NEET CRASH COURSE

Human Reproduction

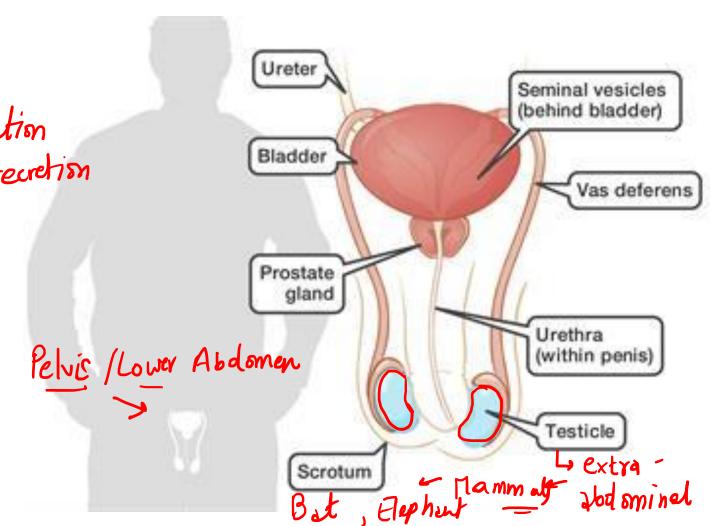


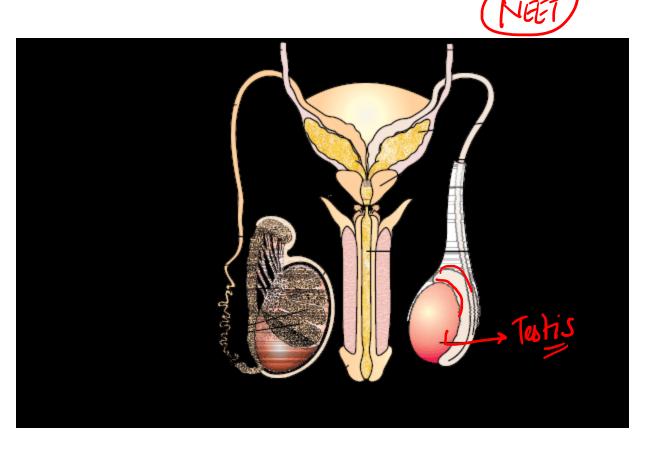
By, Prerna Gaur, M.sc (Delhi University)

Male reproductive system comprises of-

1. Primary sex organ-Testis hormone secretion

- 2. Secondary sex organs-
 - Accessory ducts →
 - II. Accessory glands -
 - III. External genitilia(Penis)→





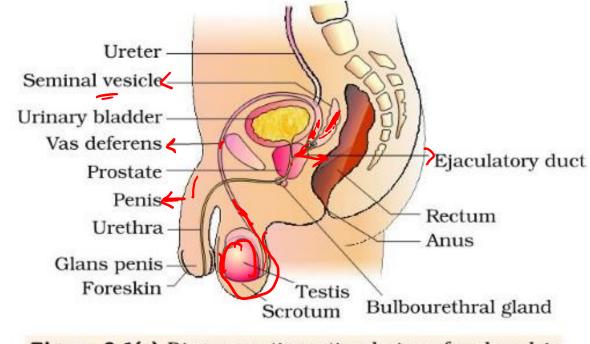
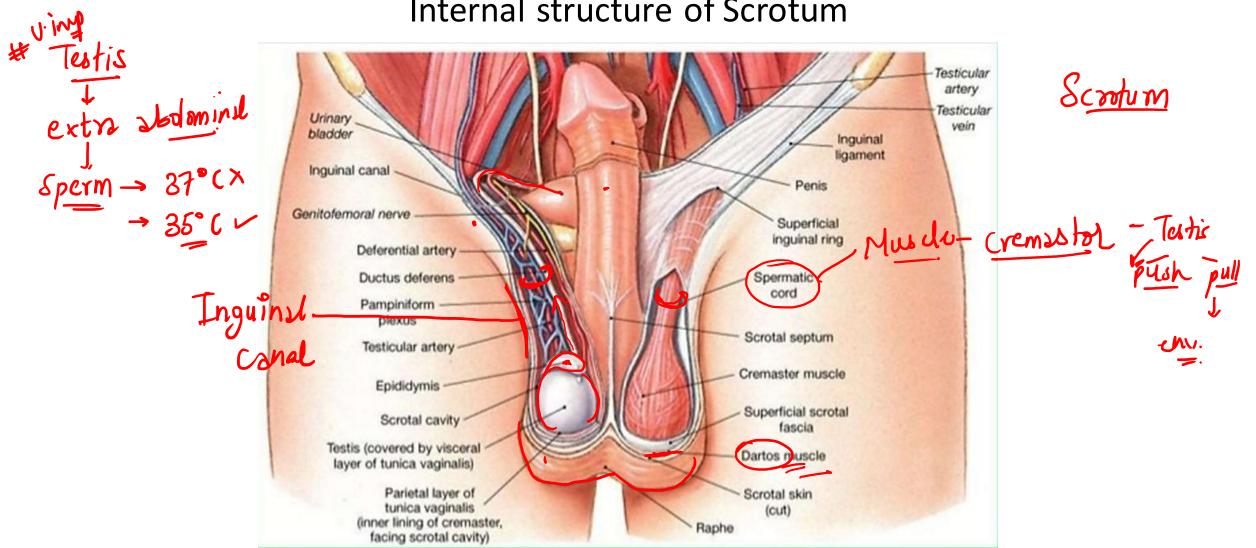


