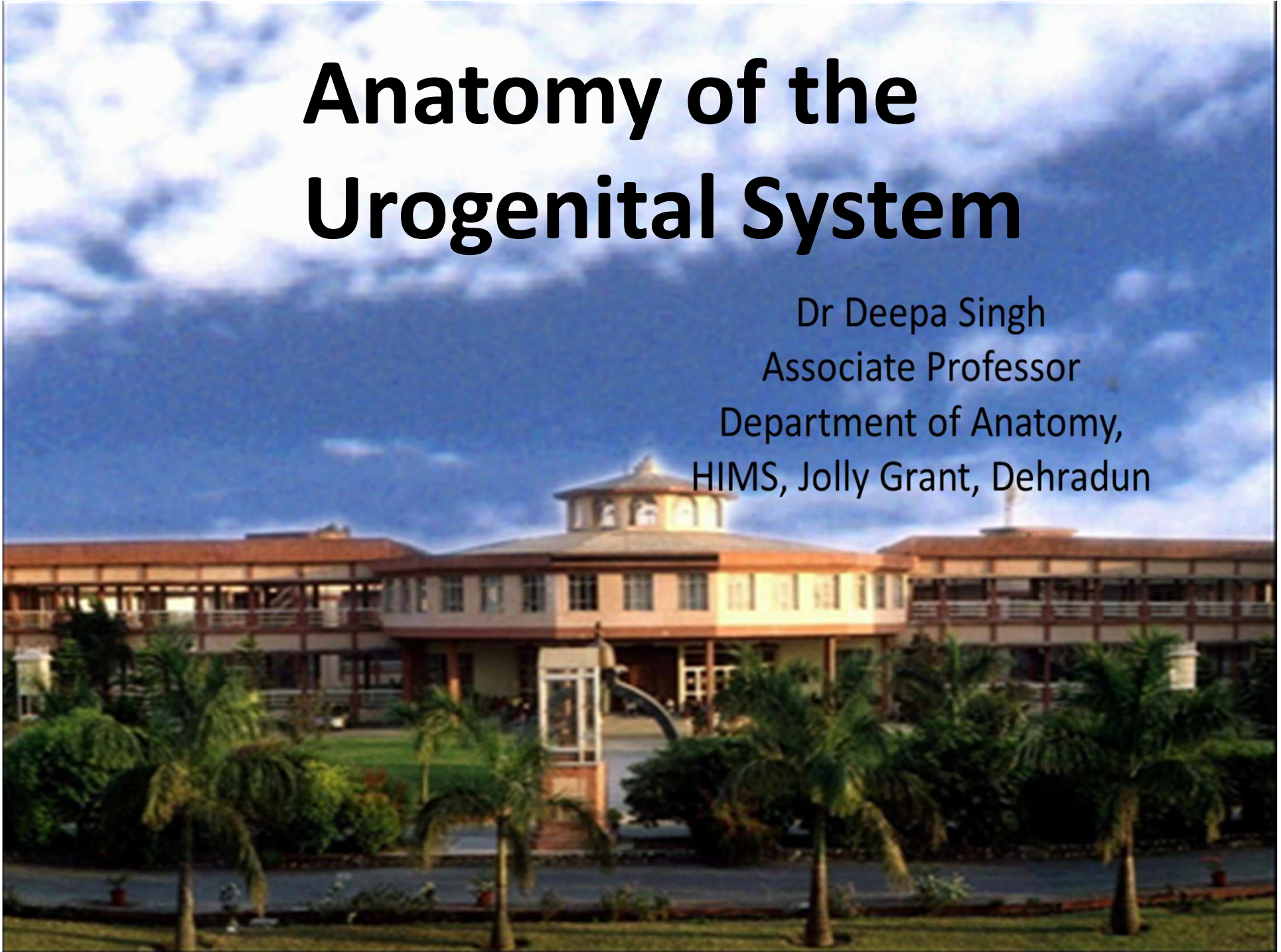


Anatomy of the Urogenital System

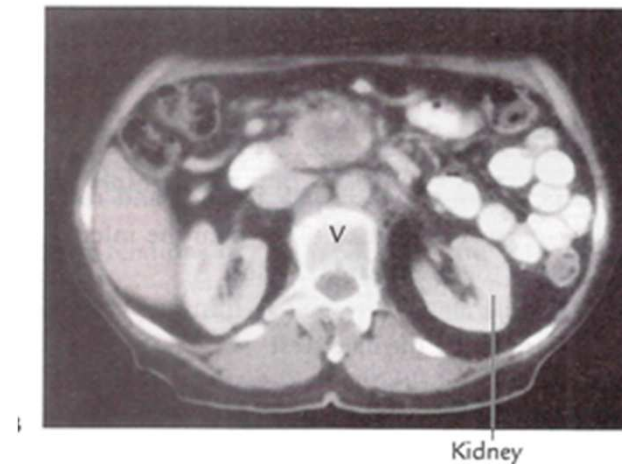
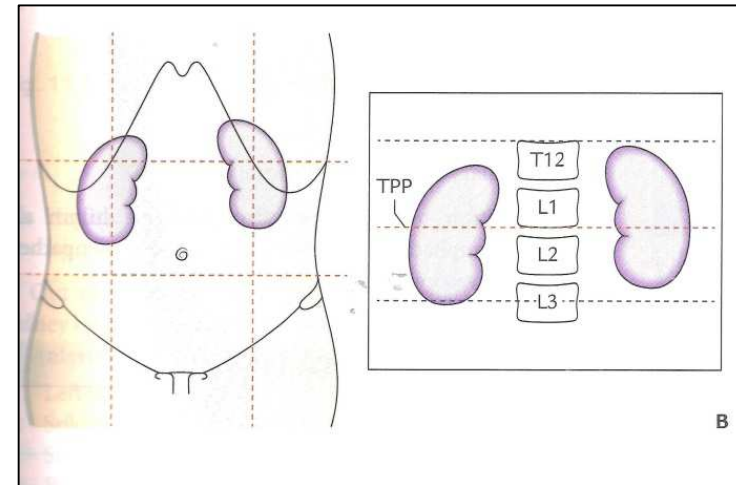
Dr Deepa Singh
Associate Professor
Department of Anatomy,
HIMS, Jolly Grant, Dehradun



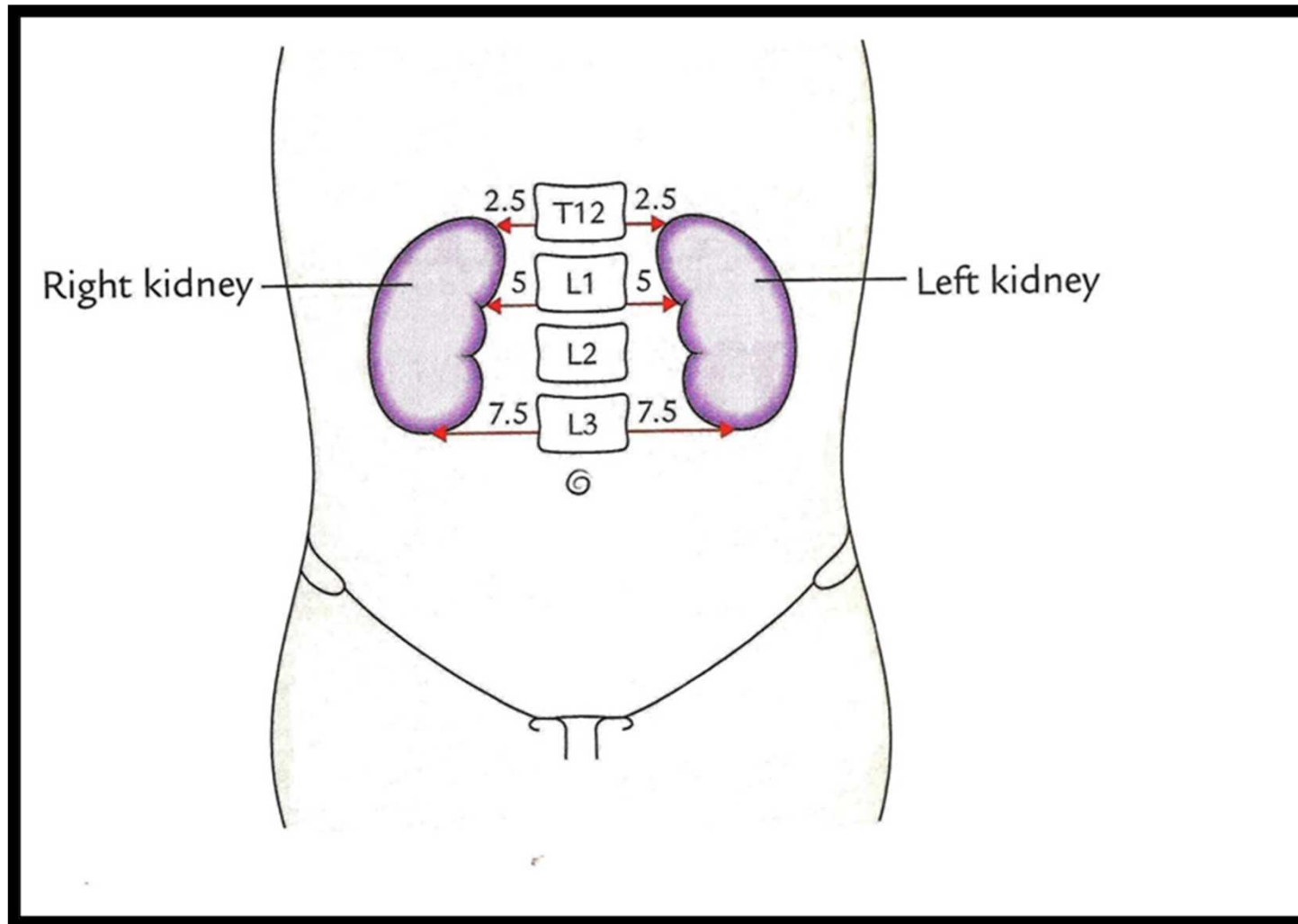
THE KIDNEY

Location & Surface Projection

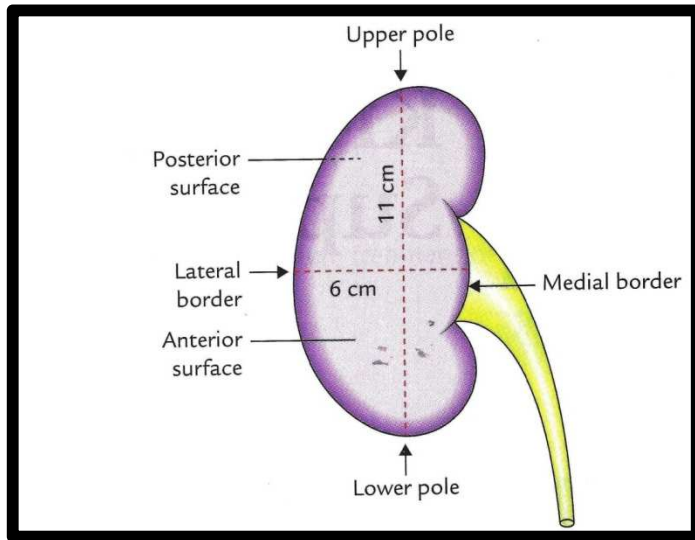
- On the posterior abdominal wall
- Retroperitoneal
- Opposite T12-L3
- Occupying epigastric, hypochondriac, lumbar and umbilical regions



Distances from midline

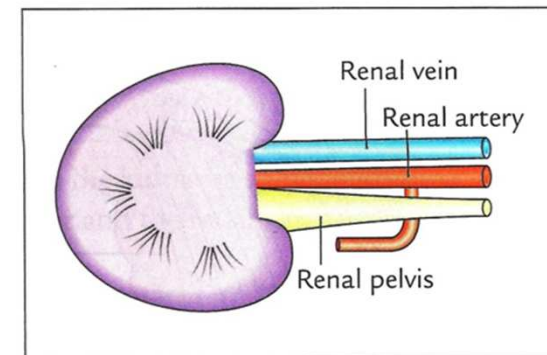
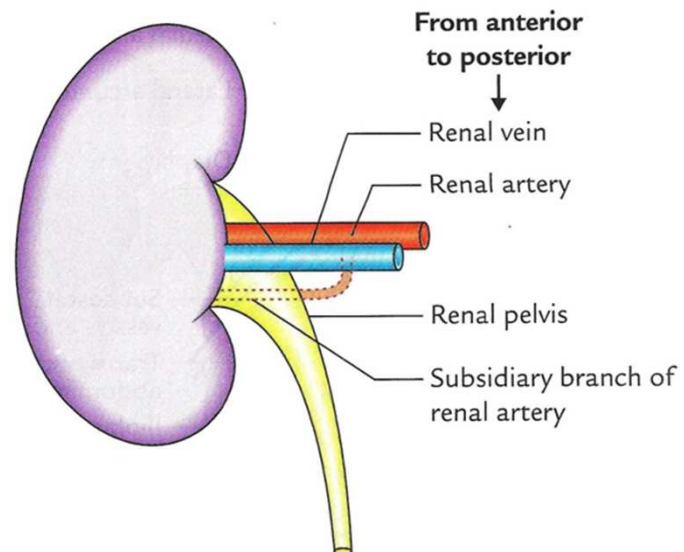


