The Male Reproductive System

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After studying this chapter, you will be able to:

- Name the parts of the male reproductive system and discuss the function of each part
- •Define combining forms used in building words that relate to the male reproductive system
- Identify the meaning of related abbreviations

 Name the common diagnoses, clinical procedures, and laboratory tests used in treating the male reproductive system



•List and define the major pathological conditions of the male reproductive system

•Explain the meaning of surgical terms related to the male reproductive system

 Recognize common pharmacological agents used in treating the male reproductive system

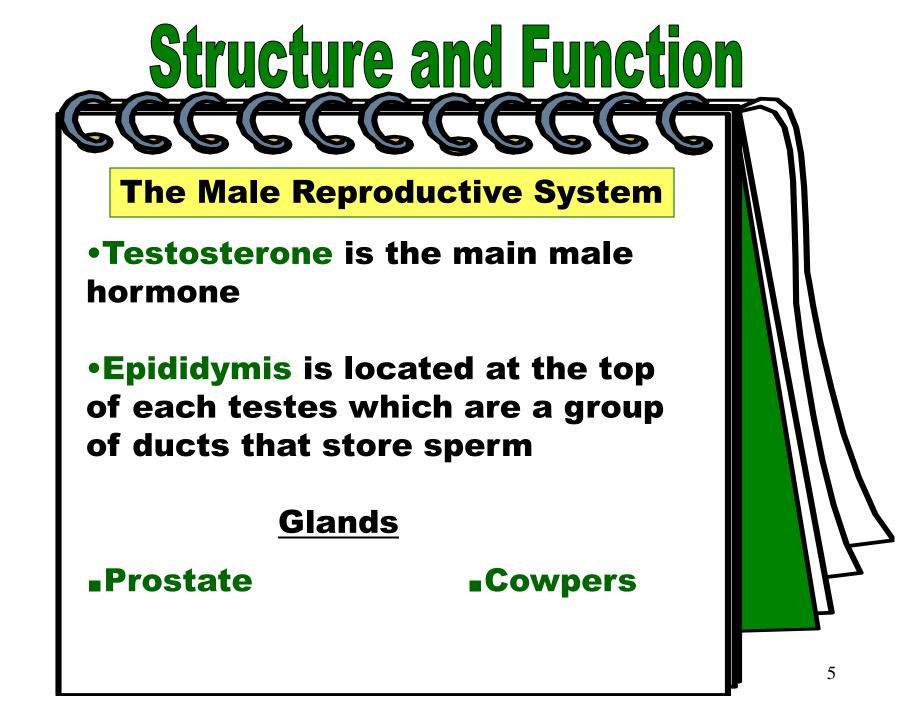


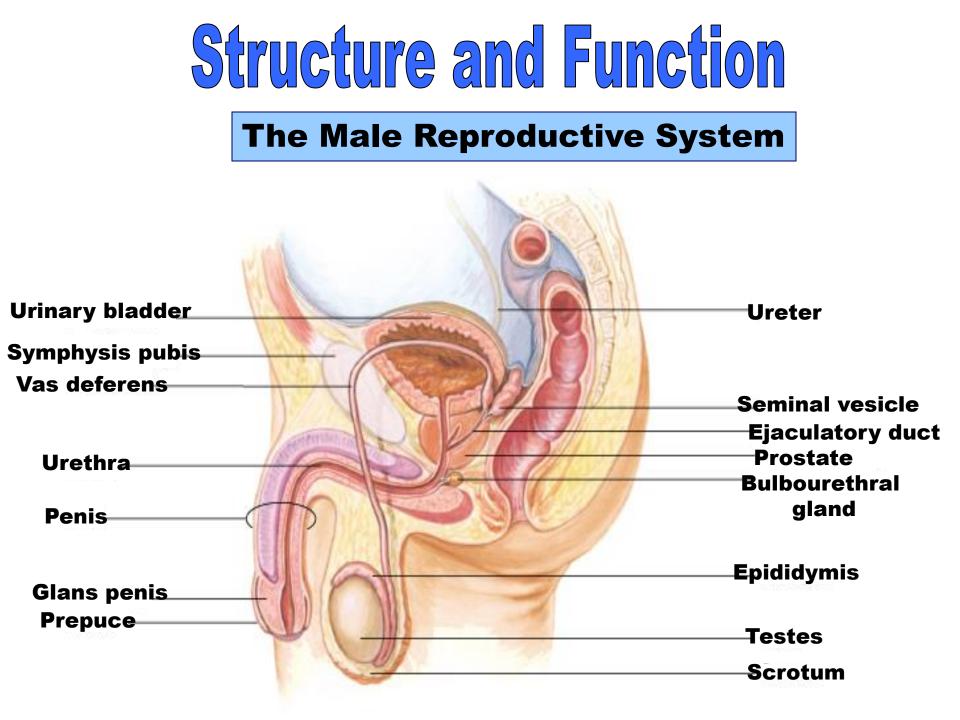
The Male Reproductive System

•The sex cells (spermatozoa) or sperm are produced in the male gonads or testes.

•Scrotum is a sac located outside the body that houses the testes.

•Spermatogenesis requires a lower temperature than body temperature for safe development of sperm.