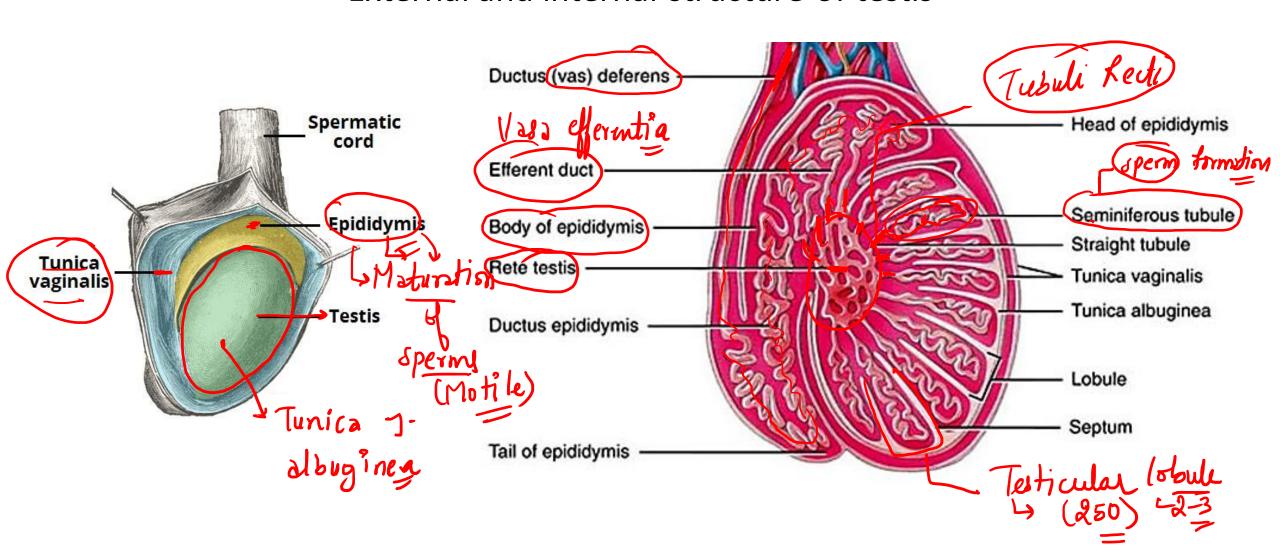
Figure 3.1(a) Diagrammatic sectional view of male pelvis showing reproductive system