External features

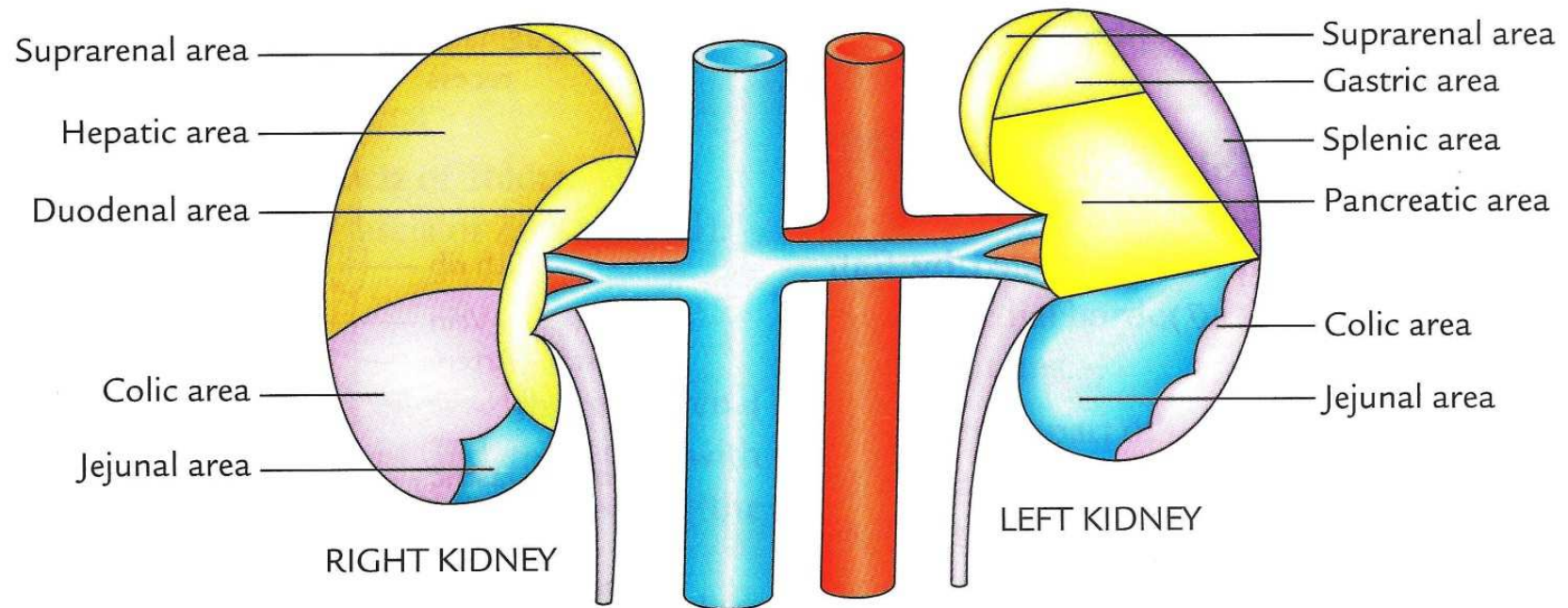


BORDERS AND SURFACES

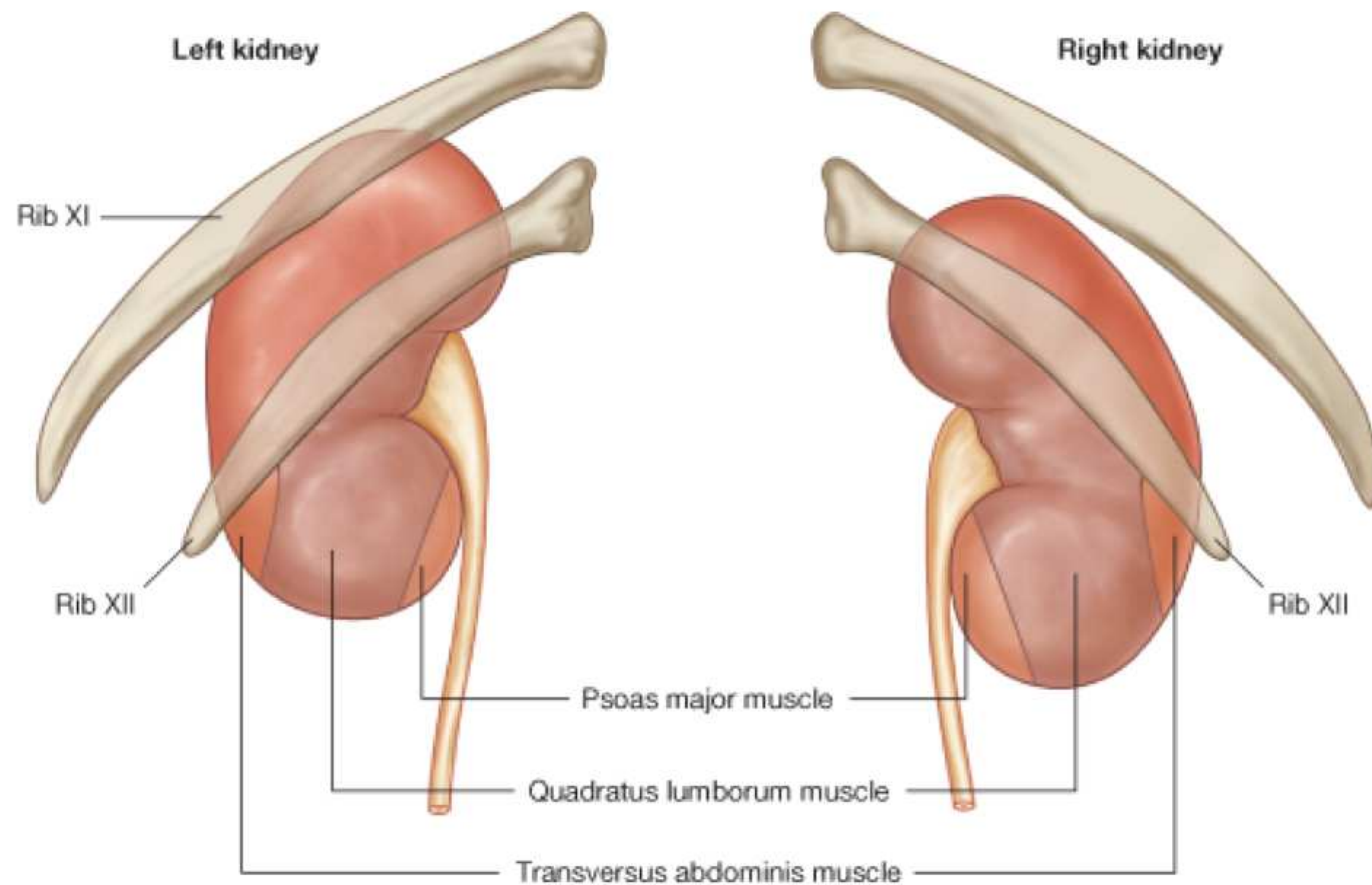
HILUM



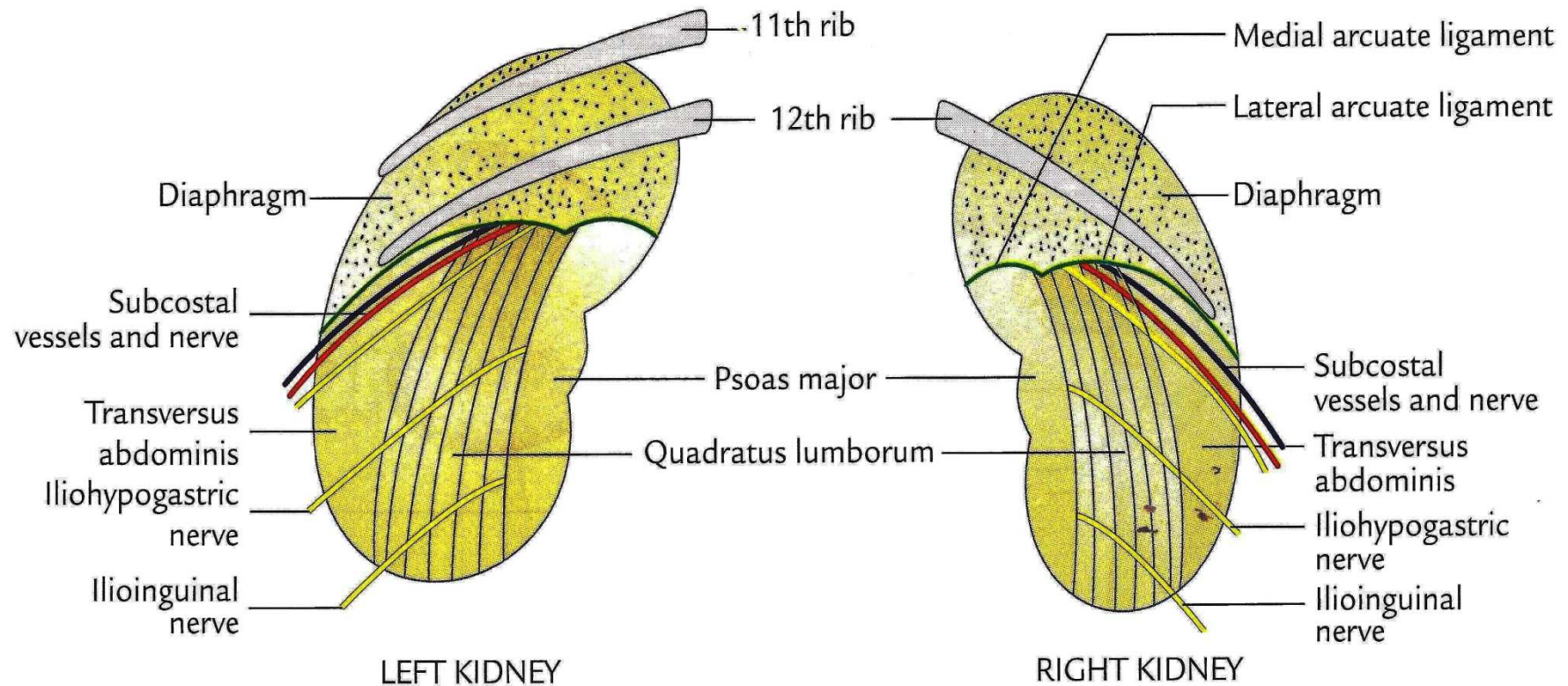
Anterior Relations



Ribs and Kidneys

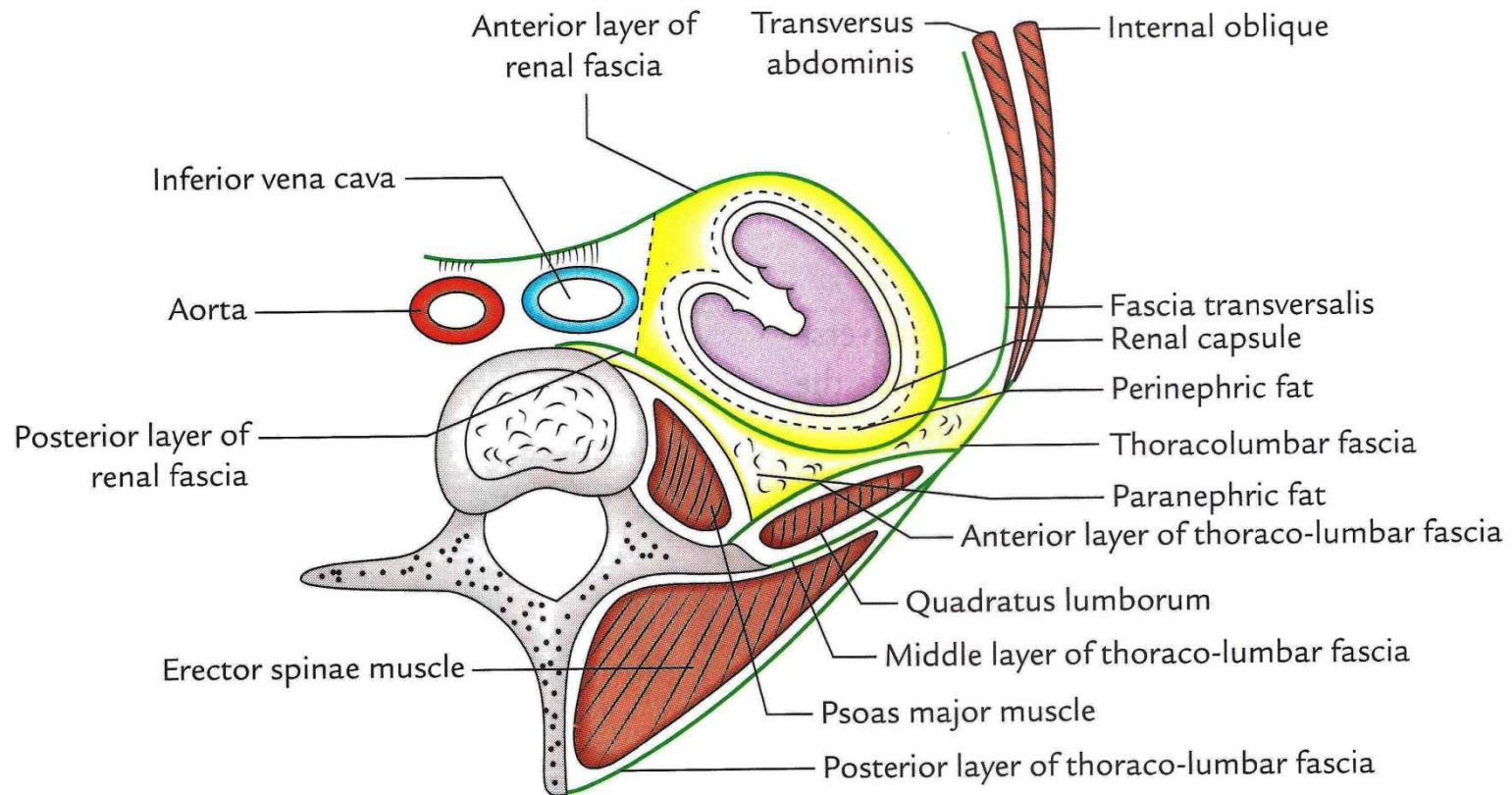


Posterior relations

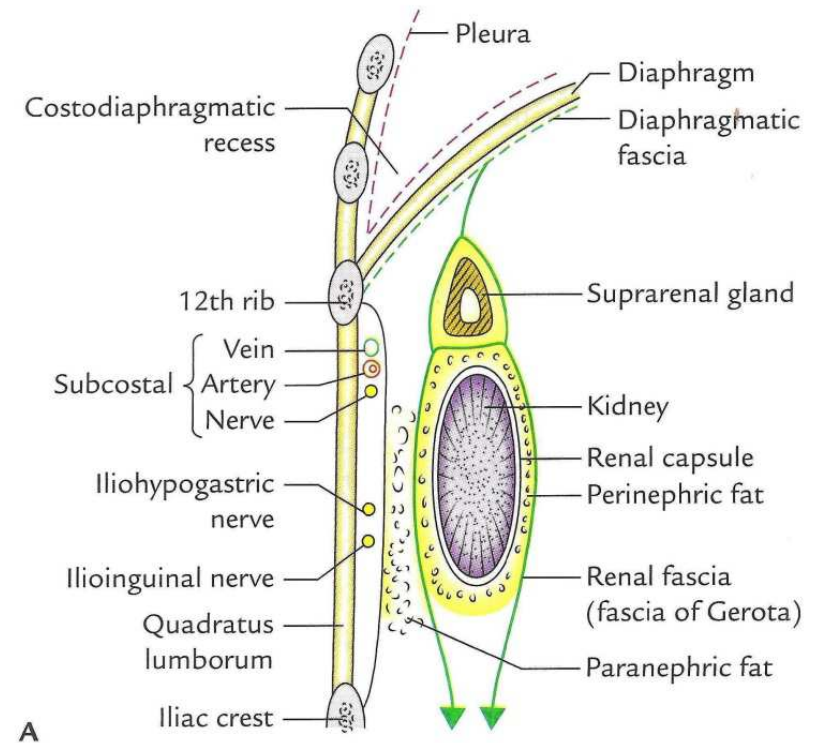
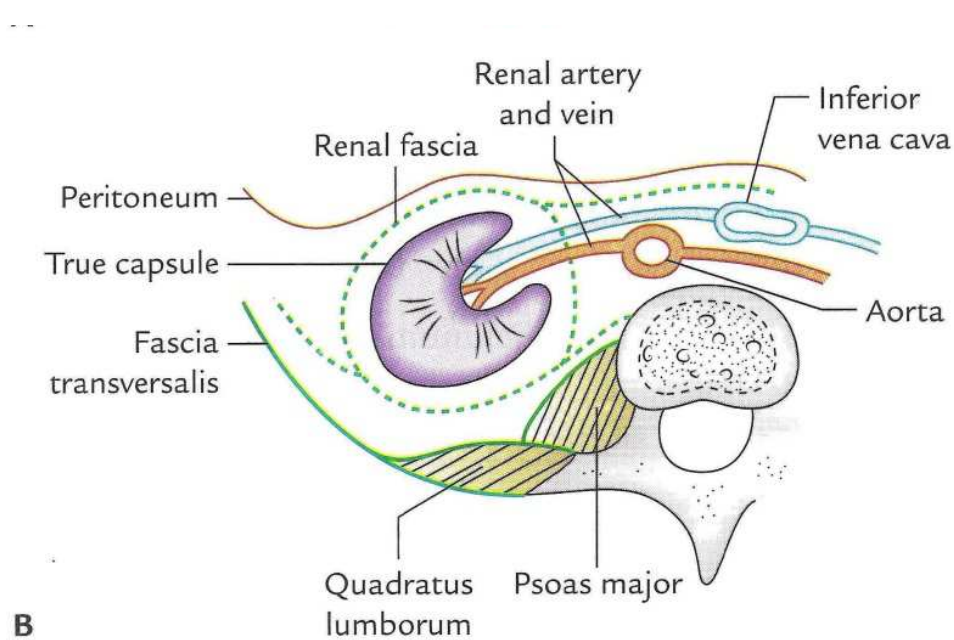


