



جامعة الأزهر - غزة
AL-AZHAR UNIVERSITY-GAZA



Male reproductive system

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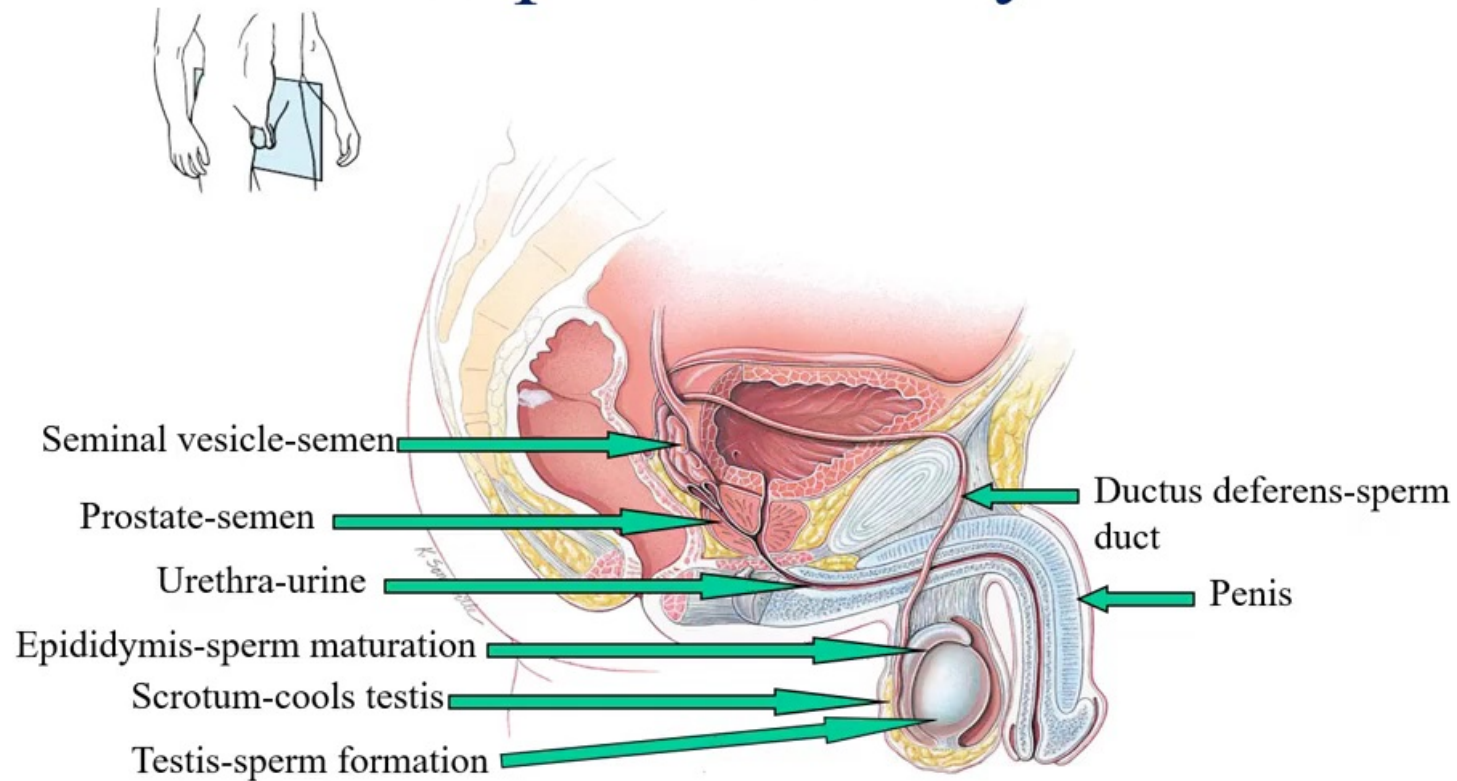




Introduction

- Sexual reproduction produces new individuals
 - ✓ Gametes (sperm & egg) formed by testes and ovaries
 - ✓ Fertilization produces one cell (a zygote) with one set of chromosomes from each parent
 - ✓ Creates genetic variation
- Gonads produce gametes & secrete sex hormones
- Reproductive systems
 - ✓ Gonads, ducts, glands & supporting structures
 - ✓ Gynecology is study of female reproductive system
 - ✓ Urology is study of urinary & male reproductive system

