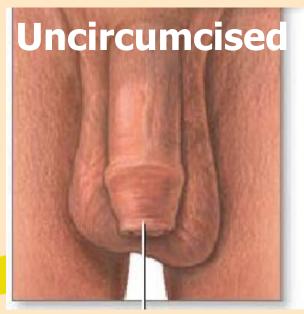
MALE REPRODUCTIVE SYSTEM

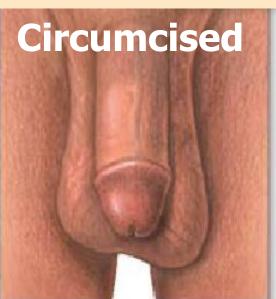
Dr. Priti Acharya

Male Reproductive System

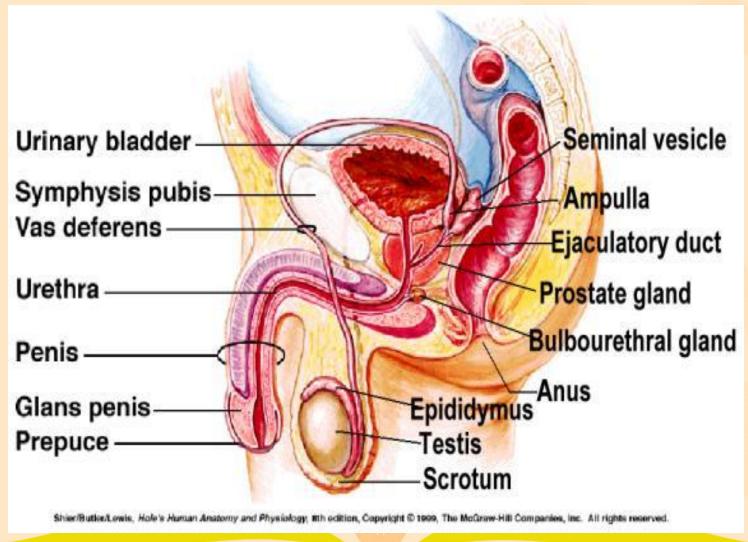
External Structures

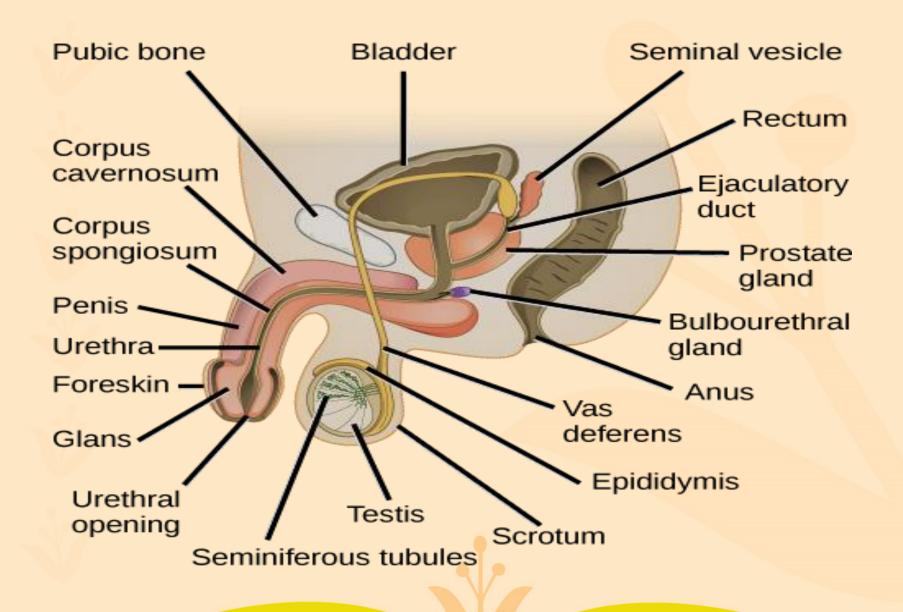
- Penis: external male sex organ
 - Circumcised: removes some or all of foreskin
 - Uncircumcised: foreskin not removed
- Scrotum: sac of skin and muscle containing testicles





