

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**

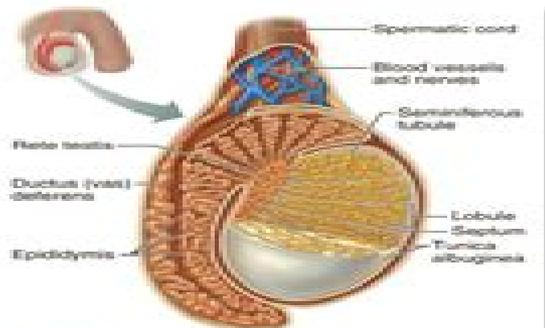


Figure 16.1 Sagittal section of the testis and associated epididymis.

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**

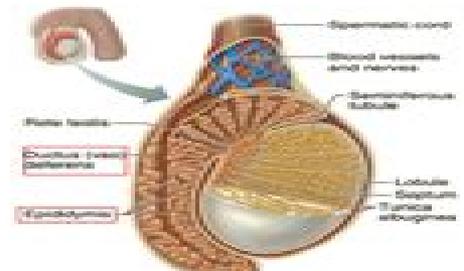


Figure 16.1 Sagittal section of the testis and associated epididymis.

Figure 2. Sagittal section of the testis and associated epididymis

Essentials Of Anatomy Physiology Reproductive System

M Woodhall



Essentials Of Anatomy Physiology Reproductive System:

This book delves into Essentials Of Anatomy Physiology Reproductive System. Essentials Of Anatomy Physiology Reproductive System is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Essentials Of Anatomy Physiology Reproductive System, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 1: Introduction to Essentials Of Anatomy Physiology Reproductive System
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 - Chapter 4: Essentials Of Anatomy Physiology Reproductive System in Specific Contexts
 - Chapter 5: Conclusion
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Table of Contents Essentials Of Anatomy Physiology Reproductive System

1. Understanding the eBook Essentials Of Anatomy Physiology Reproductive System
 - The Rise of Digital Reading Essentials Of Anatomy Physiology Reproductive System
 - Advantages of eBooks Over Traditional Books
2. Identifying Essentials Of Anatomy Physiology Reproductive System
 - 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 Essentials Of Anatomy Physiology Reproductive System
 - User-Friendly Interface
4. Exploring eBook Recommendations from Essentials Of Anatomy Physiology Reproductive System
 - Personalized Recommendations
 - Essentials Of Anatomy Physiology Reproductive System User Reviews and Ratings
 - Essentials Of Anatomy Physiology Reproductive System and Bestseller Lists
5. Accessing Essentials Of Anatomy Physiology Reproductive System Free and Paid eBooks
 - Essentials Of Anatomy Physiology Reproductive System Public Domain eBooks
 - Essentials Of Anatomy Physiology Reproductive System eBook Subscription Services
 - Essentials Of Anatomy Physiology Reproductive System Budget-Friendly Options
6. Navigating Essentials Of Anatomy Physiology Reproductive System eBook Formats
 - ePub, PDF, MOBI, and More
 - Essentials Of Anatomy Physiology Reproductive System Compatibility with Devices
 - Essentials Of Anatomy Physiology Reproductive System Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Essentials Of Anatomy Physiology Reproductive System
 - Highlighting and Note-Taking Essentials Of Anatomy Physiology Reproductive System
 - Interactive Elements Essentials Of Anatomy Physiology Reproductive System

8. Staying Engaged with Essentials Of Anatomy Physiology Reproductive System
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Essentials Of Anatomy Physiology Reproductive System
9. Balancing eBooks and Physical Books Essentials Of Anatomy Physiology Reproductive System
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Essentials Of Anatomy Physiology Reproductive System
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Essentials Of Anatomy Physiology Reproductive System
 - Setting Reading Goals Essentials Of Anatomy Physiology Reproductive System
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Essentials Of Anatomy Physiology Reproductive System
 - Fact-Checking eBook Content of Essentials Of Anatomy Physiology Reproductive System
 - 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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