

MALE REPRODUCTIVE SYSTEM → Mesoderm

GENITALIA → Reproductive structure

EXTERNAL → Exposed (Testes, Copulatory Organ)

INTERNAL → Not Exposed

• FUNCTIONS

→ Semen

→ Sexual Activity

→ Male Sex Hormones

TESTES → Male Gonads, Paired structures

↓
Collection of seminiferous tubules

- Solid bodies
- Small, ovoid structures

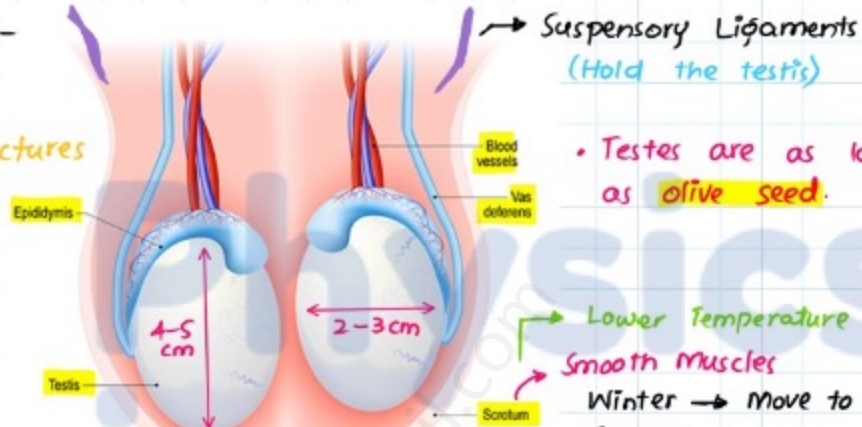
• **MONARCHIDISM**

→ Single testis

• **CRYPTORCHIDISM**

→ Testes remain abdomen

→ Failure to descend



• Testes are as large as olive seed.

• Lower Temperature (35/36°C)

Smooth Muscles

Winter → Move to abdomen
Summer

→ Move away from abdomen

STRUCTURE OF A TESTIS

EPIDIDYMIS

→ Sperm maturation

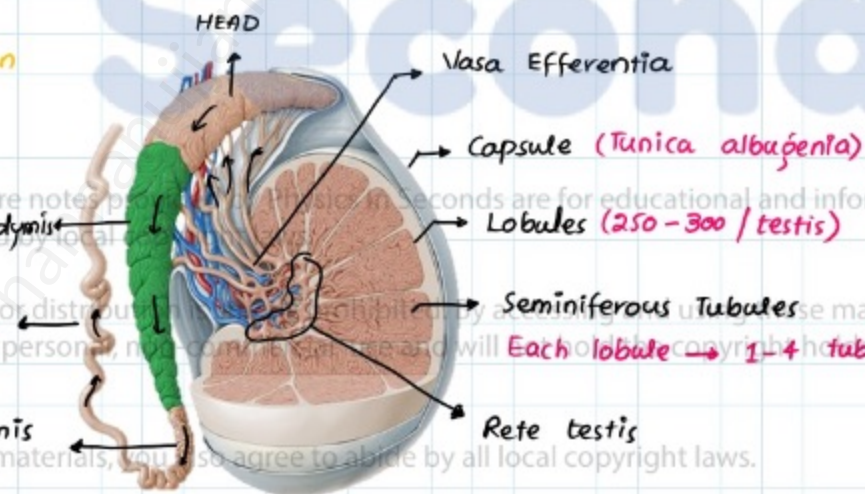
→ Sperm Storage

Body of Epididymis

Vasa Deference

(Sperm Duct)

Tail of Epididymis



URINIFEROUS → Nephron
TUBULES

Vasa Efferentia

Capsule (Tunica albuginea)

Lobules (250-300 / testis)