Male Reproductive System





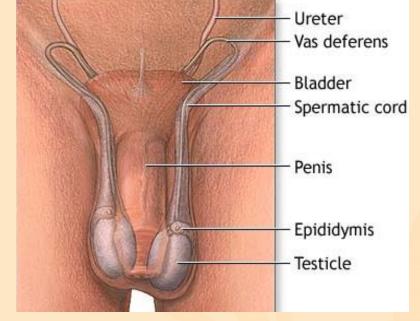
Male Reproductive System

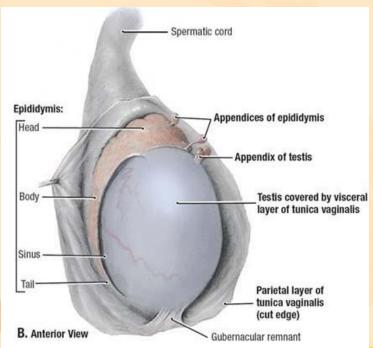
Internal Structures

- Prostate: exocrine gland of male reproductive system
- Vas Deferens: tubes connecting epididymis to ejaculatory ducts
- Epididymis: organ where sperm matures
- Testicles: organ where sperm is created
- Urethra: tube that connects bladder to outside of body
- Seminal Vesicle: make semen (seminal fluid)

TESTES

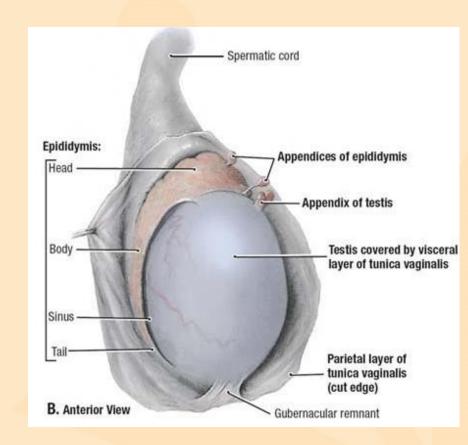
- Pair reproductive glands
- Ellipsoid
- Suspended-scrotum
- Left- 1cm below right
- ❖ Parts:
- ❖ Two ends- upper & lower
- ✓ Upper-
 - head of epididymis
 - Sessile fibrofatty body- appendix of testis





TESTES

- Two border- anterior & posterior
 - Anterior- smooth, convex
 - Posterior broad, flat, posterolateral- body of epididymis, posteromedialvas deferens
- Two surfaces- medial & lateral
 - Medial smooth, convex-Sinus cannot be seen
 - Lateral- convex, smooth, posterior- epididymis Sinus of epididymis



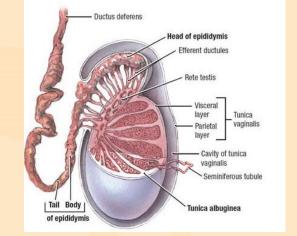
Covering of testis:

- ☐ Intrinsic covering- outside to inside
- Visceral layer of Tunica vaginalis
- Tunica albuginea
 - ✓ Thick white fibrous membrane covering the testis
 - ✓ Support structural frame work of testis
 - ✓ Covered by the Visceral layer of Tunica Vaginalis except posterior part
 - ✓ Posteriorly where the nerve and the vessels enter

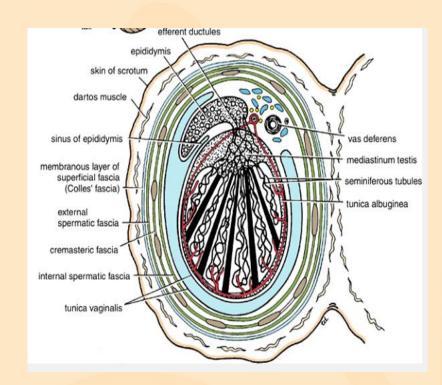
Tunica albuginea is thickened at the posterior border of testis form the incomplete vertical septum –mediastinum testis

Numerous septa spread from mediastinum testis

Tunica vasculosa- vascular layers

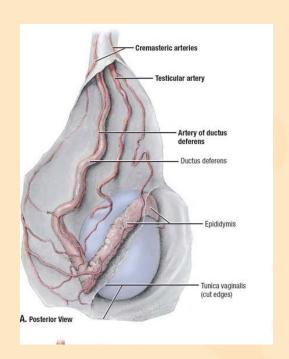


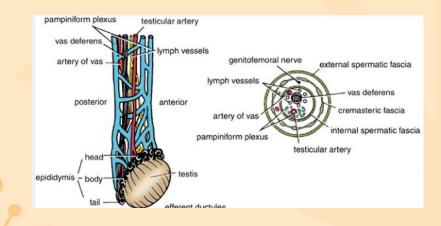
- ☐ Layers of scrotum
- Outside to inside
- Skin
- Dartos
- External spermatic fascia
- Cremasteric muscle and fascia
- Internal spermatic fascia
- Parietal layer of tunica vaginalis