Internal structure of Scrotum



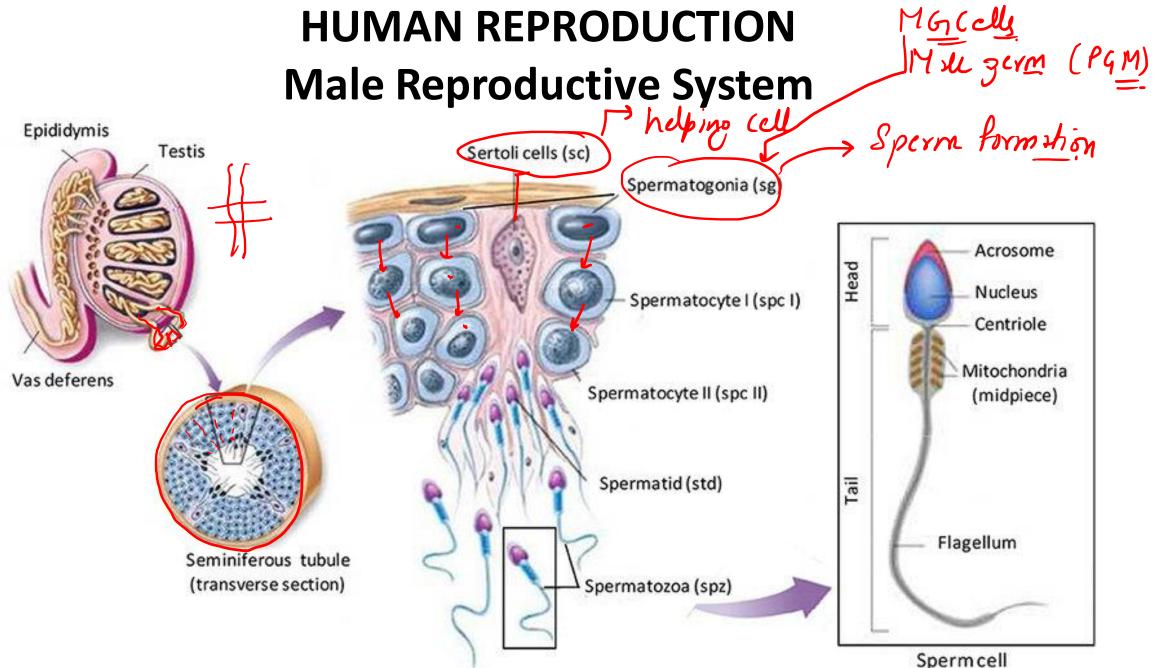
1) A wessery duds

External and internal structure of testis

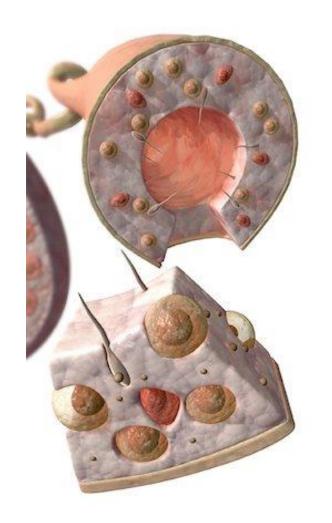


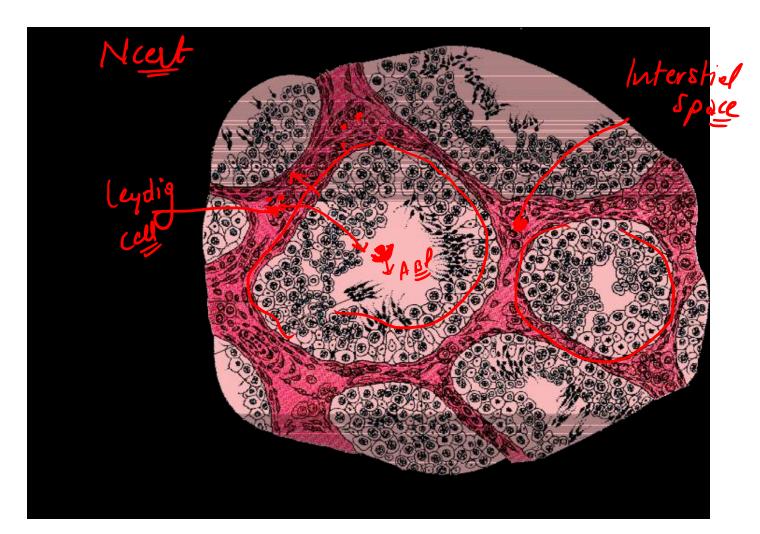
Seminiferous tubule L. Tubuli Recti -> Rete testis -> Vosa efferentia -> Epididymis - Vrethra = Granstory + Ves afference Duct of seminal veride **HUMAN REPRODUCTION**

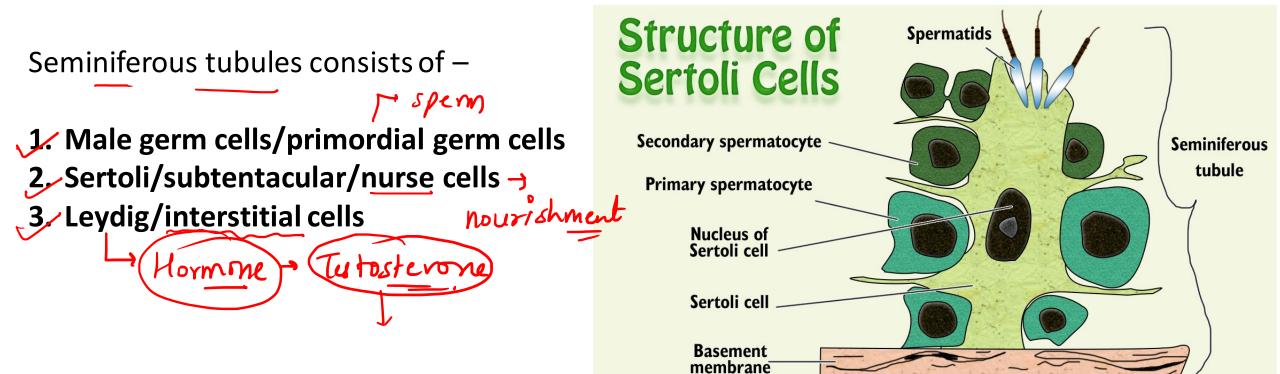
Male Reproductive System

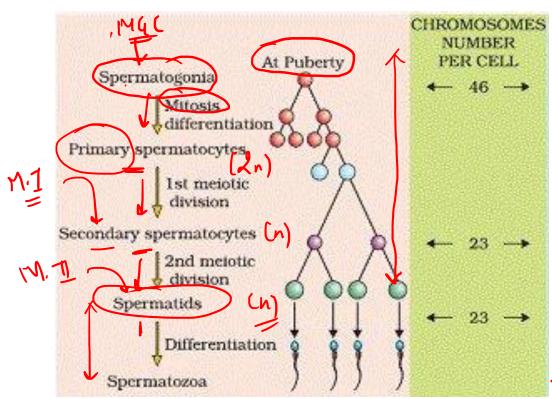


Seminiferous Tubules(site of spermatogenesis)



