

The Reproductive System

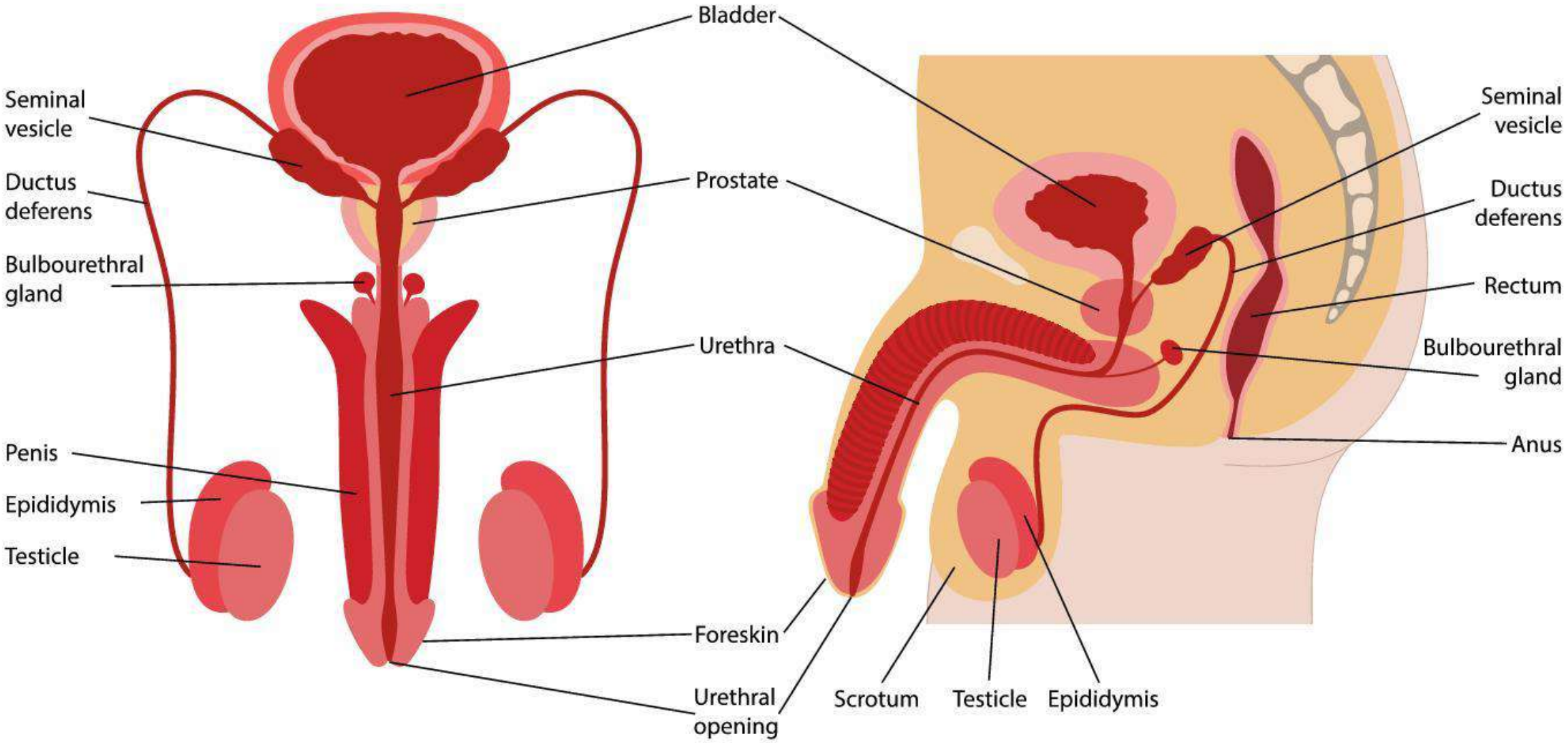




Learning objectives

- Structure and function of the male reproductive system
- Structure and function of the female reproductive system
- Stages of the reproductive cycle: menstruation and pregnancy
- Diseases & disorders

