



JOSE MARIA COLLEGE
Philippine-Japan Friendship Highway, Sasa, Davao City
COLLEGE OF ALLIED HEALTH SCIENCE EDUCATION
Medical Technology Program
HUMAN ANATOMY AND PHYSIOLOGY



MODULE NO. 14
MALE REPRODUCTIVE SYSTEM

Learning objectives:

1. Identify and describe the gross anatomy of the male reproductive organ
2. Describe the anatomical and histologic structure of the testes
3. Describe the gross anatomy of sperm cell

Learning resources:

1. Visual presentation

Discussion:

The male reproductive system consists of the **testes**, a series of ducts, accessory glands, and supporting structures. The ducts include the **epididymis**, the **ducta deferentia** (sing. ductus deferens; also vas deferens), and the **urethra**. Accessory glands include the **seminal vesicles**, the **prostate gland**, and the **bulbourethral glands**. Supporting structures include the **scrotum** and the **penis**.

The testes and epididymis, in which the sperm cells develop, are located outside the body cavity in the **scrotum**. The ducta deferentia lead from the testes into the pelvis, where they join the ducts of the seminal vesicles to form the ampullae. Extensions of the ampullae, called the **ejaculatory ducts**, pass into the prostate and empty into the urethra within the prostate. The urethra, in turn, exits the pelvis and passes through the penis to the outside of the body.

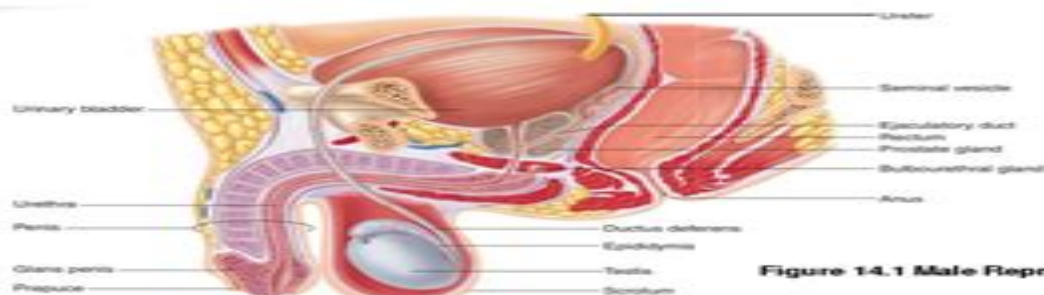


Figure 14.1 Male Reproductive System

Scrotum

The **scrotum** is a saclike structure that contains the testes. It is divided into two internal compartments by an incomplete connective tissue **septum**. Externally, the scrotum is marked in the midline by an irregular ridge, the **raphe**, which continues posteriorly to the anus and anteriorly onto the inferior surface of the penis. The outer layer of the scrotum includes the skin, a layer of superficial fascia consisting of loose connective tissue, and a layer of smooth muscle called the **dartos muscle**.

The **cremaster muscles**, which are extensions of abdominal muscles into the scrotum, contract and help pull the testes nearer the body, which helps keep the testes warm. The response of the dartos and cremaster muscles is important because sperm cells are very temperature-sensitive and do not develop normally if the testes become too warm or too cool.

Holes Lab Manual Male Reproductive System

John W. Hole



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