Relation to ribs and Lateral border of Psoas Major

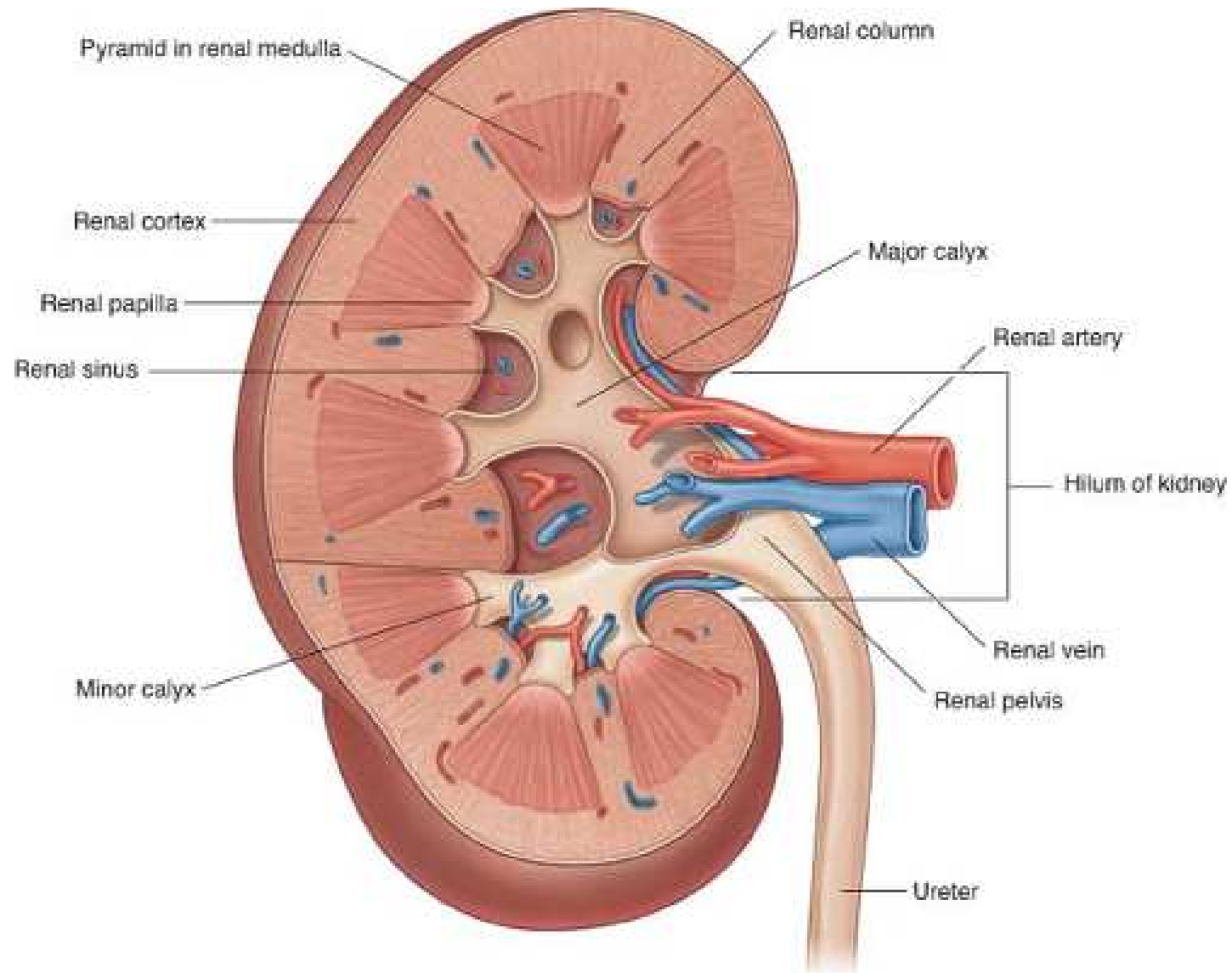
Capsules



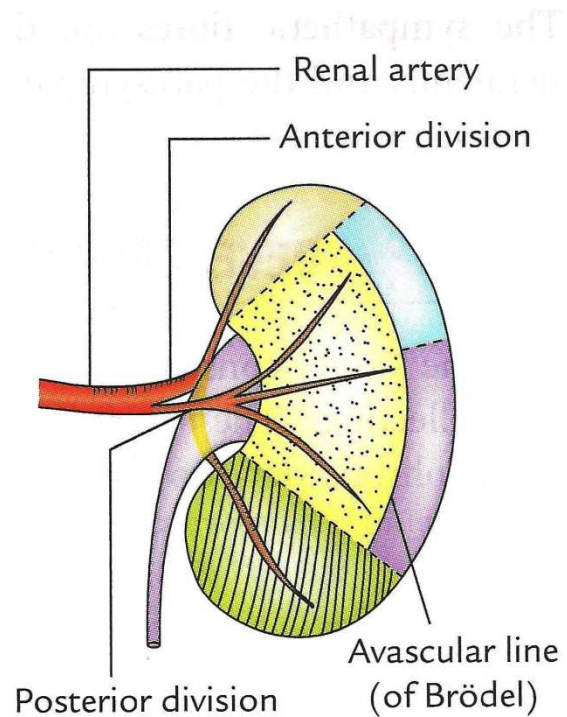
Capsules contd...



Macroscopic structure



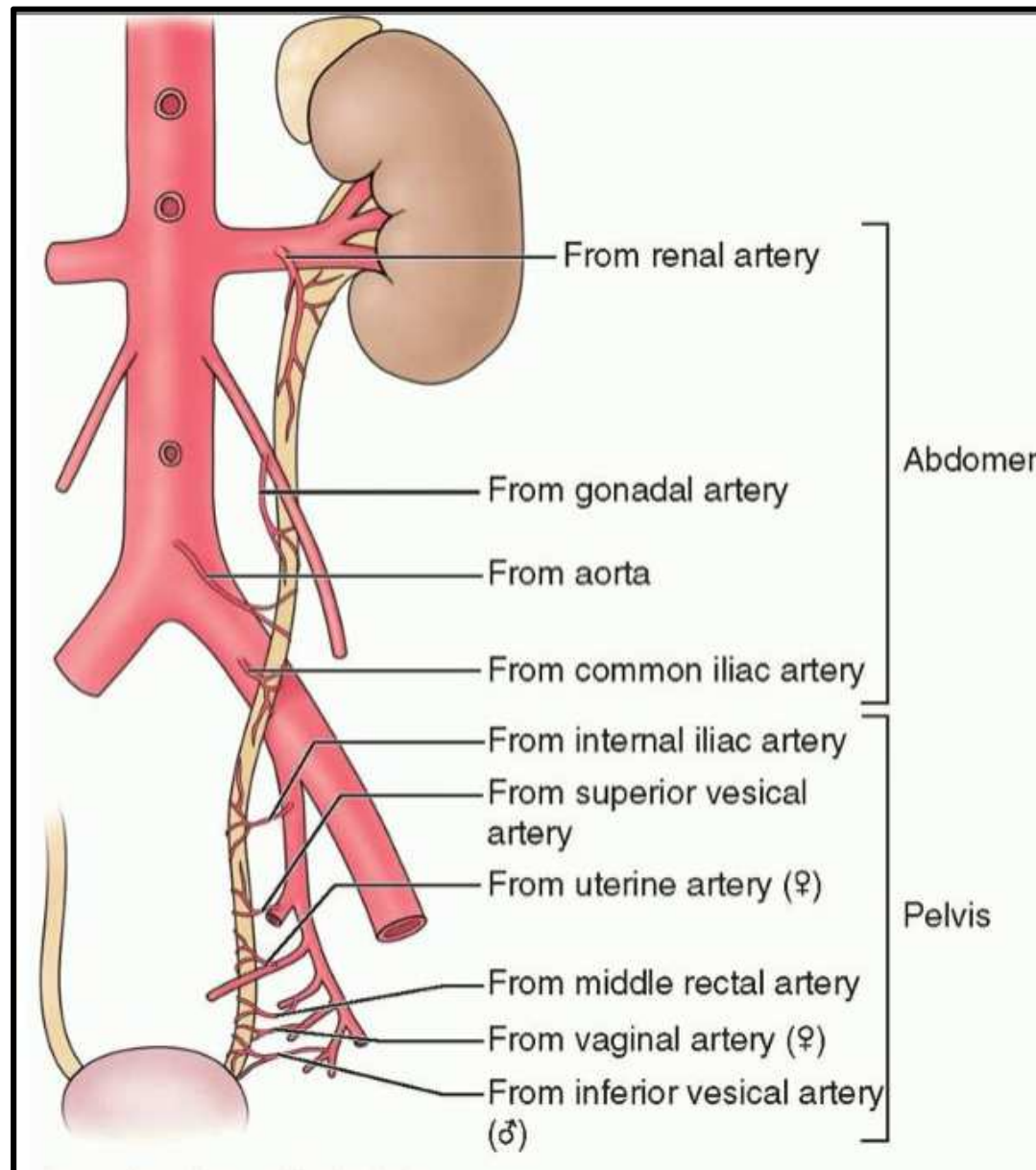
Blood supply



Renal artery-

branch of abdominal
aorta

Blood supply of ureter



Lymphatic Drainage

Right Kidney:

- Paracaval
- Inter-aorto caval lymph nodes

Left Kidney:

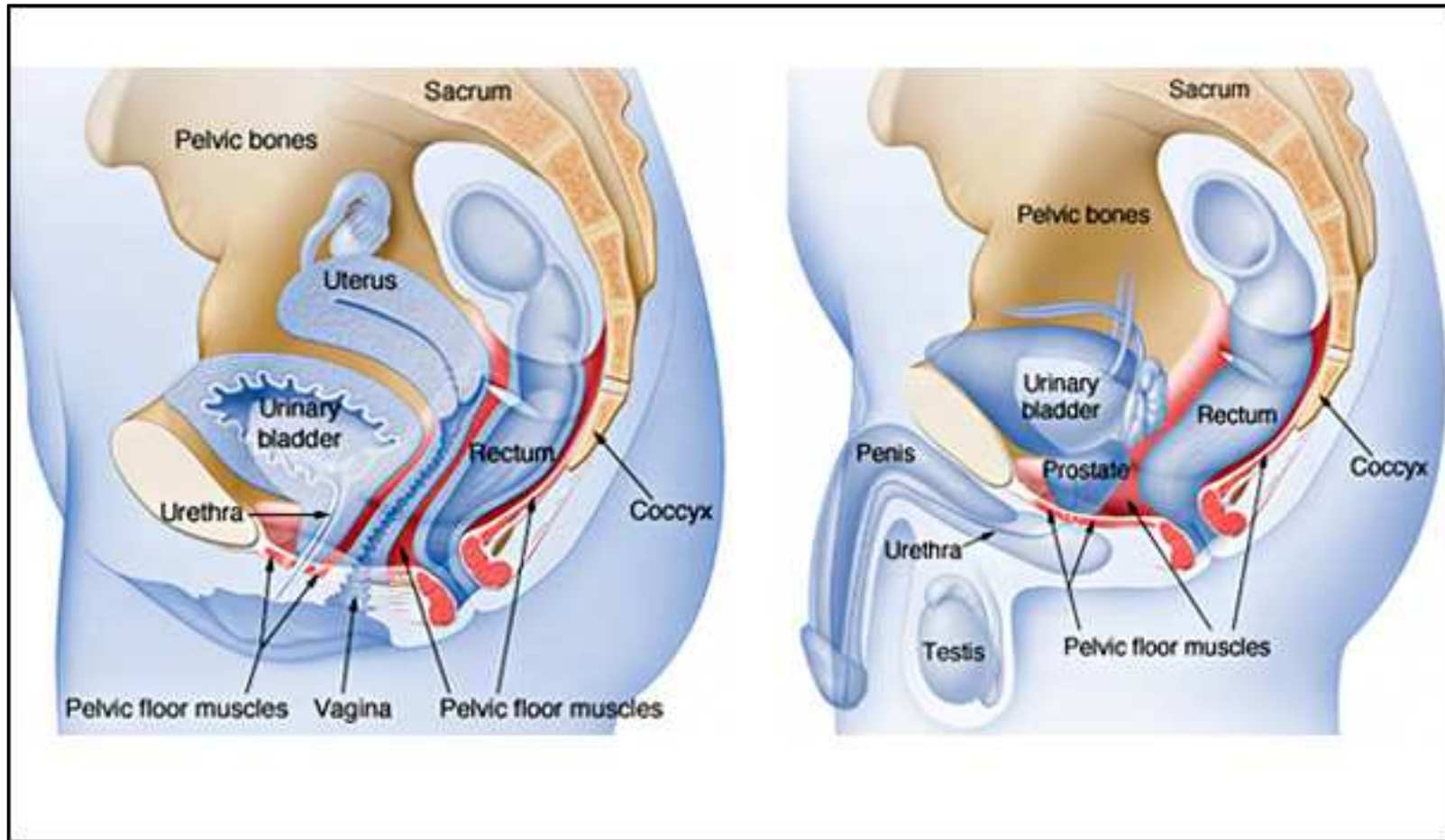
- Exclusively into Para-aortic lymph nodes

URETERS:

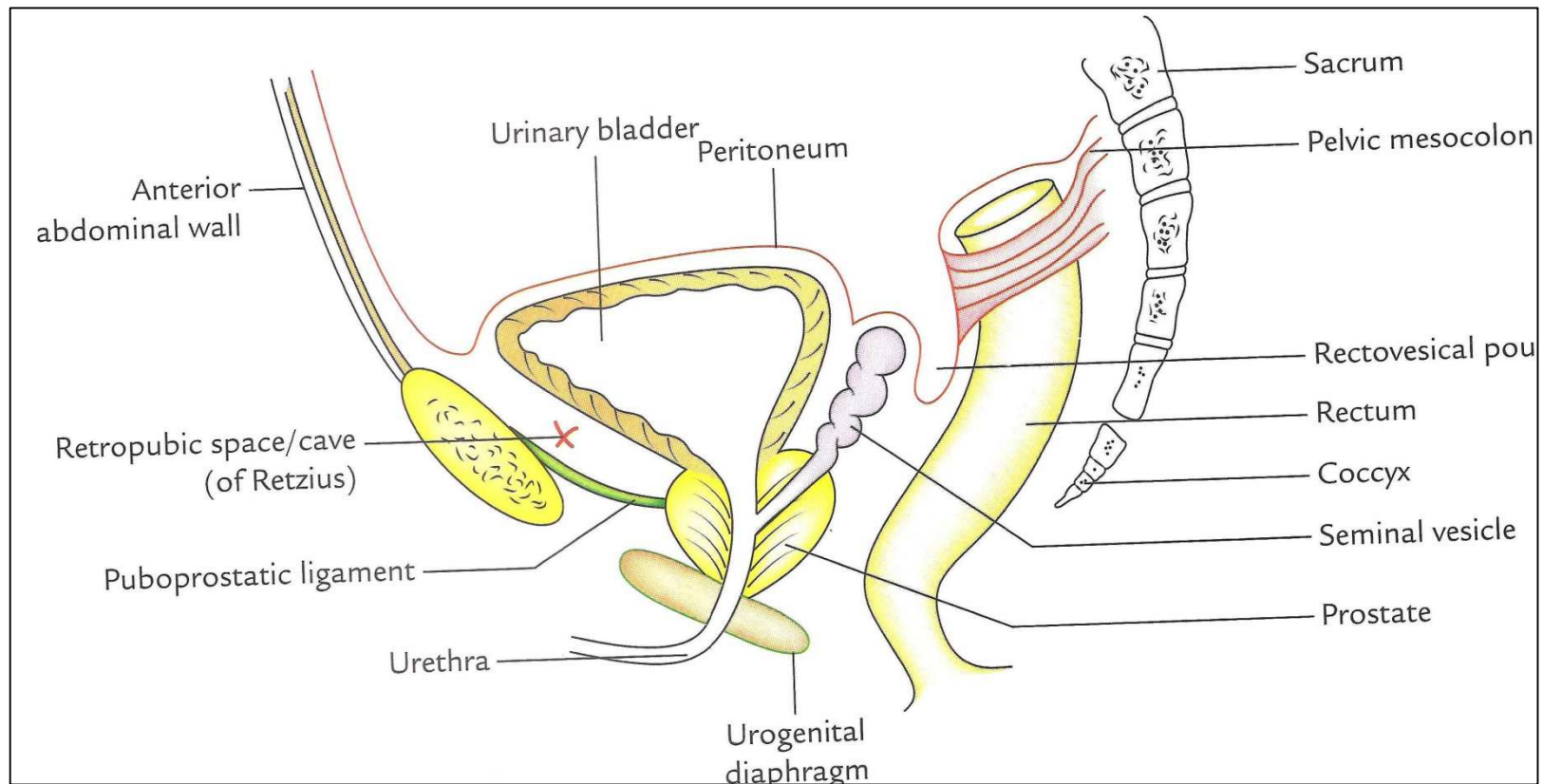
- Renal hilar
- Abdominal paraaortic
- Paracaval
- Common iliac
- Internal iliac
- External iliac

Urinary Bladder

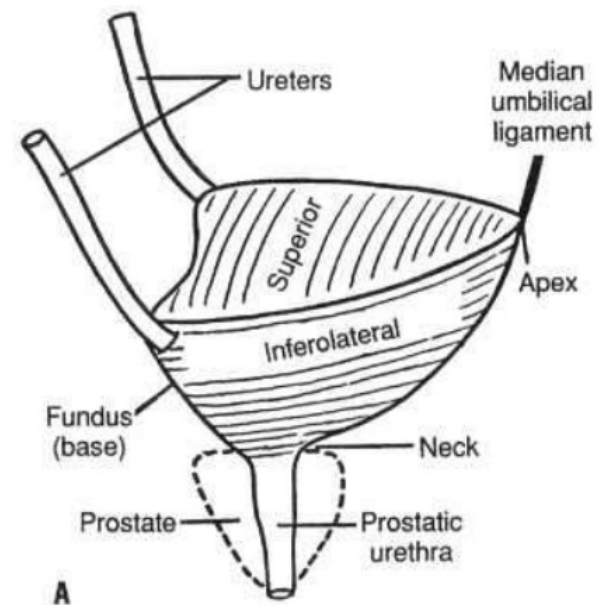
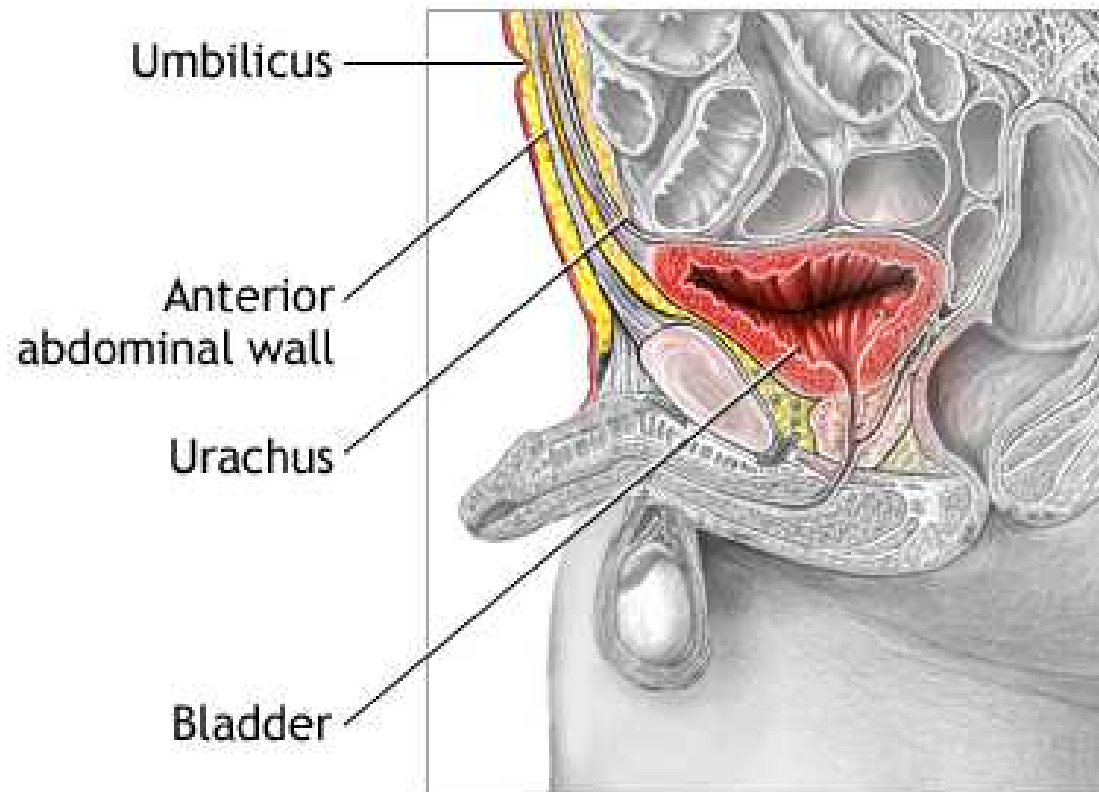
Location



