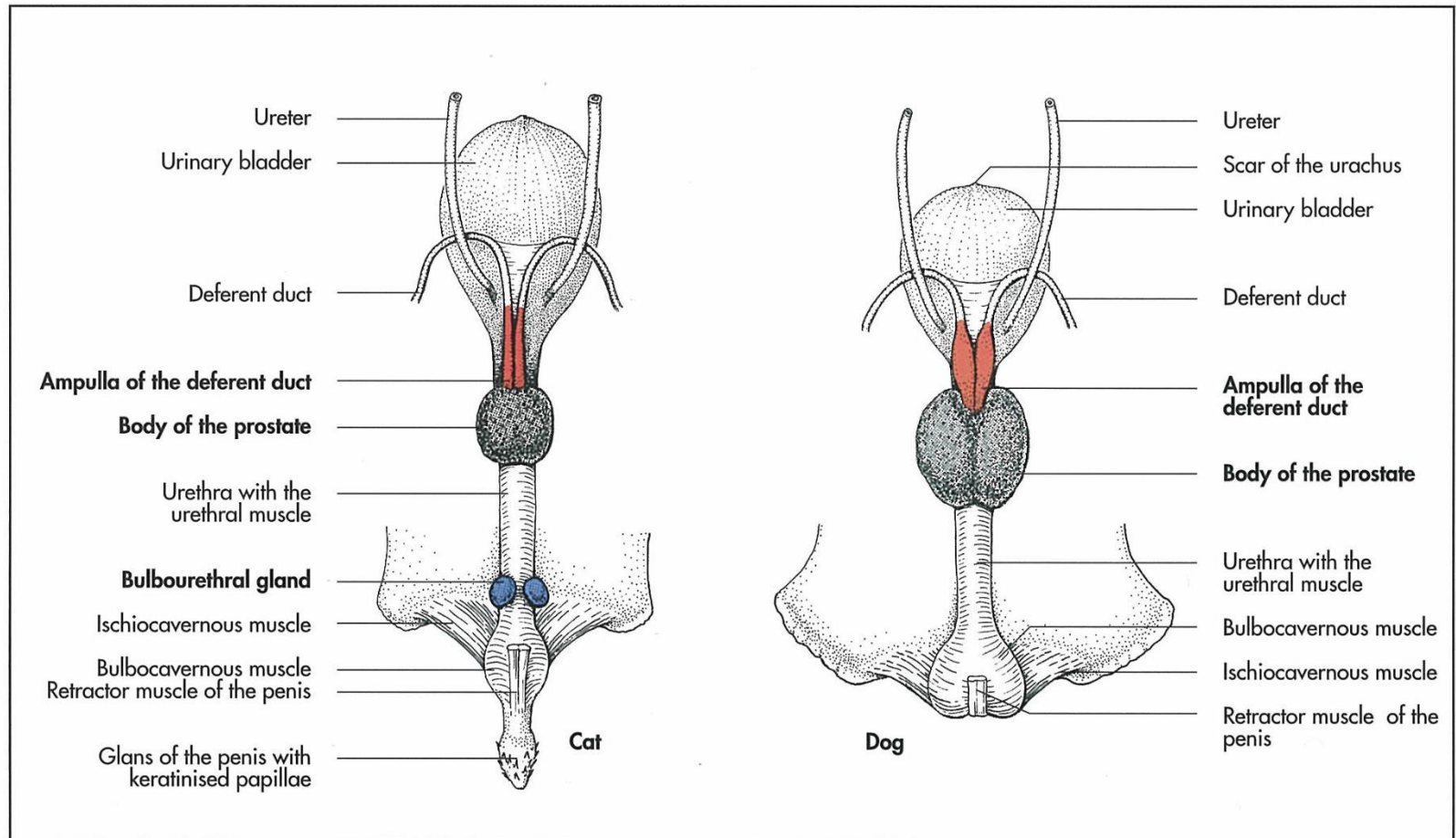
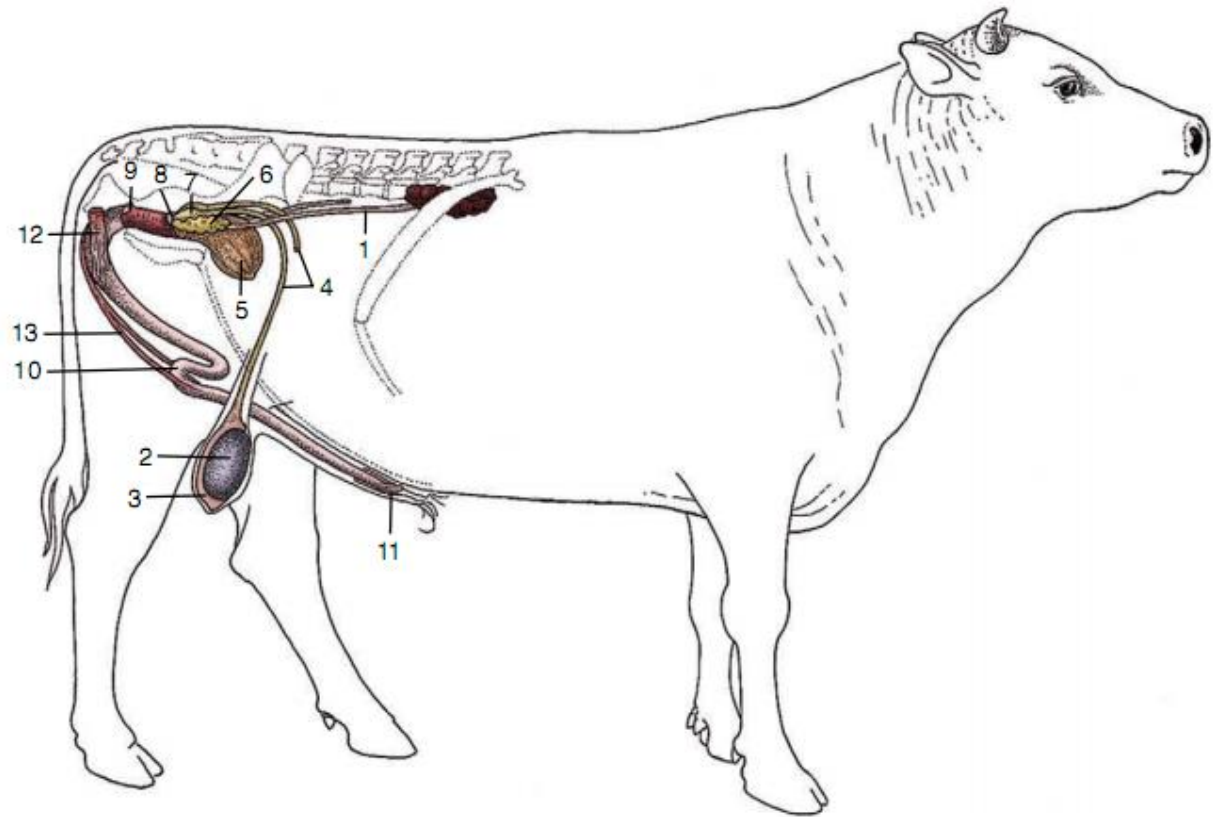
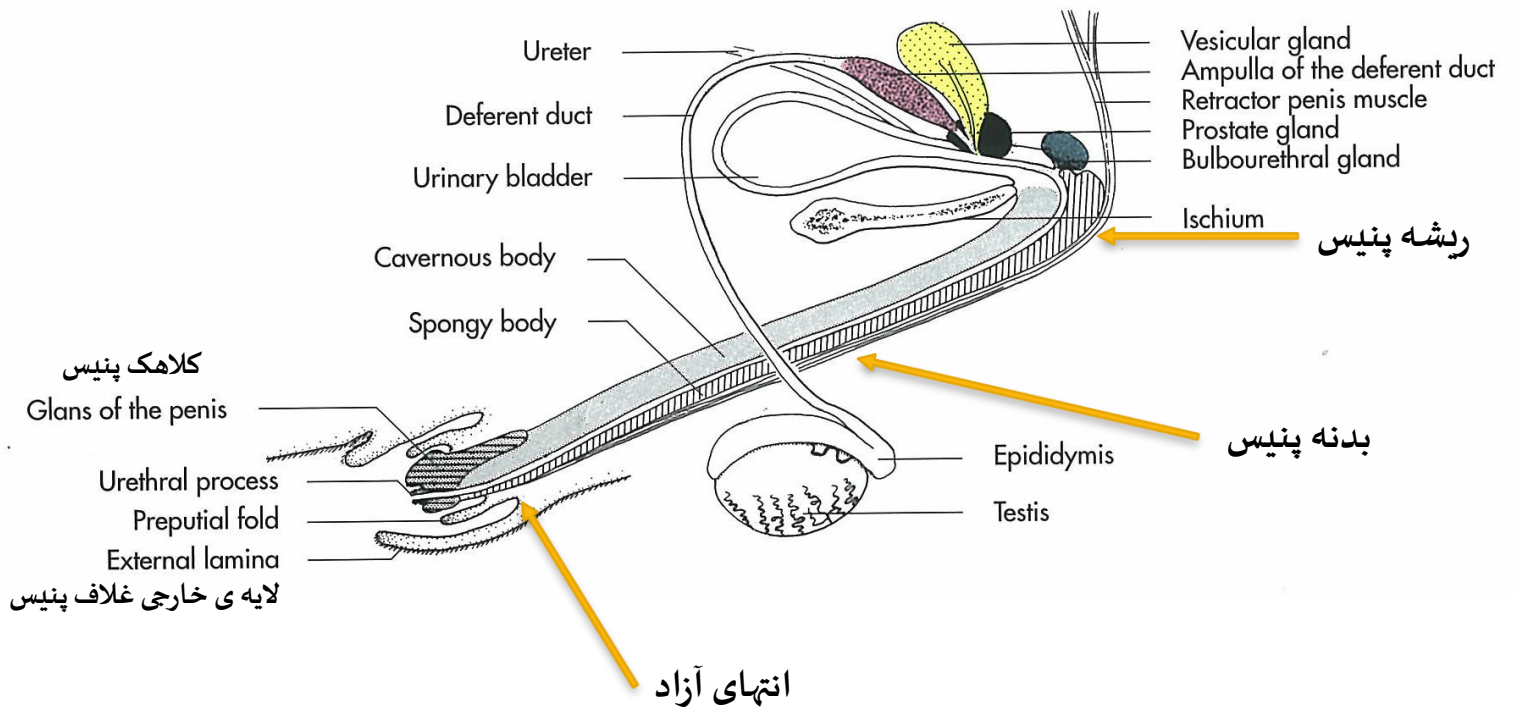


Fig. 10-19. Accessory genital glands of the cat and dog, schematic.

