

CONCEPT MAP

HUMAN MALE REPRODUCTIVE SYSTEM

The male reproductive system is located in the pelvic region. It is a system of sex organs and accessory glands.

- It has two functions are:
 - Production of sperms by spermatogenesis.
 - Deposition of male sex hormones testosterone.
 - It ensures internal fertilisation.

Primary sex organs

- Produce male gametes in sperms.
- Secrete male sex hormone testosterone.

Testes in scrotum

- Adipose tissue found in the cryptorchidism.
- Secrete and pump the sperm in 7th month of embryonic development through inguinal canal.
- Ascent of testes supported by **cremasteric muscle**.
- Temperature is $3.3-3.5^{\circ}\text{C}$ than the normal body temperature.
- Under hormonal control of **FSH** and **LH** from anterior lobe of pituitary.

Seminal vesicles

- A pair of small glands near the base of bladder.
- Produce an alkaline secretion, **seminal fluid** (pH 7.4, which forms 10% of volume of semen).
- Seminal fluid is rich in fructose for nourishing sperm, **prostaglandins**, which stimulate uterine contractions for upward movement of sperm and **clotting proteins** for coagulation of semen after ejaculation.

Prostate gland

- Single gland, produces a milky secretion (pH 6.2) which forms 25% of volume of semen.
- Prostate secretion contains zinc and enzymes (acid phosphatase, arylsulphatase, phosphatase), and secretions nourish and activate the spermatozoa to swim.

Cooper's bulbourethral glands

- A pair of glands present in either side of urethra.
- Secrete alkaline fluid and mucus that lubricate the end of penis and lining of urethra.

Accessory glands

- Secrete seminal plasma or semen rich in fructose, calcium, prostaglandins, clotting proteins and certain enzymes.

Secondary sex organs

Accessory ducts

- Store and transport sperms from the testes to the scrotum through urethra.
- Include vas deferens, duct of seminal vesicle and vas deferens.

Intercavernosal genital duct system

Vasa efferentia

- Network of 20-30 fine channels into which seminiferous tubules open.

Epididymis

- Differentiated into anterior, caput epididymis, middle corpus epididymis and posterior cauda epididymis.
- Store sperms and also secrete substances required for maturation of spermatozoa.

Vasa deferentia

- Conduct sperms.
- Leave the scrotum and enter abdominal cavity through inguinal canal.
- Joined by duct from seminal vesicle to form ejaculatory duct.

Ejaculatory ducts

- 2 short tubes each formed by union of duct from a seminal vesicle and vas deferens.
- They pass through prostate gland and join prostatic urethra to produce **semen** **urethra**.
- Muscular walls of ejaculatory ducts quickly contract (spasmodic) through retrograde duct.

Urethra

- Each longer, as compared to testis, about 25 cm, common pathway for urine and semen functioning regulated by internal and external sphincters.
- Differentiated into anterior **prostatic urethra**, surrounded by prostatic gland (carrying urine only), middle **membranous urethra**, which crosses duct from Cooper's gland and dorsal **penile urethra**, which opens to the outside through penile meatus.

Penis

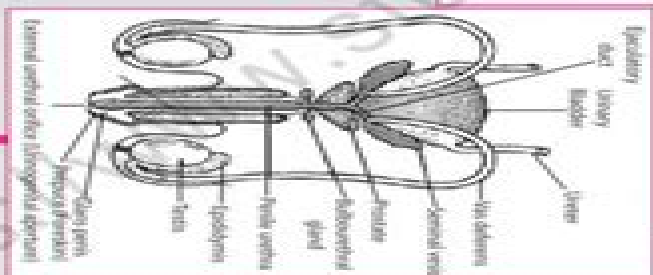
- Intra-male reproductive organ.
- Conducts both urine and semen, opens to the outside by urethral opening or **urethral meatus**, covered by prepuce.
- Consists three cylindrical masses of erectile tissue - two dorsal **corpora cavernosa** and one ventral **corpus spongiosum**, which helps in strong, forceful ejaculation.
- Helps to transfer semen to female reproductive tract during internal fertilisation.

Prostatic cancer

- Common malignancy, accounting for 23% of male deaths.
- Develops slowly in early, increased frequency of urination.
- Treatment involves surgical removal of testes.

Sterility

- Incapacity of sperms to fertilise the ovum, due to low sperm count or low sperm motility.



Disorders of the male reproductive system

ED or Benign prostatic hypertrophy

- Enlargement of prostate gland, common in old age.
- May cause urinary tract infection, urinary incontinence.

Impotence

- Incapacity of adult male to achieve or hold erection.
- Occurs due to psychological, physiological or neuromuscular defects.

Human Reproductive System Concept Map

Hellmut R. Lang, David N. Evans

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the authors' names.

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