Medical Terminology

Lecture 4

First stage

17 /1/ 2026

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The skeletal system

The skeletal system.

- The **skeleton** forms the **framework of the body**, **protects** vital organs, and works with the muscular system to produce **movement**.

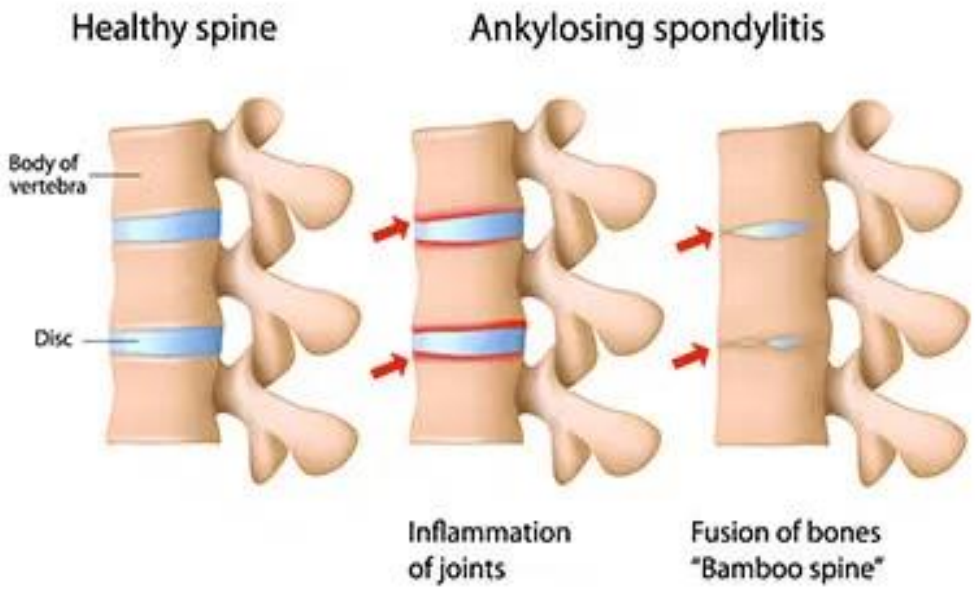
- The human adult skeleton is composed of **206 bones**.

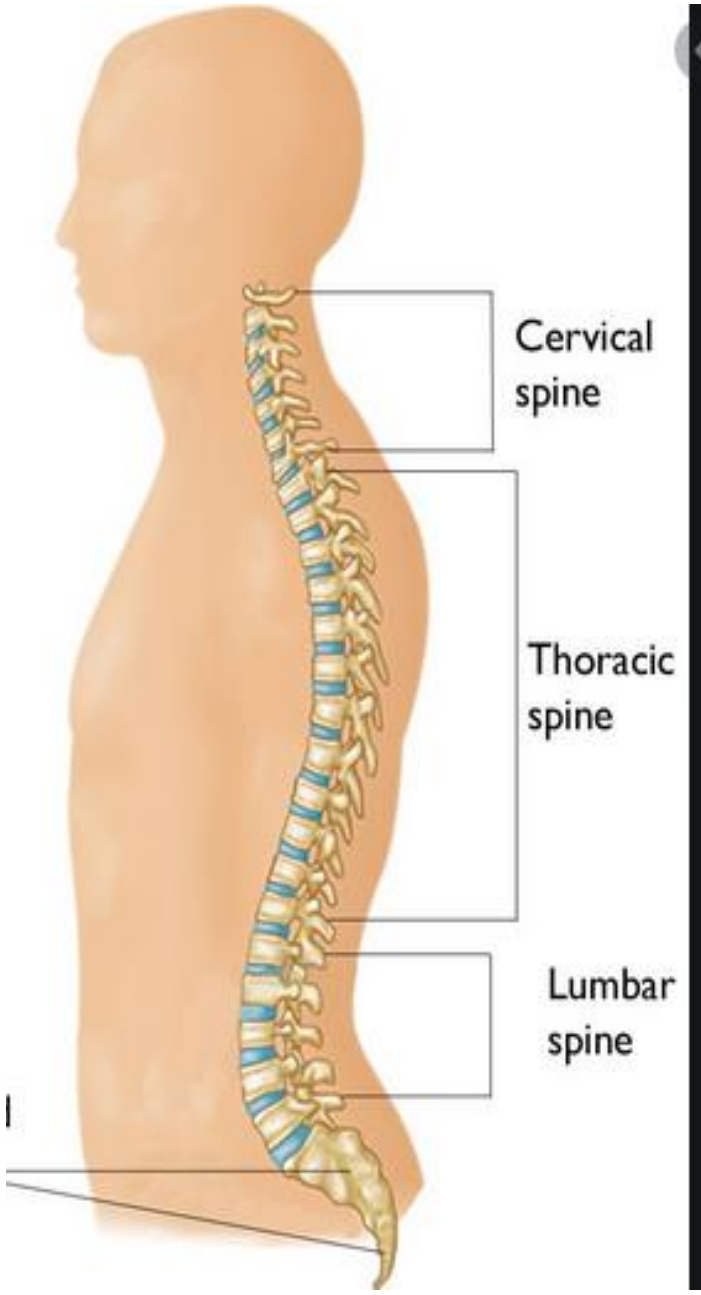


Word parts related to the skeletal system

Word	Part Meaning
-algia	pain
ankyl/o	stiff, fused, closed
arthr/o	joint
cervic/o	neck
chondr/o	cartilage
cost/o	rib
crani/o	skull, cranium
lumb/o	lower back