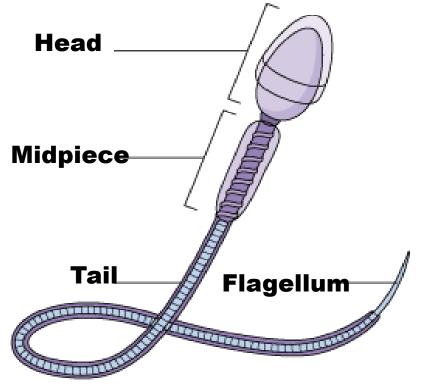




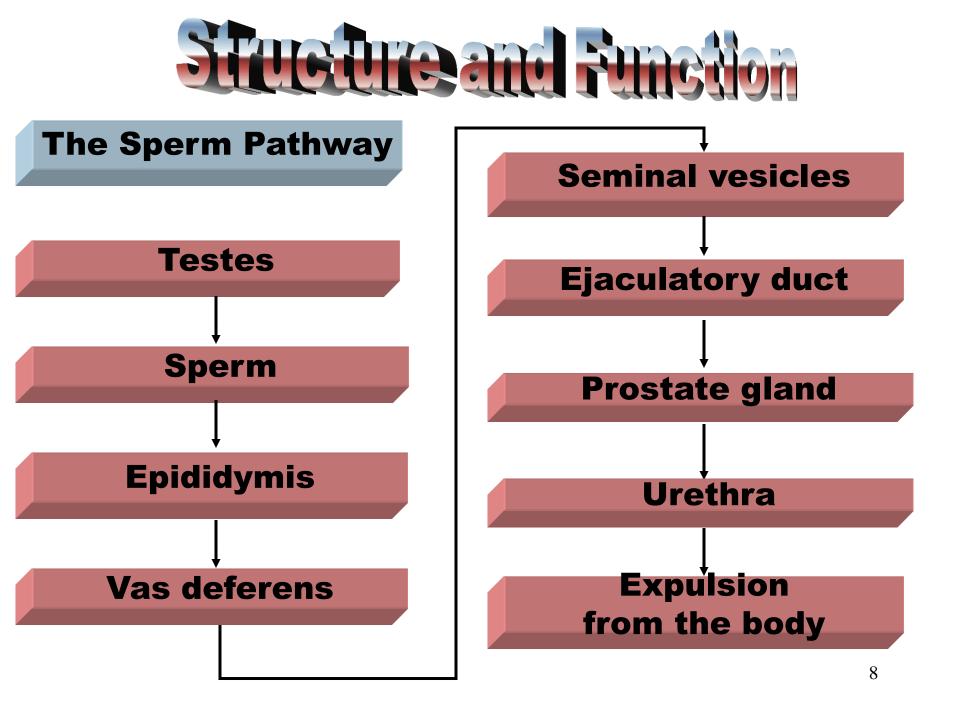
Structure and Function

Spermatozoon

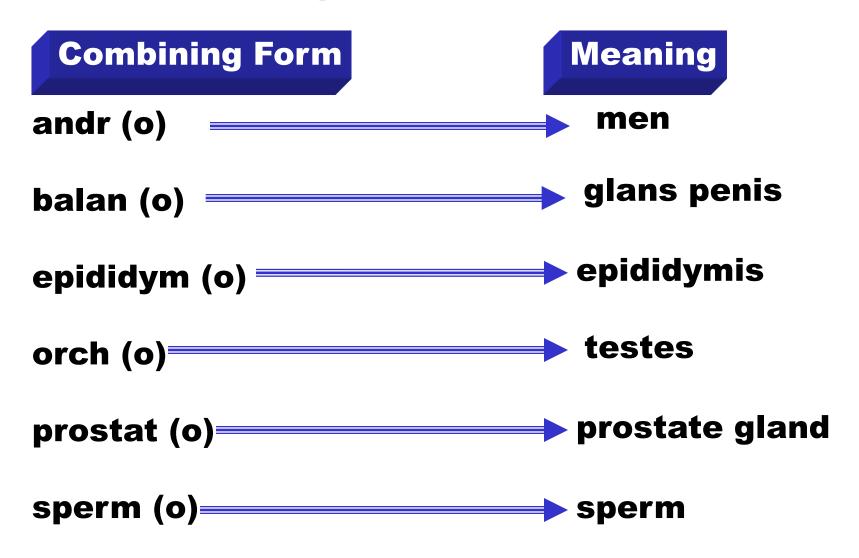
Microscopic cell
Consists of a head and tail (flagellum)
Genetic material (chromosomes) are located in the head