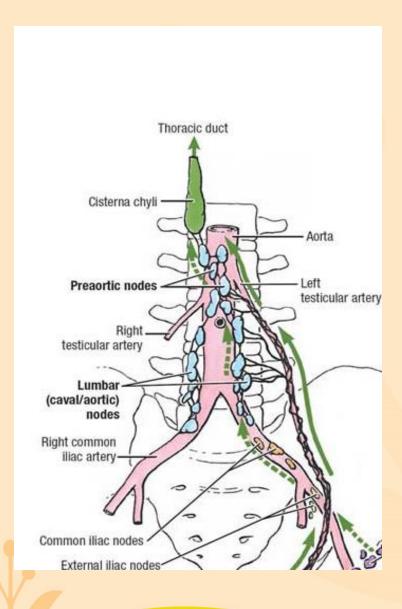
Arterial supply-

- ✓ Testicular arteryabdominal aorta
- ✓ Artery to vas deferens
- ✓ Cremasteric artery
 Venous drainage-
- √15-20 venous plexuspampiniform plexusfour veins— two veinsone right gonadal
 vein(IVC), left gonadal
 vein(left renal vein)



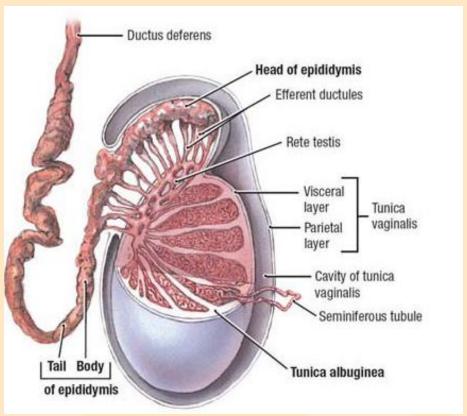


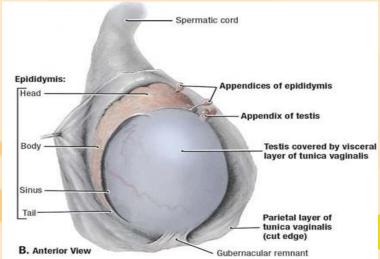
- Lymphatic drainage- pre and para aortic lymph nodes
- Nerve supplyrenal and aortic plexus- T10-T11



EPIDIDYMIS

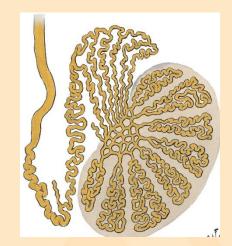
- Coma shaped body
- Lies- posterolateral part of posterior border of testis
- ❖ Parts- head, body , tail
 - ✓ Head- coiling of efferent ductules
 - ✓ Body & tail- single coiled duct- canal of epididymis
 - ✓ Tail- begins- vasa deferens

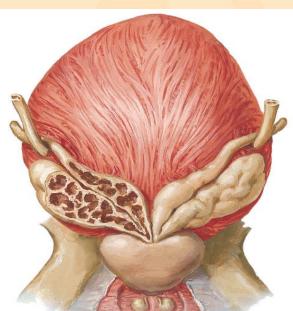




VASA DEFERENS

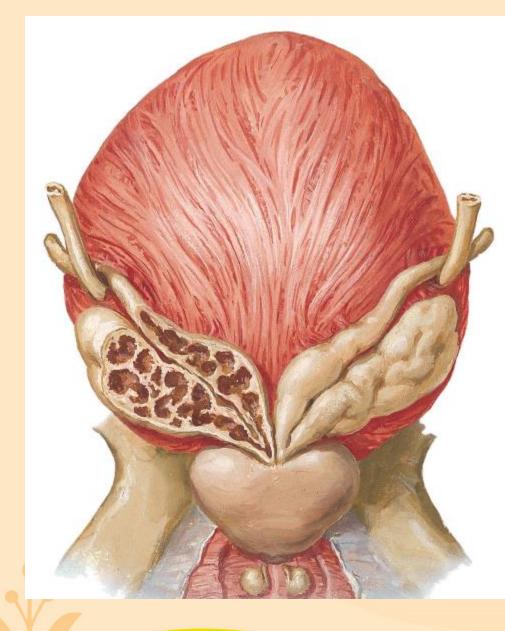
- * Thick, cord
- muscle layer- thick
- ❖ L-45cm
- ❖ Course:
 - Begin- tail of epididymis
 - Runs through inguinal canal
 - Deep inguinal ringleaves the spermatic cord
 - Join with duct of seminal vesicle-ejaculatory duct