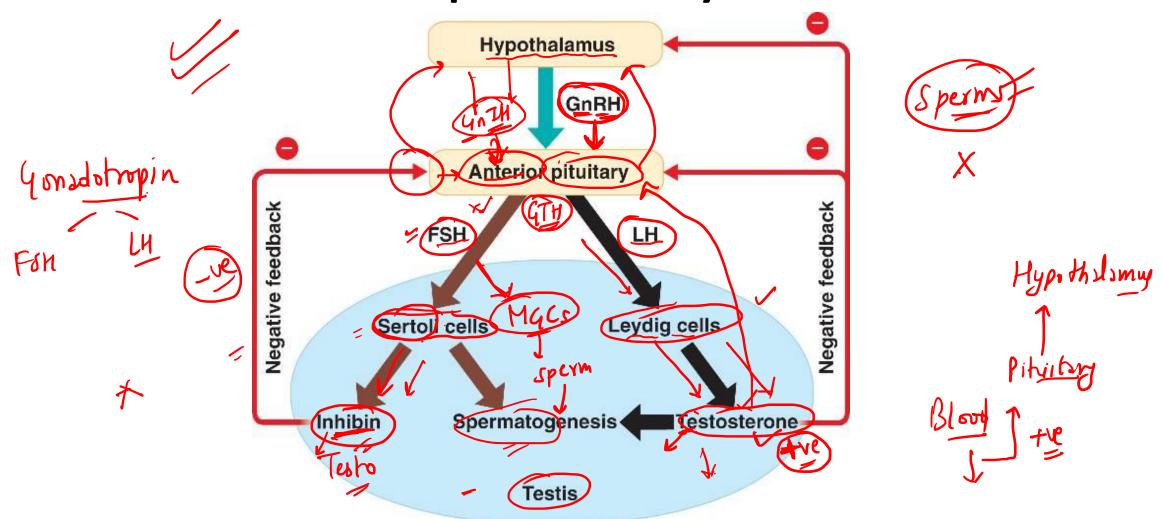






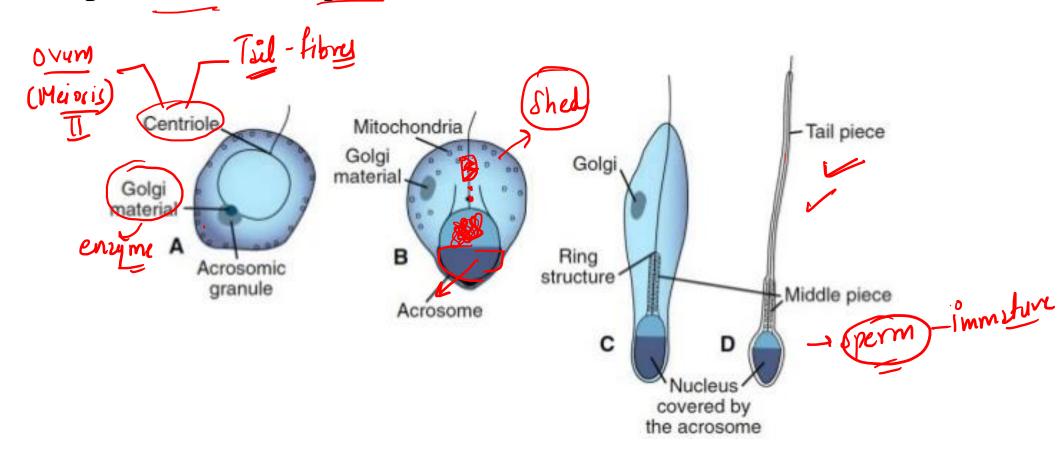
A subpopulation called type A spermatogonia act as stem cells, Type A spermatogonia dividing to produce new stem cells. (stem cells) Other type A spermatogonia that undergo transit amplification as progenitor cells Type A spermatogonia (progenitor cells) Mitosis 1° sperm 2 toute Primary spermatocytes First meiotic division Secondary spermatocytes Second meiotic division Mature spermatozoa Spermiogenesis (differentiation)

