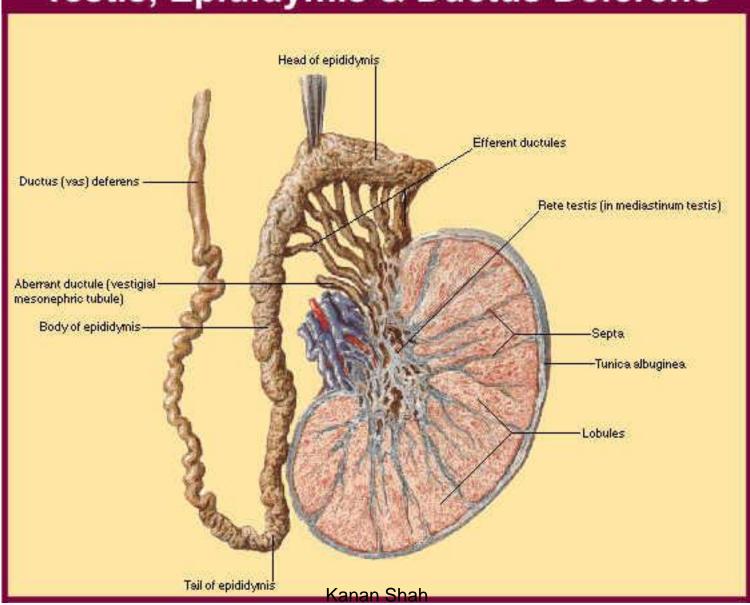
MALE REPRODUCTIVE SYSTEM

TESTIS, EPIDIDYMIS, VAS DEFERENCE, PROSTATE, SEMINAL VESICLE, PENIS.

Testis, Epididymis & Ductus Deferens

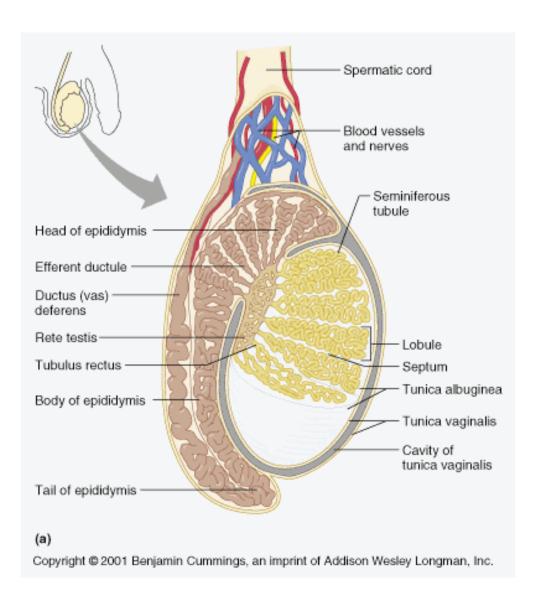


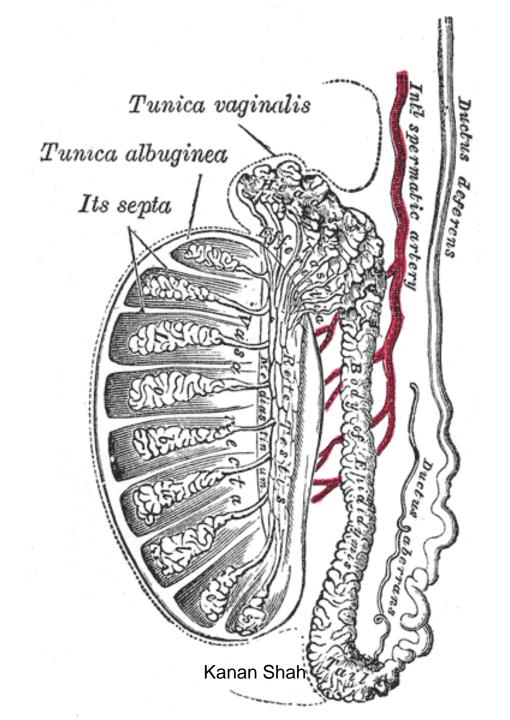
TESTIS

 LOBULE OF TESTIS : SEMINIFEROUS TUBLES and INTERSTITIAL CELLS.

