

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 3 main functions are:
 - Production of sperm by spermatogenesis.
 - Deposition of male sex hormones (testosterone).
 - Ensures internal fertilisation.

Primary sex organs

- Produce male gametes (sperm).
- Secrete male sex hormone (testosterone).

Testes in scrotum

- Adipose is rich from the endodermal layer.
- Covered by pouch like scrotum by 7th month of embryonic development through inguinal canal.
- Ascent of testes supported by **cremasteric muscle**.
- Temperature is $3-3.5^{\circ}\text{C}$ (slightly lower than 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 endodermis.
- 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 sperm 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**.
- Sperm sperms and sex secretions required for maturation of spermatozoa.

Vasa deferentia

- Conduct sperm.
- Leave the scrotal sac 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 (spasms) through **urethral 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 prostate gland (carrying urea only), middle **membranous urethra**, which involves ducts from Cooper's gland and dorsal **penile urethra**, which opens to the outside through penile meatus.

Penis

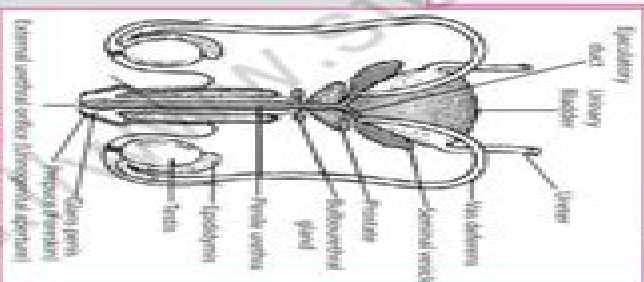
- Intra-male reproductive organ.
- Conducts both urine and semen, opens to the outside by unpaired opening or **penile meatus**, covered by prepuce.
- Consists three cylindrical masses of erectile tissue - two dorsal **corpora cavernosa** and one ventral **corpus spongiosum**, which helps in strong,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

Prostate cancer

- Common malignancy, accounting for 25% of male deaths.
- Develops difficulty in urinating, increased frequency of urination.
- Treatment involves surgical removal of testes.

Sterility

- Inability of sperm 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

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

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Table of Contents Concept Map 1 Male Reproductive Tract

1. Understanding the eBook Concept Map 1 Male Reproductive Tract
 - The Rise of Digital Reading Concept Map 1 Male Reproductive Tract
 - Advantages of eBooks Over Traditional Books
2. Identifying Concept Map 1 Male Reproductive Tract
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Concept Map 1 Male Reproductive Tract
 - User-Friendly Interface
4. Exploring eBook Recommendations from Concept Map 1 Male Reproductive Tract
 - Personalized Recommendations
 - Concept Map 1 Male Reproductive Tract User Reviews and Ratings

- Concept Map 1 Male Reproductive Tract and Bestseller Lists
- 5. Accessing Concept Map 1 Male Reproductive Tract Free and Paid eBooks
 - Concept Map 1 Male Reproductive Tract Public Domain eBooks
 - Concept Map 1 Male Reproductive Tract eBook Subscription Services
 - Concept Map 1 Male Reproductive Tract Budget-Friendly Options
- 6. Navigating Concept Map 1 Male Reproductive Tract eBook Formats
 - ePub, PDF, MOBI, and More
 - Concept Map 1 Male Reproductive Tract Compatibility with Devices
 - Concept Map 1 Male Reproductive Tract Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Concept Map 1 Male Reproductive Tract
 - Highlighting and Note-Taking Concept Map 1 Male Reproductive Tract
 - Interactive Elements Concept Map 1 Male Reproductive Tract
- 8. Staying Engaged with Concept Map 1 Male Reproductive Tract
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Concept Map 1 Male Reproductive Tract
- 9. Balancing eBooks and Physical Books Concept Map 1 Male Reproductive Tract
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Concept Map 1 Male Reproductive Tract
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Concept Map 1 Male Reproductive Tract
 - Setting Reading Goals Concept Map 1 Male Reproductive Tract
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Concept Map 1 Male Reproductive Tract
 - Fact-Checking eBook Content of Concept Map 1 Male Reproductive Tract
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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