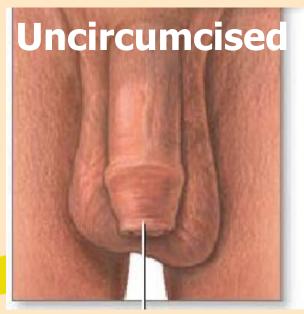
MALE REPRODUCTIVE SYSTEM

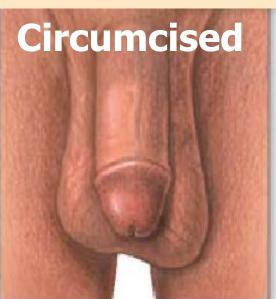
Dr. Priti Acharya

Male Reproductive System

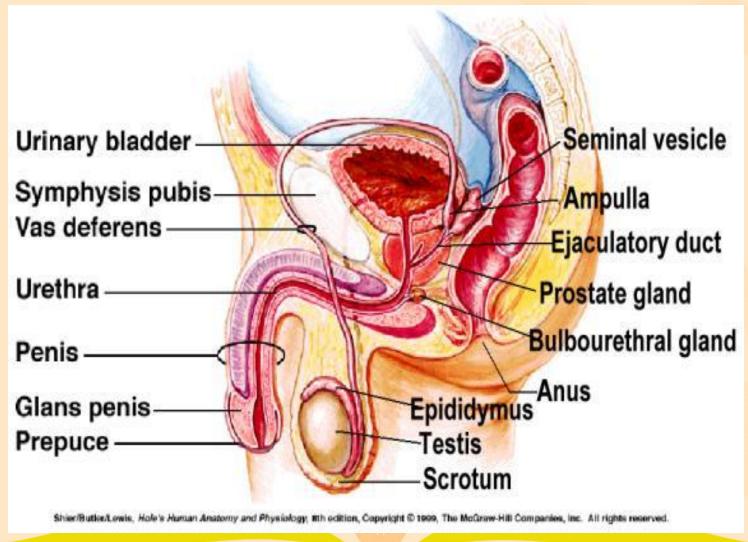
External Structures

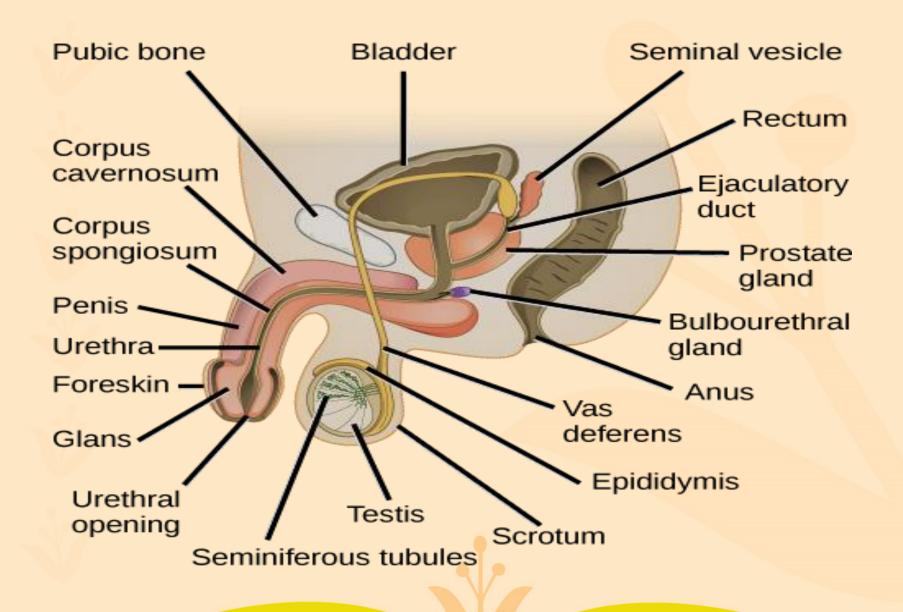
- Penis: external male sex organ
 - Circumcised: removes some or all of foreskin
 - Uncircumcised: foreskin not removed
- Scrotum: sac of skin and muscle containing testicles