Male reproductive system



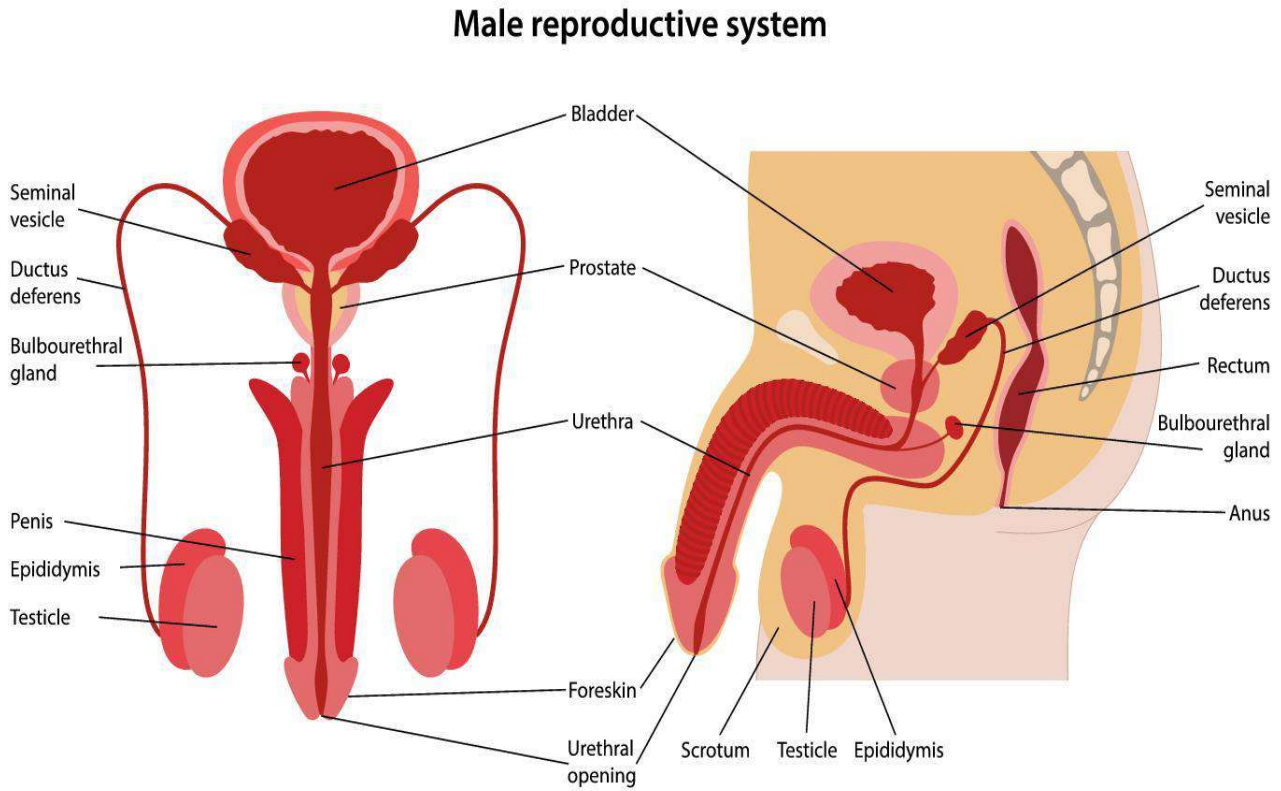
Male reproductive system

Prostate gland

- Between bladder and rectum
- Produces secretions

Testes

- Glands (gonads) within scrotum
- Produce sperm



Testicular vessels

1. Epididymis – coiled tube to transport sperm
2. Vas deferens – duct to transport sperm from epididymis to urethra