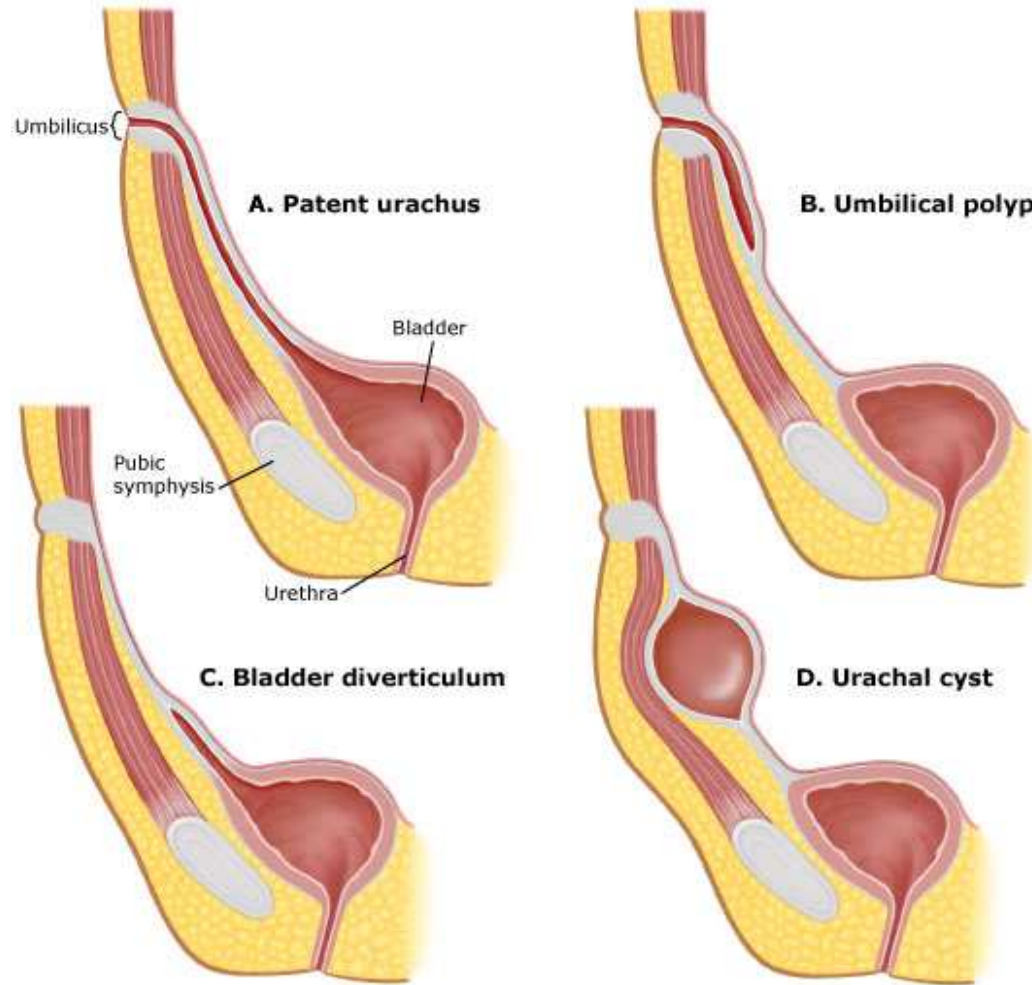
Relation of apex to pubic bone



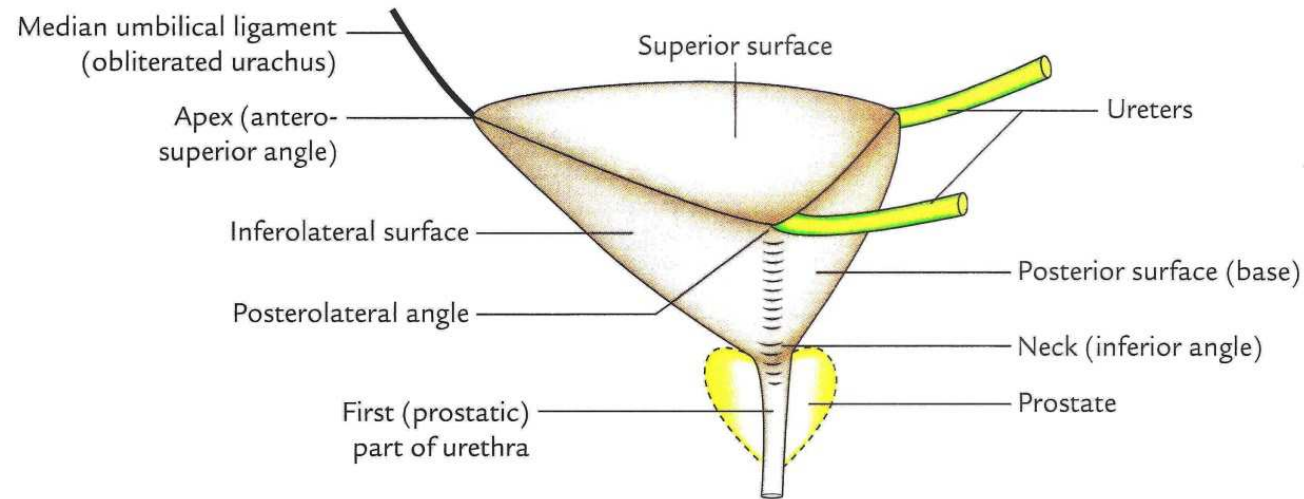
Urachus and Median Umbilical Ligament



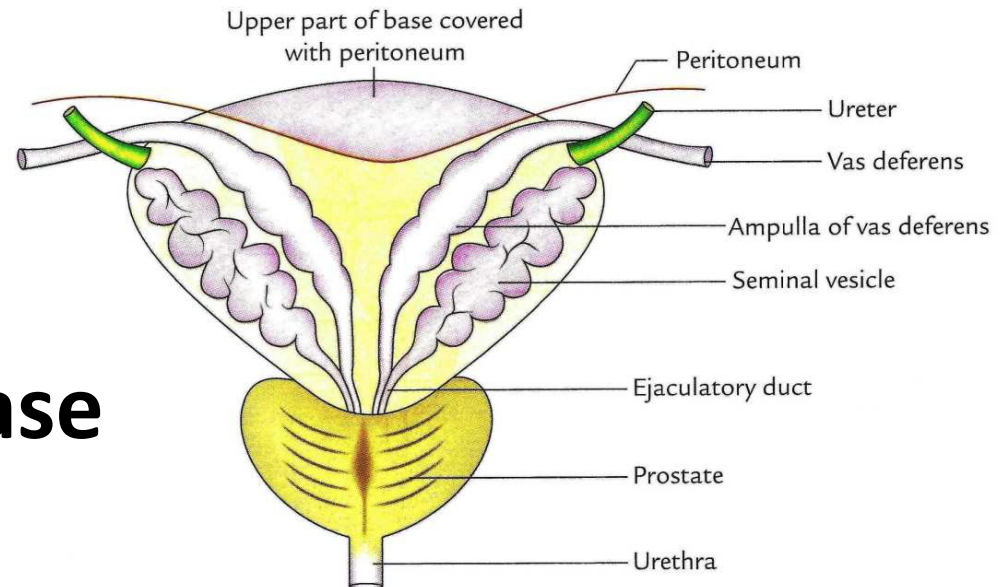
Urachal abnormalities



External features

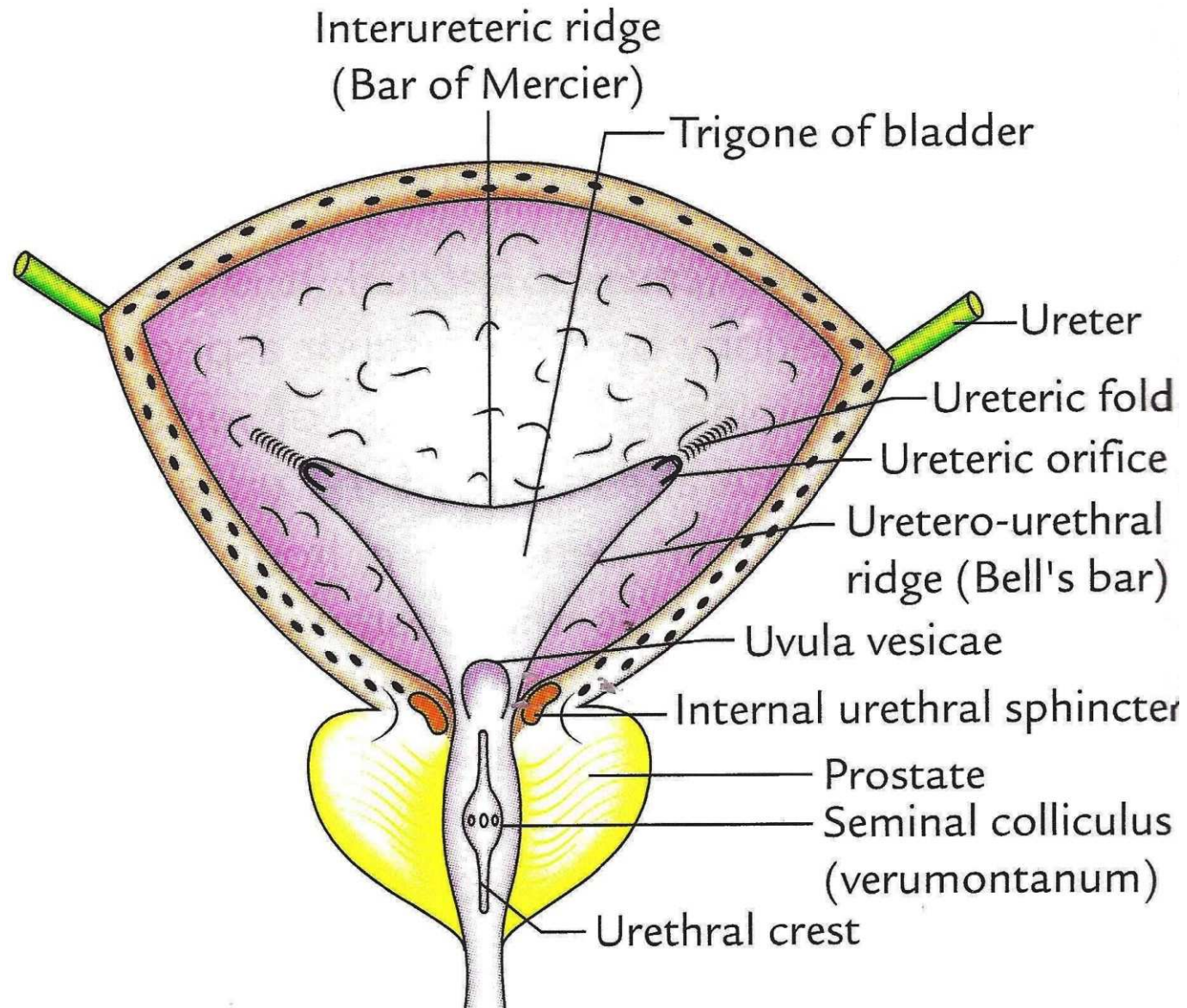


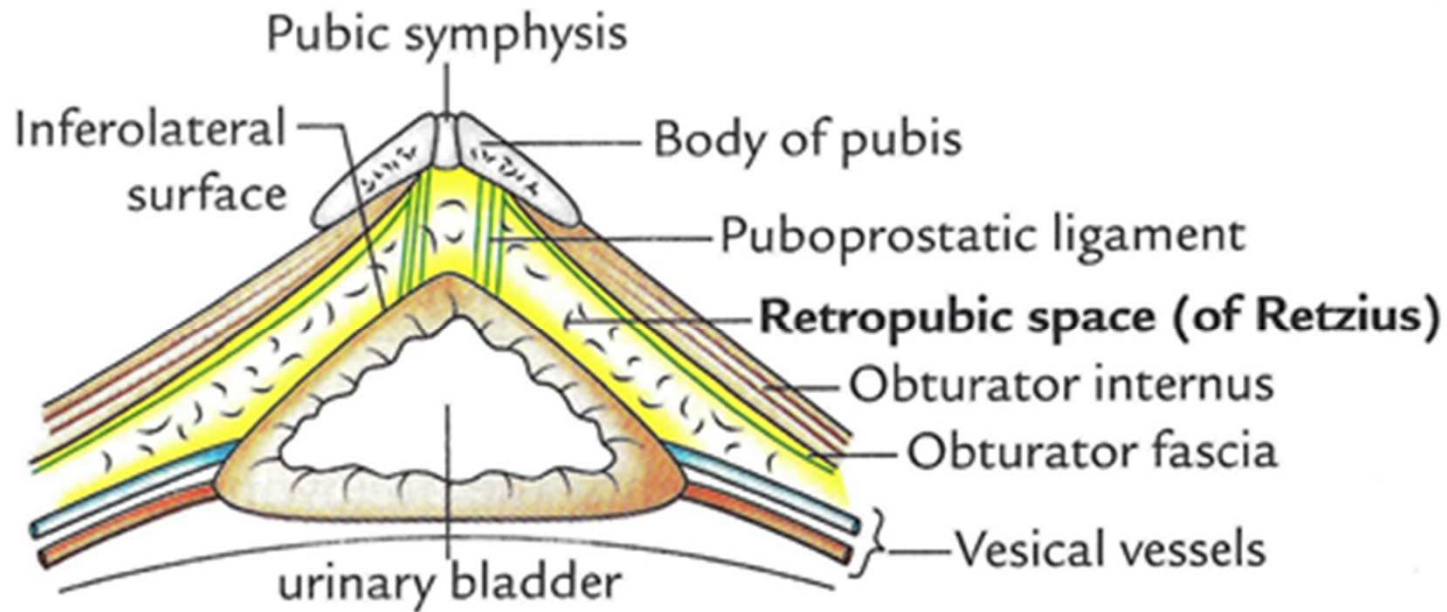
**As seen
from the
side**



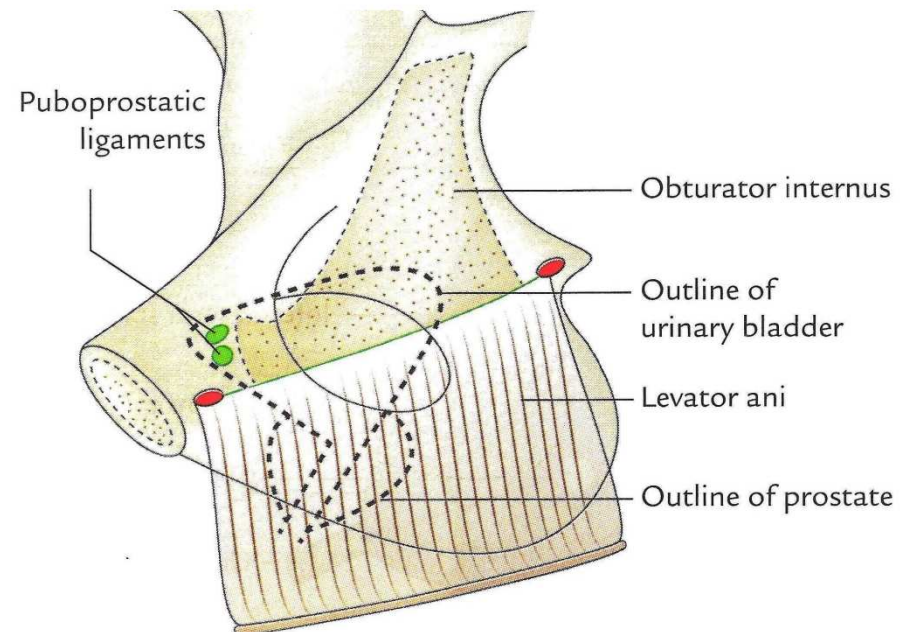
As seen from the base

Interior





Relations

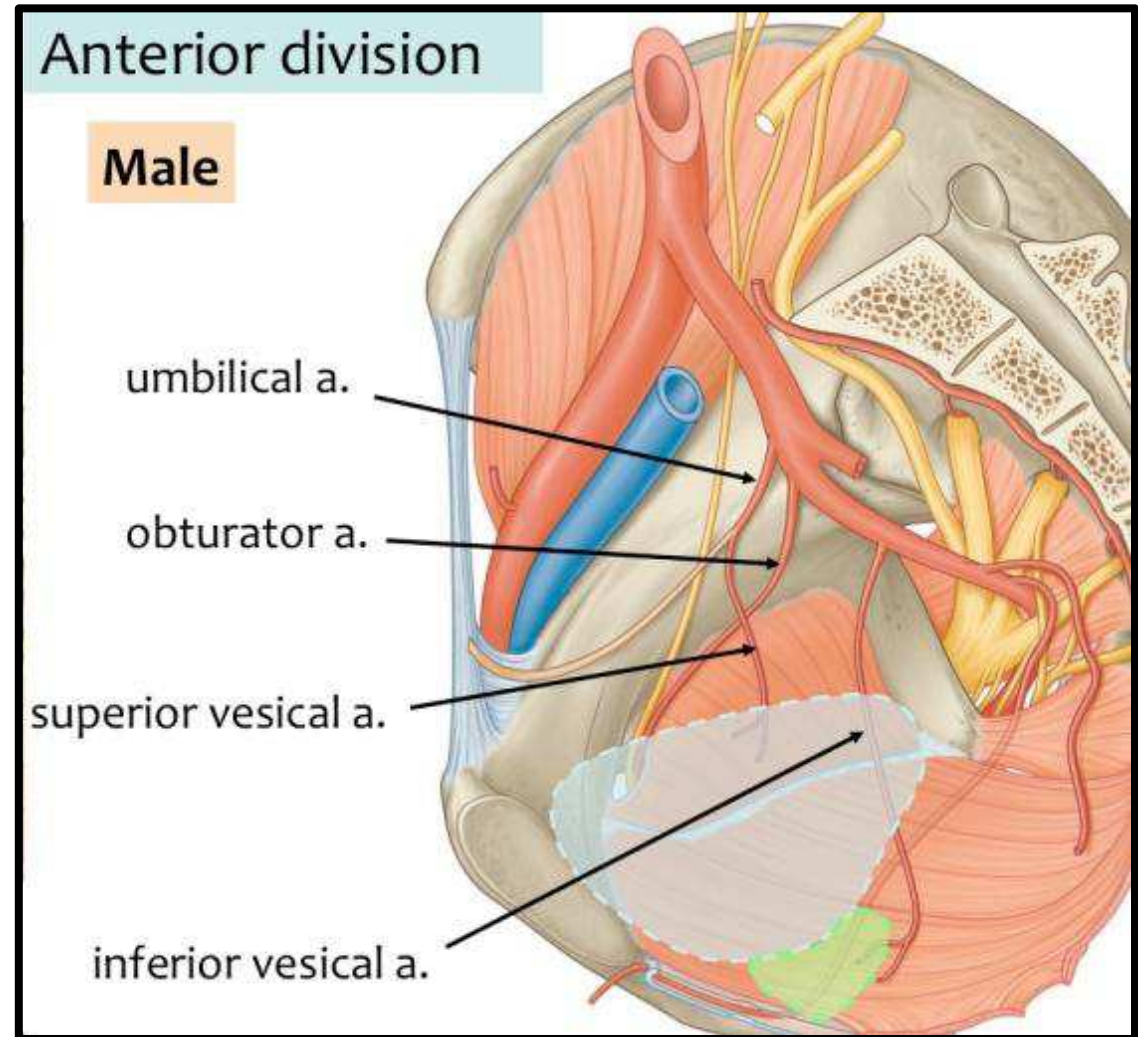


Blood supply

- **Superior and inferior vesical arteries**

Support from:

- Obturator
- Inferior gluteal
- Uterine and vaginal in female



Lymphatic drainage

- **Chiefly drain into:**

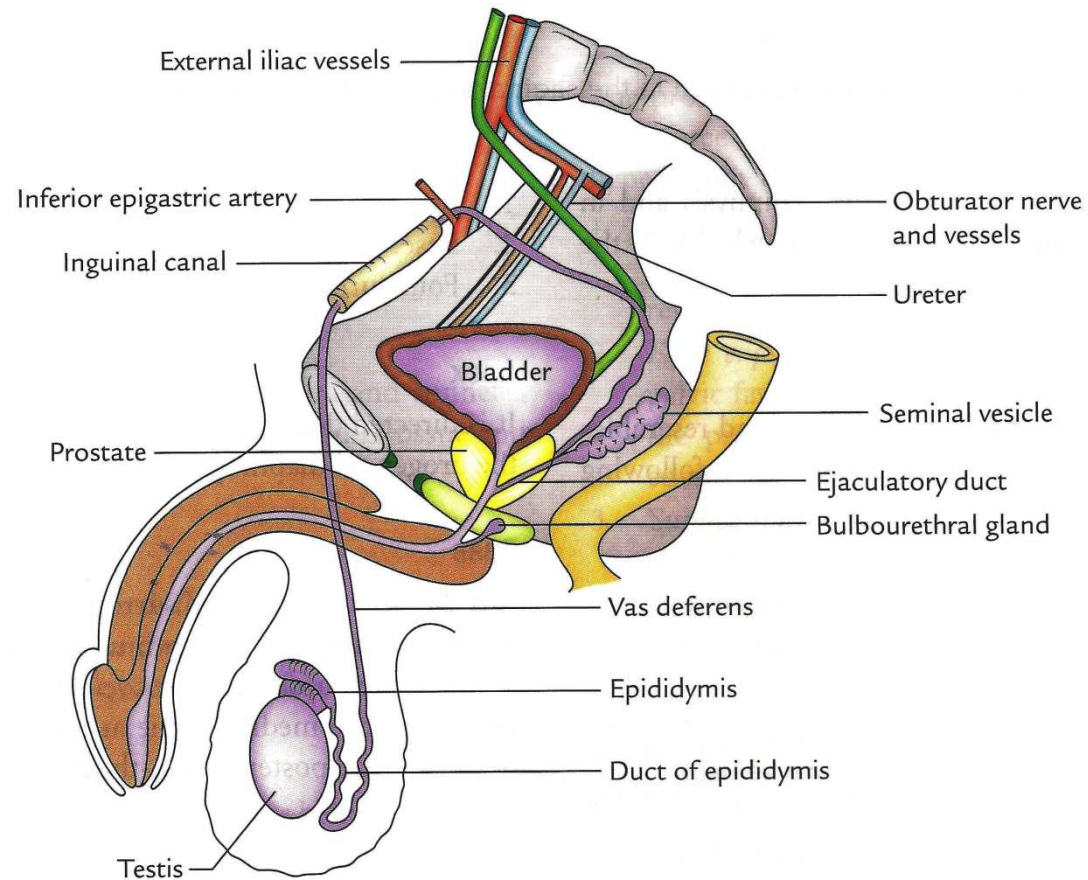
External iliac lymph nodes

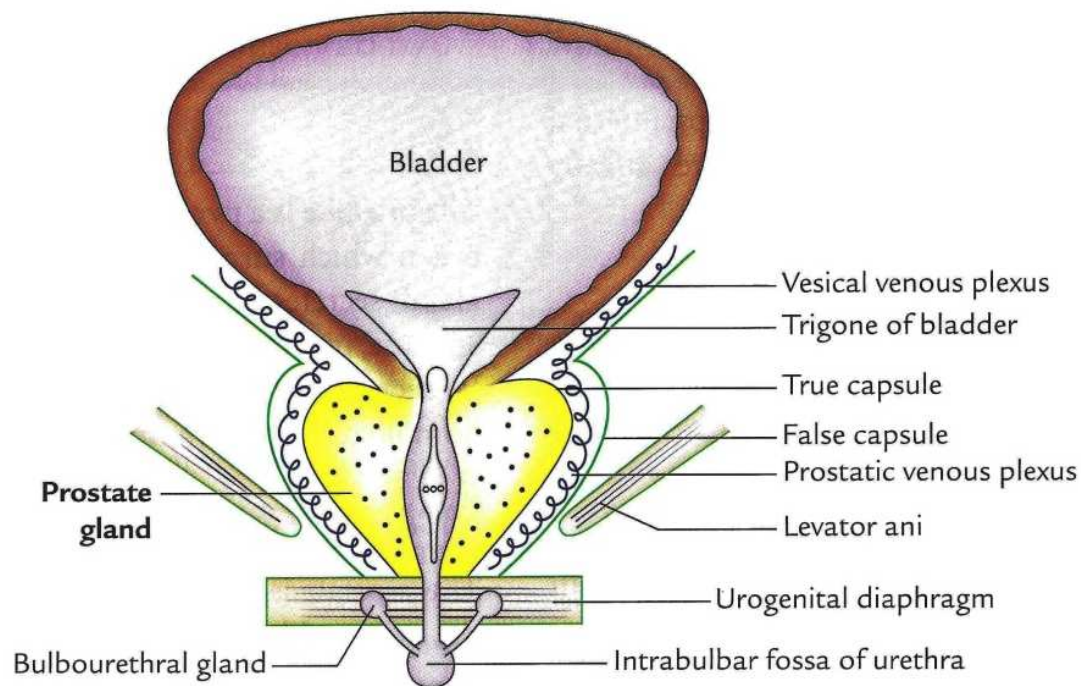
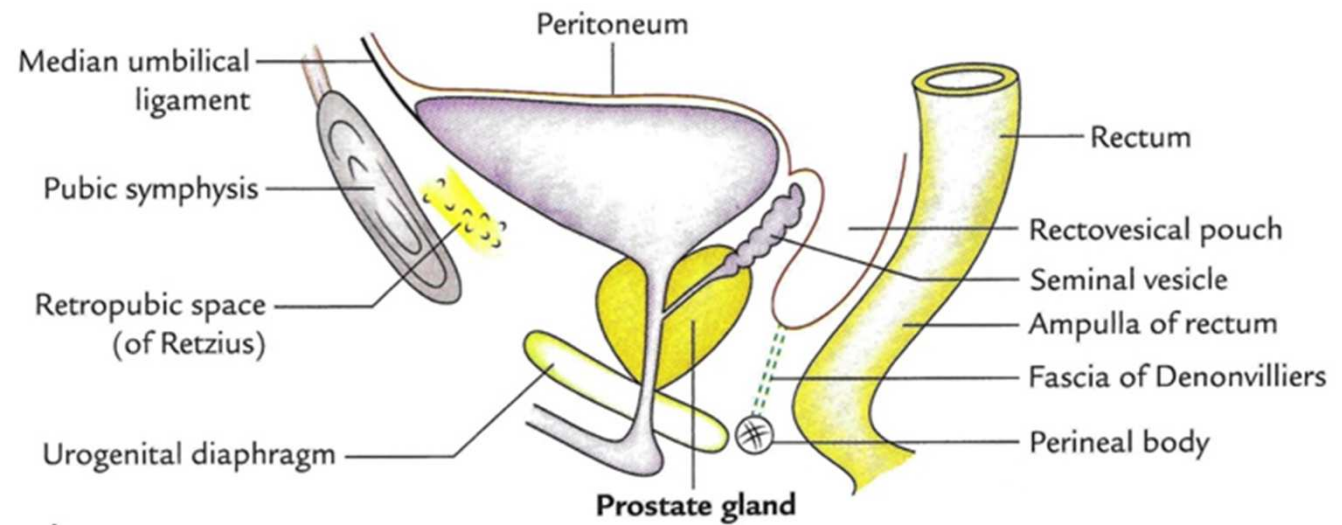
- **Few vessels drain into:**