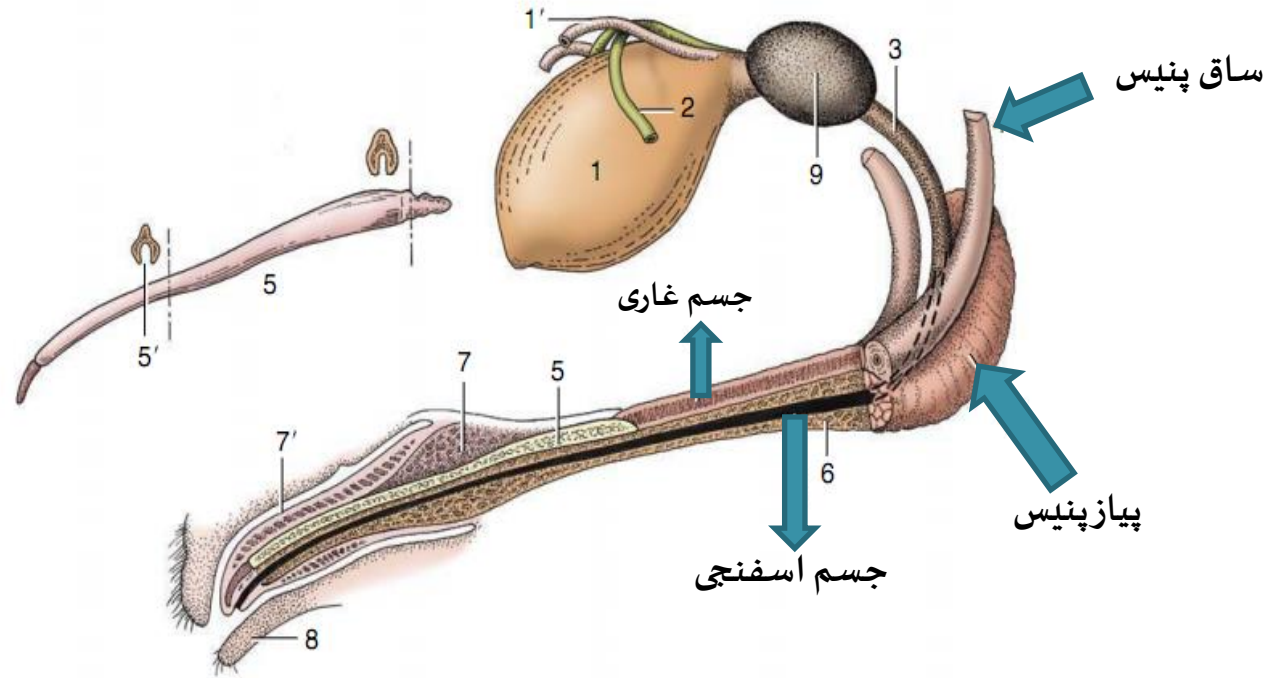




1, Ureter; 2, right testis; 3, epididymis; 4, deferent duct; 5, bladder; 6, vesicular gland; 7, ampulla of deferent duct; 8, body of prostate; 9, bulbourethral gland; 10, sigmoid flexure of penis; 11, glans penis; 12, ischiocavernosus; 13, retractor penis.

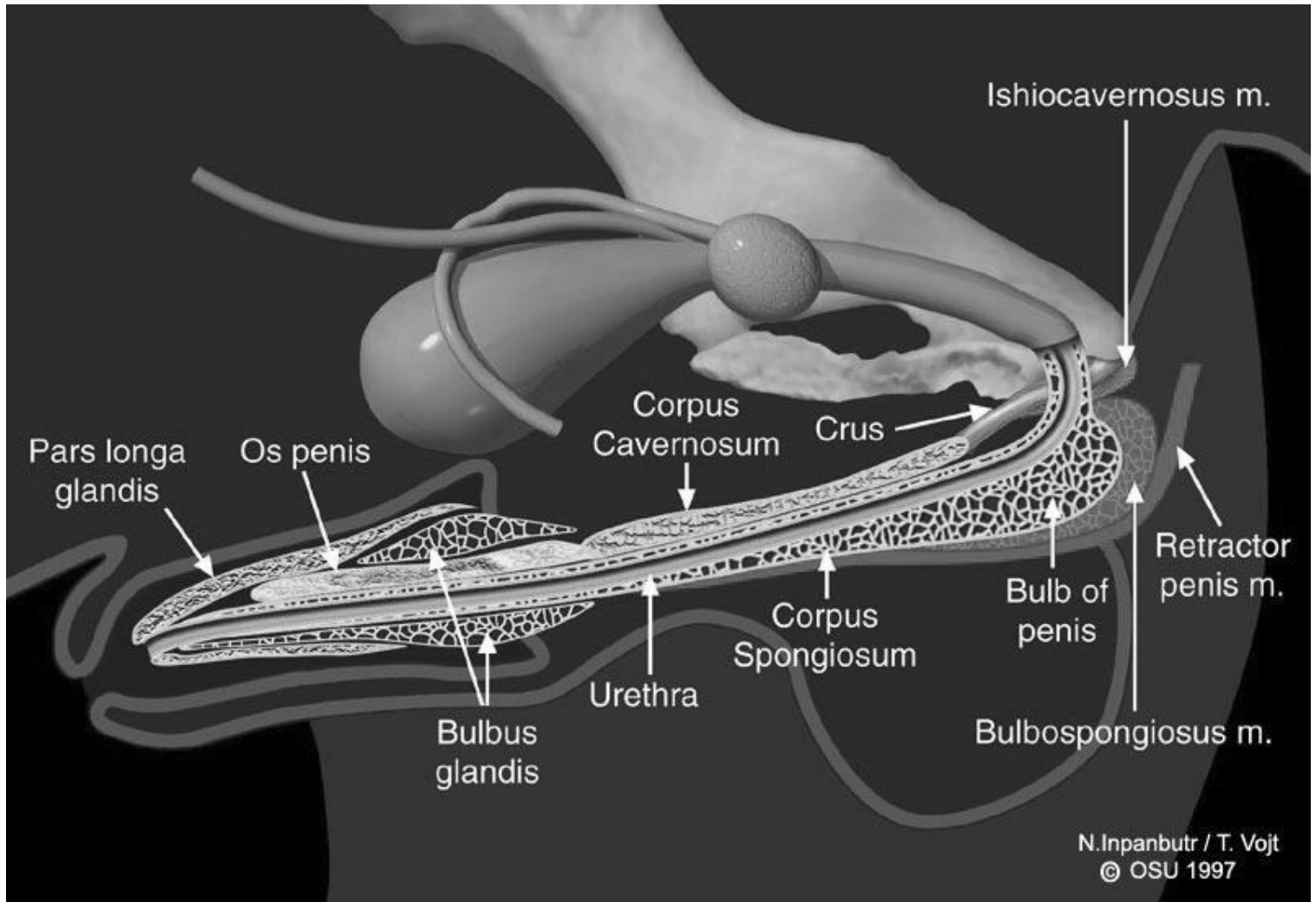


## پنیس اسب



Canine bladder, urethra, and penis (in section). 1, Bladder; 1', left ureter; 2, left deferent duct; 3, urethra; 4, corpus cavernosum; 4', left crus; 5, os penis; 5', urethral groove; 6, corpus spongiosum; 6', bulb of penis; 7, bulbous glandis; 7', pars longa glandis; 8, prepuce; 9, prostate.

پنیس سگ



پنیس سگ

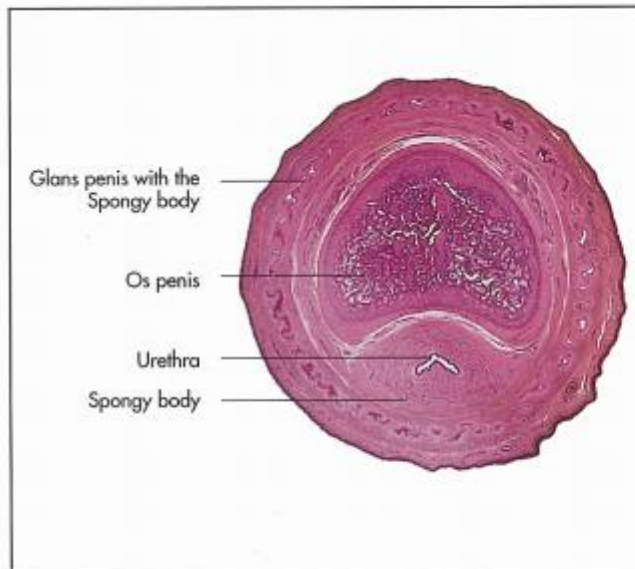
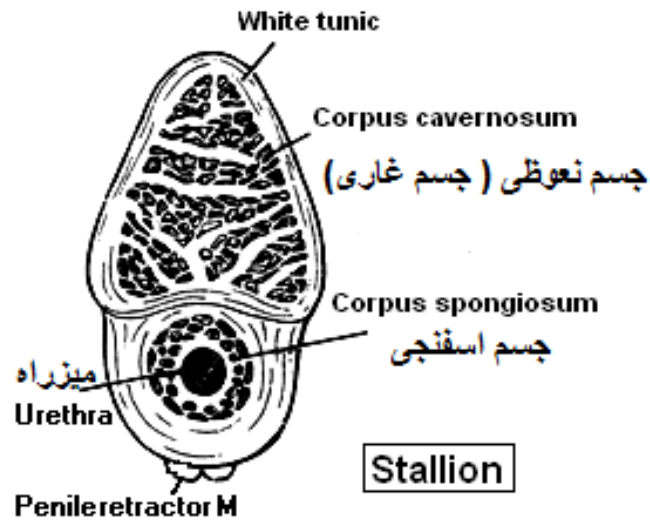


Fig. 10-30. Transverse section of the penis of a dog.