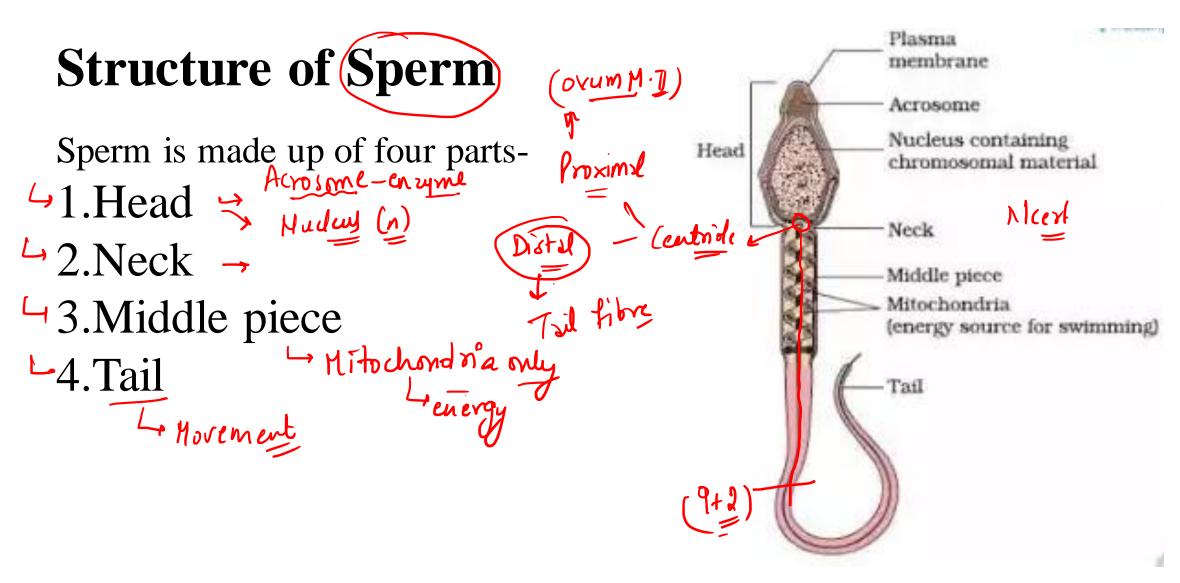
SPERMATOGENESIS

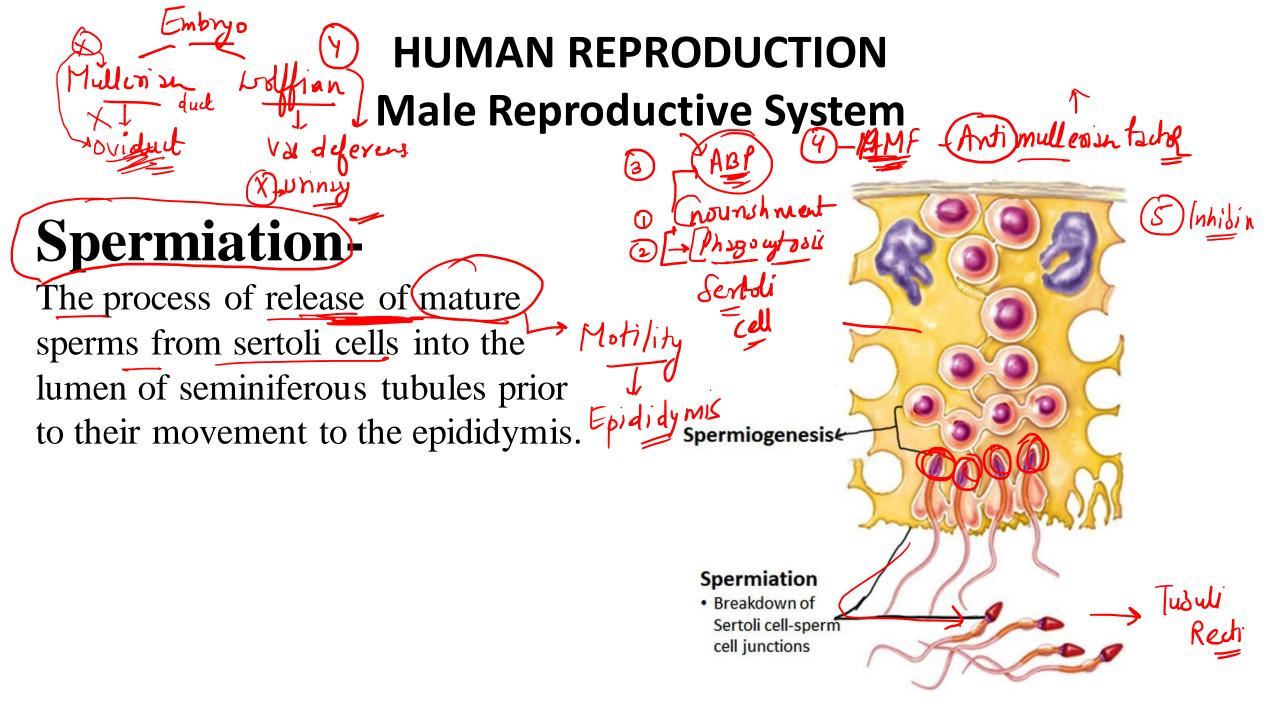


HORMONAL CONTROL OF SPERMATOGENESIS

Spermiogenesis- The process of conversion of non-motile spermatids into motile spermatozoa or sperms.