SEMINAL VESICLE

- Pyramidal organs
- Base of urinary bladder
- Formed by coiling of a single duct
- * Relation:
 - ✓ Anterior base of bladder
 - ✓ Posterior- ampulla of rectum
 - ✓ Medial ampulla of vas deferens
 - ✓ Lateral- posterior true ligament of bladder
- Blood supply- inferior vesical & middle rectal arteries



Ejaculatory ducts-

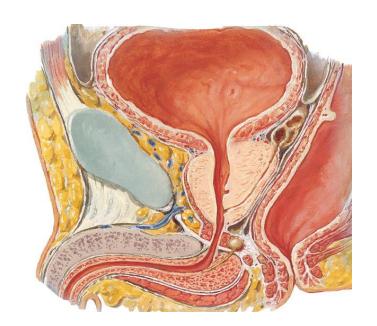
- ❖L-2cm
- Union of vasa deferens & duct of seminal vesicle

PROSTATE

- Conical fibro musculo glandular structure
- Surrounded by fibrous capsule
- Around proximal part of male urethra

Situation:

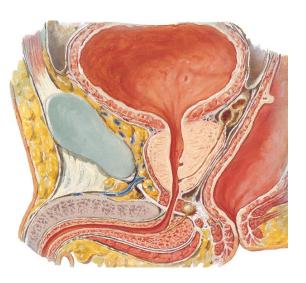
- ✓ Lesser pelvis
- ✓ Below the neck of bladder
- ✓ Above the urogenital diaphragm
- ✓ Behind the lower part of pubic symphysis
- ✓ Infront of rectal ampulla
- ✓ Enclose on each side by levator ani

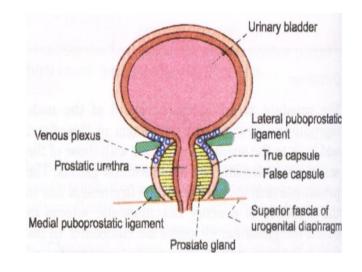


PROSTATE

Coverings:

- ✓ Inner true capsule- formed by peripheral part of gland, fibromucular in structure. It is continuous with stroma of gland
- ✓ Outer false capsule- lies outside the true capsule, derived from visceral layer of pelvic fascia
- ✓ Between true & false capsuleprostatic venous plexus





Parts

- Base
- Apex
- 4 Surface

Anterior

Posterior

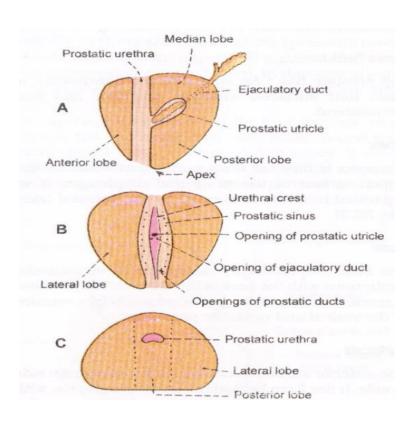
2 lateral

Prostate looks like an inverted cone having its base above and apex below



Lobe of Prostae

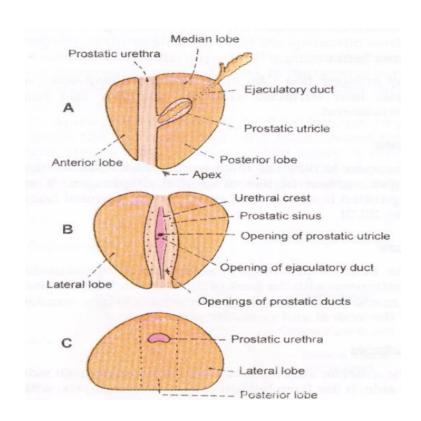
- Anterior lobe
- Middle lobe
- Lateral lobe(2)
- Posterior lobe



- Anterior lobe the portion of gland that lies infront of the urethra
- Middle lobe-situated between the ejaculatory duct and urethra
- Lateral lobe- they are divided into left and right lobe and separated into prostate urethra
- Posterior lobe- the middle part of lateral lobe that can be palpated through the rectum during DRE