Seminiferous Tubules

Each lobule → 1-4 tubules

Rete testis

SPERMATOGENESIS

→ Mitosis + Meiosis

→ Duration (65-72 days), 10 weeks

Germ line Epithelium

• Spermatoblast

• Nurse cell

Sertoli cell

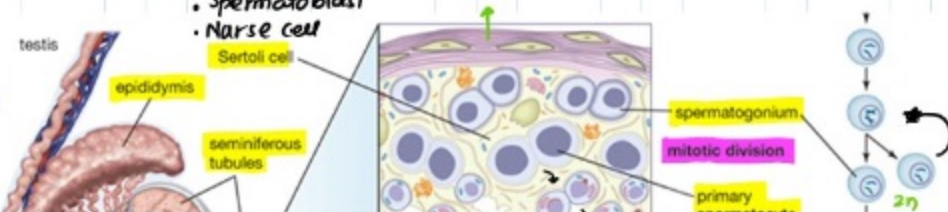
seminiferous tubules

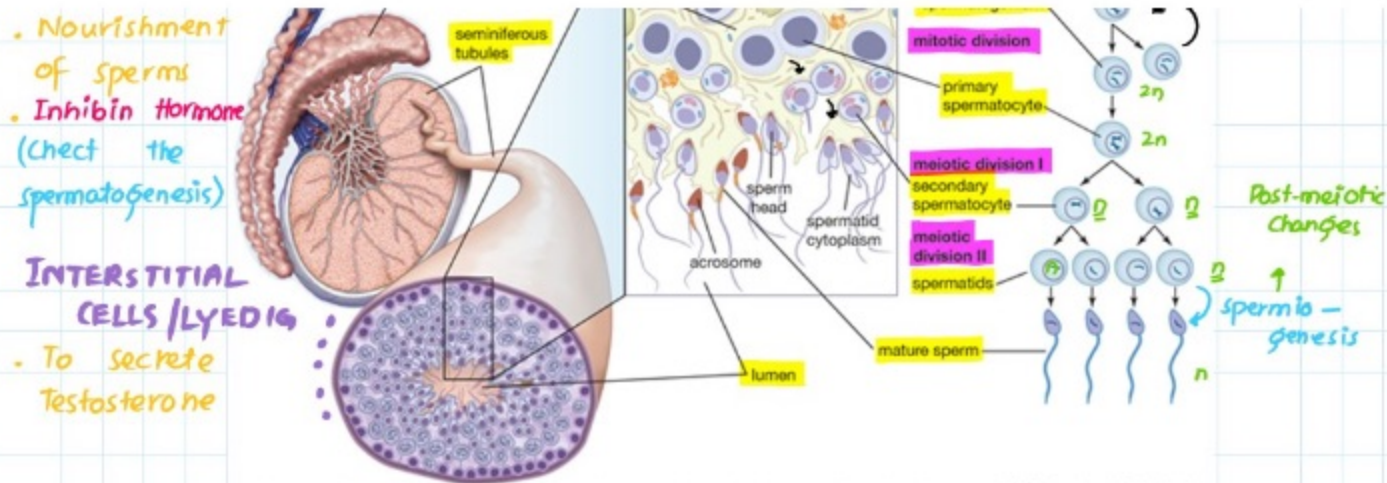
testis

epididymis

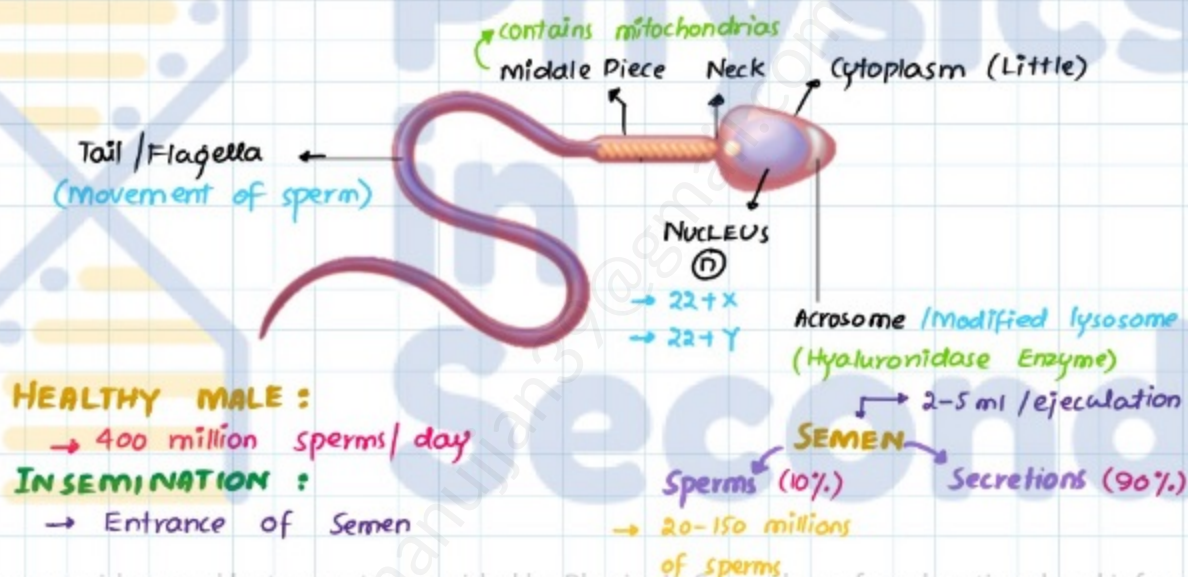
SERTOLI CELLS

• Nourishment of sperms





STRUCTURE OF A SPERM



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DUCT SYSTEM OF TESTIS

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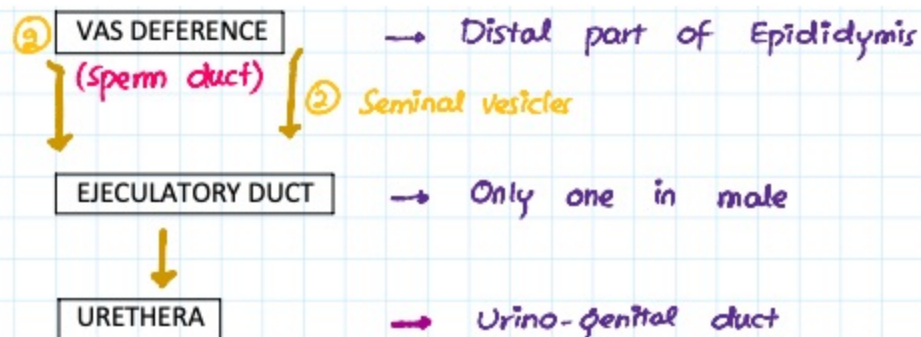
SEMINIFEROUS TUBULES → Structural and functional unit of testis.

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RETE TESTIS → Network of tubules

VASA EFFERENTIA → Distal part of Rete testis
(10-20 ducts)

EPIDIDYMIS
6 meter / 20 feet
→ Long coiled tube
→ Sperm maturation
→ Storage and transport of sperms



ACCESSORY GLANDS

SEMINAL VESICLE

- 1st Secretion
