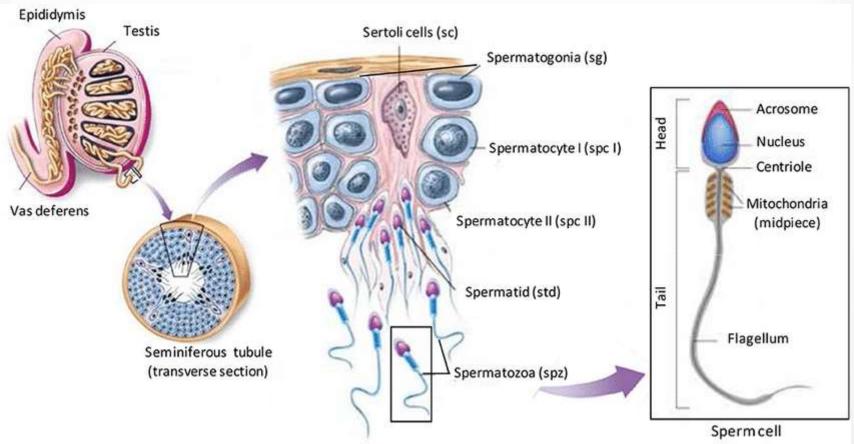
Hormones in the Male Reproduction System

Unlike other animals, humans can CHOOSE when they want to reproduce.



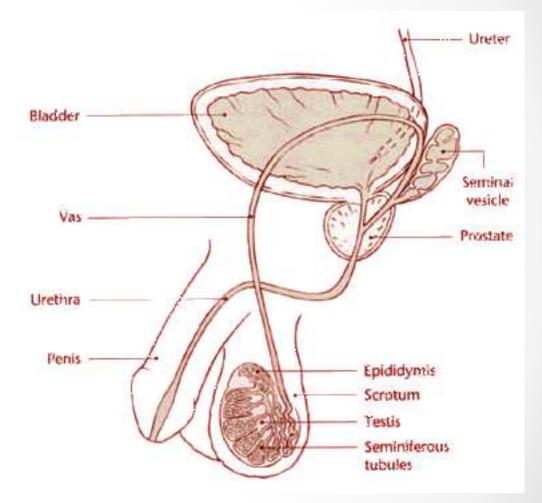
EQ: Why is it important to have a negative feedback loop in testosterone production?

What is the difference between the urethra and a garden hose?

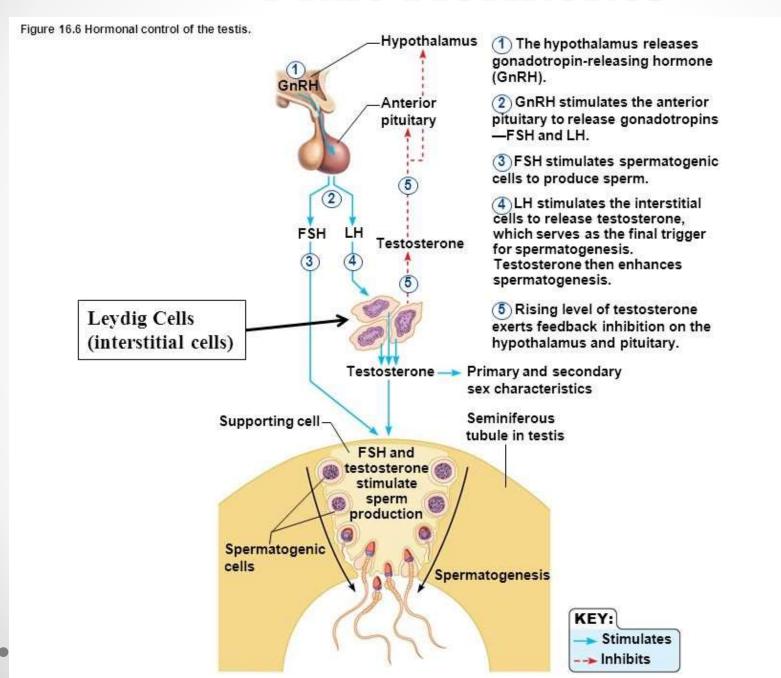
There is a vas deferens....

Testes - make sperm via meiosis. The testes are also responsible for produces testosterone, the male hormone.

Testosterone is responsible for many of the "male" characteristics.