Internal iliac lymph nodes

Prostate

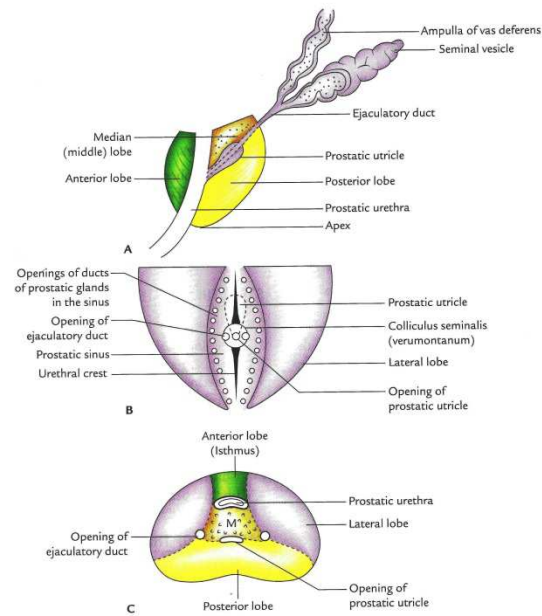
Location



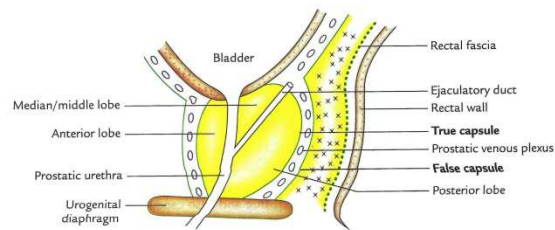


Location

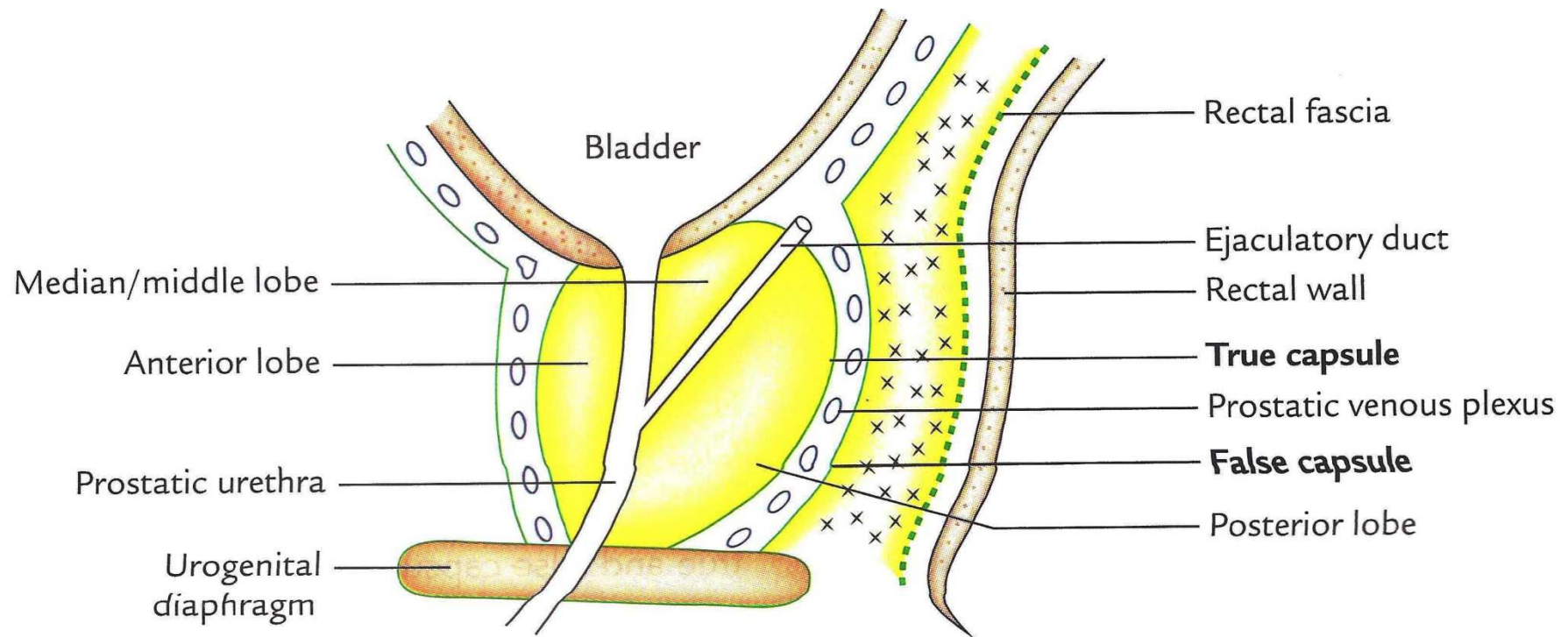
External features and relations



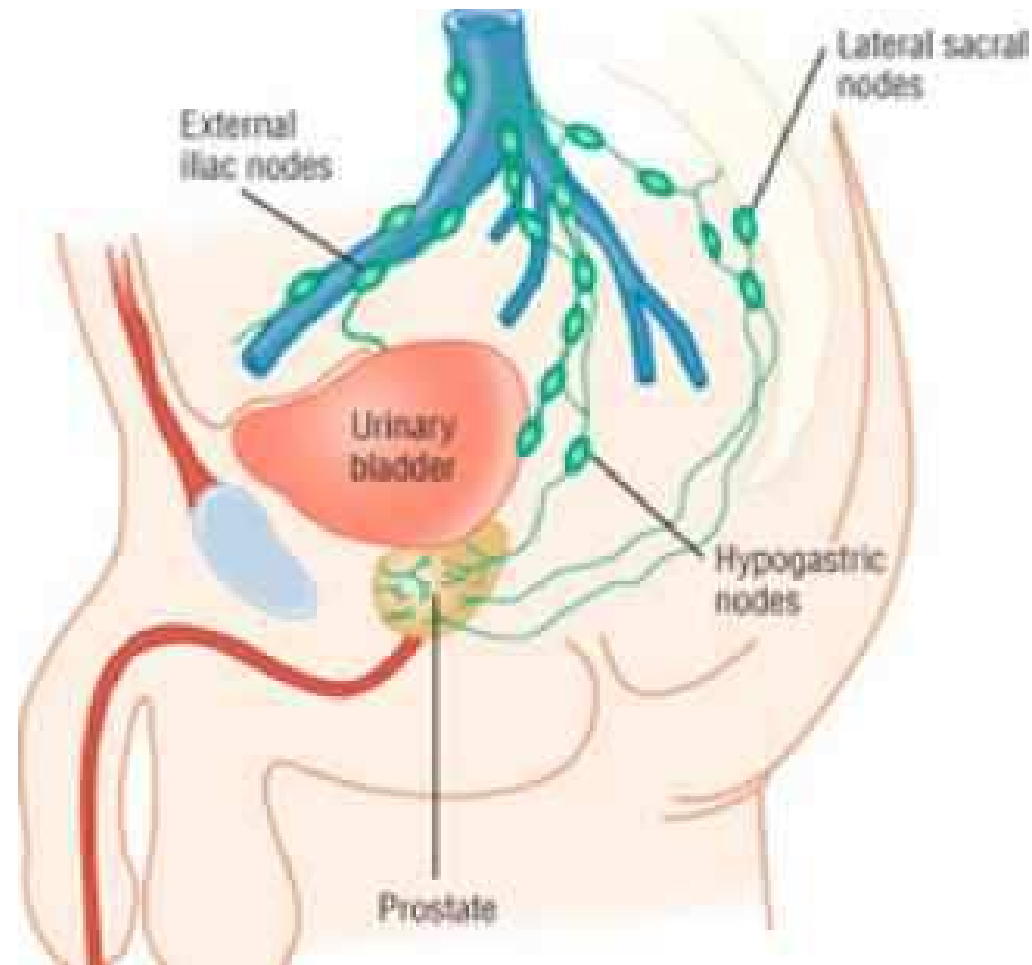
Diagrams A, B, and C show the external features and relations of the prostate gland as seen in sections through different planes: A, left view of a sagittal section; B, horizontal section through the posterior half of the gland; C, horizontal section (M = median lobe).