Cartilage


Healthy spine
Ankylosing spondylitis
Body of vertebra
Disc
Inflammation of joints
Fusion of bones "Bamboo spine"


Cervical spine
Thoracic spine
Lumbar spine

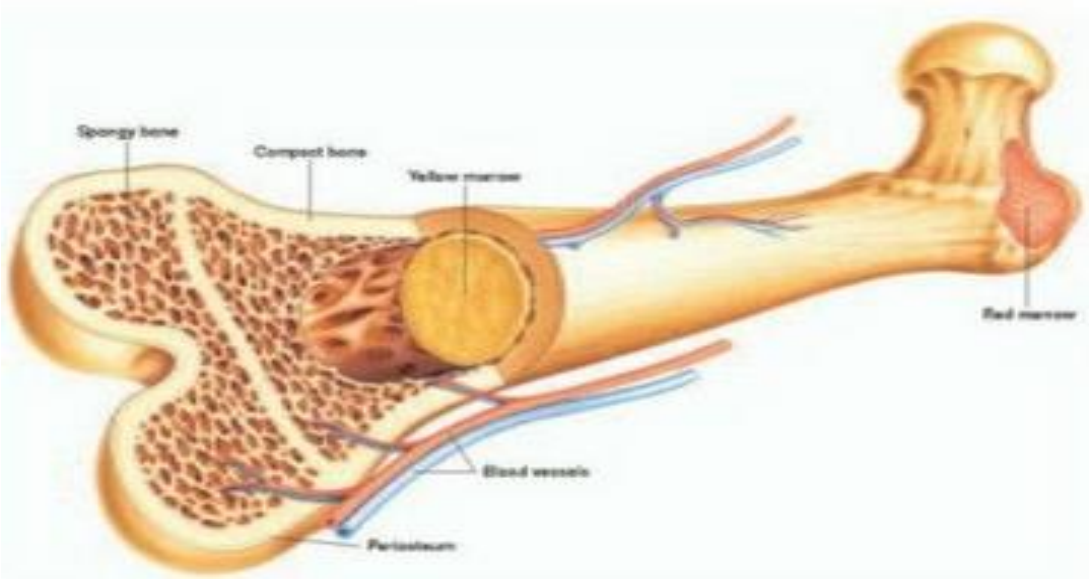
Word	Part Meaning
-malacia	softening
my/o	muscle
myel/o	**bone**marrow
oste/o	bone
ped/o	foot, child
porosis	porous
spondyl/o	vertebrae
vertebr/o	vertebrae