Accessory Glands

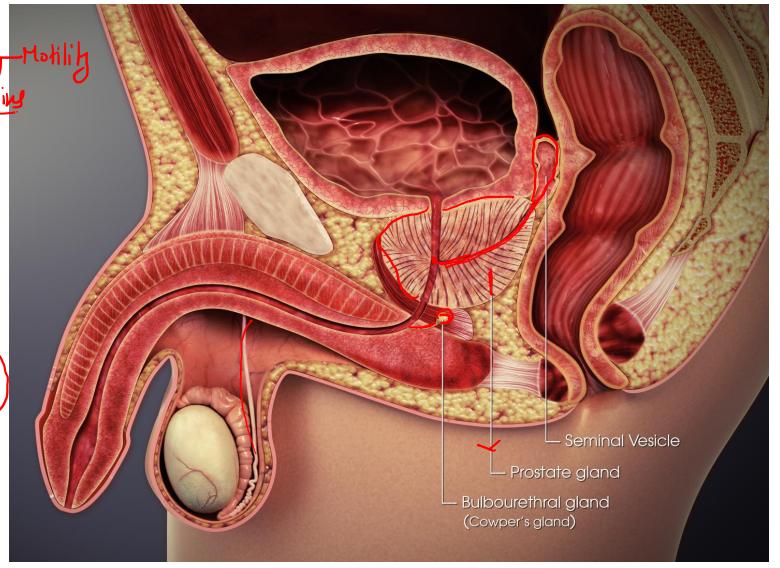
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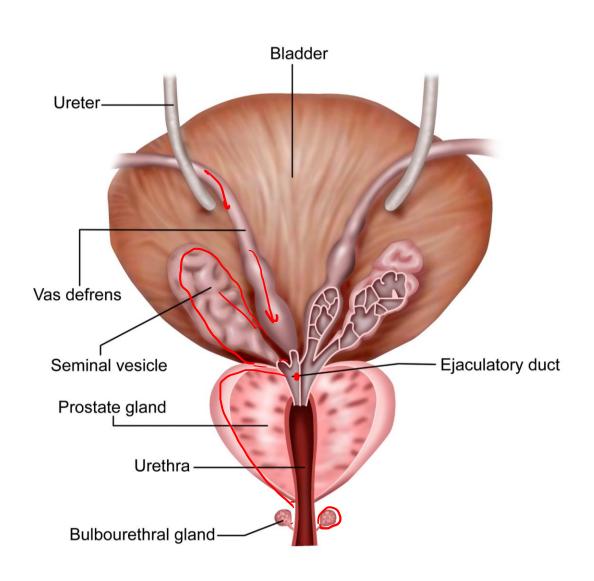
- 1. Seminal vesicle
- 2.Prostate gland -siyle
- 3.Bulbourethral gland