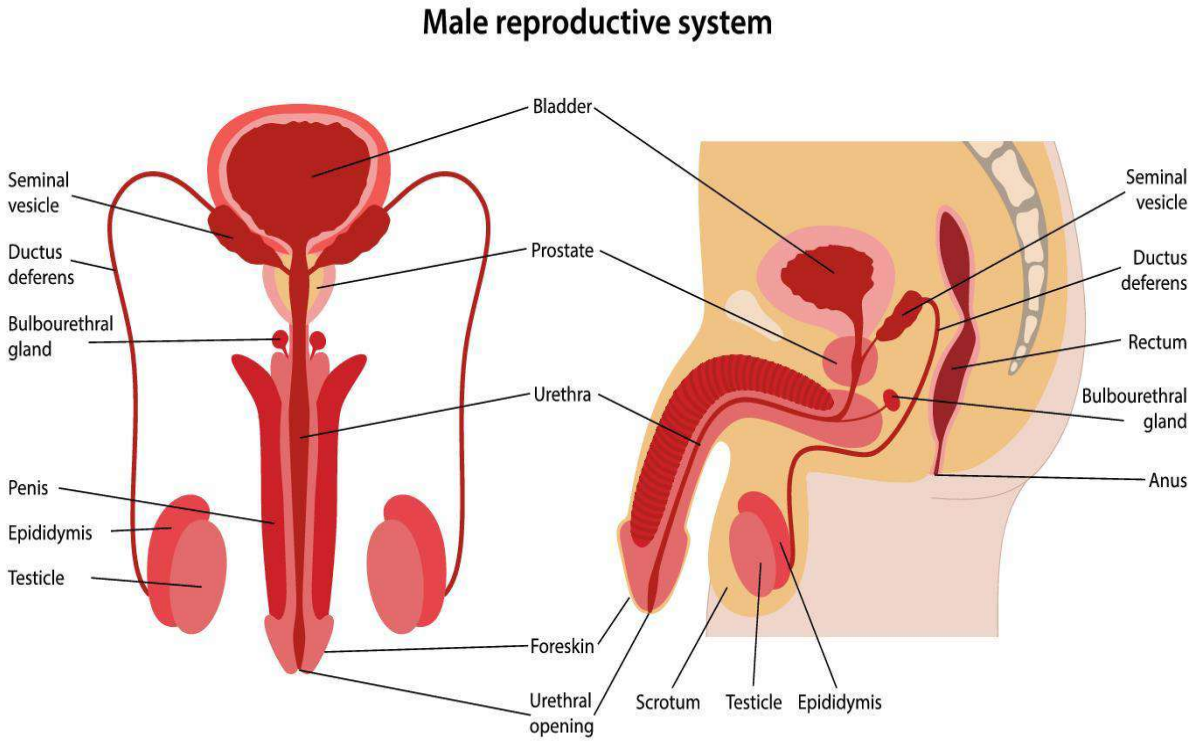
Male reproductive system

Scrotum

- Sac contains testes, epididymis and vas
- Support & protect testes, maintain temperature

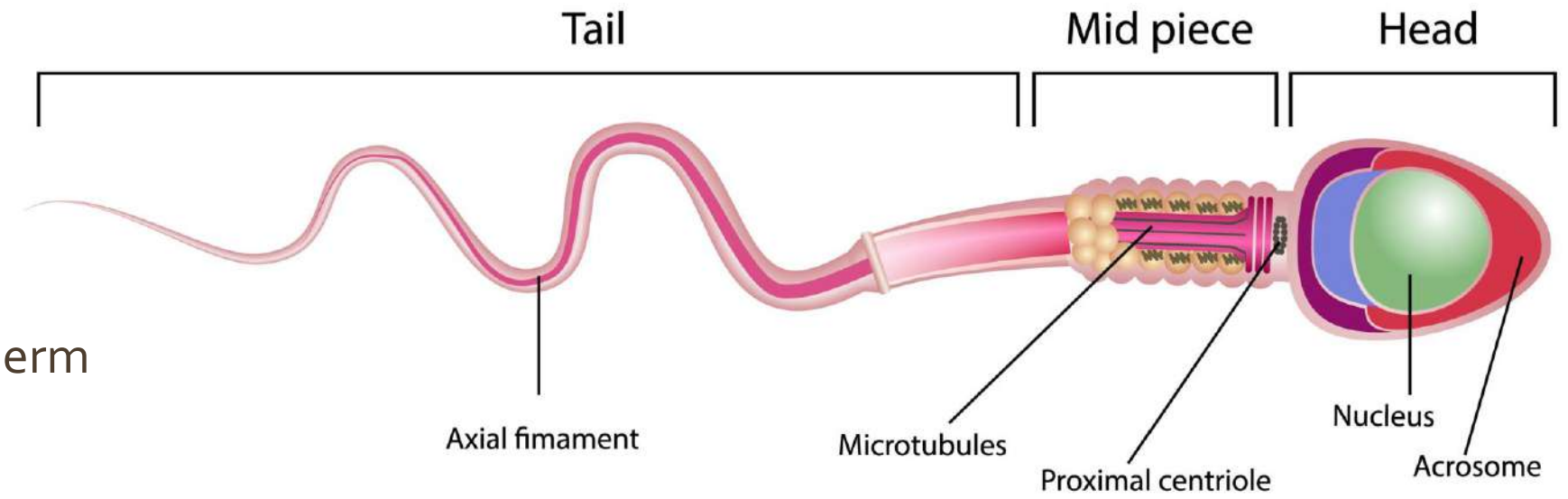
Penis

- External sex organ – erectile tissue, foreskin, glans
- Excretion, reproduction