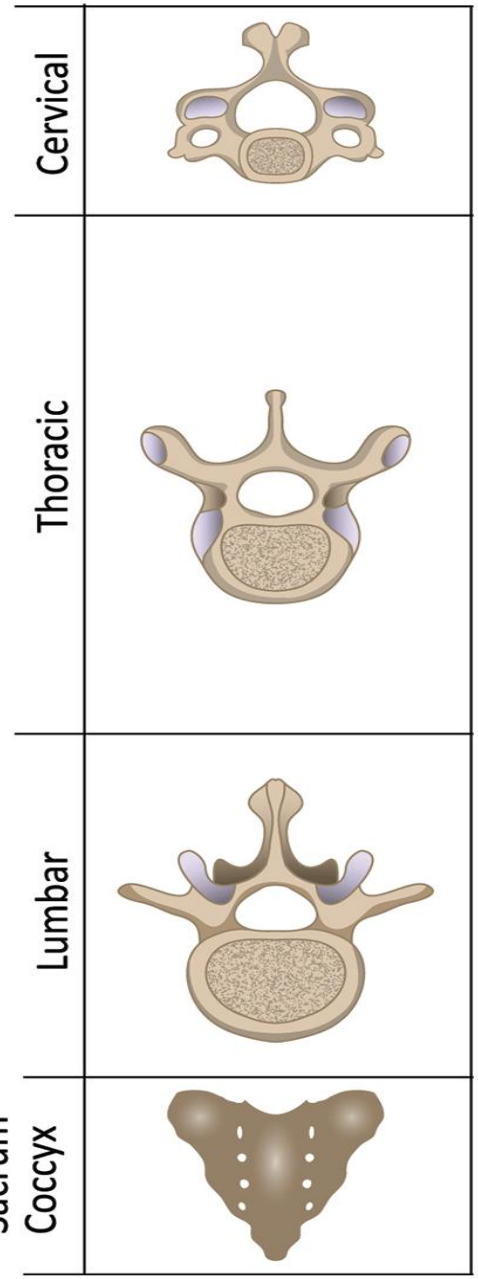
Healthy bone

Osteoporosis

Bone marrow







Disorders related to the skeletal system

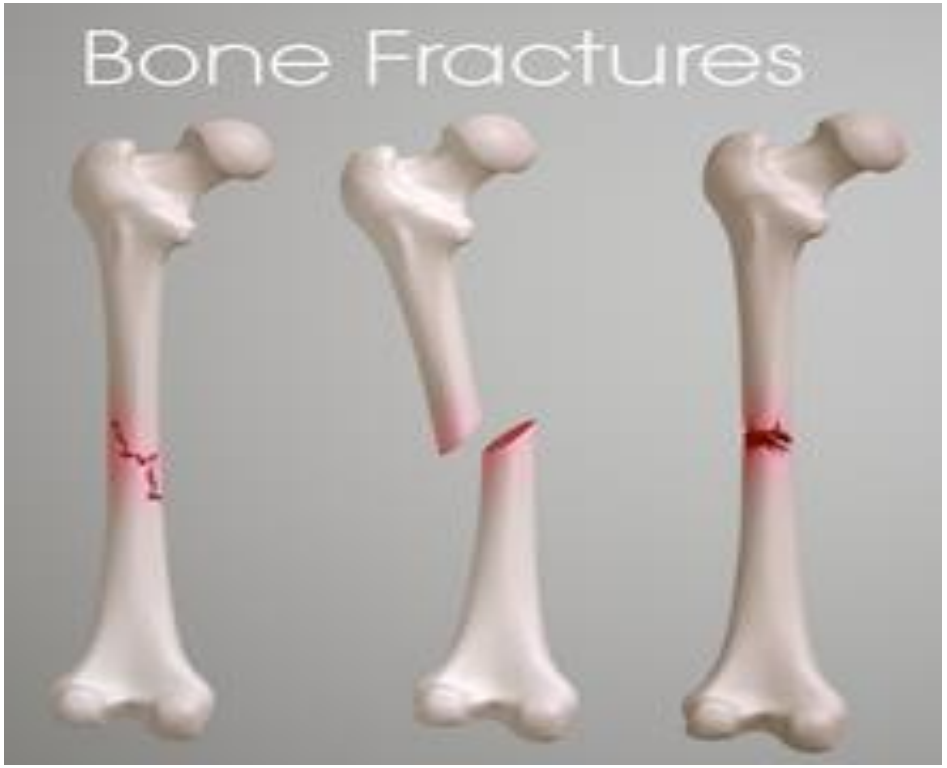
Term	Meaning
Arthralgia	Pain **in a joint.**
Arthritis	**Inflammation of a joint.**
Arthropathy	Any **disorder of a joint.**
Fracture	**Break** in a **bone.**
Gout	A form of **acute arthritis** caused by **deposit of uric acid salts** in the joints.

