

Testes are the male reproductive glands or organs. It is paired small, oval, pink coloured bodies. It is situated outside the abdominal cavity and inside the scrotum. It is about 4.5cm long, 2.5cm wide and 3cm thick. It is about 10 to 15gm in weight.

## Structure of Testes

- 1. Covering of testis: The testes are covered by three layers of tissues.
  - Tunica vaginalis: It is outer layer of testes formed by serous membrane.
  - Tunica albuginea: It is middle layer of testes formed by fibrous tissue.
  - **Tunica vasculosa**: It is inner layer of testis formed by connective tissue, and rich in blood vessels.
- 2. Glandular part of testis (internal structure): Each testis consists of 200 to 300 lobules. Each lobule contains 1 to 4 highly coiled loops called seminiferous tubule. In between seminiferous tubule lies the Interstitial cells (cells of Leydig). These cells secrete testosterone and a small amount of oestrogen.

Male reproductive System/Prepared By: Dr.C K Singh



Urethra is extends from the internal urethral orifice at bladder to the external urethral orifice at the tip of penis. It serves as a common passage for urine and semen. It is also called urino-genital canal. The length male urethra is about 18 to 20 cm.

Male reproductive System/Prepared By: Dr.C K Singh

Page 2 of 4

| EPIDIDYMIS   |
|--|
| Epididymis is an important part of the male reproductive system. It is a firm structure lying      |
| posterior to the testis with vas deferens lying on its medial side. It is in the form of a narrow, |
| coiled tube connecting the efferent ducts from the near of each testis to its vas deferens.        |
| Functions of epididymis  |
| 1. It stores sperm.  |
| 2. It transports spermatozoa from testes to vas deferens.  |
| VAS DEFERENS   |
| Vas deferens is thick walled tube that conveys mature sperm from the epididymis to the             |
| ejaculatory duct. It is about 45cm long, 3mm diameter and 1mm thick, arising from the lower        |
| end of the epididymis.   |
| Function of vas deferens   |
| • It transports spermatozoa from epididymis to ejaculatory duct.                                   |
| SPERMATIC CORD   |
| Spermatic cord suspends the testes in the scrotum. Each spermatic cord is composed of              |
| fibro connective tissue and smooth muscle contained:   |
| Testicular artery Testicular vein  |
| Lymph vessels Nerves   |
| • Vas deferens (Ductus deferens)   |
| Functions of spermatic cord  |
| 1. It suspends testes in the scrotum.  |
| 2. It gives passage for different structures.  |
| SEMINAL VESICLES   |
| Seminal vesicles are two small fibro muscular pouches. They are situated in lower abdomen          |
| on either side of prostate.  |
| Functions of seminal vesicles  |
| 1. It secretes mucin.  |
| 2. These secretions provide nutrition of sperm and clotting of sperm.                              |
| EJACULATORY DUCT   |
| The ejaculatory ducts are two short tubes about 2cm in length. They pass through the               |
| prostate gland and join the prostatic urethra. It carries seminal fluid and spermatozoa to the     |
| urethra.   |
| PROSTATE GLAND   |
| Prostate gland is an accessory gland of male reproductive system. It lies in the pelvic cavity     |
| in front of rectum and behind the symphysis pubis.   |
| Functions of prostate gland  |
| 1. It secretes prostatic fluid.  |
| 2. The prostatic fluids help in clotting of semen.   |
| SEMEN  |
| Semen is a whitish fluid produced in the male reproductive organs. Each ejaculation                |
| discharges about 2-3 ml of semen with 200-300 million of sperms.                                   |
| Compositions of semen  |
| • Sperms 10%   |
| • Products from seminal vesicle 60%  |
| • Products from prostate gland 30%   |
| Male reproductive System/Prepared By: Dr.C K Singh Page <b>3</b> of <b>4</b>                       |



7. Growth of axillary hair, pubic hair, hair on the face, chest, abdomen.

8. Mental inclination to the opposite sex.

Male reproductive System/Prepared By: Dr.C K Singh

Page 4 of 4