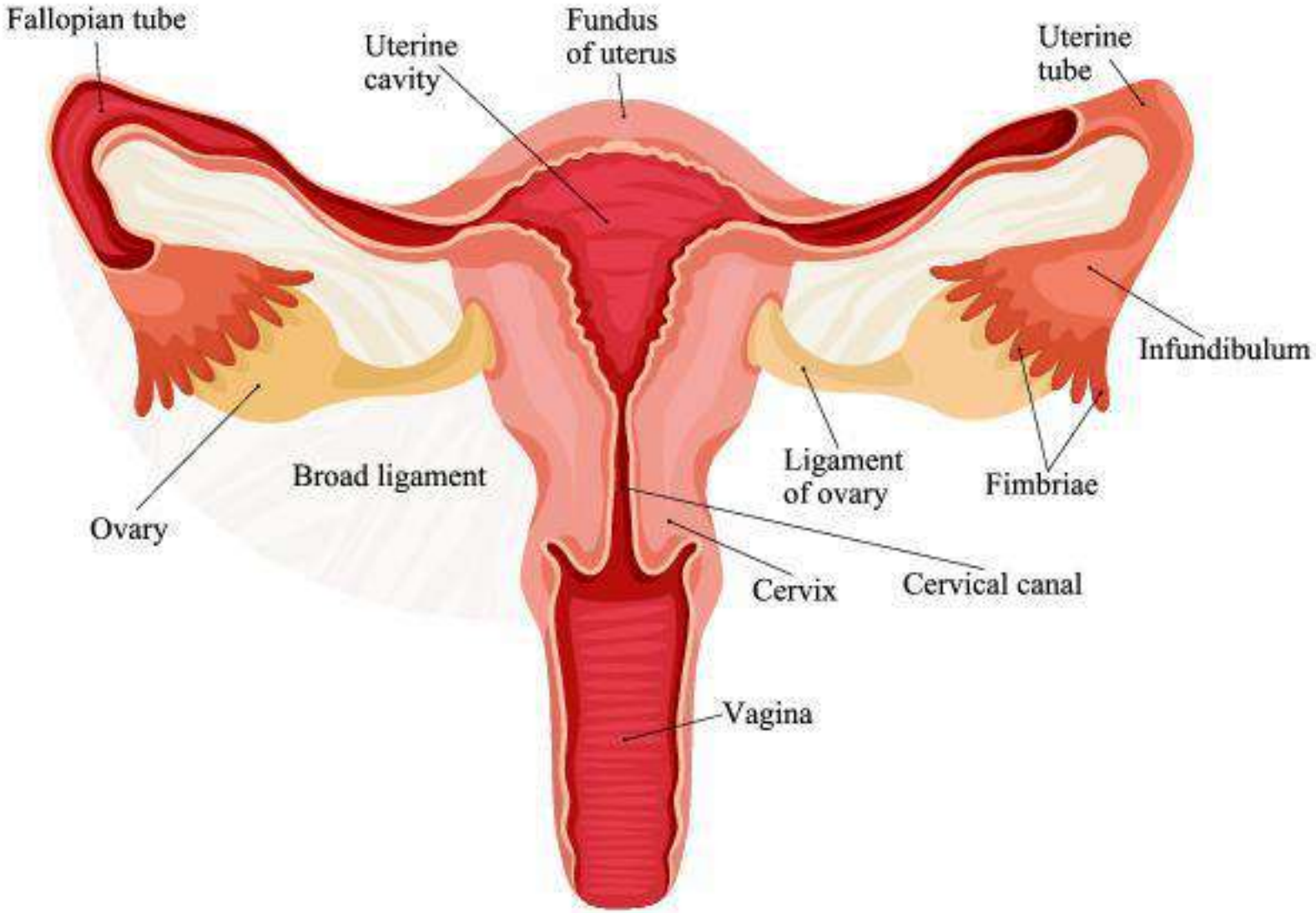
Male reproductive system

- **Head** – nucleus, 23 chromosomes
- **Tail** – allows "swimming"
- **Function**: Fertilises ova