Male Reproductive System





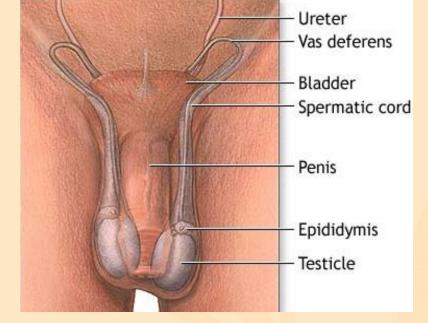
Male Reproductive System

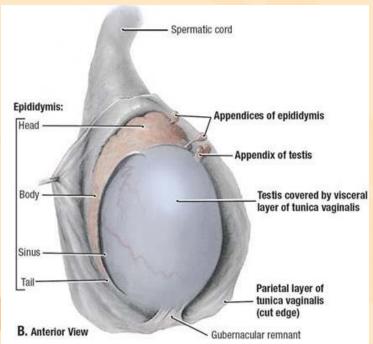
Internal Structures

- 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

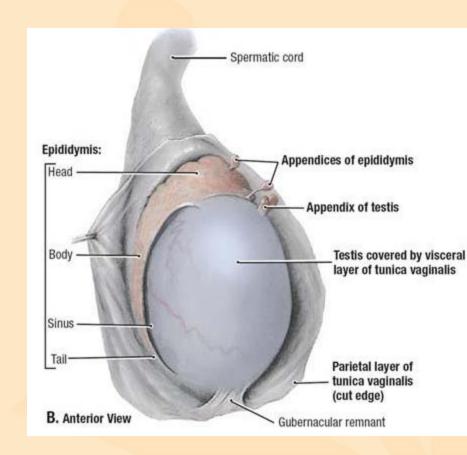
- Pair reproductive glands
- Ellipsoid
- Suspended-scrotum
- Left- 1cm below right
- ❖ Parts:
- ❖ Two ends- upper & lower
- ✓ Upper-
 - head of epididymis
 - Sessile fibrofatty body- appendix of testis





TESTES

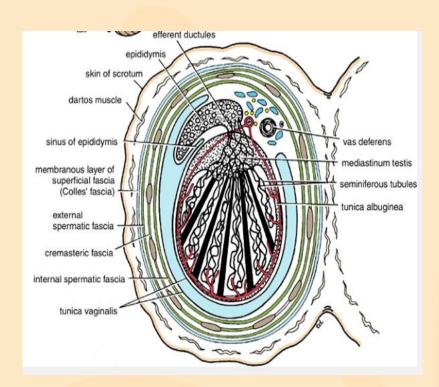
- Two border- anterior & posterior
 - Anterior- smooth, convex
 - Posterior broad, flat, posterolateral- body of epididymis, posteromedialvas deferens
- Two surfaces- medial & lateral
 - Medial smooth, convex-Sinus cannot be seen
 - Lateral- convex, smooth, posterior- epididymis Sinus of epididymis



Covering of testis:

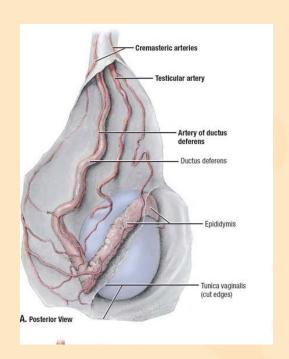
- ☐ Intrinsic covering- outside to inside
- Visceral layer of Tunica vaginalis
- Tunica albuginea
 - √ Thick white fibrous membrane covering the testis
 - ✓ Covered by the Visceral layer of Tunica Vaginalis except posterior part
- ✓ Posteriorly where the nerve and the vessels enter Posterior layer of tunica albuginea is thickened form the incomplete vertical septum –mediastinum testis Numerous septa spread from mediastinum testis
- Tunica vasculosa- loose areolar, vascular

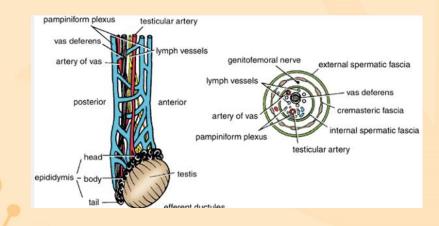
- ☐ Layers of scrotum
- Outside to inside
- Skin
- Dartos
- External spermatic fascia
- Cremasteric muscle and fascia
- Internal spermatic fascia
- Parietal layer of tunica vaginalis



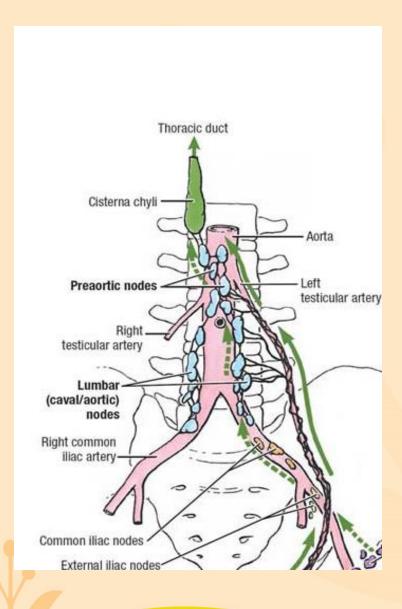
Arterial supply-

- ✓ 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)