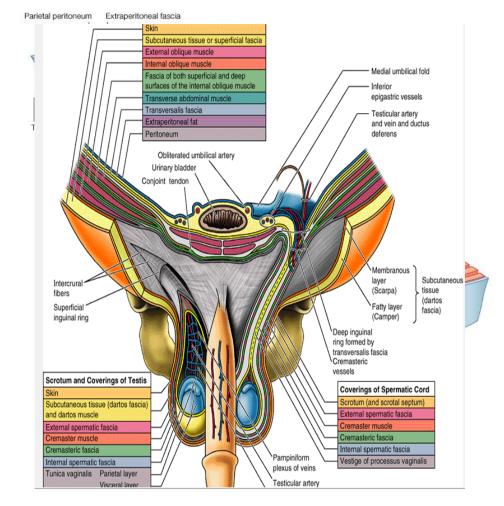
Structures through prostate

- ✓ Prostatic urethra
- ✓ Ejaculatory duct
- ✓ Prostatic utricle



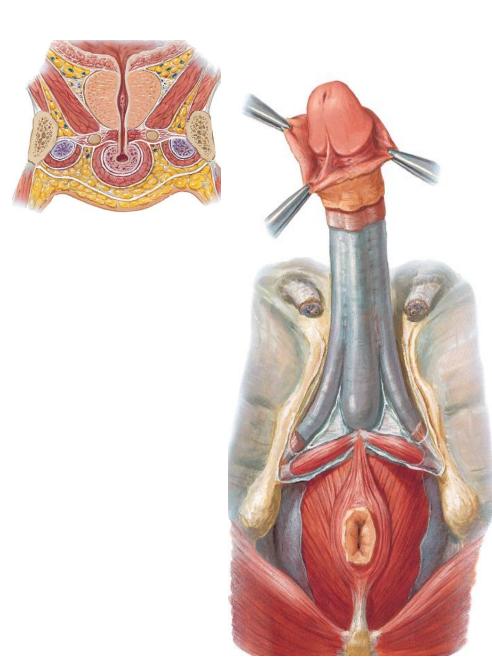
SCROTUM

- Integumental pouch of lower part of anterior abdominal wall
- Contain testis & lower part of spermatic cord
- Maintain temperature 3-4 degree less than body temperature for proper spermatogenesis in testis
- ❖ Nerve supply- anterior 1/3rd – L1 segment posterior 2/3rd – S3 & 4 segment



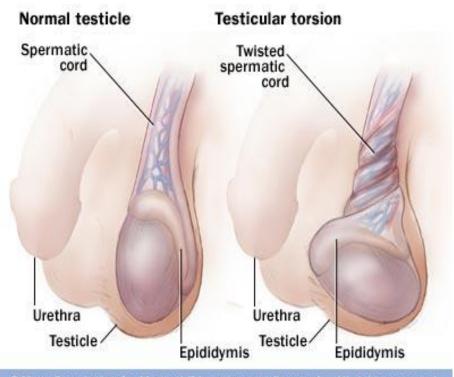
PENIS

- Organ of copulation
- **❖** Parts:
- the base
- shaft
- glans
- foreskin.



Testicular Torsion

Testicular torsion is the twisting of the spermatic cord, which cuts off the blood supply to the testicle and surrounding structures within the scrotum.



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Testicular Torsion

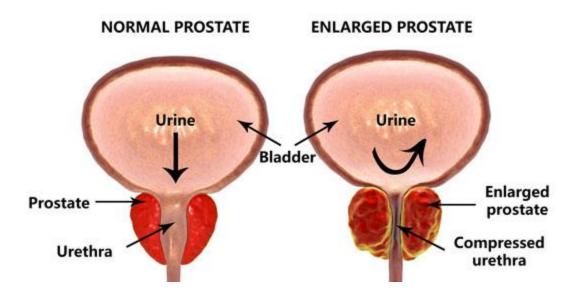


Benign Enlargement of Prostate/BPH

Enlargement of Prostate gland

- Symptoms
- difficulty getting started (hesitancy)
- incomplete bladder emptying
- urinary frequency
- waking up at night to urinate and
- occasionally urinary dribbling or incontinence.

BENIGN PROSTATIC HYPERPLASIA



Impotence



- Impotence is a common problem among men
- characterized by the consistent inability to sustain an erection or the inability to achieve ejaculation, or both.

Cause of Impotence



THANK YOU