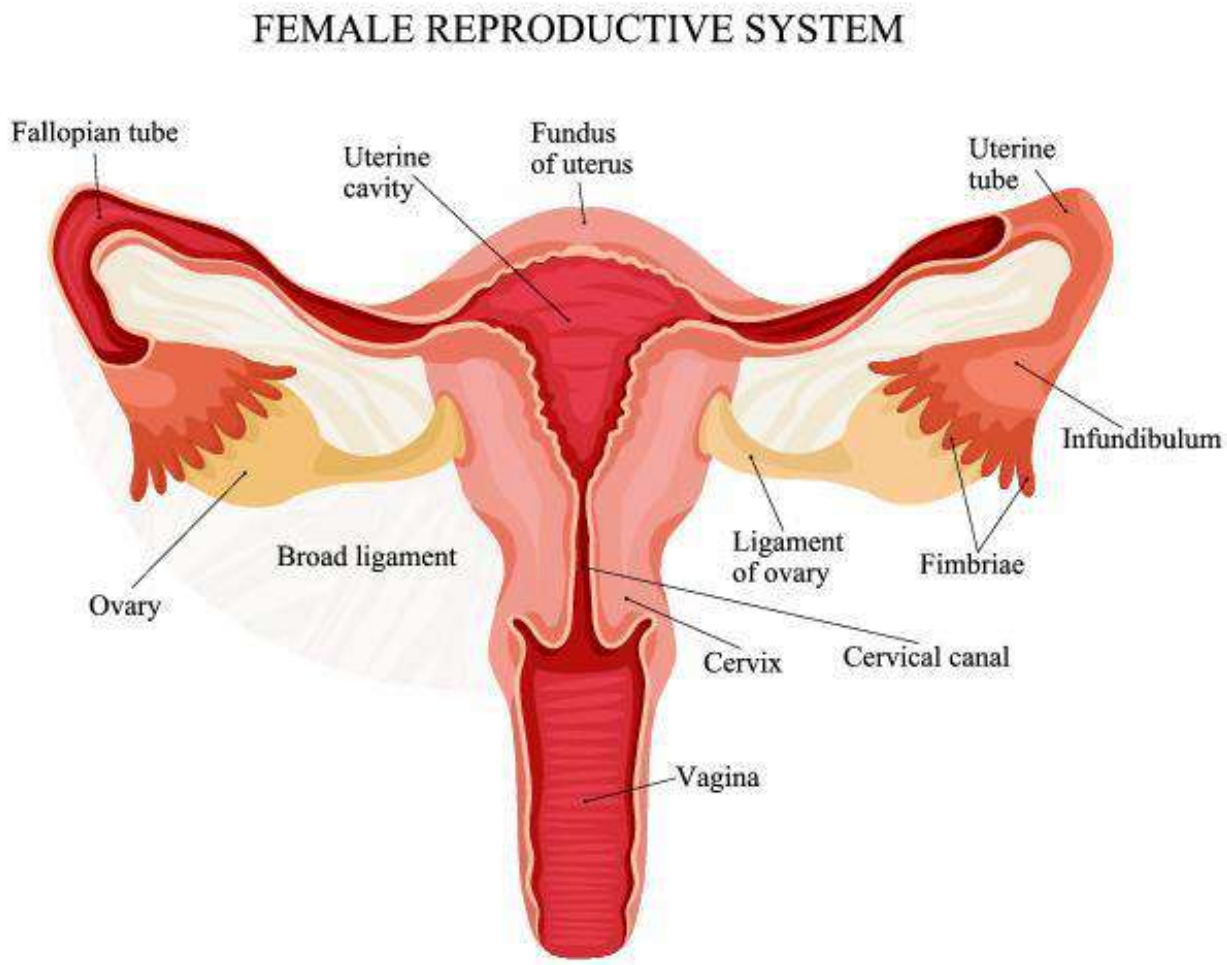
- **Semen**: Contains sperm and secretions