SEMINIFEROUS TUBULES:

BASEMENT MEMBRANE
SPERMATOGENIC CELLS
SUPPORTING CELLS OF SERTOLI





- CELLS OF SERTOLI: ELONGATED POLYHEDRAL CELLS, EXTENDS FROM BASEMENT MEMBRANE TO LUMEN OF SEMINIFEROUS TUBULES.
- Does not divide during the reproductive life.
- Their lateral walls are united by tight junctions forming a continuous barrier that prevents the passage of macromolecules from the interstitial space to the interior of the tubule.

FUNCTIONS:

- -Provide nutrition to immature spermatozoa
- Maintain cohesion between generations of spermatogenic cells
- -Phagocytose the residual bodies
- -Secrete oestrogenic hormone.

INTERSTITIAL CELLS OF LEYDIG :

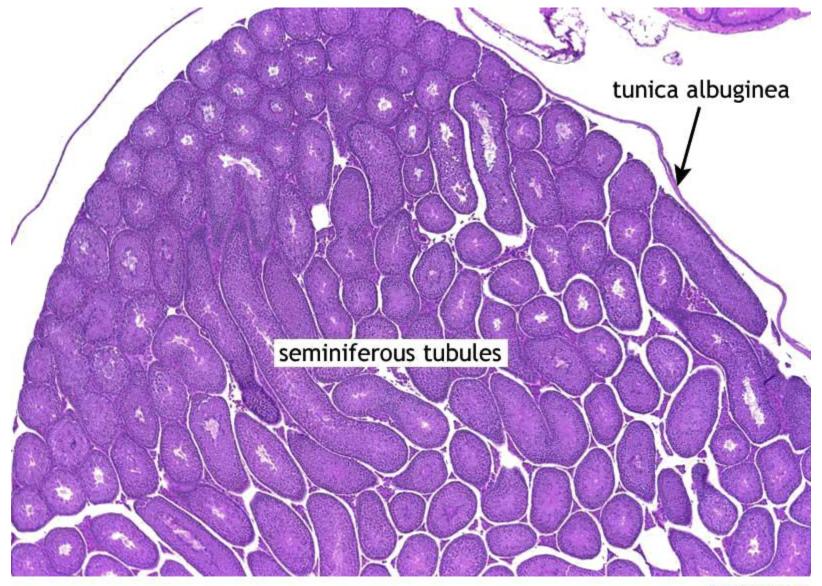
polyhedral cells within lobules of testis and external to seminiferous tubules. Yellowish pigments in the cytoplasm.

Abundant in fetal testis, disappear after birth, reappearance at puberty and persist throughout the reproductive life.

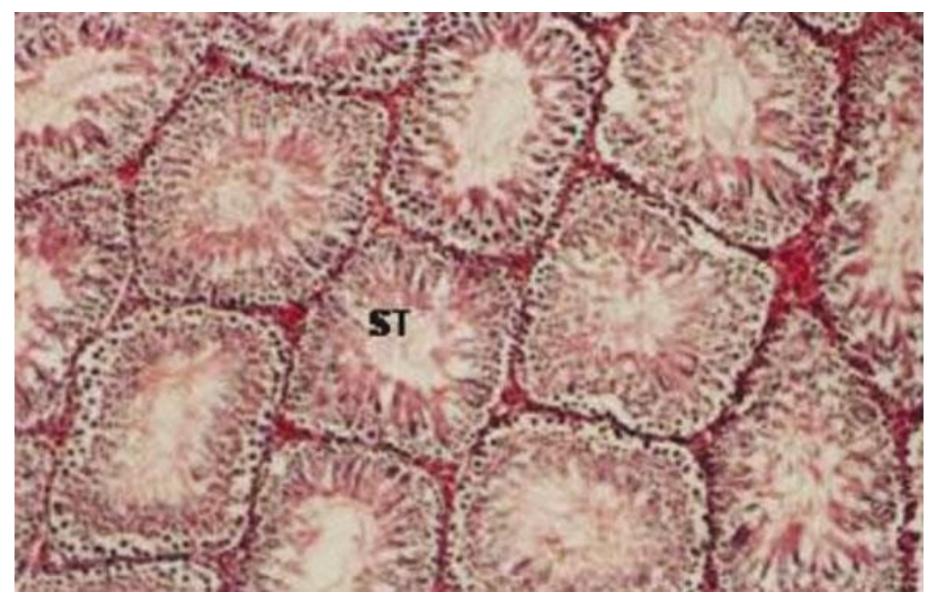
secrete testosterone and probably oestrogen.