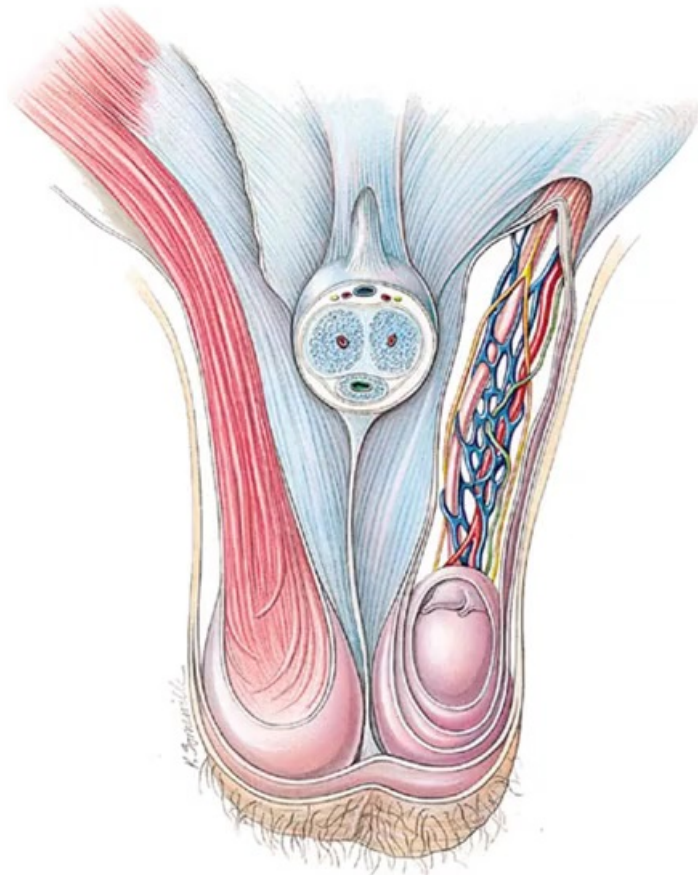
Male Reproductive System



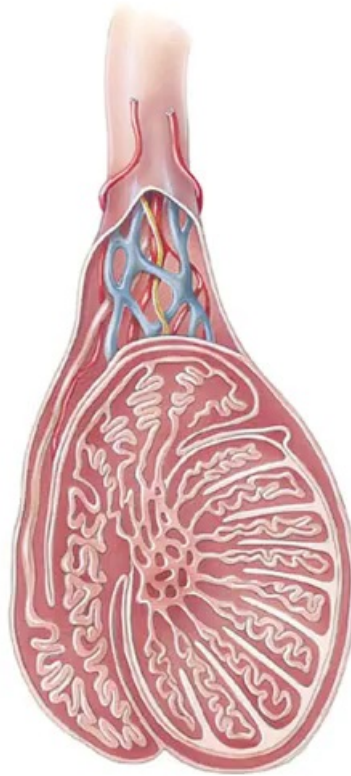
- Gonads, ducts, sex glands & supporting structures

Scrotum

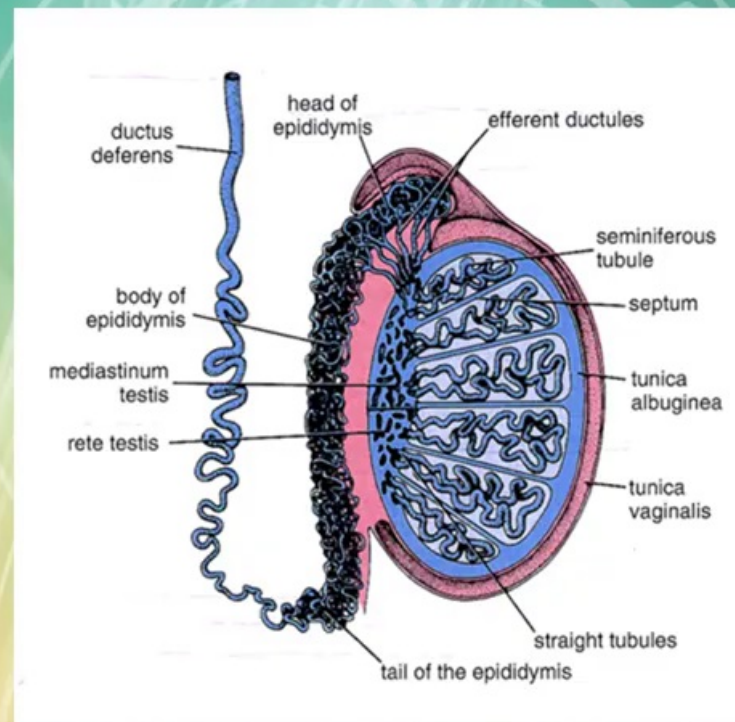
- Sac of loose skin, fascia & smooth muscle divided into two pouches by a septum
- Temperature regulation of testes
 - Sperm survival requires 2-3 degrees lower temperature than core body temperature
 - Muscle in scrotum
 - Elevates testes on exposure to cold & during arousal
 - Warmth reverses the process