FEMALE REPRODUCTIVE SYSTEM



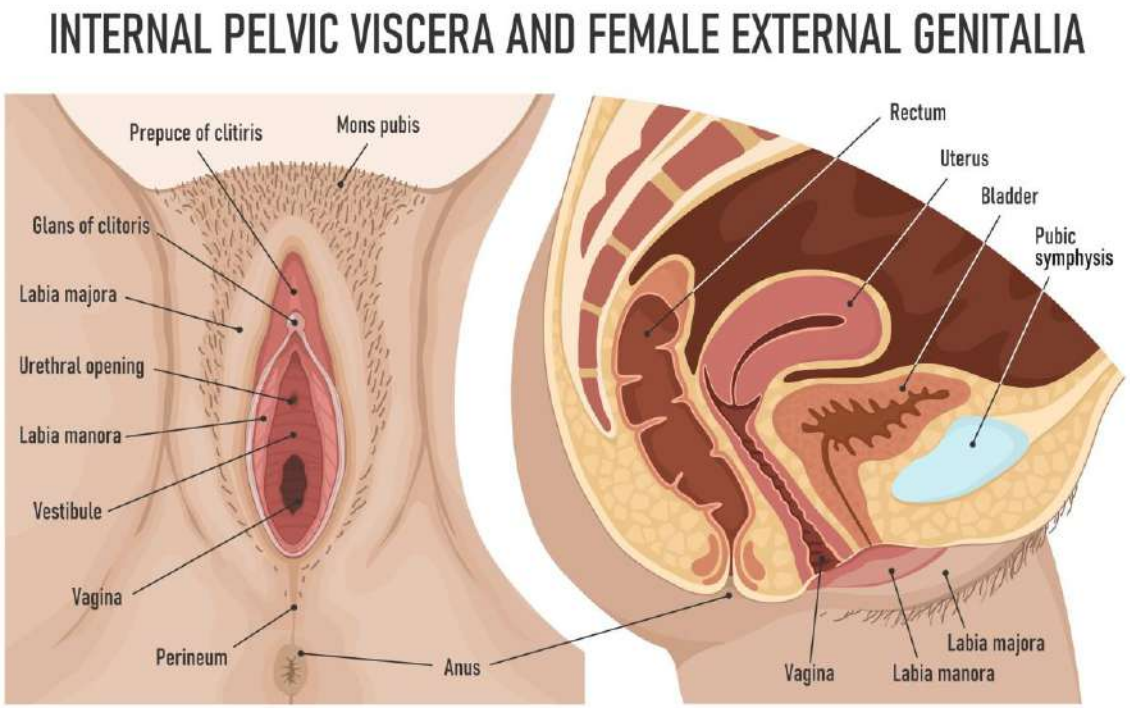
Female reproductive system

- Uterus (womb)
- Cervix
- Ovaries
- Follicle
- Fallopian tubes
- Vagina

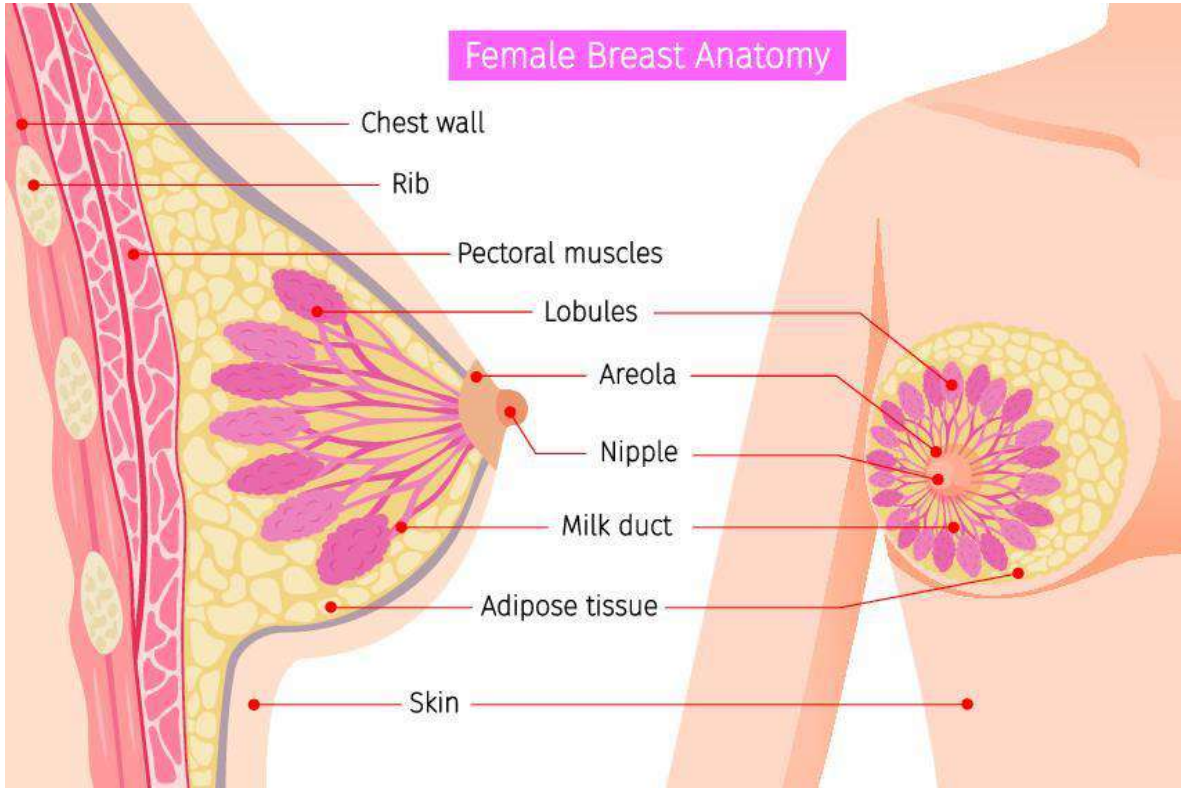


Female reproductive system

Vulva (external organs)