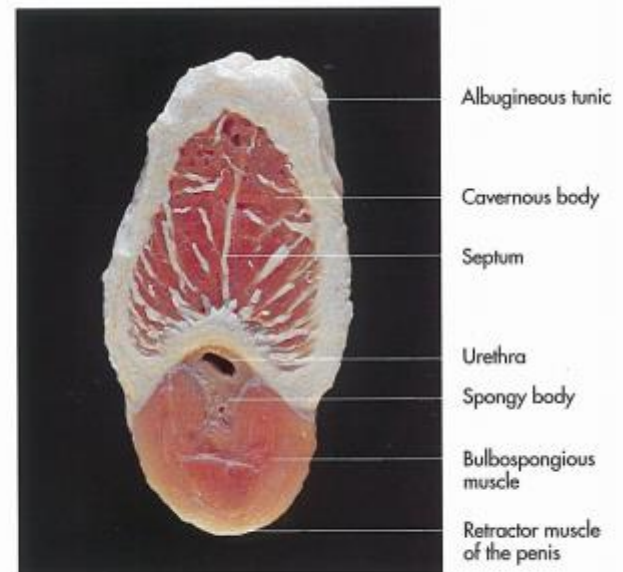
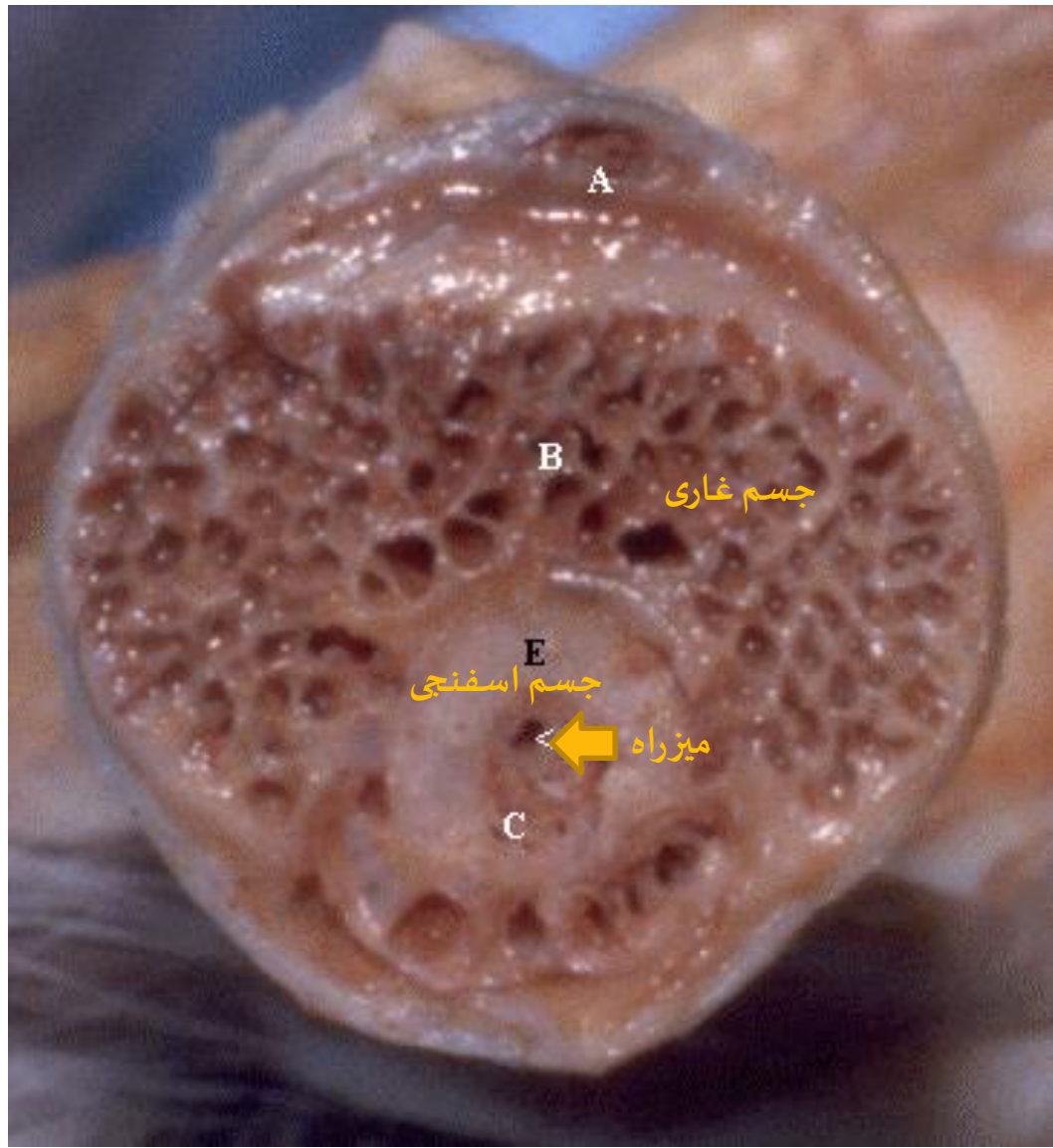


Fig. 10-31. Transverse section of the penis of a stallion.

بافت های نعوظی آلت تناسلی نر



A

B

E

C

جسم غاری

جسم اسفنجی

میزراه

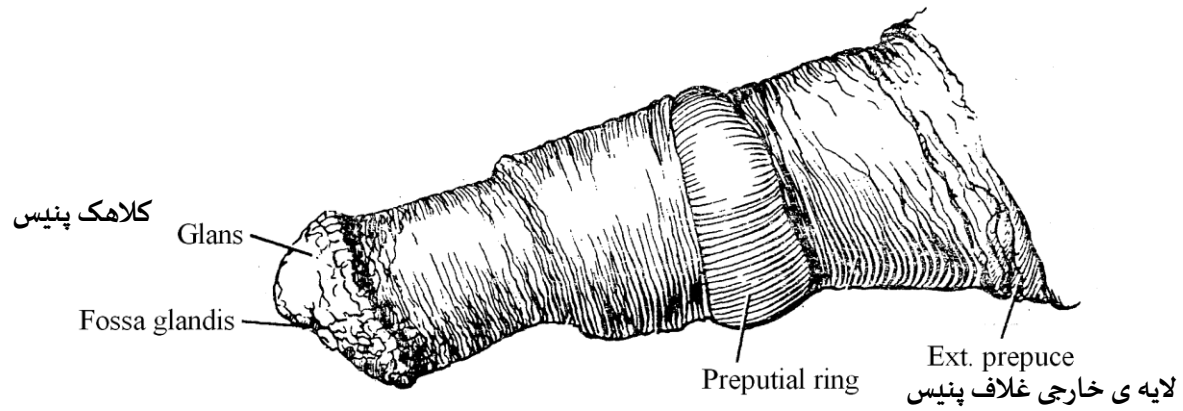
Urethral process



Fig. 10-28. Apex of the penis of a sheep (left) and a goat (right).



Fig. 10-29. Apex of the penis of a bull.