FUNCTIONS:

- Provide machineries for the descent of testis.
- -After puberty they stimulate the growth of secondary sex characters.
- -Initiate heterosexual drive.
- -Increase height of epithelial cells of prostate and seminal vesicle.



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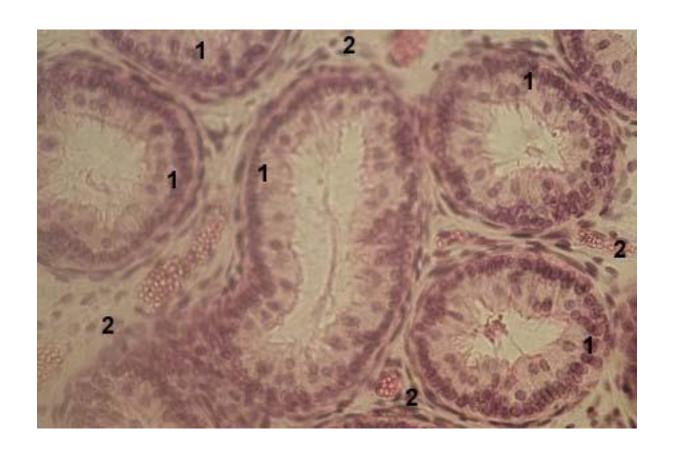


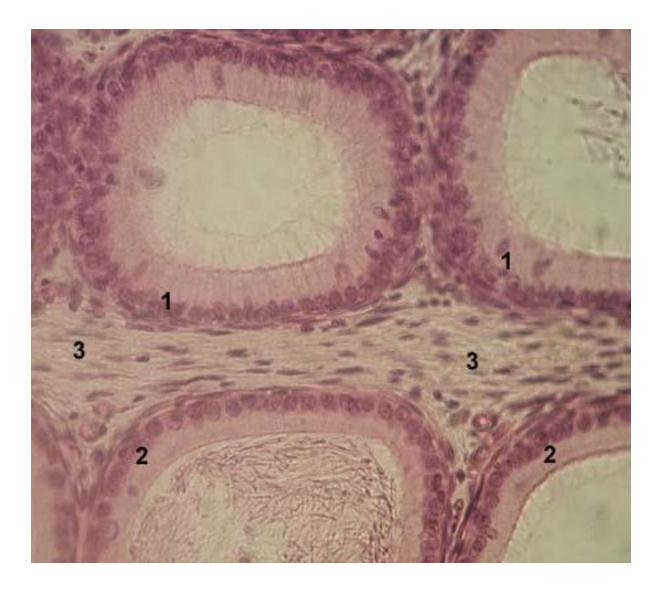




EPIDIDYMIS

- EFFERENT DUCTULE IS LINED BY CILLIATED COLUMNAR EPITHELIUM REST ON BASEMENT MEMBRANE AND IS SURROUNDED BY A THIN LAYER OF MUSCLE FIBERS CIRCULARLY ARRANGED.
- IN DUCT MUSCLE COAT IS THICK AND EPITHELIUM IS COLUMNAR AND PSEUDOSTRATIFIED WITH LONG STEREOCILIA.





VAS DEFERENCE

THREE COATS: OUTER AREOLAR

MIDDLE MUSCULAR

INNER MUCOUS

MIDDLE MUSCLE COAT IS THICK, OUTER LONGITUDINAL INNER CIRCULAR LAYERS OF MUSCLES.

LINNING EPITHELIUM IS SIMPLE COLUMNAR, BUT PSEUDOSTRATIFIED COLUMNAR IN DISTAL PART. CELLS ARE CILLIATED IN EXTRAABDOMINAL PART OF DUCT.