Motility occurs by means of the flagellum

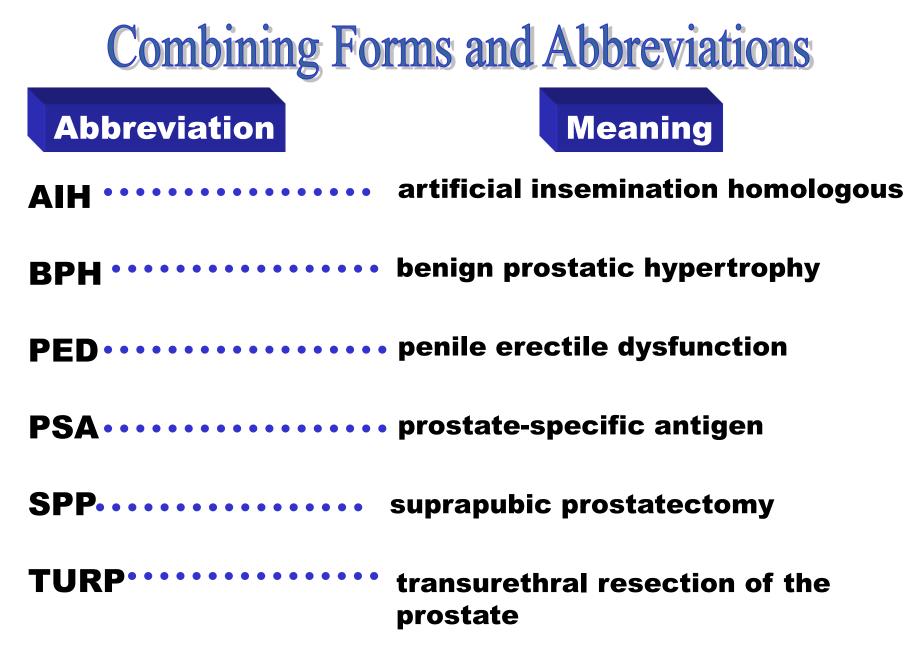


NOTE: Identical twins result from one ovum splitting after being fertilized by a single sperm. Fraternal twins are the result of two sperm fertilizing two ova.