or Cowper's gland by poil

Prostate Alkalin - Neutriliza

uroth n lubrication + enzyme medium - citric acid - Prostaglandine



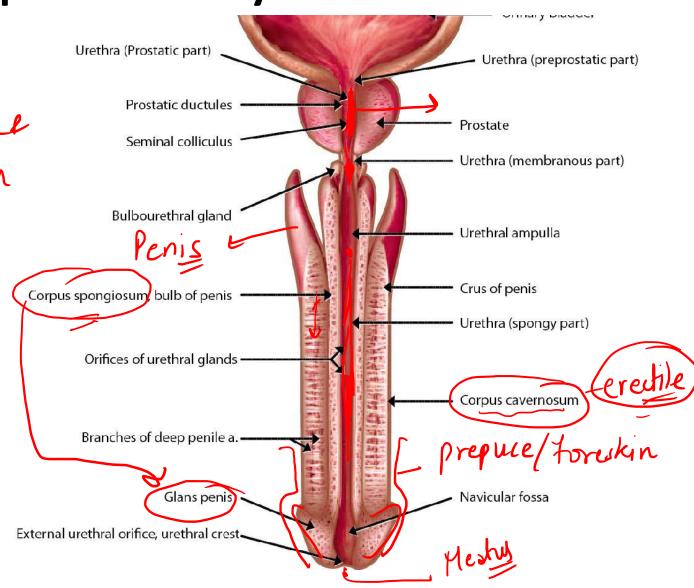


Structure of Urethra

Urethra consists of three parts-

- 1. Prostate Urethra
- 2. Membranous Urethra
- 3.Penile urethra

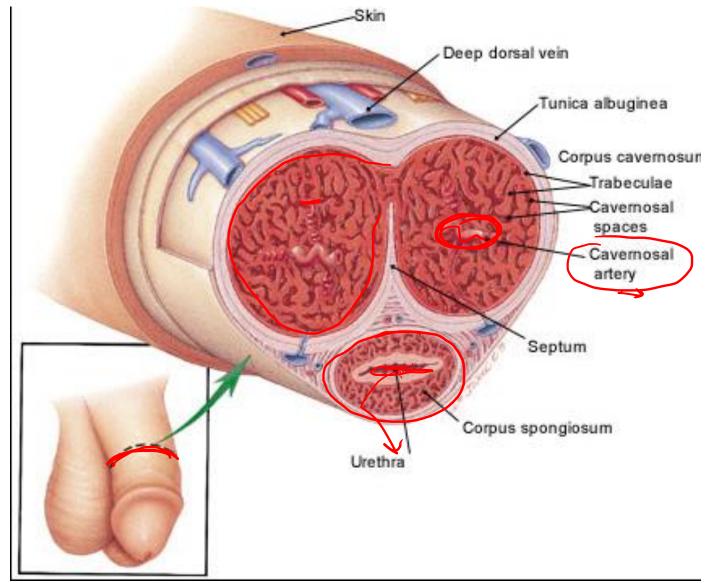
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Penis comprises of two main types of erectile tissues-

1.Corpora cavernosa2.Corpora spongiosum



HUMAN REPRODUCTION Male Reproductive System Composition of Semen

(Semen = Sperm + Seminal plasma)

- Semen contains 200 to 300 million sperms in one ejaculate.
- Out of these millions sperm 60% of the sperms must have normal shape and size and atleast 40% of them must show vigorous motility.
- pH of semen is 7.3 to 7.5

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Diseases of Male Reproductive System

Prostate Cancer: Cancer of the prostate gland, triggered by hormone testosterone or some pathogens.

Inguinal hernia: Tearing of inguinal tissue may result in the protrusion of a part of intestine into the scrotum.

Andropause: Reduced production of testosterone.

CASTRATION: Removal of the testis.

Female reproductive system

comprises of-

1. Primary sex organ-Ovary

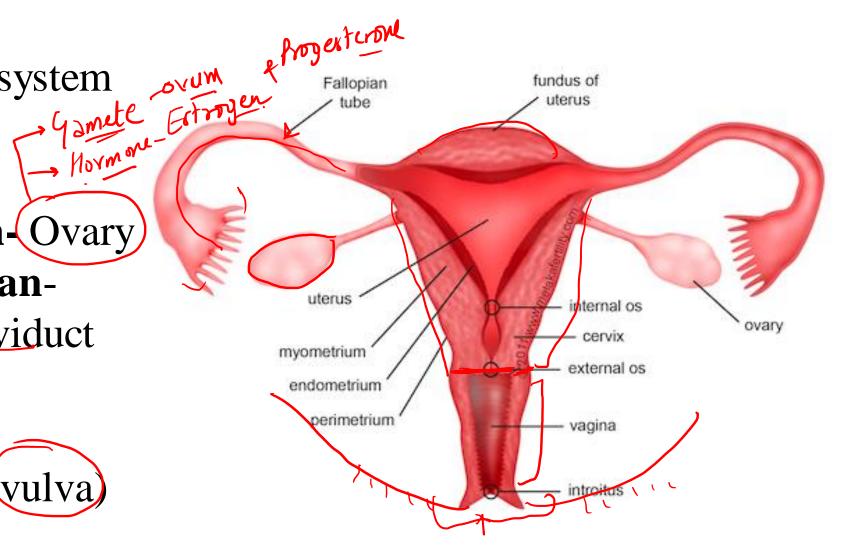
2. Secondary sex organ-

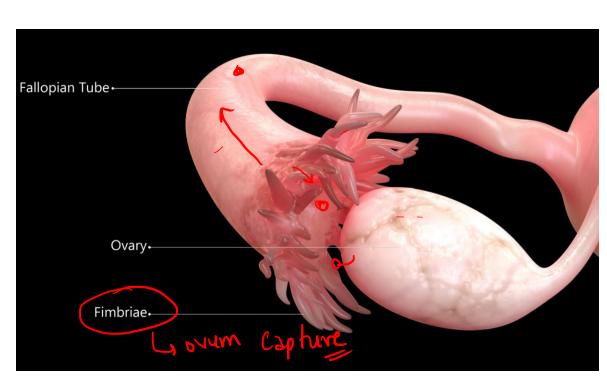
i. Fallopian tube or oviduct

ii. Uterus

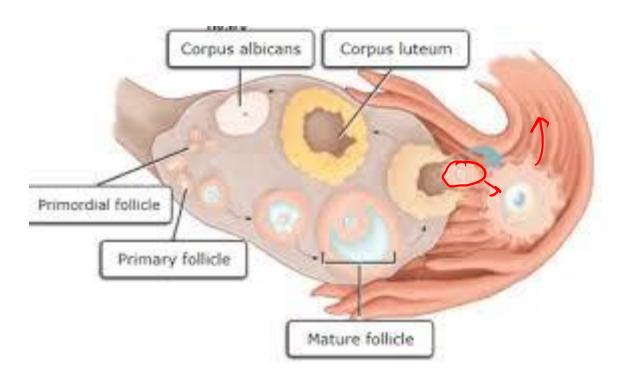
iii.Vagina

iv. External genitalia (vulva)