Male Hormones



Actions of Testosterone

Women have this too.... Just in smaller amounts

- In Embryo Differentiation of male reproductive organ (occurs before 6 weeks)
- In Puberty Develop male secondary sex characteristics
- Spermatogenesis
- Negative Feedback (GnRH and LH)
- Protein Anabolism
- Behavior: sex drive (libido)
 - May affect aggressive behavior
- Stimulates red blood cell production by way of kidney hormone production
- Bone growth

Epididymus - collects mature sperm which is eventually propelled through the vas deferense

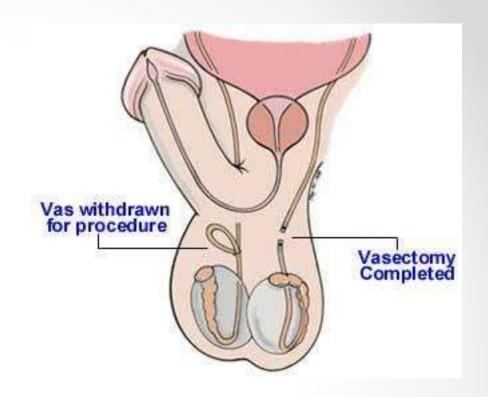
Vas deferens -sperm travel through this tube, joins with urethra

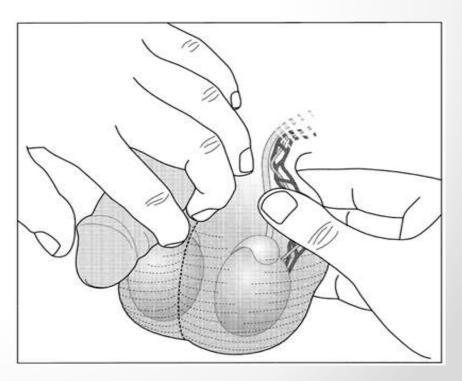
Vasectomy Animation

Vasectomy - the tube is cut to prevent sperm leaving (and fertilizing an egg)

 No Scalpel Vasectomy - Actual Procedure

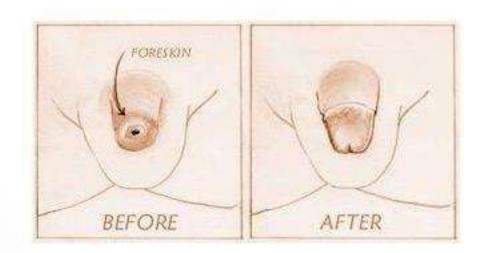
This procedure can be done right in the doctor's office

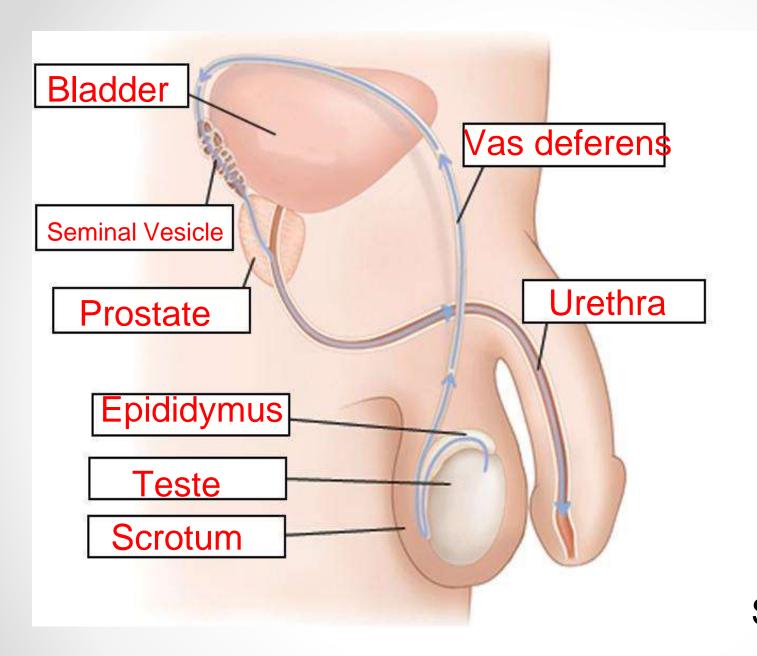




Circumcision

Boys are born with a hood of skin, called the <u>foreskin</u>, covering the head (also called the glans) of the penis. In circumcision, the foreskin is surgically removed, exposing the end of the penis.





WORD BANK

Vas deferens

Scrotum

Urethra

Prostate

Epididymus

Bladder

Teste

Seminal Vesicle

Composition of Sperm

COMPONENT	FUNCTION	SOURCE
Sperm	Gametes	Seminiferous tubules
Mucus	Lubricant	Bulbourethral glands
Water	Provides liquid medium	All accessory glands
Buffers	Neutralize acidic environment of the vagina	Prostate, bulbo- urethral glands
Nutrients	Nourish sperm	
Fructose		Seminal vesicles
Citric acid		Prostate
Vitamin C		Seminal vesicles
Carnitine		Epididymis
Enzymes	Clot semen in vagina, then liquefy the clot	Seminal vesicles and prostate
Zinc	Unknown; possible association with fertility	Unknown
Prostaglandins	Smooth muscle contraction; may aid sperm transport	Seminal vesicles