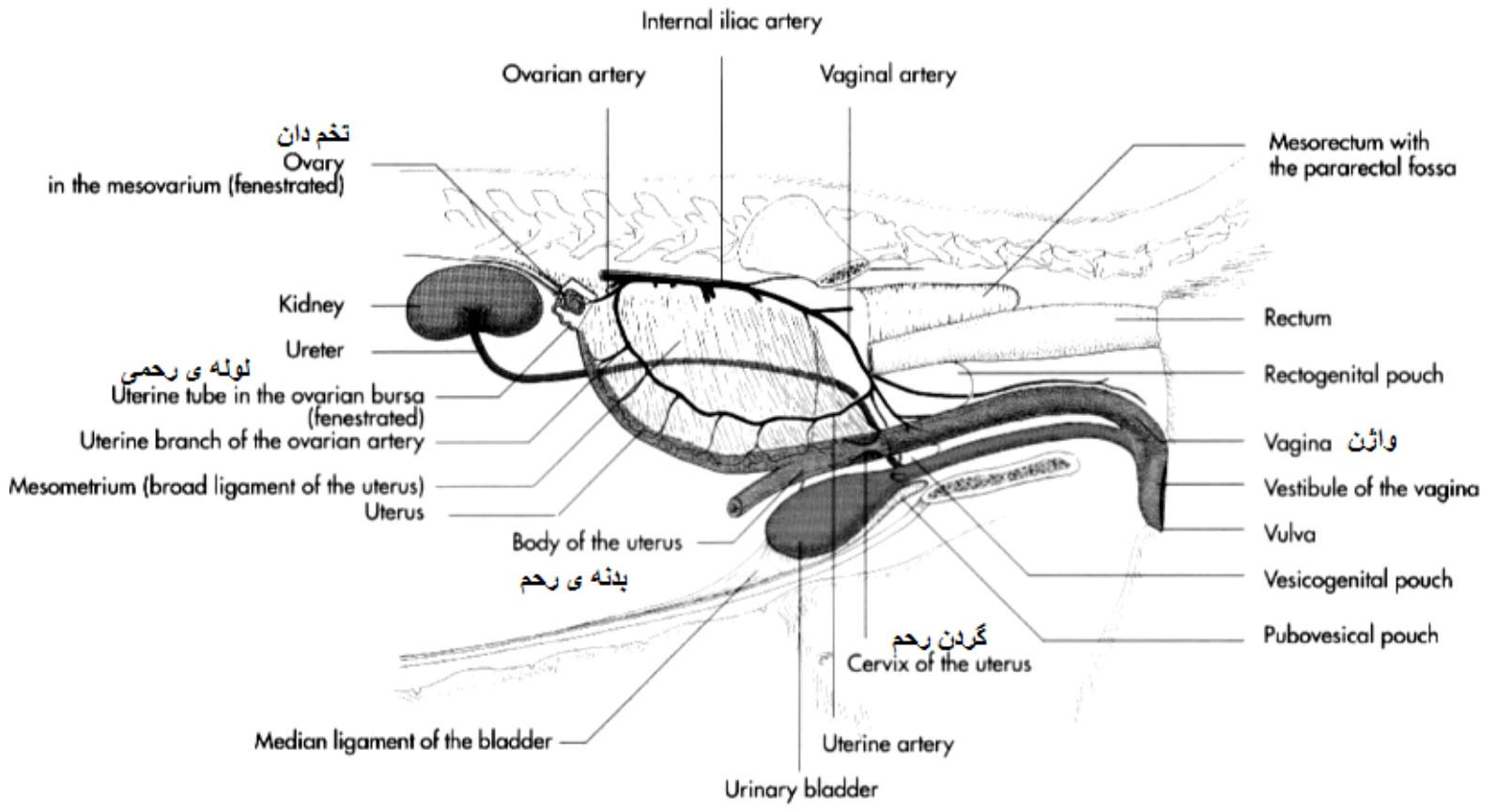
# Female genital system

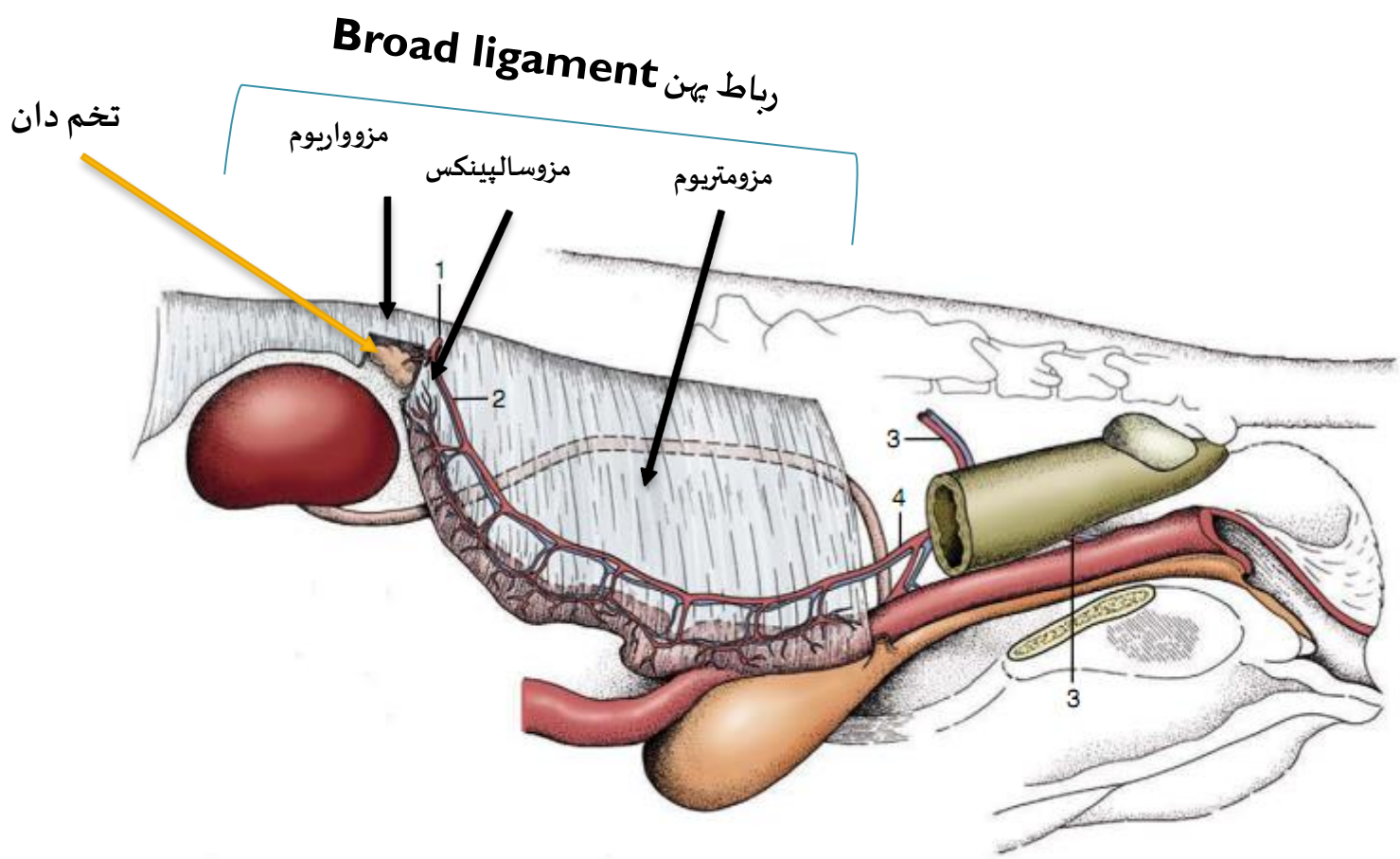
# دستگاه تناسلی ماده

دستگاه تناسلی یک حیوان ماده به طور کلی شامل بخش های زیر می باشد :

- 1- یک زوج گنادهای جنسی که در جنس ماده تخمدان (Ovary) نامیده می شوند ، و وظیفه تولید سلول های جنسی در جنس ماده ( تخمک ) و هم چنین هورمون های جنسی مانند استروژن و پروژسترون را به عهده دارند.
- 2- اندام های لوله ای دستگاه تناسلی ماده که شامل لوله های رحمی ( Uterine tube ) ، رحم ( Uterus )
- 3- اندام های جفت گیری مهبل یا واژن (Vagina) و دهلیز (Vestibule) و فرج (Vulva) می باشند.