Testes



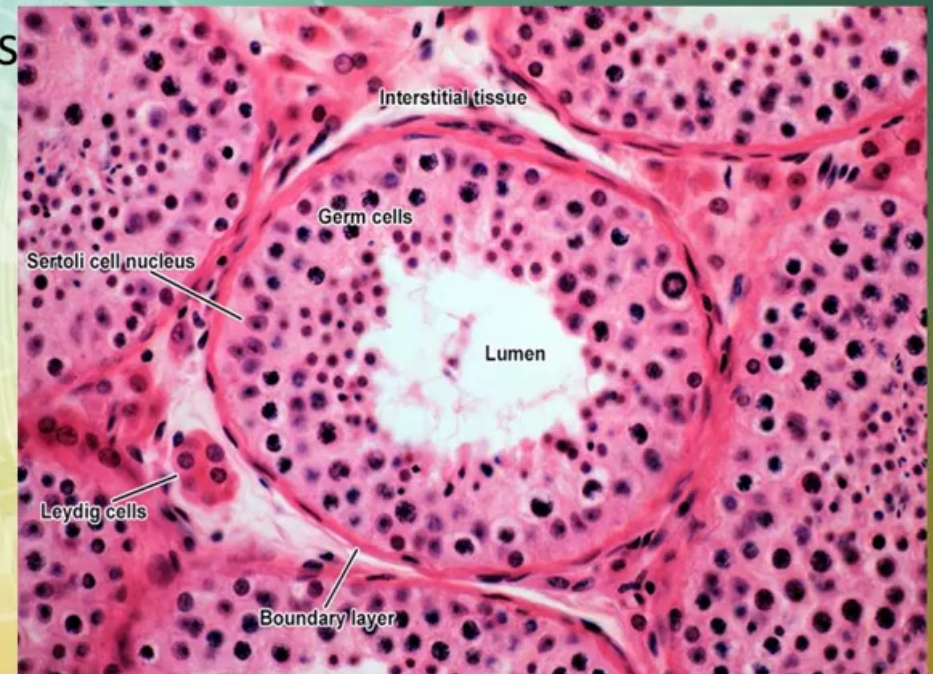
- Paired oval glands measuring 2 in. By 1 in.
- Surrounded by dense white capsule
 - Septa form 200 - 300 compartments called lobules
- Each is filled with 2 or 3 seminiferous tubules where sperm are formed





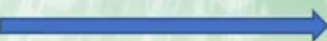
Primary sex organ

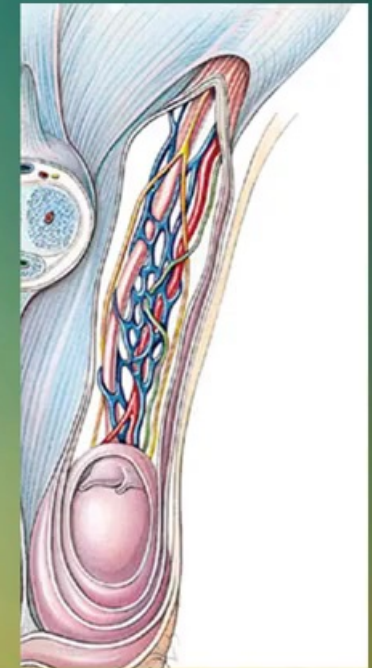
- Testis
- Seminiferous tubules: Spermatogenesis
 - ✓ Germ cells (spermatogonia)
 - ✓ Sertoli cells
- Interstitial cells of Leydig: Hormones
 - ✓ Mainly Testosterone
 - ✓ Contains lipid granules





Secondary sex organs

- A system of tubules and ducts: epididymis & vas deferens
(Store and mature sperms)
- Accessory glands:
 - Seminal vesicle: 60% of semen.  Fructose
 - Prostate: 30% of semen Alkaline
Oxytocin is needed for prostatic function
PSA hydrolyze sperm motility inhibitor
++ cancer, benign tumors, prostatitis
 - Cowper's gland 5% Mucus
- Penis
Spermatic artery in contact with spermatic vein within pampiniform plexus





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*Thank
you*