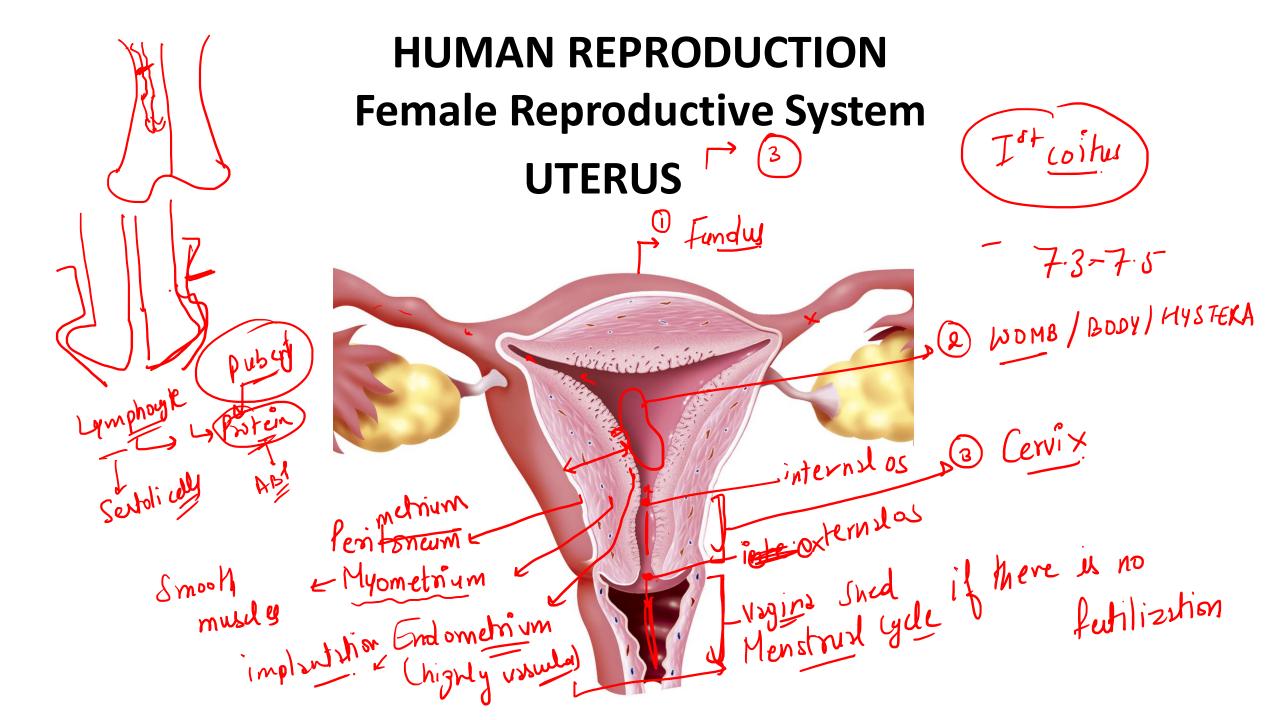




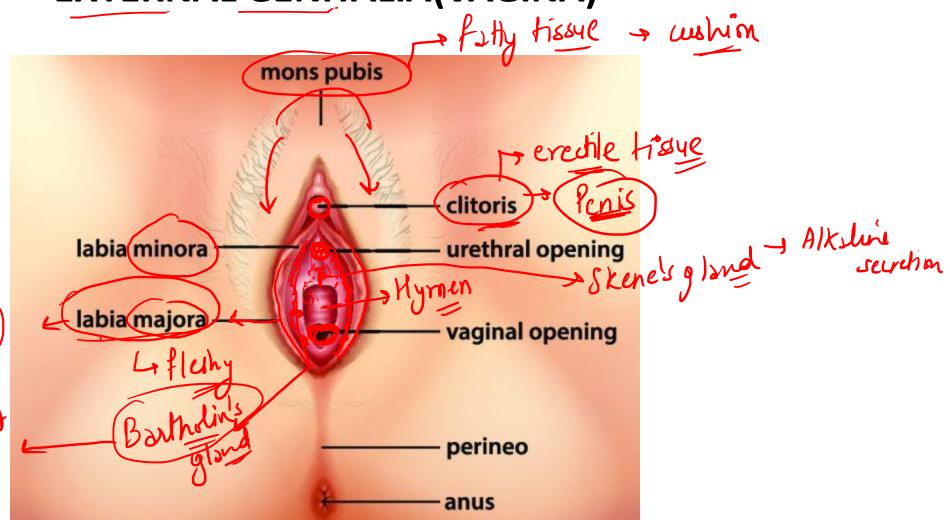


Internal View

HUMAN REPRODUCTION Summy The Cilisted Peristalis **Female Reproductive System** FALLOPIAN TUBE fertilization site Early embryonic development. Ampulla Interstitial Isthmus portion Mesosalpinx Infundibulum **Fimbriae** Ovarian ligament



HUMAN REPRODUCTION Female Reproductive System EXTERNAL GENITALIA(VAGINA)





ThankYou