Arthralgia



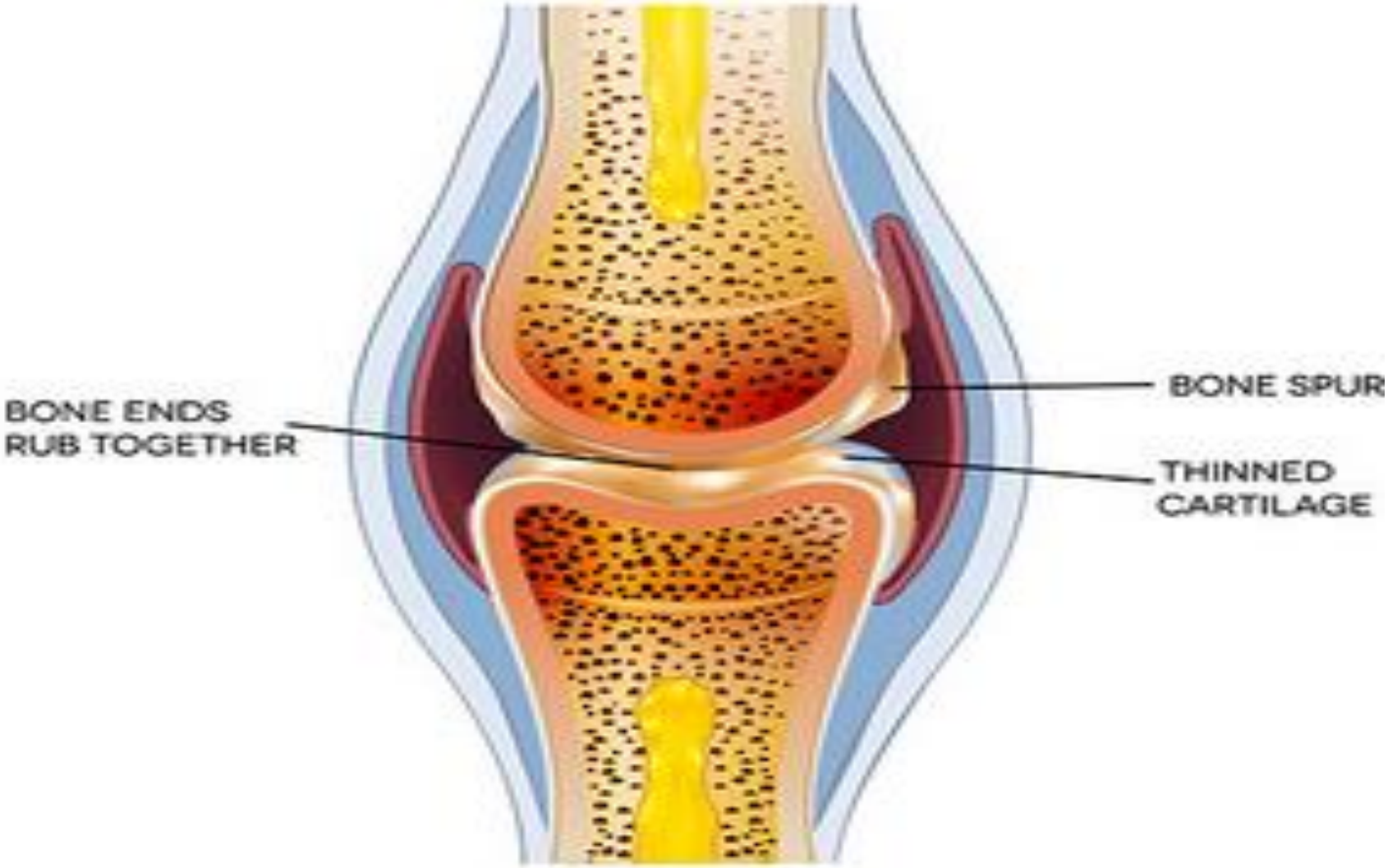
Gout



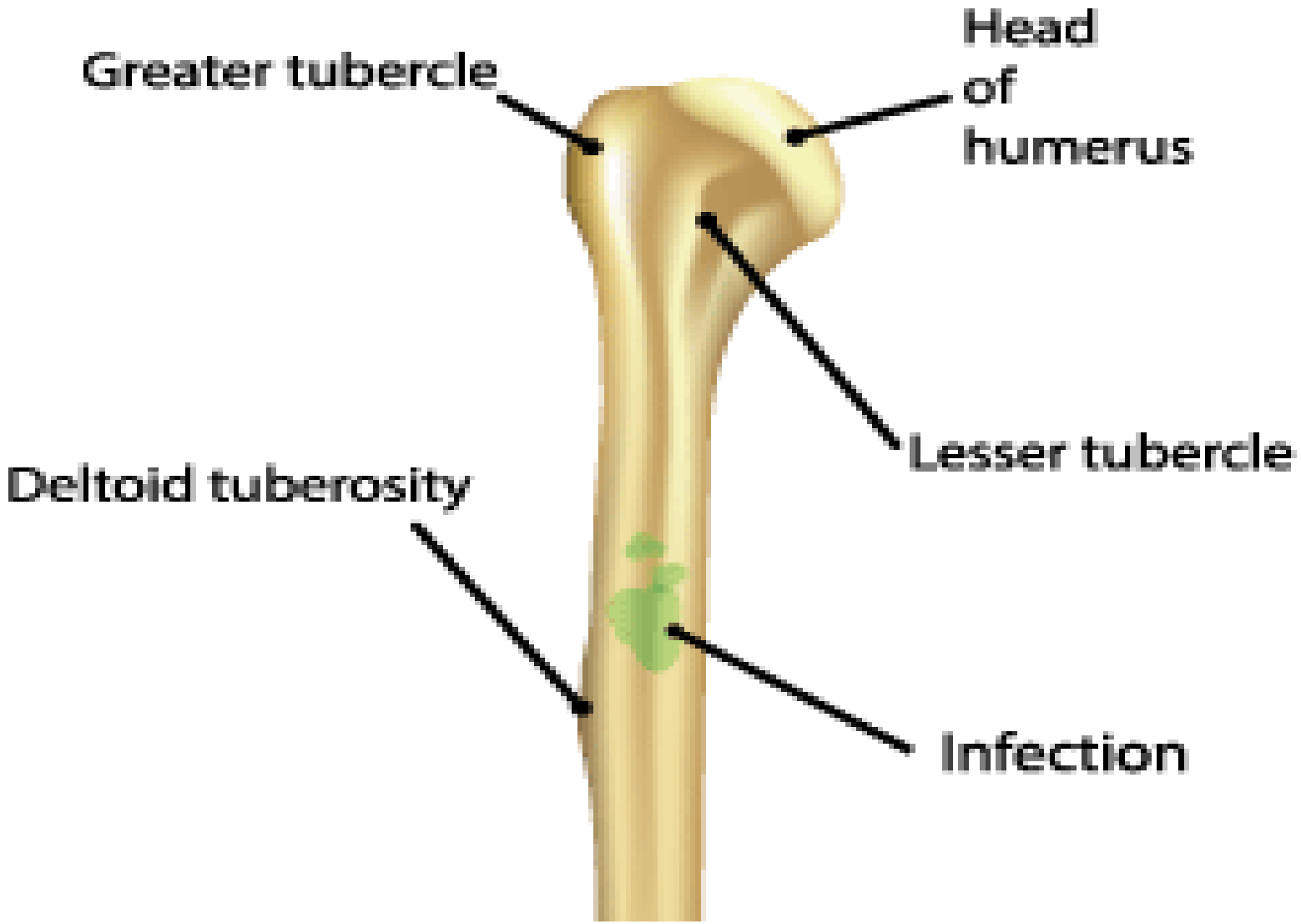


Osteoarthritis (OA)	**Degeneration of joint cartilage and underlying bone** causing pain and stiffness.
Osteomalacia	**Softening** of bone.
Osteomyelitis	**Inflammation of bone and bone marrow** caused by infection, usually **bacterial**.
Osteoporosis	**Atrophy** and **thinning** of bone tissue.