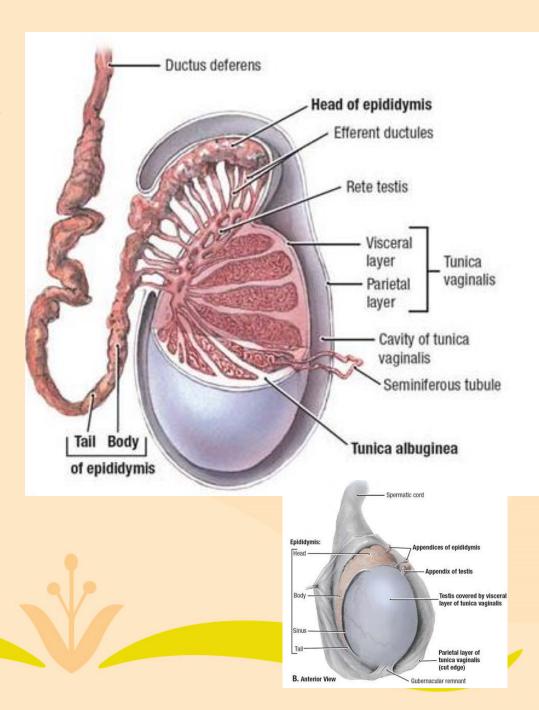


- Lymphatic drainage- pre and para aortic lymph nodes
- Nerve supplyrenal and aortic plexus- T10-T11



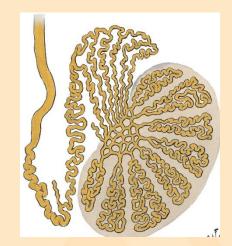
EPIDIDYMIS

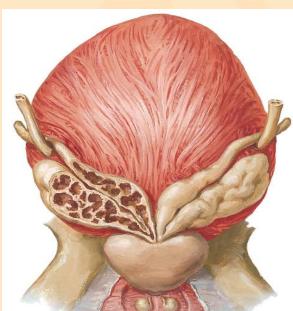
- Coma shaped body
- Lies- posterolateral part of posterior border of testis
- Parts- head, body , tail
 - ✓ Head- coiling of efferent ductules
 - ✓ Body & tail- single coiled duct- canal of epididymis
 - ✓ Tail- begins- vasa deferens



VASA DEFERENS

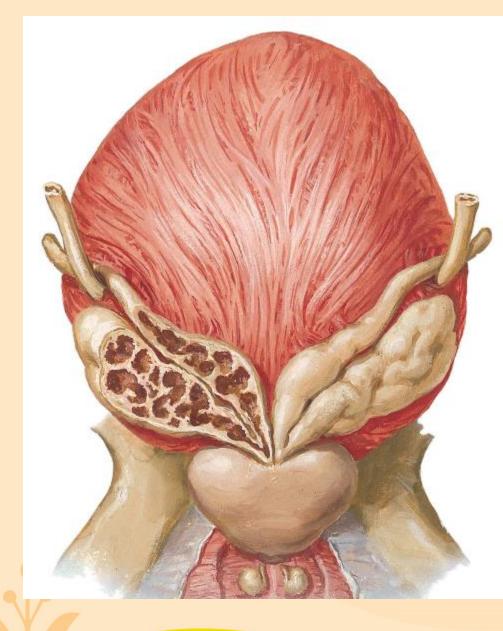
- * Thick, cord
- muscle layer- thick
- ❖ L-45cm
- ❖ Course:
 - Begin- tail of epididymis
 - Runs through inguinal canal
 - Deep inguinal ringleaves the spermatic cord
 - Join with duct of seminal vesicle-ejaculatory duct





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-

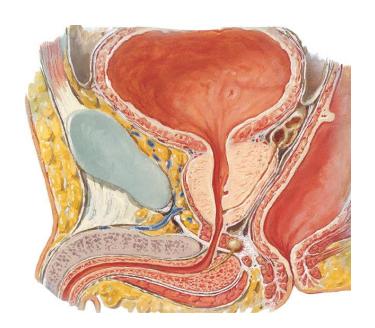
- ❖L-2cm
- Union of vasa deferens & duct of seminal vesicle

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

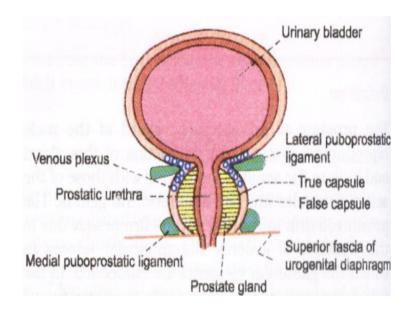


PROSTATE

*****Coverings:

- ✓ Inner true capsulefibrous stroma of gland
- ✓ Outer false capsulevisceral layer of pelvic fascia
- ✓ Between true & false capsule-prostatic venous plexus