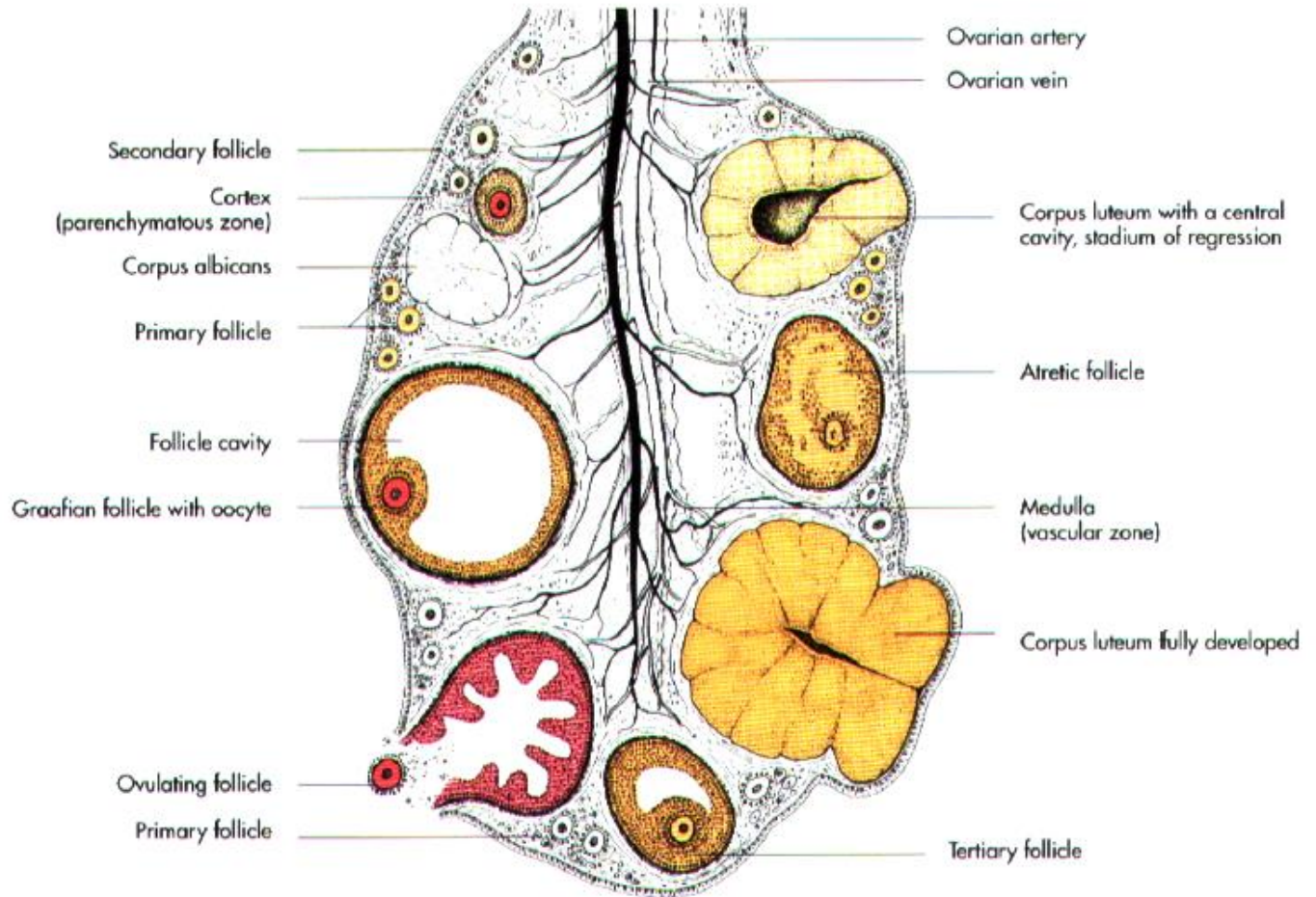


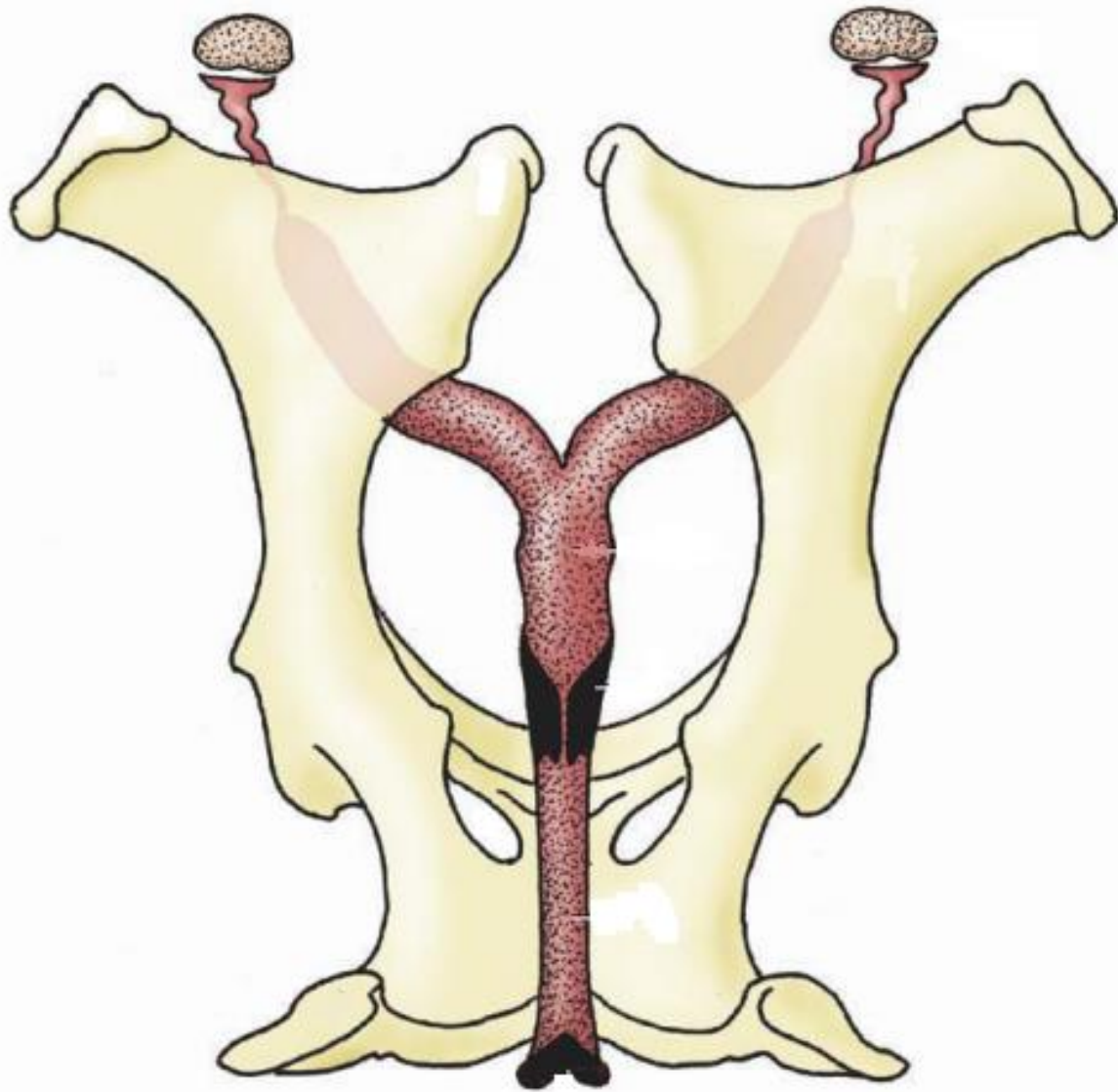


**Figure 5-64** Semischematic drawing of the blood supply of the female reproductive tract (bitch). 1, Ovarian artery; 2, uterine branch of the ovarian artery; 3, vaginal artery; 4, uterine artery.