OSTEOARTHRITIS

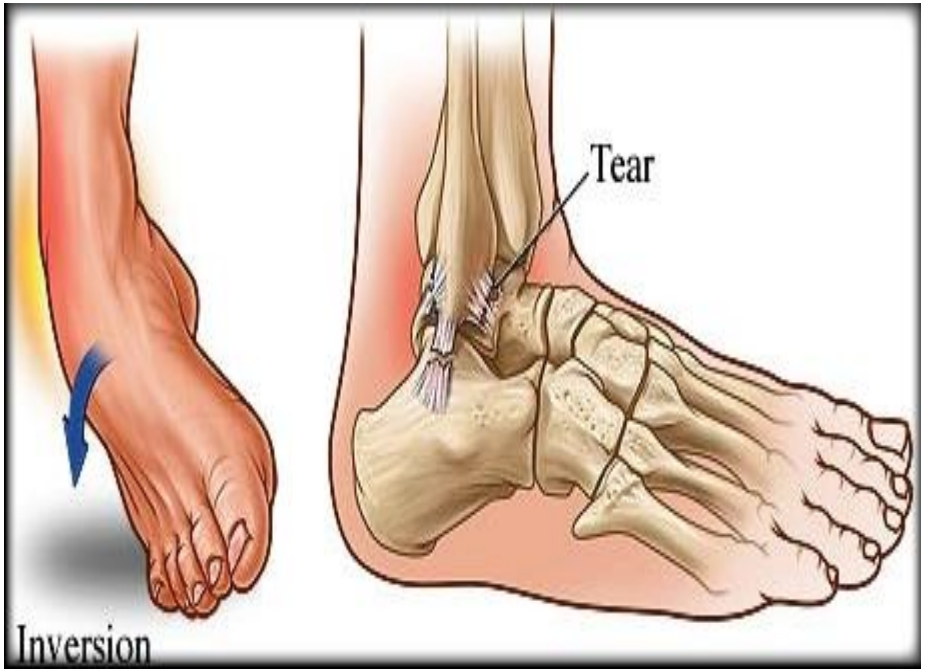


Bone with Osteomyelitis



Rheumatoid arthritis	Chronic **autoimmune** disease characterized by **inflammation of the joints** (especially those of the hands and feet), **stiffness**, **pain**, and **swelling**.
Rickets	**Faulty bone formation in children** usually caused by a deficiency of **vitamin D.**
Sprain	**Injury to a ligament**