Parts

- Base
- Apex
- 4 Surface

Anterior

Posterior

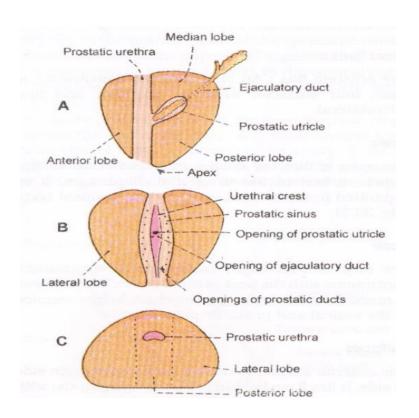
2 lateral

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



Lobe of Prostae

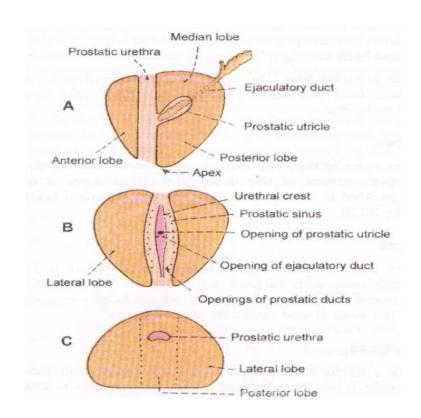
- Anterior lobe
- Middle lobe
- Lateral lobe(2)
- Posterior lobe



- 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

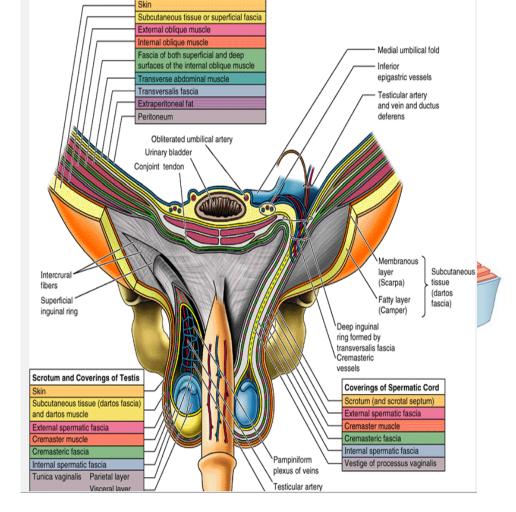
Structures through prostate

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



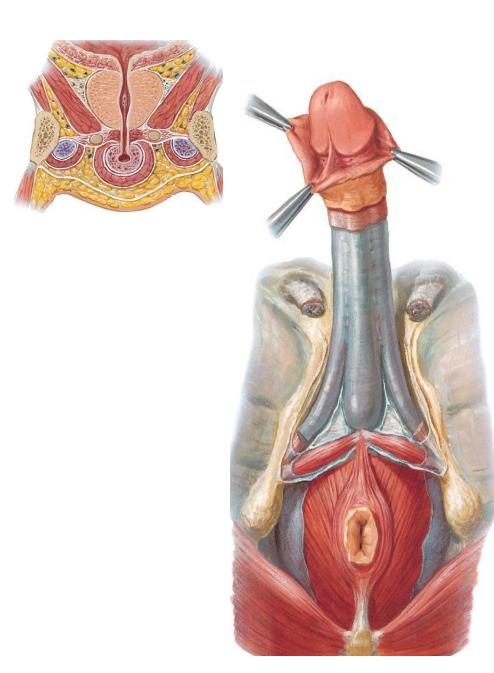
SCROTUM

- 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



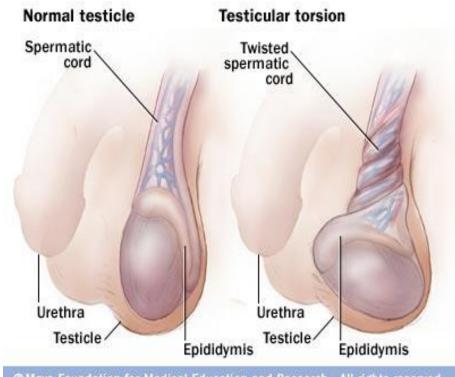
PENIS

- 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

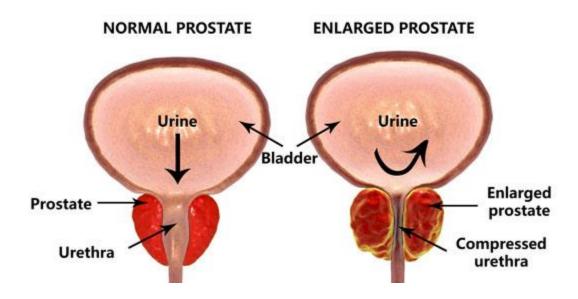


Benign Enlargement of Prostate/BPH

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