# Ovary

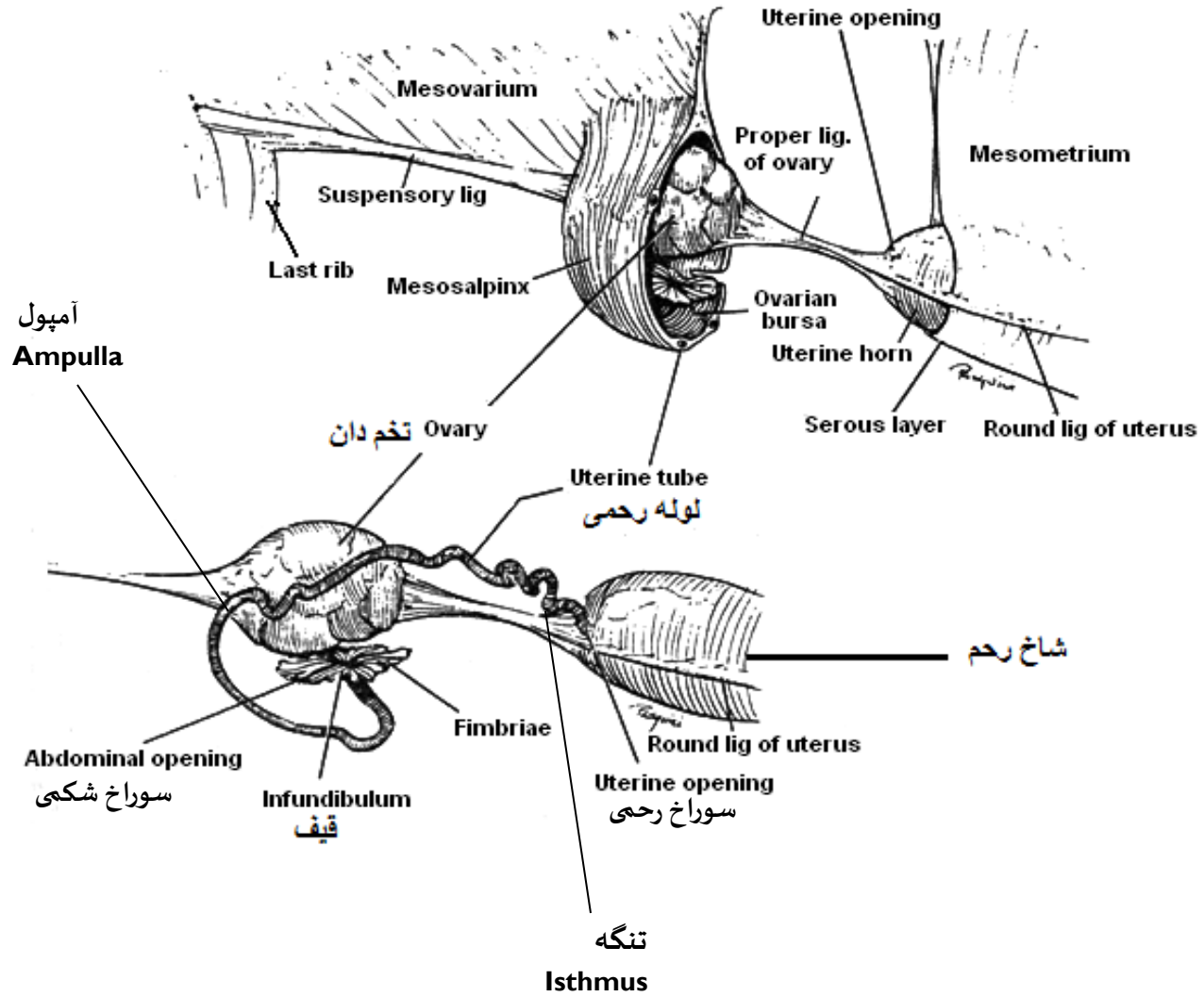
# تخم دان

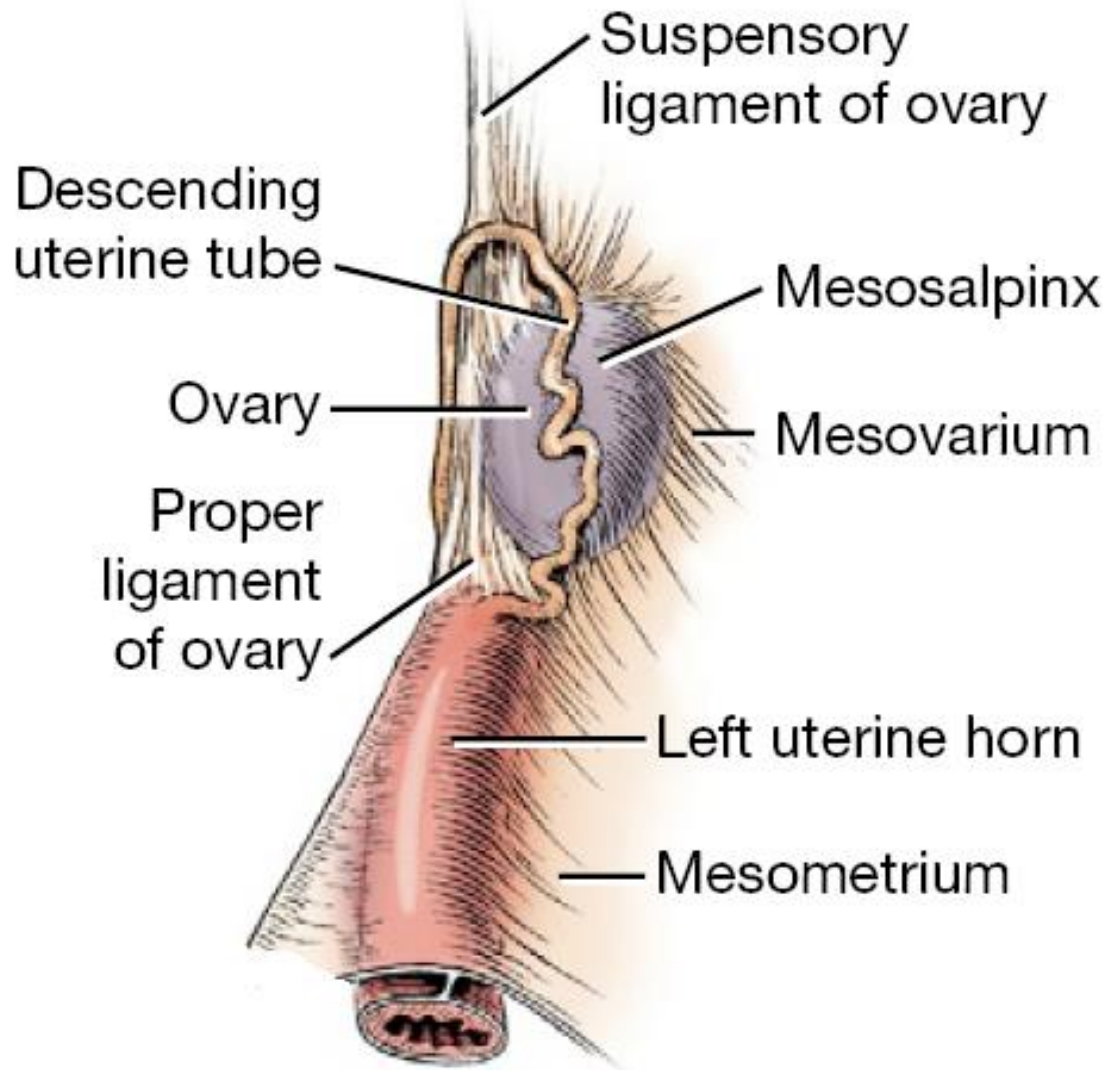




# Uterine tube

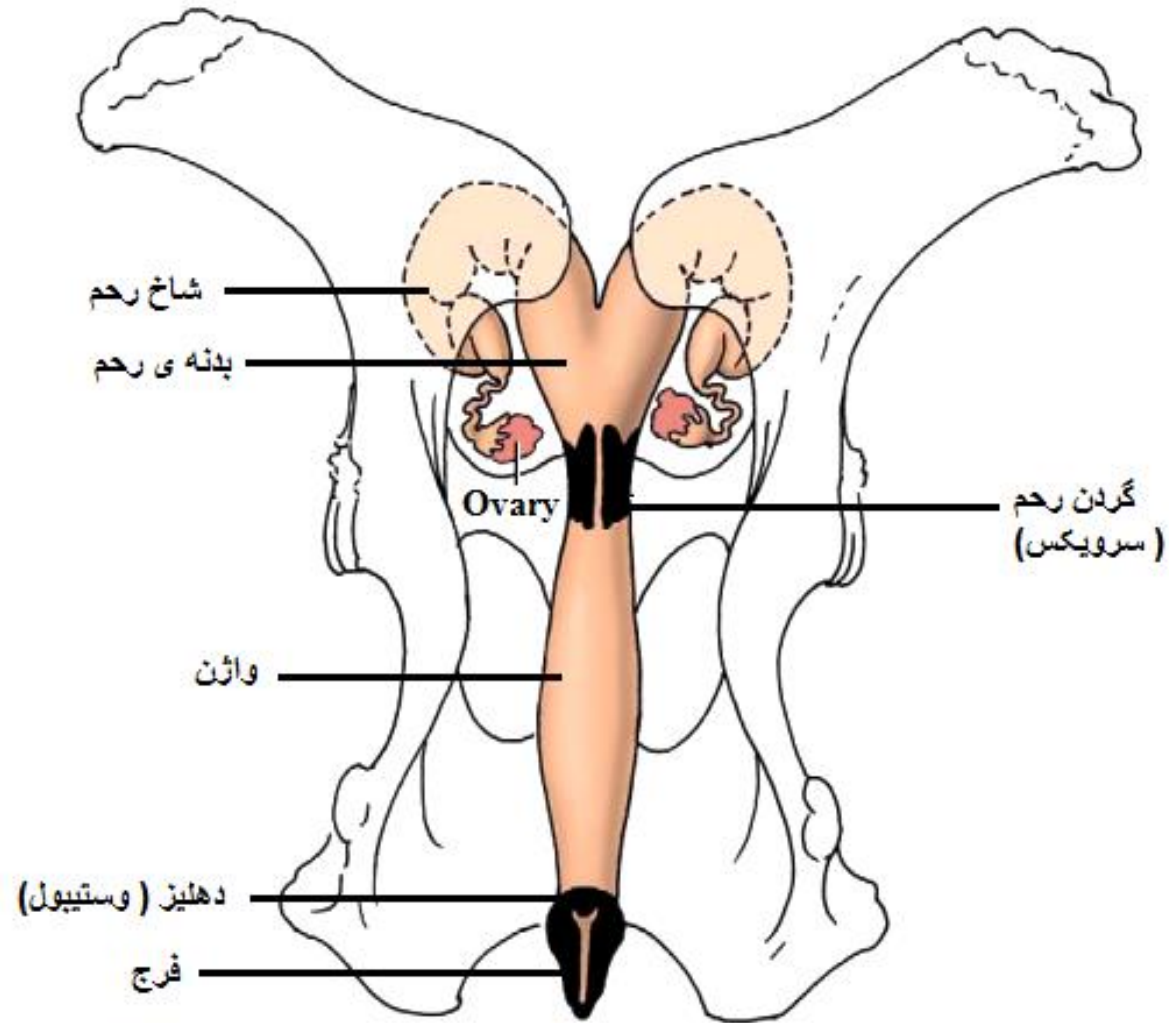