Rickets
Symptoms, Causes,
Diagnosis & Treatment

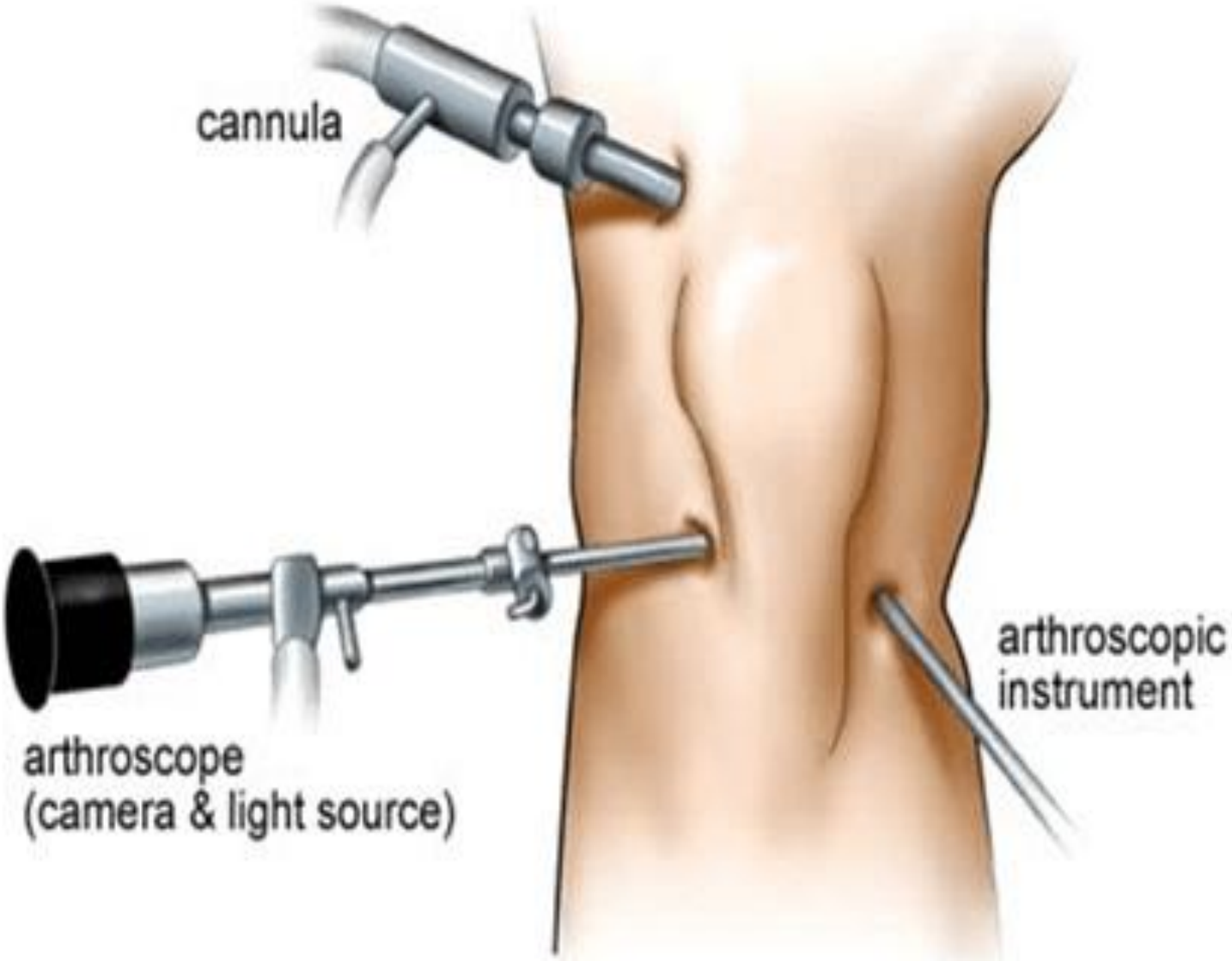

Tear
Inversion

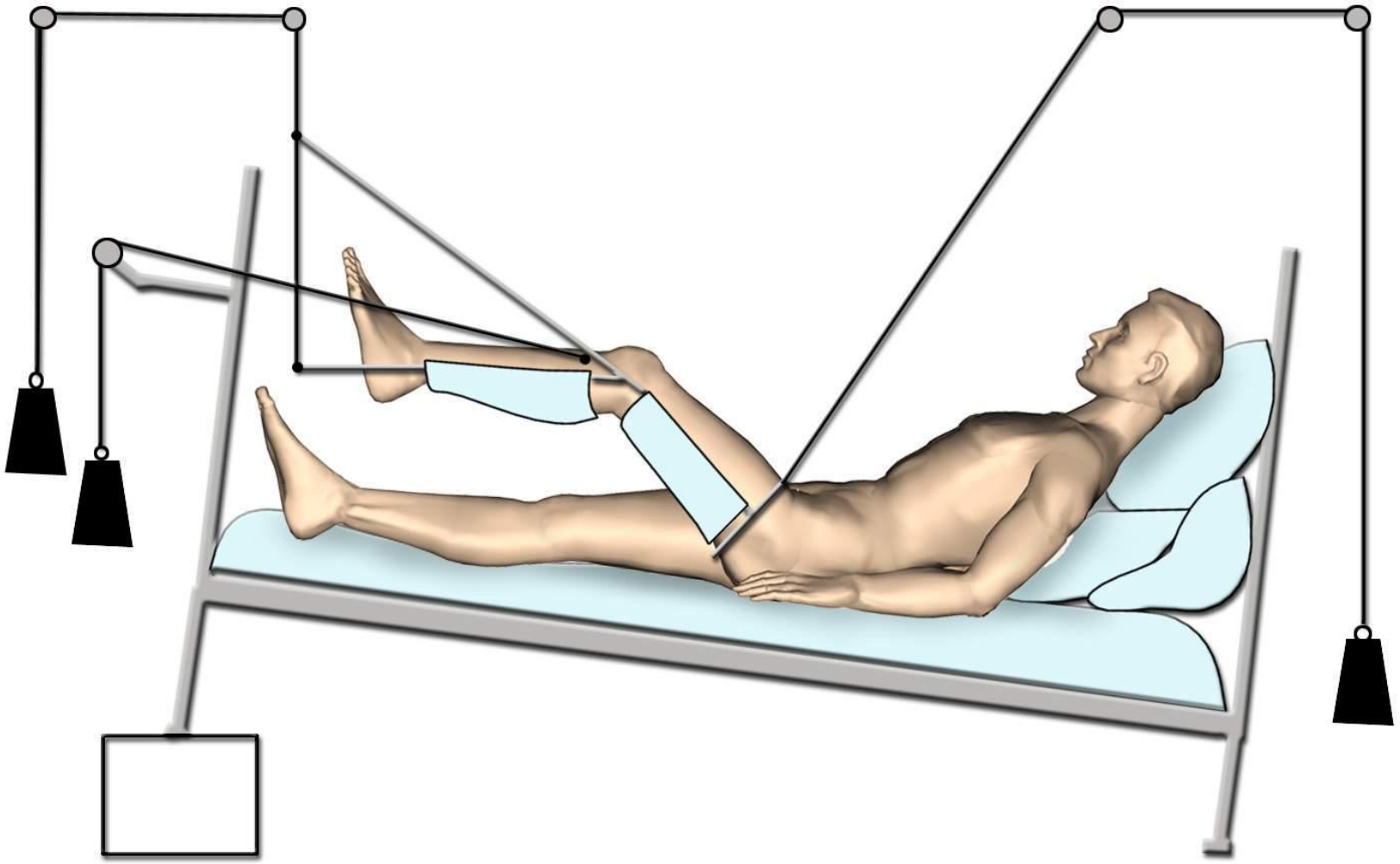




Diagnostic Tests, Treatments, and Surgical Procedures

Term	Meaning
Arthroplasty	Surgical **repair of a joint.**
Arthroscope	An **endoscope** for examining the **interior of a joint**.
Traction	The act of **drawing or pulling to align a bone** or bones after a fracture.

