

PUBERTY AND CLIMACTERIC

ENDOCRINE CONTROL OF PUBERTY

Reproductive function is controlled by **hormonal links** between the hypothalamus and pituitary from childhood to adulthood. The first symptoms of puberty is the enlargement of the testes. FSH induces sustentacular cells to secrete **gonado-stimulating hormone**, and LH is often referred to as **interstitial cell-stimulating hormone (ICSH)**.

AGING AND SEXUAL FUNCTION

Testosterone secretion peaks at about **1 mg/day** at age 20 and declines by age 60. There is a corresponding decline in the number and activity of spermatocytes existing in the interstitial cells. As testosterone and testin levels decline, so does the feedback inhibition of the pituitary. FSH and LH levels **rise** after age 50 and produce changes called **male climacteric** - few have noted changes, hot flashes, and rhotions of pubescence because of this.

MEIOSIS

MEIOSIS I	MEIOSIS II
EARLY PROPHASE I - Chromatin condenses to form visible chromosomes; each chromosome has 2 chromatids joined by a centromere. MID TO LATE PROPHASE I - Homologous chromosomes form pairs called tetrads. Chromatids often break and exchange segments (crossing over). Centrioles produce spindle fibers. Nucleus envelope disappears. METAPHASE I - Tetrads align on equatorial plane of cell with centrioles attached to spindle fibers.	PROPHASE II - Nuclear envelopes disintegrate; again, chromosomes still consist of 2 chromatids. Spindle forms. METAPHASE II - Chromosomes align on equatorial plane. ANAPHASE II - Centromeres divide; sister chromatids migrate to opposite poles of cell. Each chromatid now constitutes a single-stranded chromosome.

COMPLETE MALE REPRODUCTIVE SYSTEM

PHYSIOLOGY STUDY GUIDE

• It plays a role in **male attraction**.
In males - **pubic, axillary, facial hair**, lower pitched voice -

ROLE OF THE SEX CHROMOSOMES

Our cells have **23 pairs** of chromosomes - **22 pairs** of autosomes
1 pair of sex chromosomes

The sex chromosome can either be a **large X chromosome** or a **small Y chromosome**. Every egg contains an X chromosome. Half of the sperm carry an X, while the other half carry a Y. The sperm will determine the sex of the offspring.

XX - female

• The **epididymus** is a structure that connects the testis to the vas deferens. It is a long, thin, coiled tube that is about 10 cm long and 1 mm in diameter.

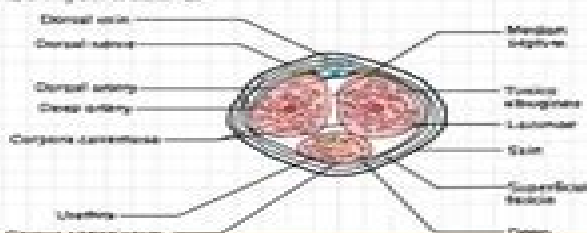
5. The **epididymus** - During intercourse, they produce a clear slippery fluid that lubricates the head of the penis for intercourse.

PODS

Each sperm is **acrosome** in the region half of it is an internal tail and half is the externally visible shaft and glows when lit. The typical dimensions of a sperm are 15-18 cm long and 4 cm in diameter.

The sperm is the extended head at the distal end of the penis with the external opening at its tip. The skin is very loosely attached to the shaft allowing expansion during erection.

The penis mainly consists of **three spongy bodies**, called **erectile tissue**, which fill with blood during sexual intercourse.



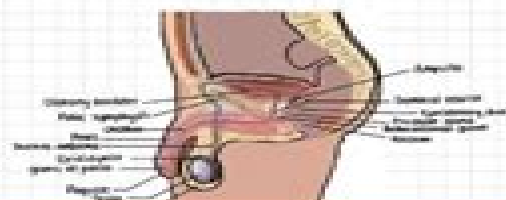
TESTES

Each testis is **oval**, about 4 cm long and 2.5 cm in diameter. The anterior and lateral surfaces are covered by the **tunica albuginea**, a thick, white, fibrous capsule that is about 1 mm thick. The testis is divided into two halves by a **median raphe**. The testis is divided into 200-300 wedge-shaped lobules. Each lobule contains one or more **seminiferous tubules** - structures that are up to 10 cm long in which sperm is produced.

SCROTUM

The scrotum is covered by a **thin, wrinkled** skin, the **scrotum**. The skin is usually **thinner** than the right, so the two are not completely symmetrical. The right testis is usually **higher** than the left.

One of the scrotum has **sebaceous glands**, which secrete a **white, waxy** substance, and **eccrine** glands, which secrete **sweat**. The scrotum is a **fold of skin** that has been a **fold of skin** since it was first formed.



Human Anatomy Male Reproduction System Study Guide

S Ashworth



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