Combining Forms and Abbreviations





Diagnostic, Procedural, and Laboratory Terms

Male Examination

 Digital rectal exam (DRE) checks for rectal and prostate abnormalities

 Prostate-specific antigen (PSA) is a blood test to screen for prostate cancer

•Semen analysis determines quality and quantity of sperm



Diagnostic, Procedural, and Laboratory Terms

X-ray and Imaging Procedures

Urethrogram

•X-ray of the urethra and prostate

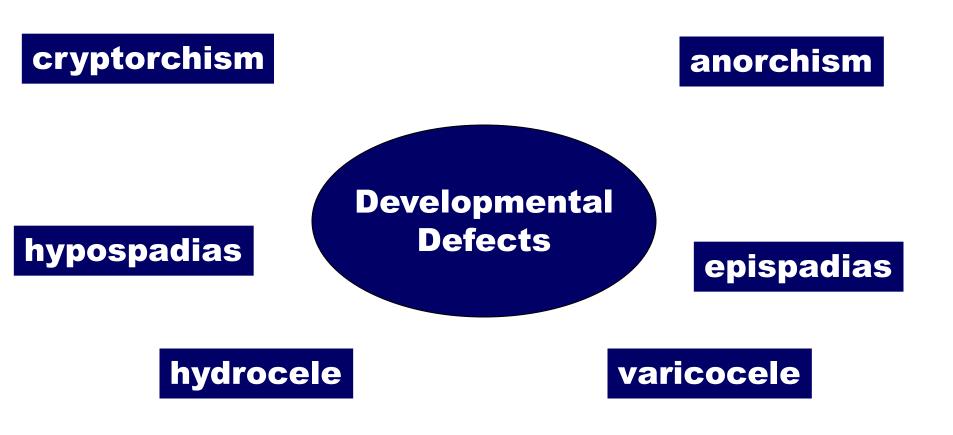
Sonogram

•May be used during needle biopsies of the testicles or prostrate



NOTE: Hormone replacement is given to males who have a deficiency of male hormones

Pathological Terms





aspermia

Pathological Terms

Inflammatory Conditions

Other Conditions

Prostatitis

 inflammation of the prostate

Balanitis

 inflammation of the glans penis

Epididymitis

 inflammation of the epididymis

Peyronie's disease

•curvature of the penis due to a hardening in the interior penis structure

Seminoma

 common tumor of the testicles

Chancroids

venereal sore
 caused by a
 bacterial infection



The most common surgery of the male reproductive system is circumcision.



Other Procedures

- Epididymectomy
- Prostatectomy
- Orchiectomy

•Vasectomy

NOTE: The reversing of a vasectomy is called a vasovasostomy



Medications are given for the following reasons:

- Hormone replacement therapy
- To restore sexual function
- To build muscle mass

Apply Your Knowledge

Harry, age 57 will have a bilateral orchidectomy. Which of the following effects from this surgery should be expected?

A. Failure to urinate

B. Failure to produce sperm

C. Increased sperm retention

Answer: B. Failure to produce sperm

Apply Your Knowledge

Marsha and Bill have just given birth to a stillborn child with numerous genetic defects. After several tests and counseling, the couple is informed that the sperm was defective.

Which part of the sperm most likely was faulty?

A. head

Answer: A. head

B. tail

C. flagellum

Apply Your Knowledge

Starting with the production of sperm in the testes, trace the path that sperm will travel by filling in the blanks.

testes expulsion from the body sperm urethra epididymis prostate gland vas deferens ninal vesicles ejaculatory duct