# لوله رحمی

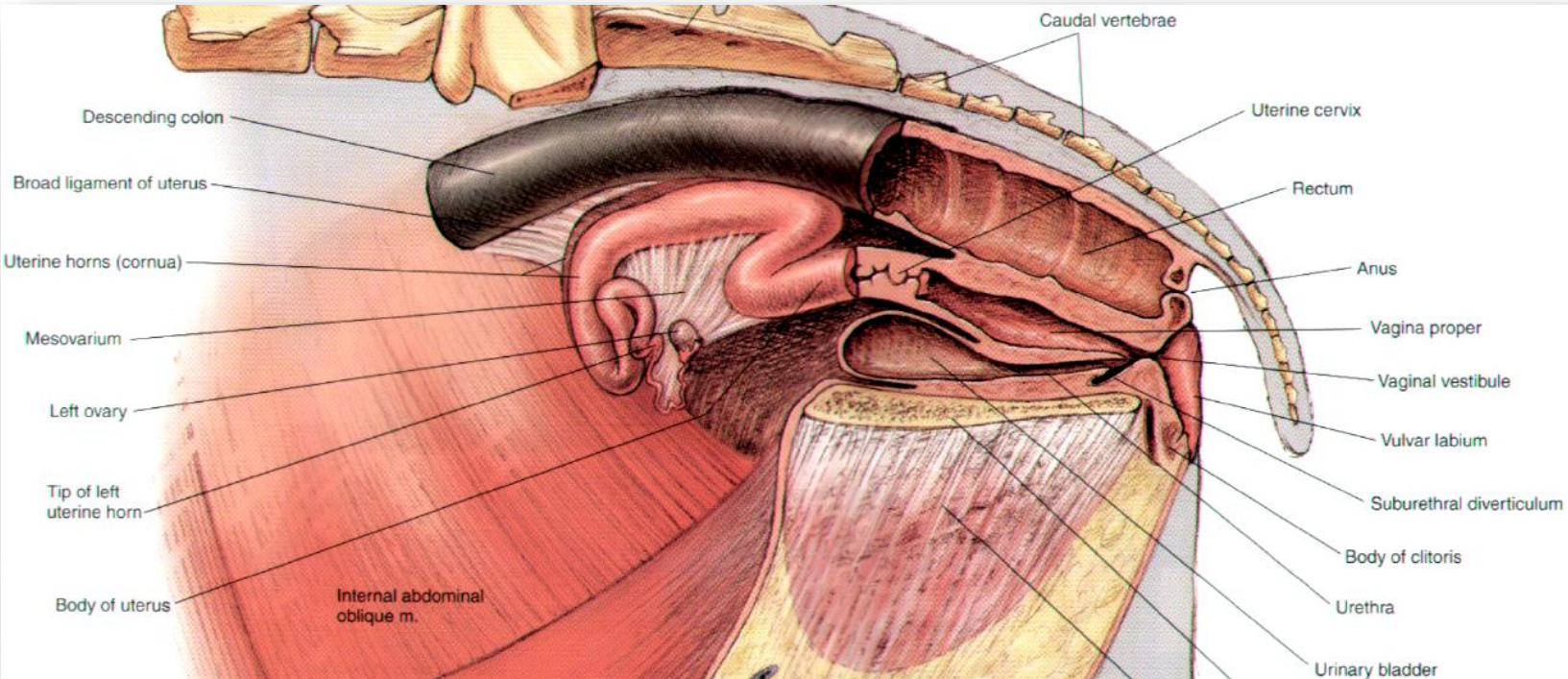




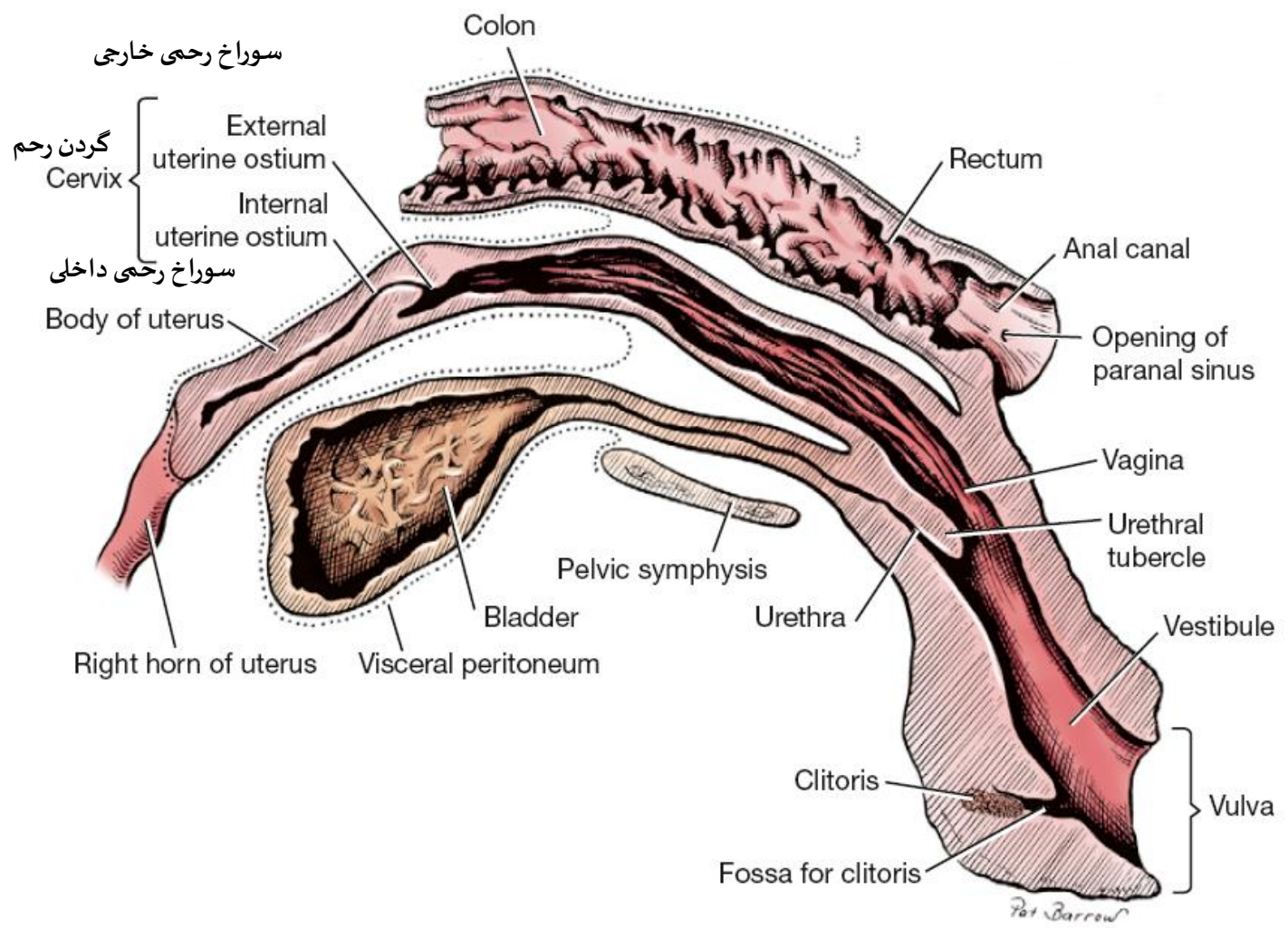
# Uterus

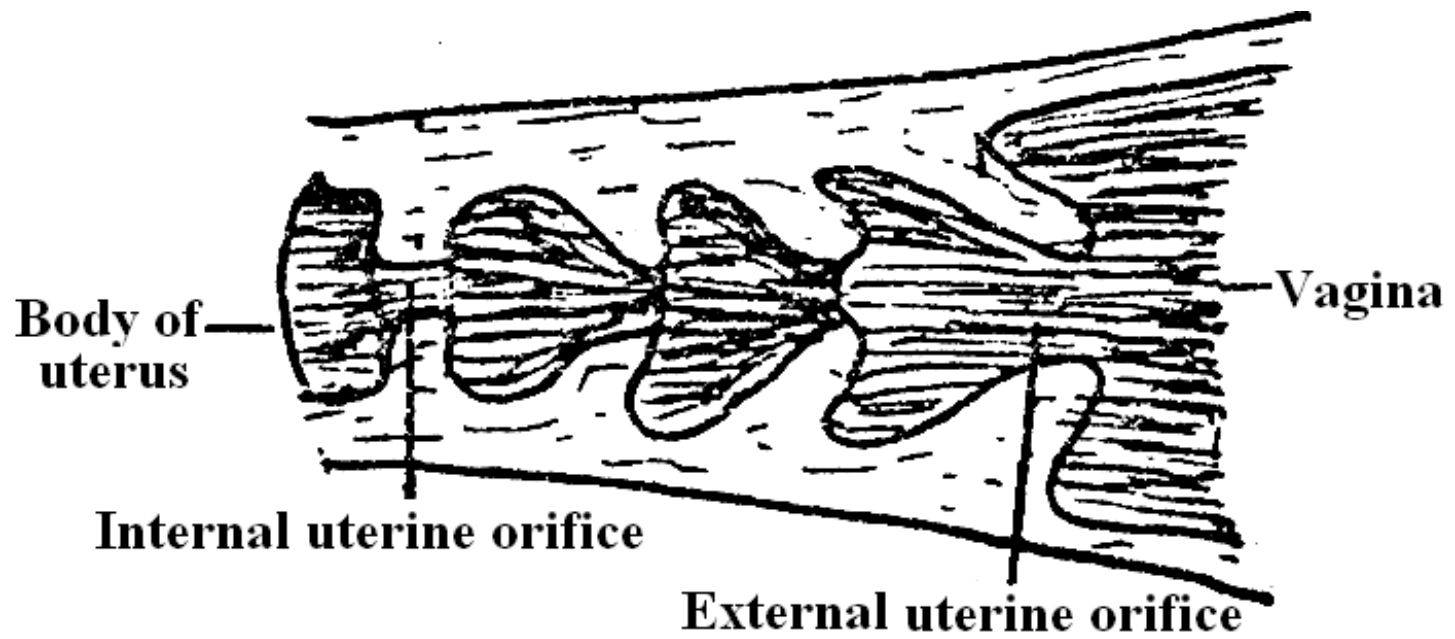
# رحم (زهدان)