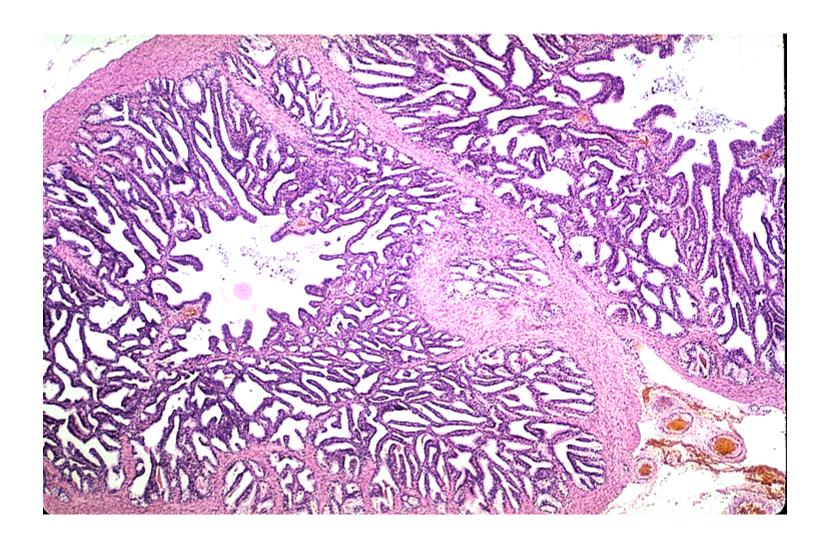


THE SEMINAL VESICLES

THREE COATS: AREOLAR, MUSCULAR, MUCOUS.

MUCOUS MEMBRANE THROWN IN TO NUMEROUS FOLDS AND IS LINE BY SIMPLE COLUMNAR EPITHELIUM, OCCATIONAL GOBLET CELLS IN DIVERTICULA.

Seminal vesicle



PROSTATE

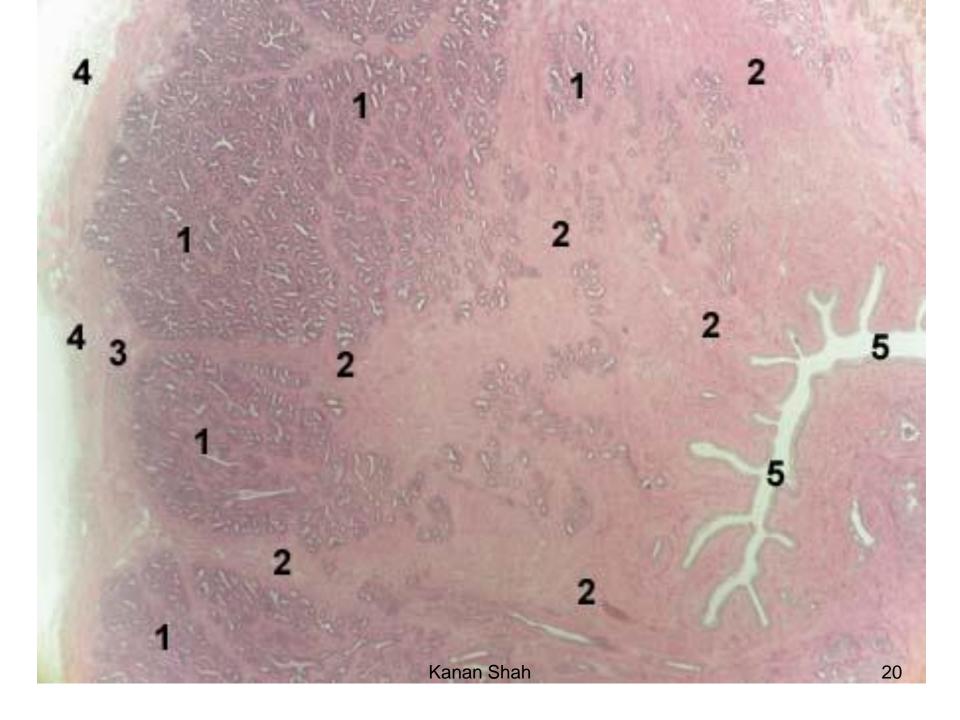
- FIBROMUSCULAR GLAND
- COMPOUND TUBULOALVEOLAR GLAND EMBEDDED IN FRAMEWORK OF FIBROMUSCULAR TISSUE.
- FIBROUS TISSUE CAPSULE , POSTROMEDIAN SEPTUM
- MUSCLE SMOOTH MUSCLE CONTINUOUS WITH DETRUSOR MUSCLE OF THE BLADDER. ARRANGED IN OUTER SHEET AND INNER SHEET CONNECTED BY RADIATING MUSCLE FIBERS.
- GLANDS THREE CONCENTRIC LAYERS