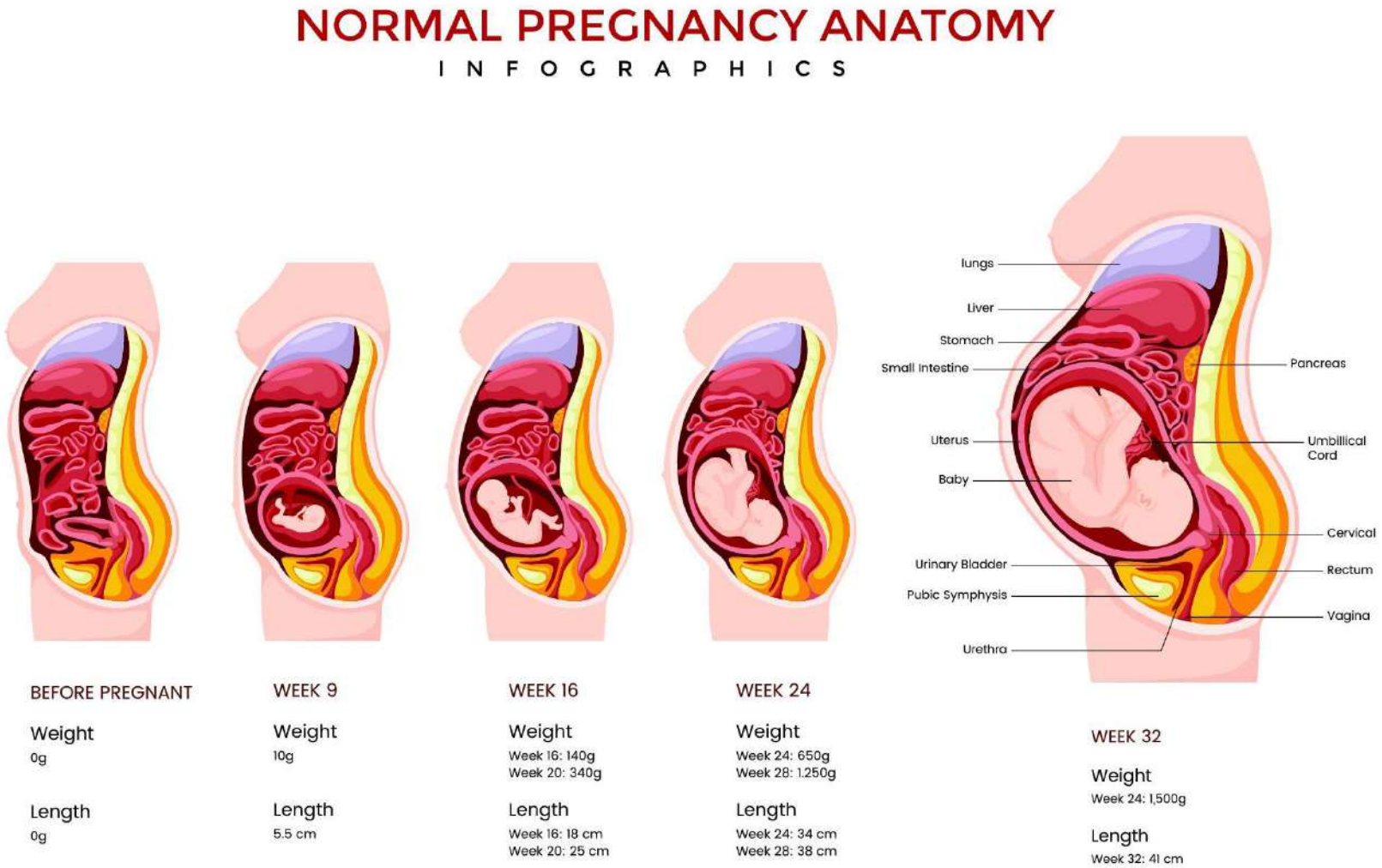
- Breast (accessory organ)