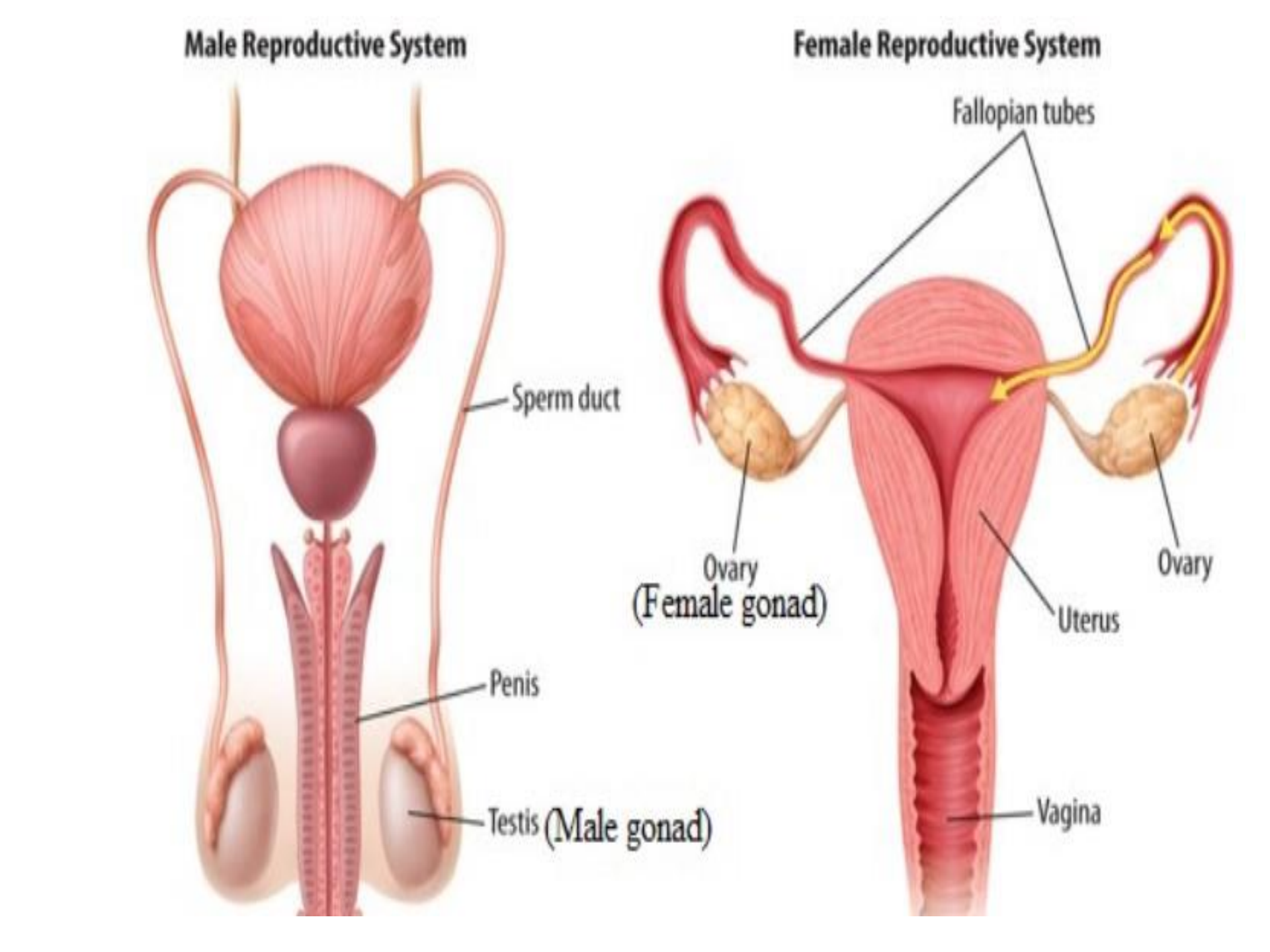

cannula
arthroscope
(camera & light source)
arthroscopic
instrument



The reproductive system

- The primary function of the reproductive system is **to perpetuate life**. The reproductive process begins with fertilization, which occurs when sex cells called **gametes** fuse.

