

The joint purpose of both the female and male reproductive systems is to **produce offspring**.

- The reproductive role of the man is to manufacture male gametes called **sperm** and deliver them to the woman's reproductive system
- The reproductive role of a woman is to produce female gametes called **ova**, or **eggs**

- ☒ If the conditions are suitable, a **sperm and egg fuse** to produce a fertilized egg, called a **zygote**.
  - Once fertilization has occurred, the **female uterus provides a protective environment in which the embryo**, later called the **fetus**, develops until birth.

- ☒ **Sex hormones** play vital roles both in the development and function of the reproductive organs, and in sexual behavior and drives.

These hormones also influence growth and development of many organs and tissues in the body

## MALE REPRODUCTIVE SYSTEM

- Primary reproductive organs of the male are the paired **testes**, which have both an **exocrine** (sperm-producing) function, and an **endocrine** (testosterone-producing) function.
- The accessory reproductive structures are ducts or glands that aid in the **delivery of sperm to the body exterior** or to the **female reproductive tract**

## ANATOMY OF THE MALE REPRODUCTIVE SYSTEM TESTES

- Golf-ball sized testis is approximately 4cm (1.5 in) long, and 2.5 cm (1 in) wide
- The testis is connected to the trunk via the **spermatic cord** – a connective tissue sheath that encloses blood vessels, nerves, and the **ductus deferens**

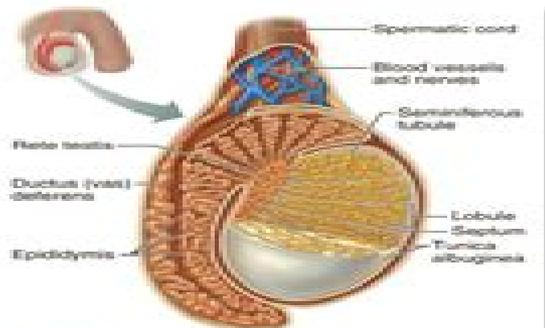


Figure 16.1 Sagittal section of the testis and associated epididymis.

Figure 1. Sagittal section of the testis and associated epididymis

## COVERINGS OF THE TESTES

- **Tunica albuginea** – a connective tissue capsule that surrounds each testis
- **Septa** – extensions of the capsule that extend into the testis and divide it into lobules

**Figure 1** shows each lobule of the testes with coils of seminiferous tubules. Sperm from the **seminiferous tubule** passes from the rete testis to the **epididymis**

- **Seminiferous tubules** – actual sperm-forming factories
  - They empty sperm into another set of tubules the **rete testis**
    - The **rete testis** is located to one side of the testis
    - Sperm travel through the **rete testis** to enter the first part of the duct system (**epididymis**), which hugs the external surface of the testis
- ☒ **Interstitial cells** – lies in the soft connective tissue that surrounds the seminiferous tubules
  - These are functionally distinct cells that produce **androgens** – most important of which is **testosterone**
  - The sperm producing and hormone-producing functions of the testes are carried out by completely different cell populations.

## DUCT SYSTEM

- Transport sperm from the body

## EPIDIDYMIIS

- Highly convoluted tube about 6 cm (20 feet) long
- Can be found along the posterior lateral side of the testis
- The first part of the male duct system and provides a temporary storage site for the **immature sperm**
  - The immature sperm travels along the epididymis for about 20 days and eventually matures, developing their ability to **swim**
- During **ejaculation**, the walls of the epididymis contract to expel sperms into the next part of the duct system, the **ductus deferens**

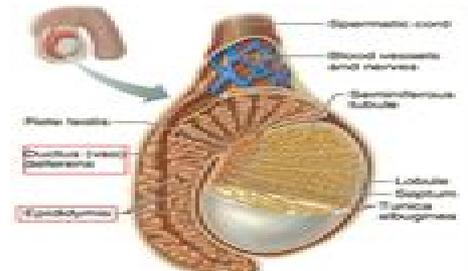


Figure 16.1 Sagittal section of the testis and associated epididymis.

Figure 2. Sagittal section of the testis and associated epididymis

# Essentials Of Anatomy Physiology Reproductive System

**Ensheng Dong**



## **Essentials Of Anatomy Physiology Reproductive System:**

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