- Paired structure
- Sac-like pouches
- Attached to vas deference near bladder
- Sugar Rich Fluid (Fructose)
- Provide Energy to Sperms

PROSTATE GLAND

- 2nd Secretion
- Un-paired / Golf ball
- Below urinary bladder on both sides of urethra.
- Additional Fluid
- Nourishment and Protection
- Acidic Secretion
- Citrate ++
- Hyaluronidase

BULBO-URETHRAL

Pea-Size

- 3rd Secretion
- Paired structure
- Cowper's gland
- On side of urethra, just below prostate.
- Clear, slippery
- Mucus
- Neutralize tract
- Alkaline Secretion

COPULATORY ORGAN

→ **PENIS** (To launch Sperms in Female Reproductive tract)

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HUMAN BODY

INTERNAL

FERTILIZATION

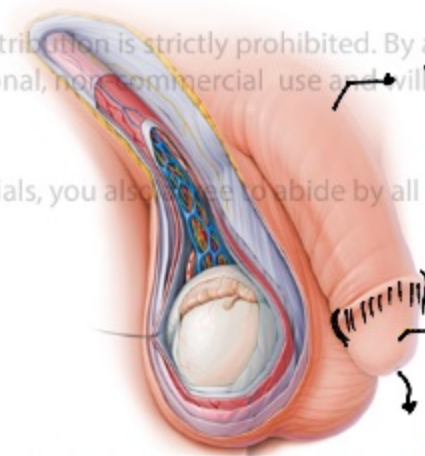
Sperm + Ova

↓

ZYGOTE

↓

EMBRYO



→ Never Pass Sperm

→ Flaccid Form → Urination

→ Erect Form → Sex derive

→ Never pass urine

→ Foreskin → Removed in some religion

→ Glans Penis (Sensitive Part)

→ Urethral Orifice (Semen + Urine)