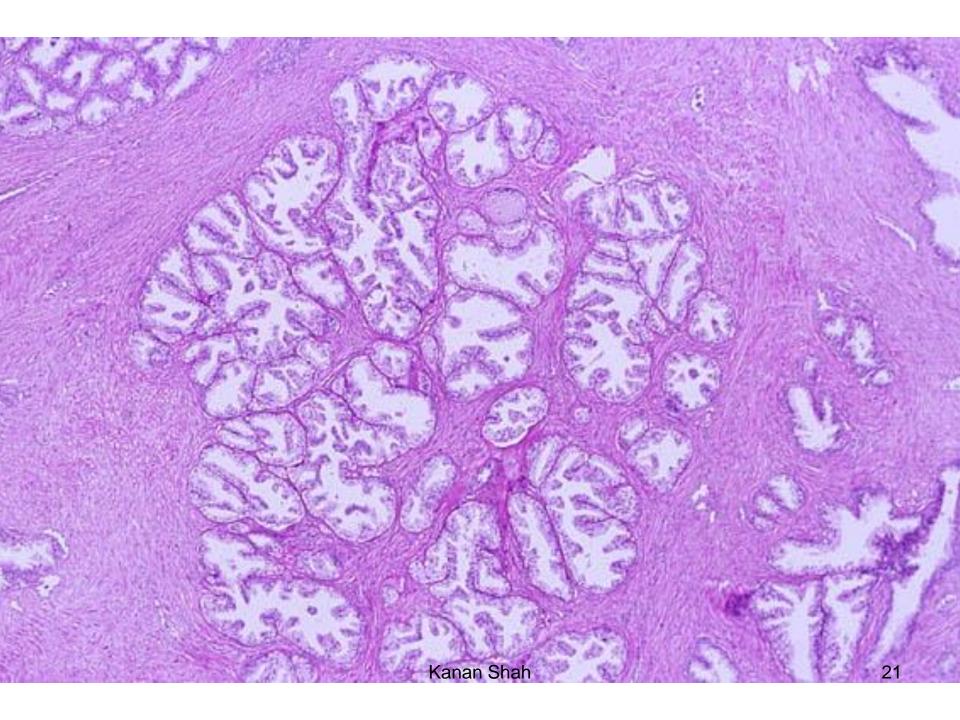
INNER MUCOUS

INTERMEDIATE SUBMUCOUS

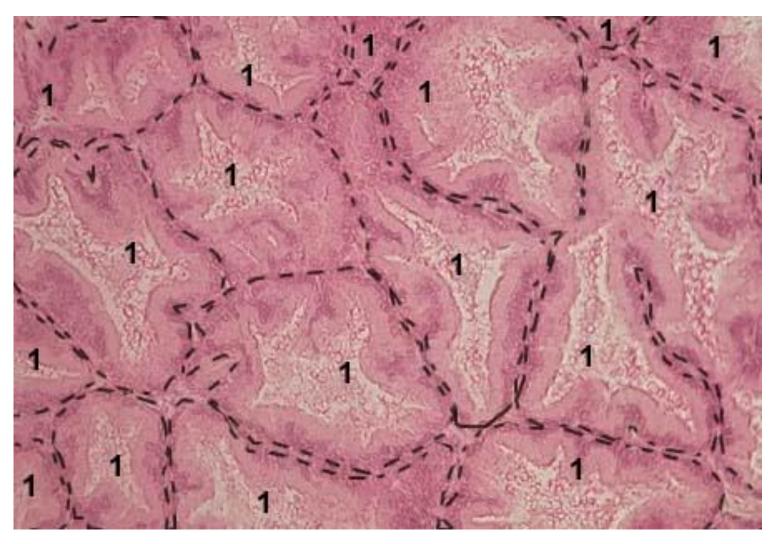
OUTER MAIN GLANDS

INNER CAPSULE INTERVENES BETWEEN MAIN GLANDS AND SUBMUCOUS GLANDS.