Pregnancy

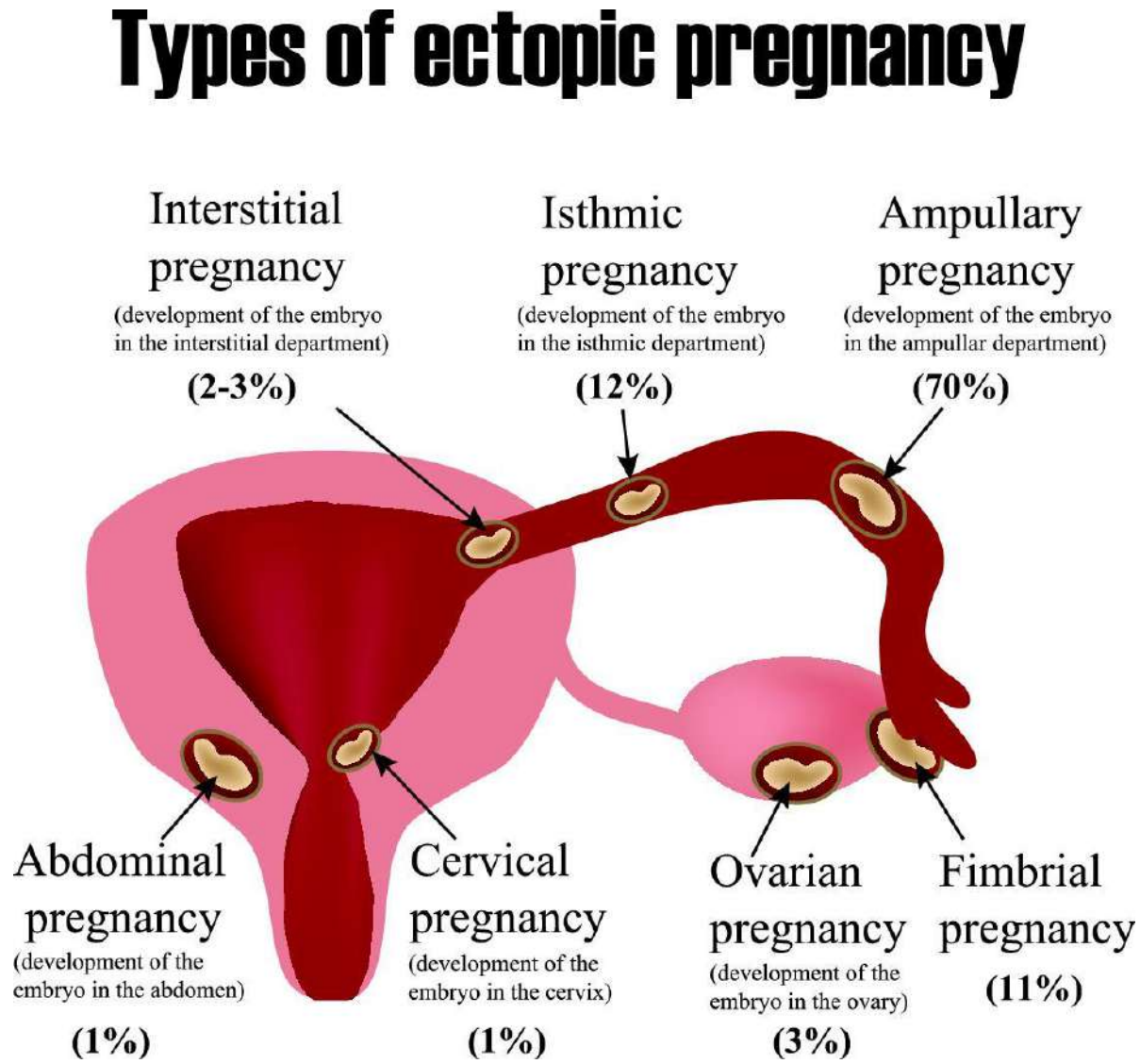
- Stages of pregnancy:

1. Fertilisation
2. Post-fertilisation
3. Cell division
4. Formation of embryo
5. Development of foetus
6. Birth (parturition)



Diseases and disorders

- Ectopic pregnancy
- Dysmenorrhoea
- Pre-menstrual syndrome
- Endometrosis
- Mastitis



Disorders of the male reproductive system

- Prostatitis
- Prostate cancer
- Impotence
- STDs – syphilis, gonorrhoea



Recap

- Male reproductive system
  - Prostate, testes, scrotum, epididymis, vas deferens, urethra, penis
  - Urination, ejaculation
- Female reproductive system
  - Uterus, cervix, fallopian tubes, ovaries, vagina, vulva
  - Menstruation, reproduction, urination

- Menstruation
  - Menstrual (5 days – bleeding), proliferative (7 day – FSH – egg release), secretory (14 days – LH – fertilisation)
- Pregnancy
- Disorders