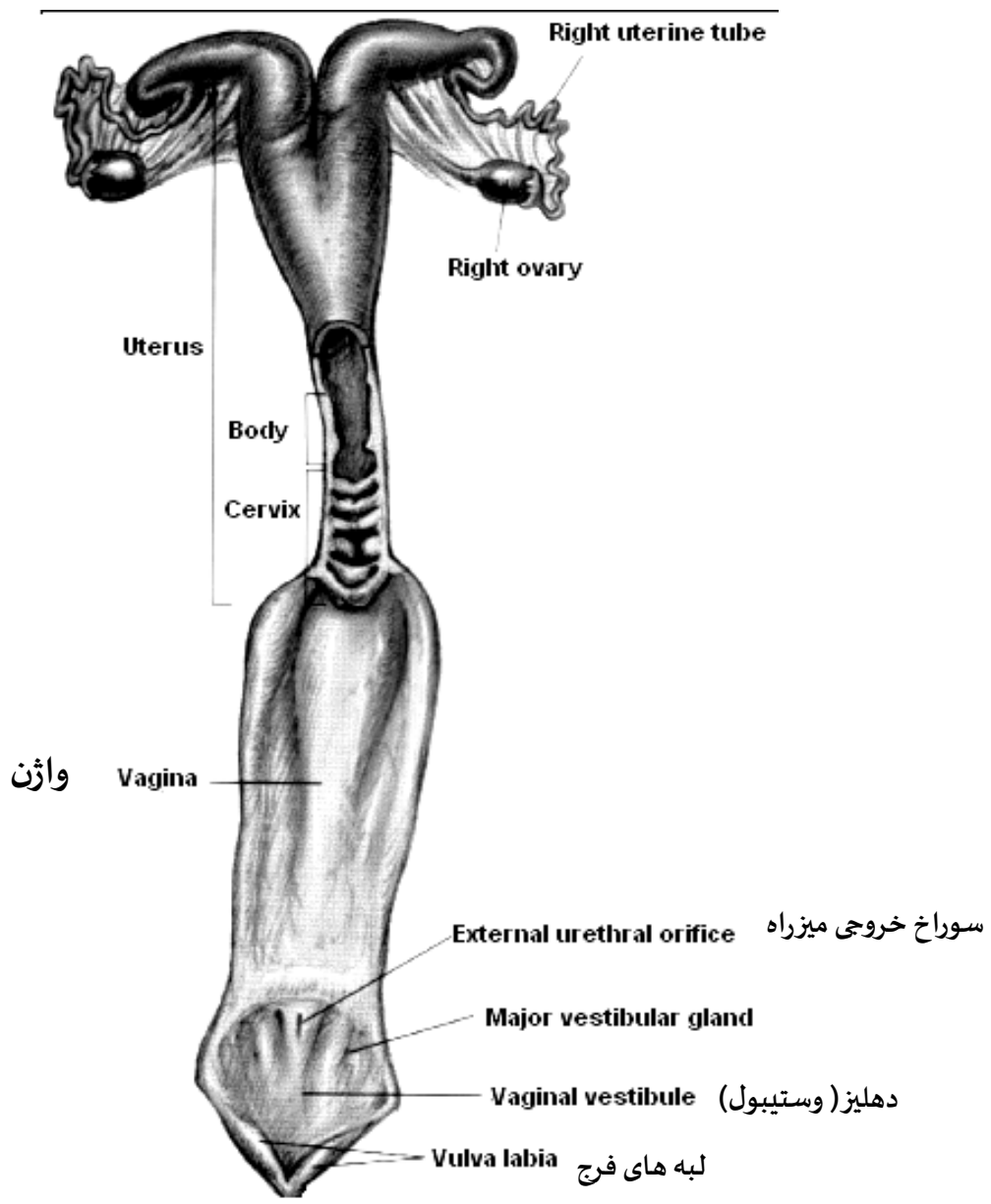




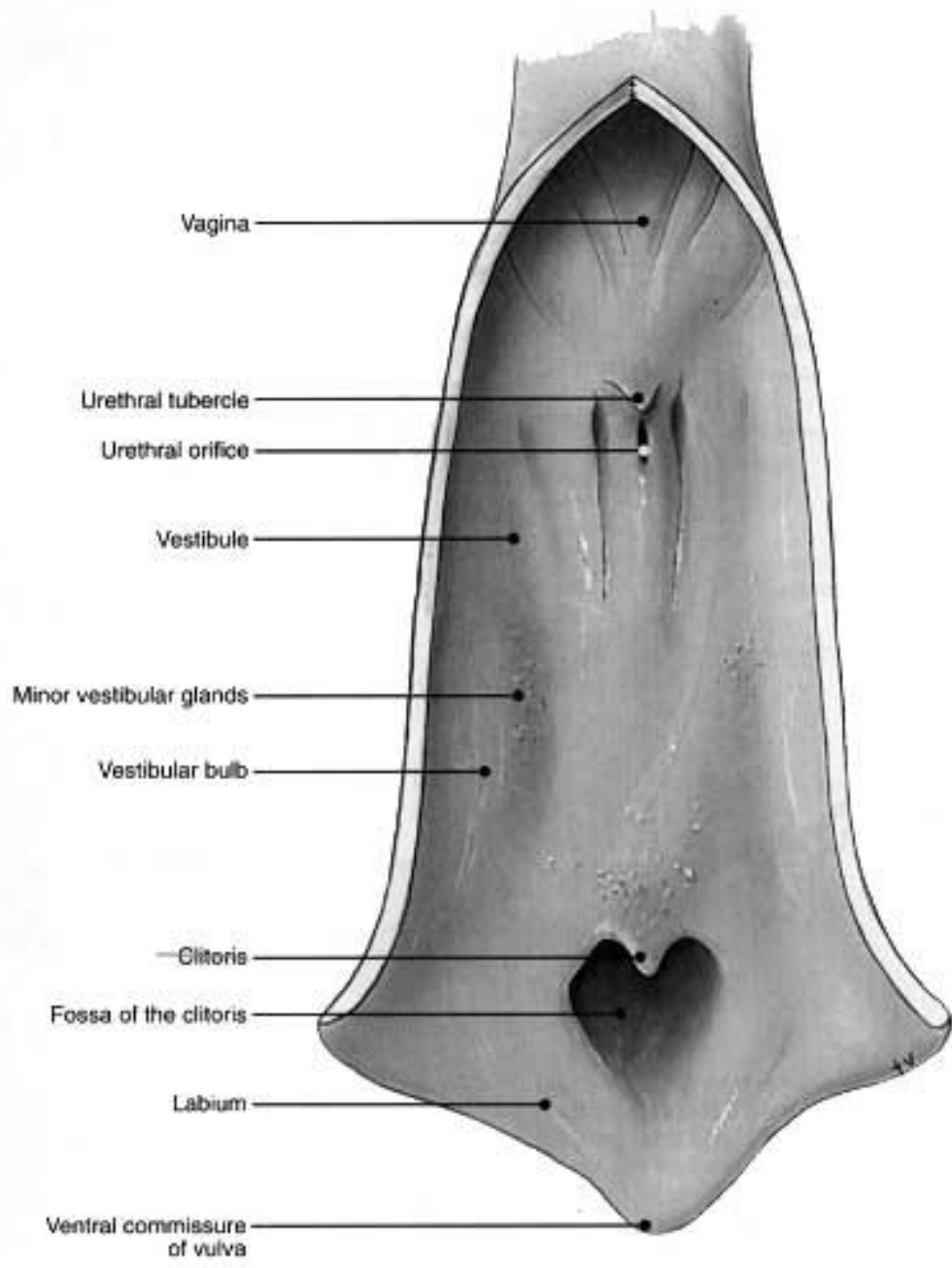




**Cervix** گردن رحم

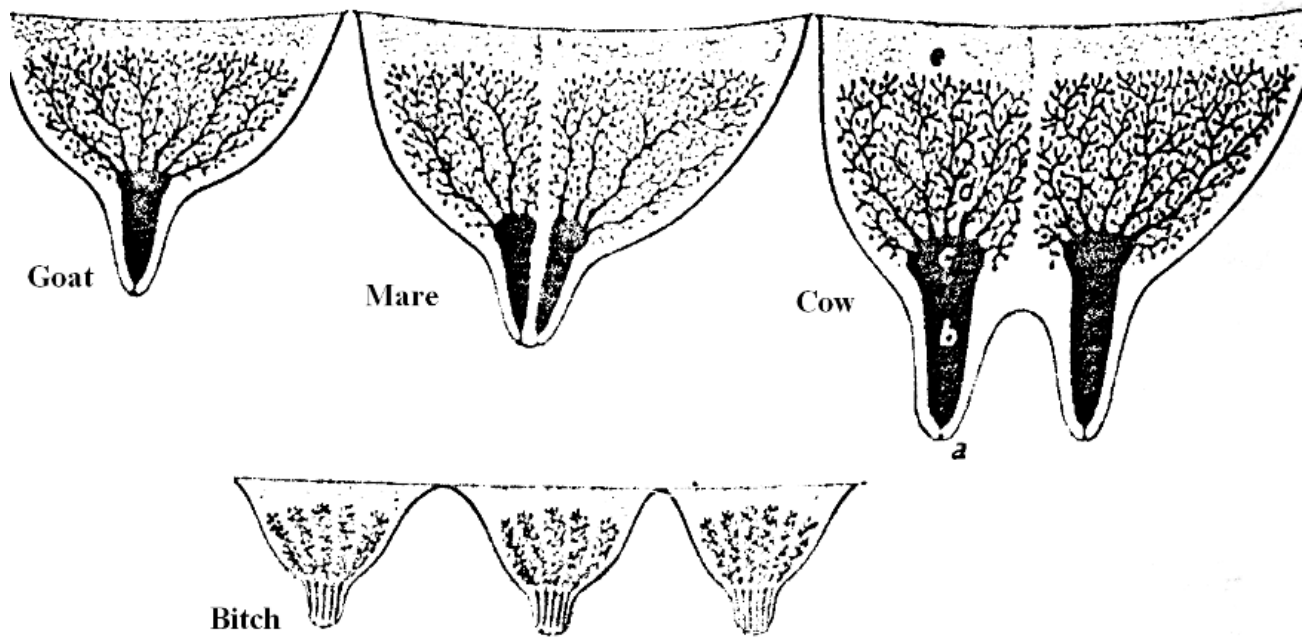




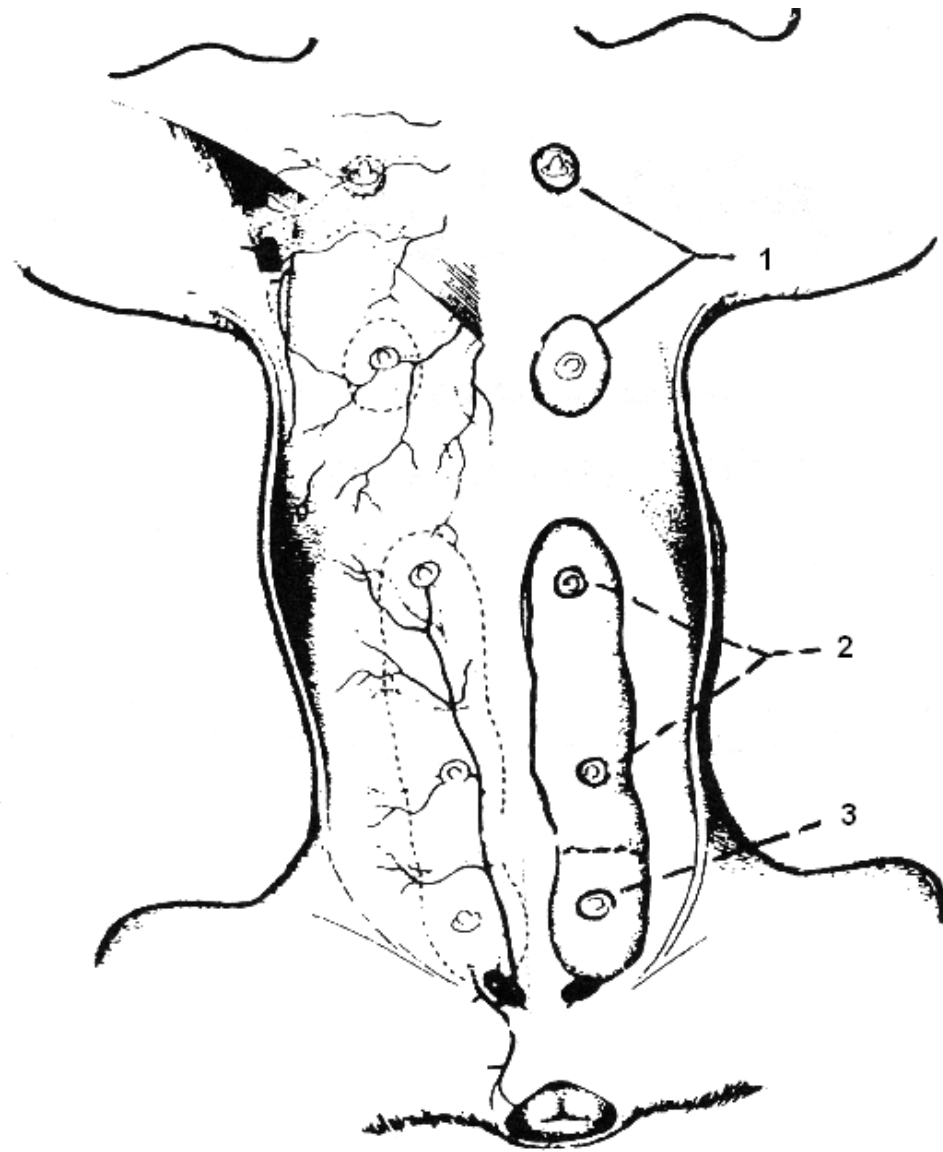


# Mammary Gland

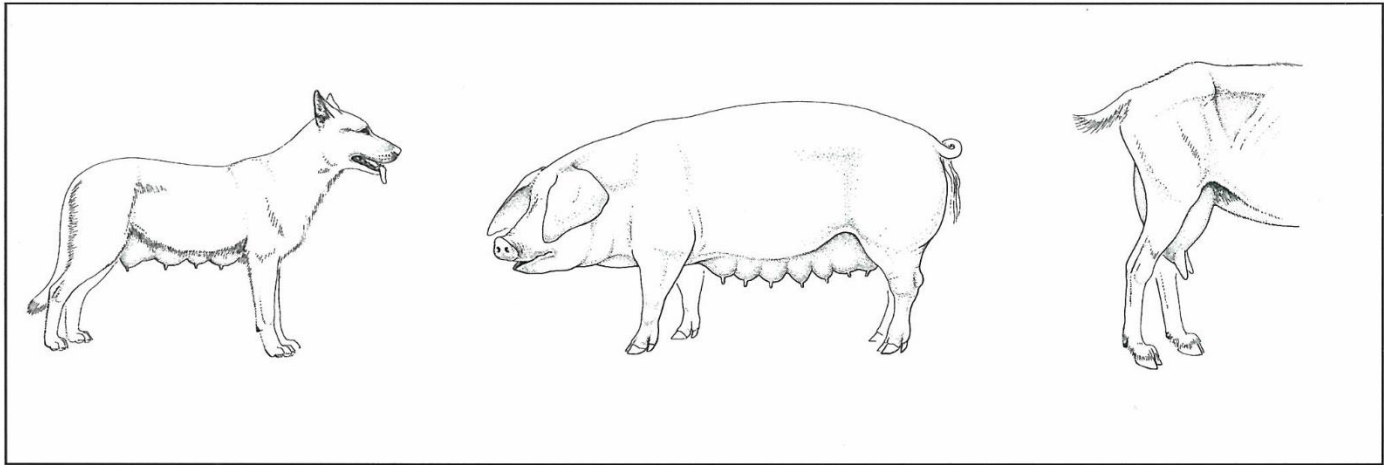
غدد پستانی



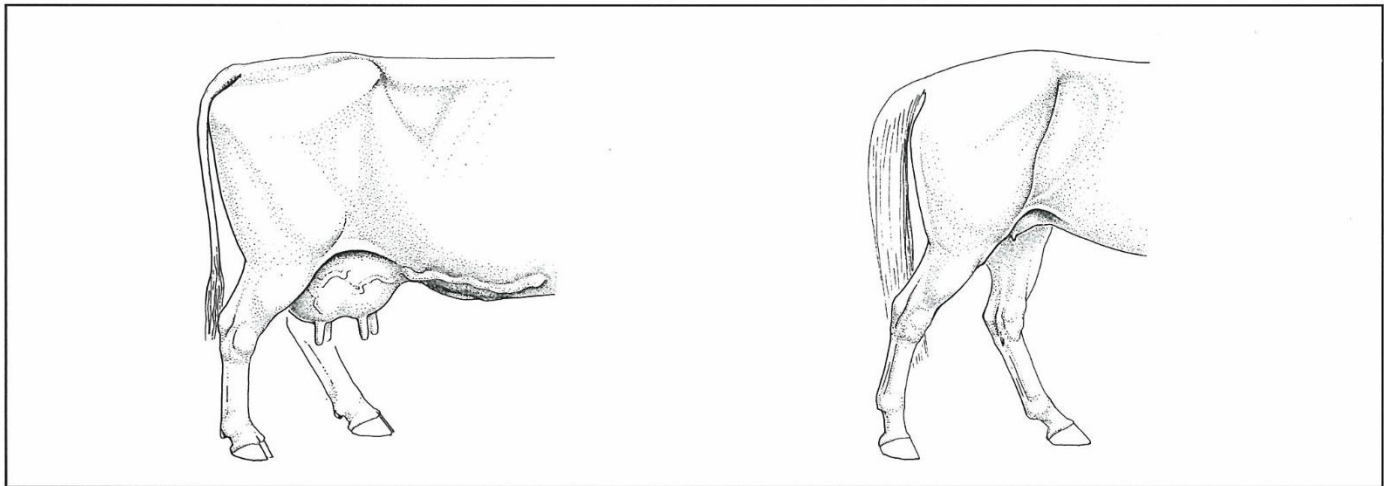
a) Teat orifice b) Teat cistern c) Gland cistern  
e) Glandular tissue



1)Thoracic mamillary glands 2)Abdominal m.g. 3)Inguinal m.g



**Fig. 18-20.** Mamma of the bitch and sow, udder of a she-goat, schematic.



**Fig. 18-21.** Udder of a cow and mare, schematic.