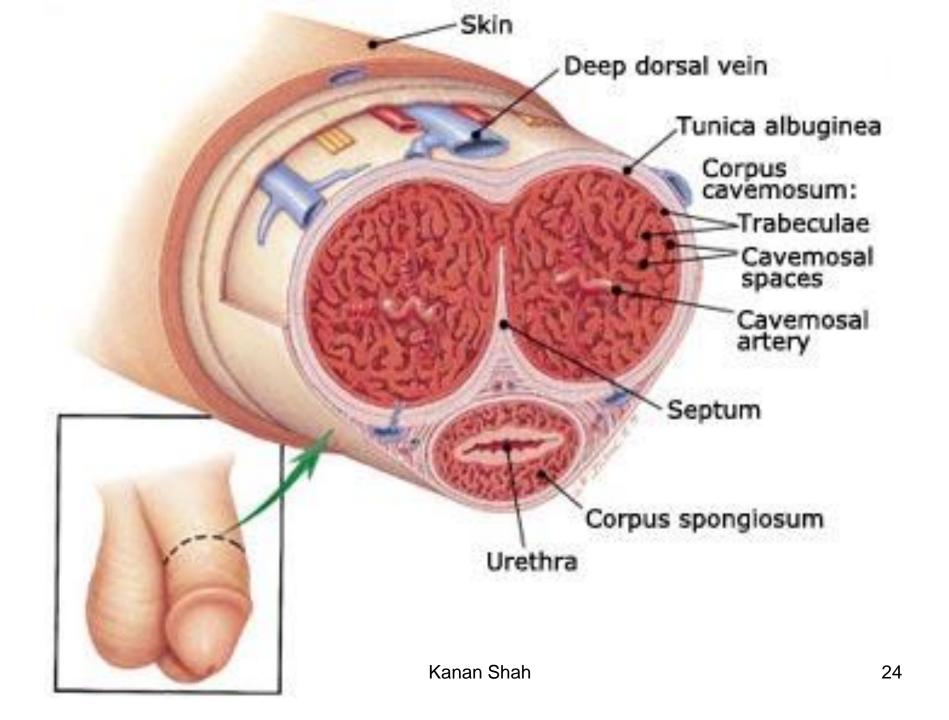


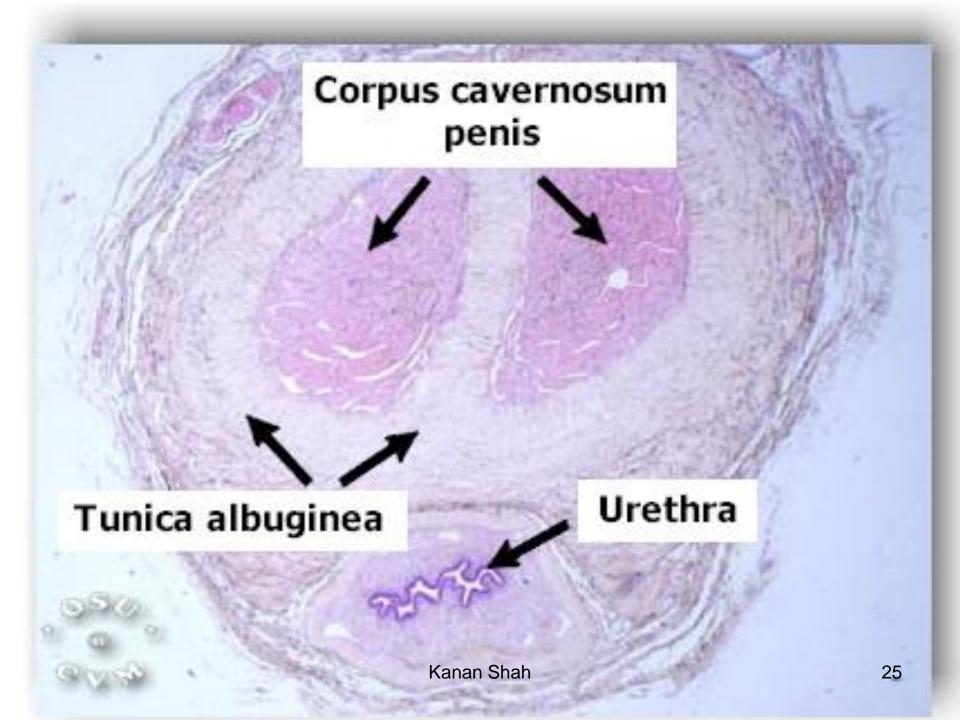
Prostate



PENIS

- THREE ERECTILE TISSUE
- TWO CORPORA CAVERNOSA SEPARATED BY MEDIAN FIBROUS SEPTUM. CORPUS SPONGIOSUM TRVERSED BY THE PENILE URETHRA.
- EACH CORPUS CAVERNOSUM IS SURROUNDED BY A DENSE SHEATH CONTAINING COLLAGEN FIBERS, ELASTIC FIBERS AND SMOOTH MSCLE FIBERS.
- SEPTA FORM NETWORK SPACES LINE BY ENDOTHELIUM -BLOOD







Aknowledgement

- Inderbir Singh's Textbook of Human Histology
- Textbook of Histology- Atlas and Practical Guide by JP Gunasegaran
- Difiore's Atlas of Histology
- Images from Google
- Histology Text & Atlas -Brijeshkumar