Capsules

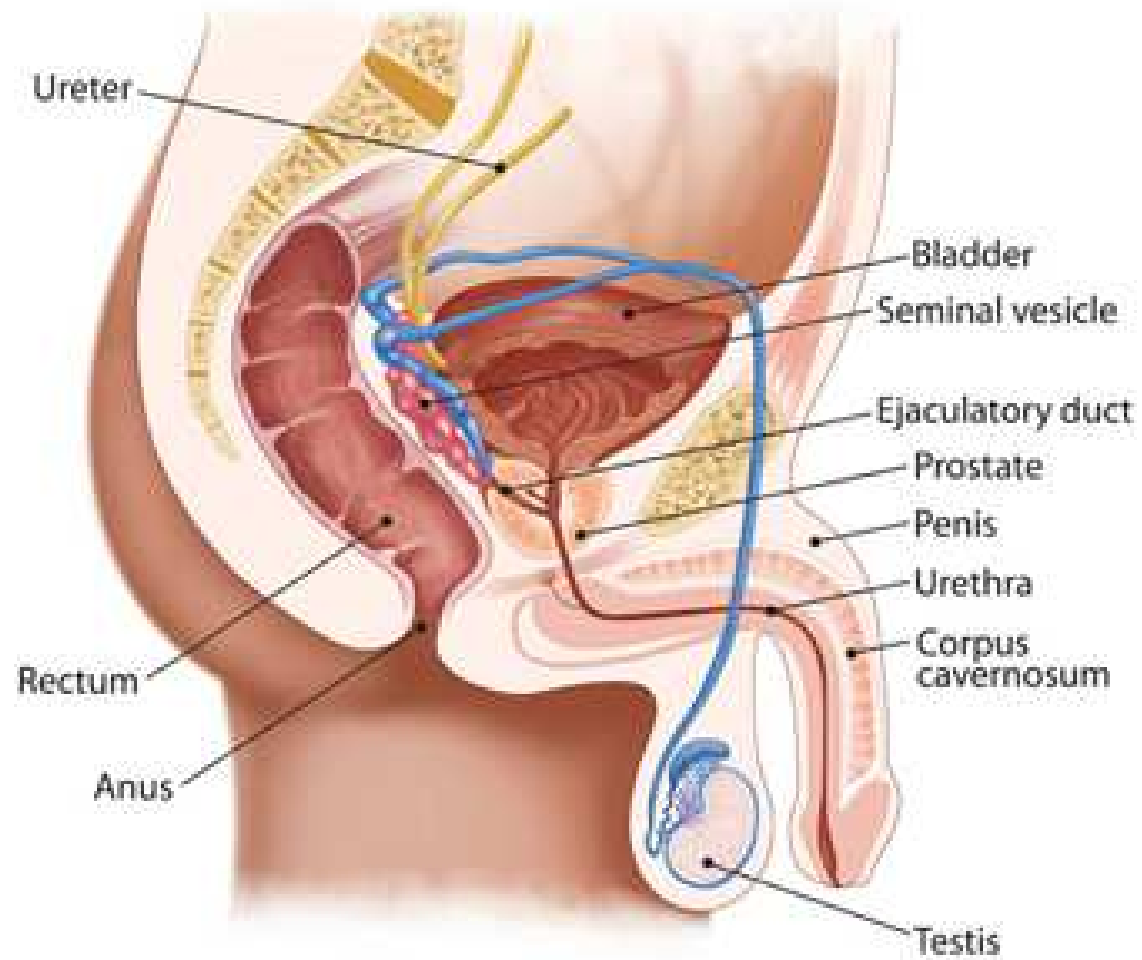


Lymphatic drainage

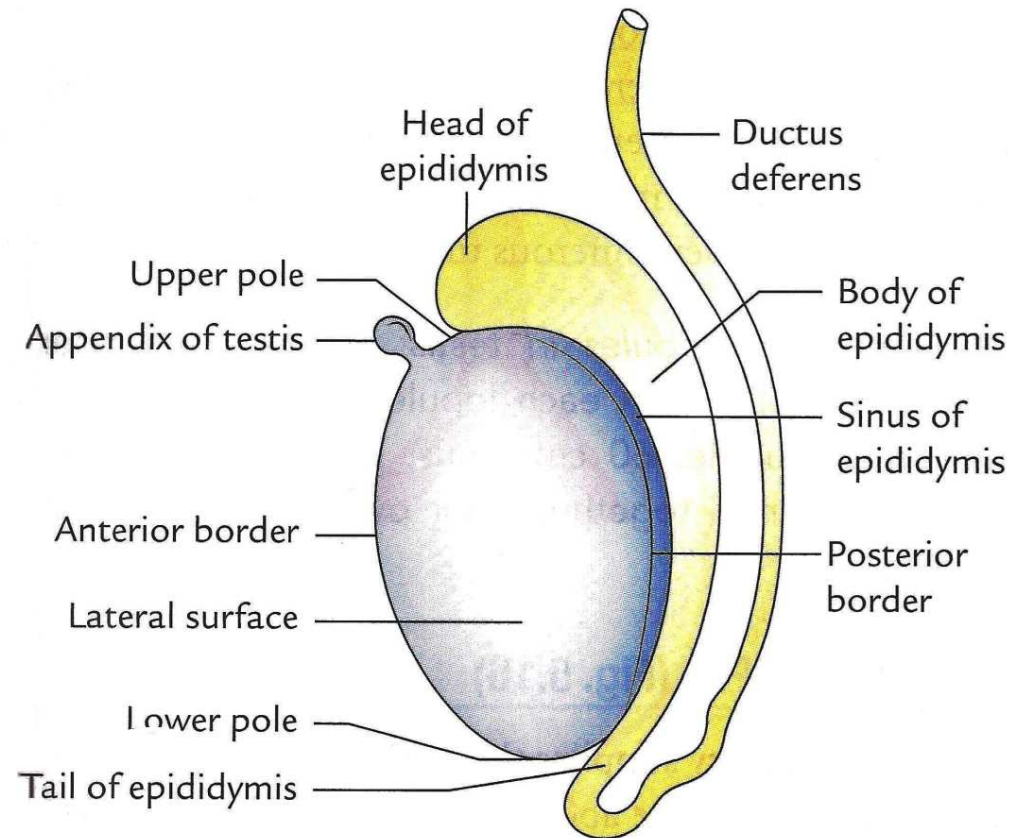


The Testes

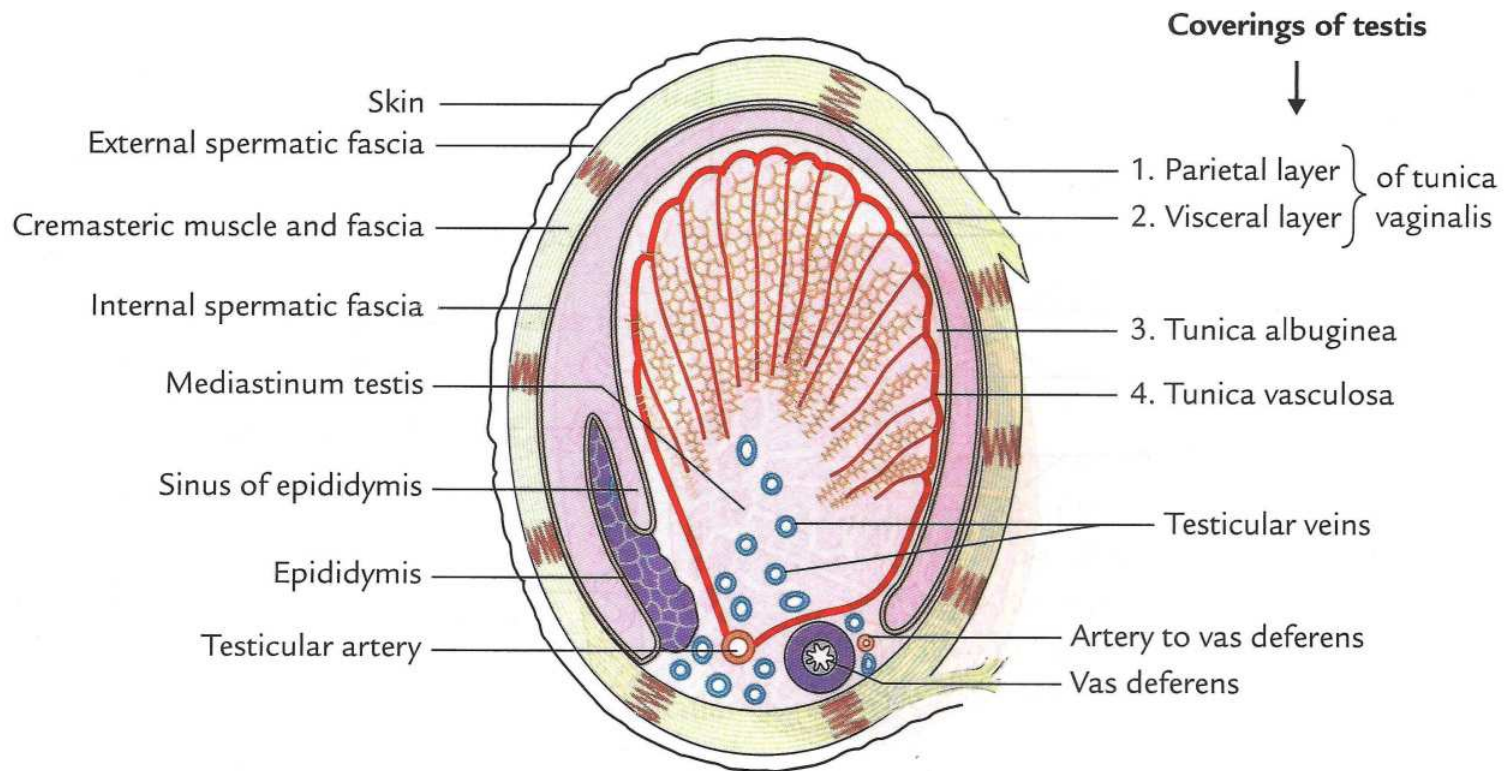
Location



External features

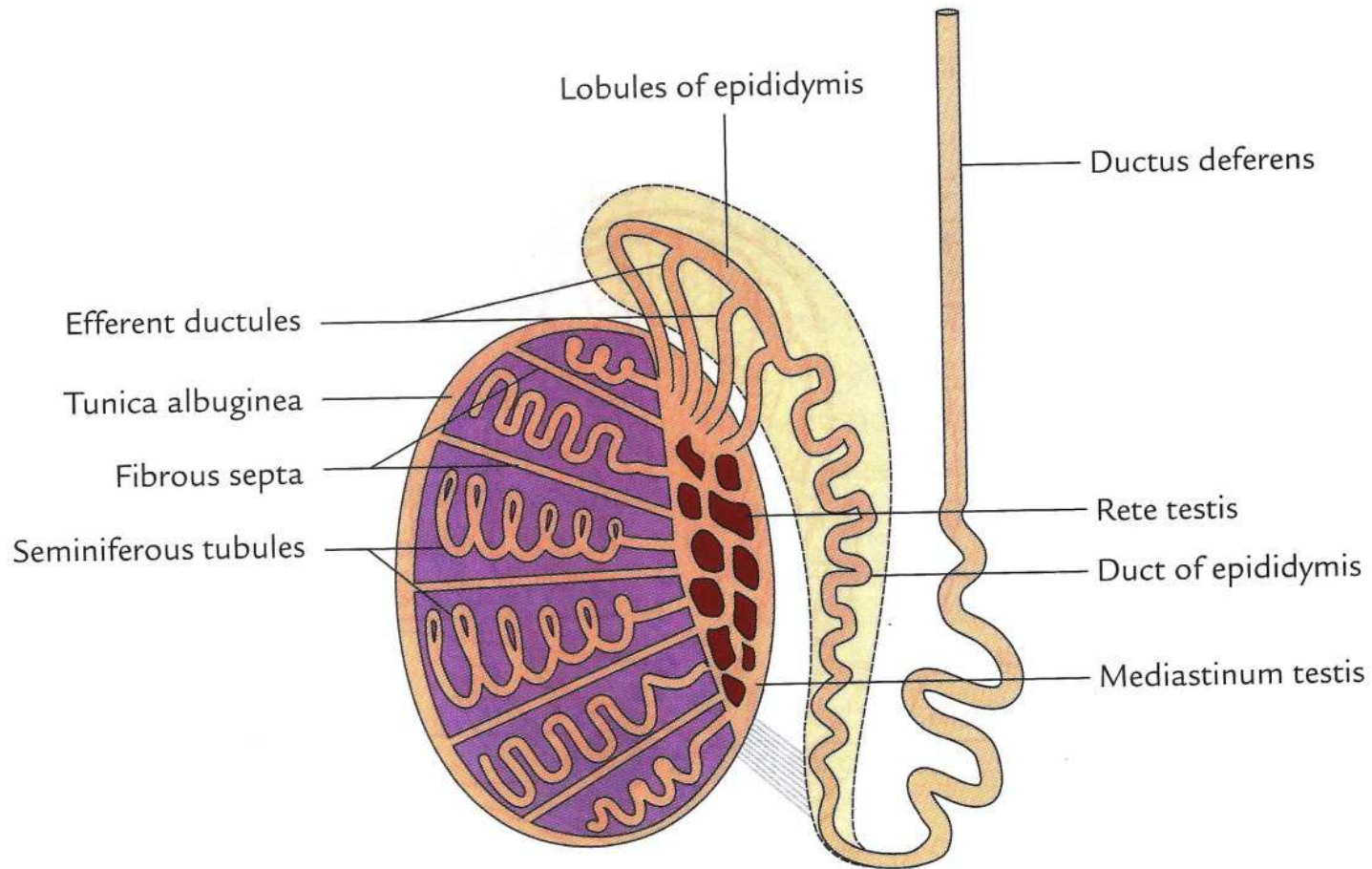


Internal structure

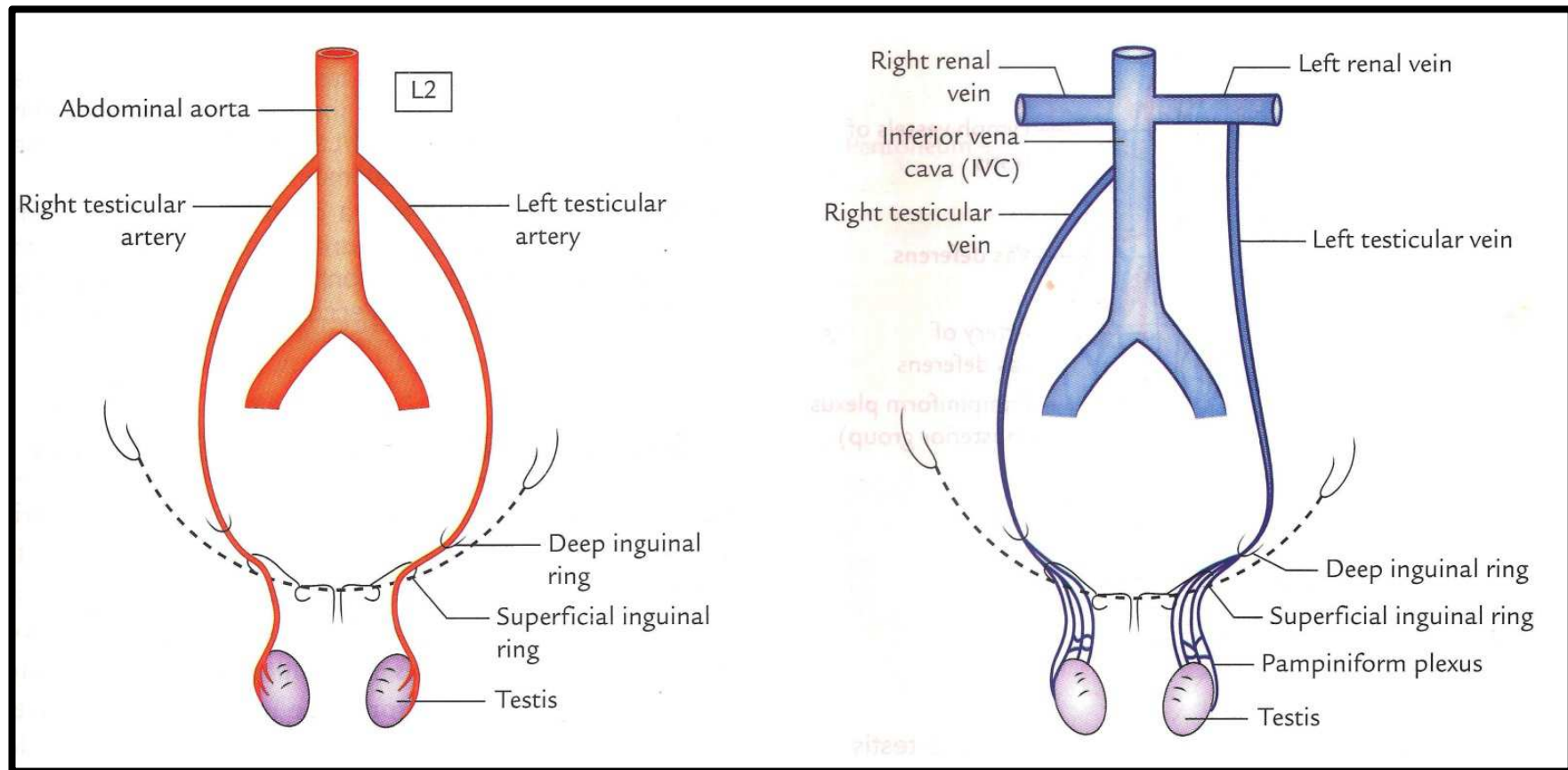


Transverse section of the left testis and its surrounding structures to show the coverings of the testis.

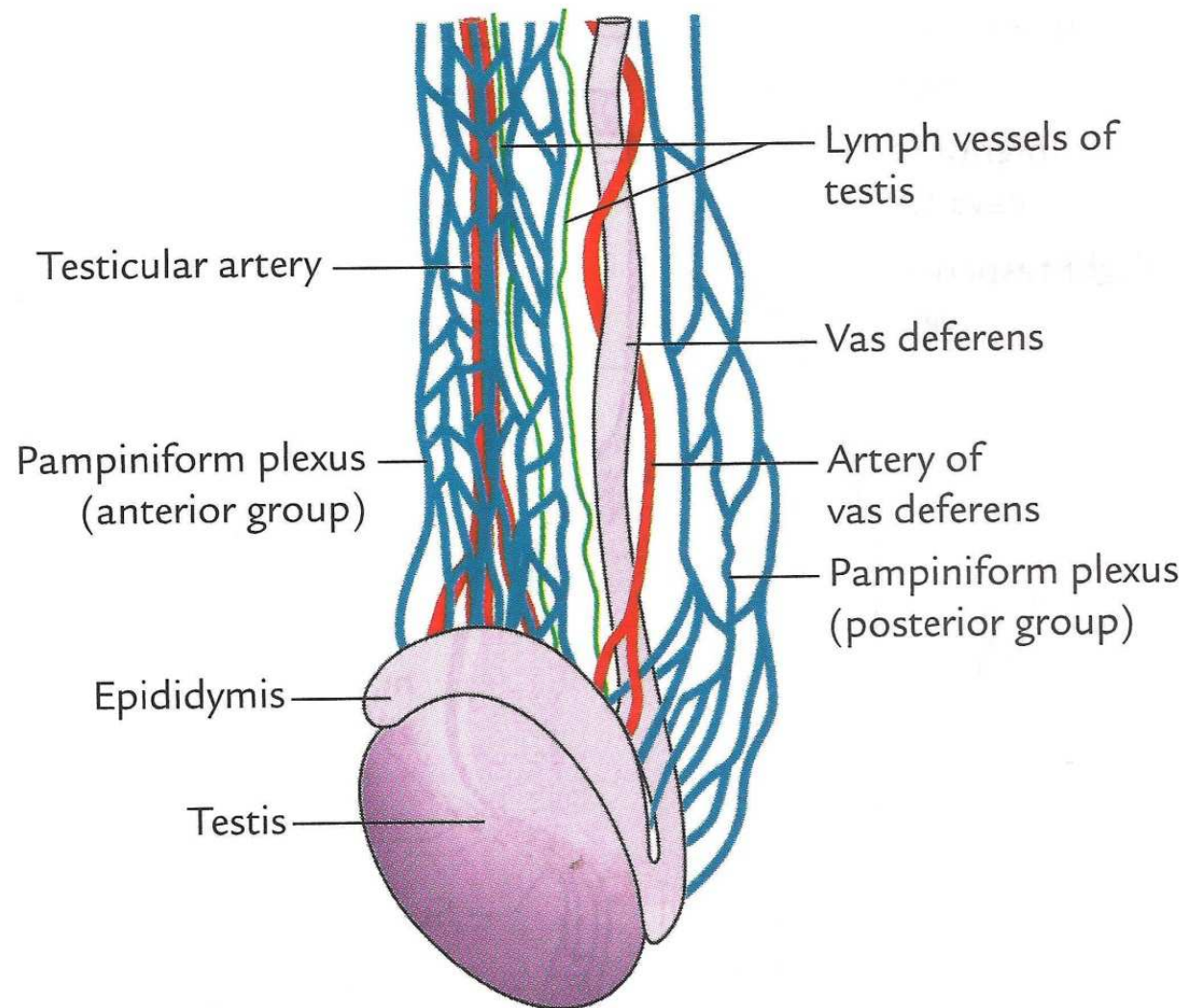
Epididymis and vas deferens



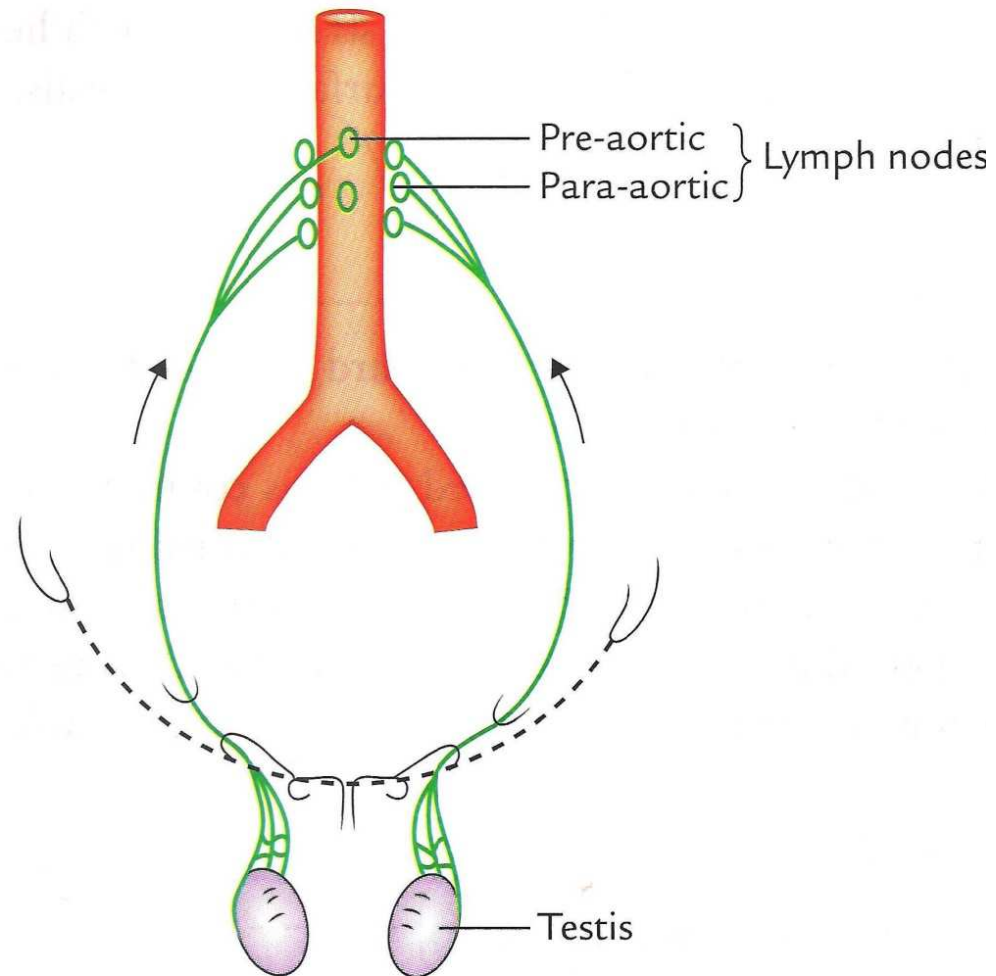
Blood Supply



Lymphatics



Lymphatic Drainage



THANK YOU