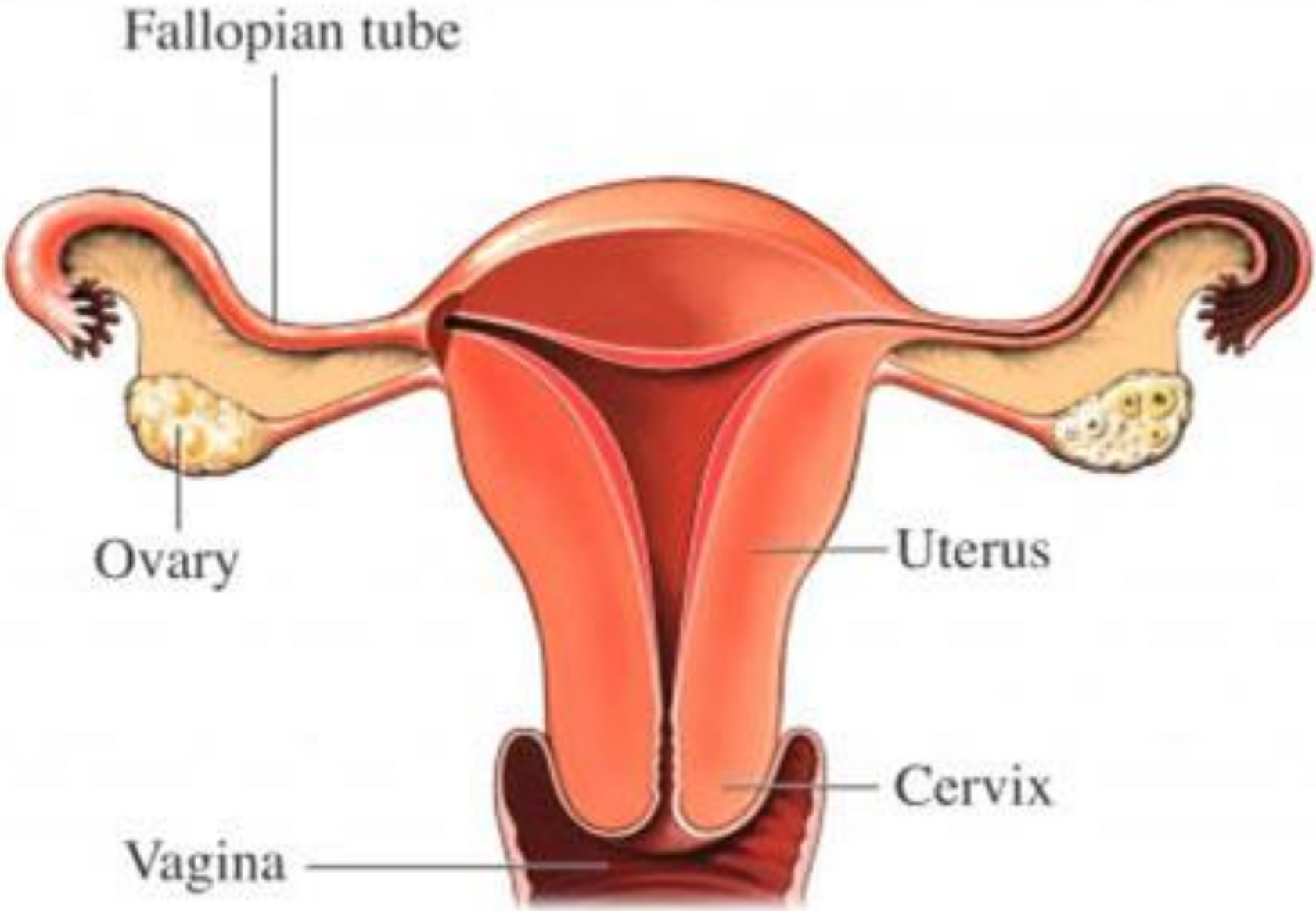
- Male gametes are known as **sperm** and female gametes are known as **oocytes**. The name for the organ that produces a gamete is **gonad**. Male gonads are **testes**, whereas female gonads are **ovaries**.


Male Reproductive System
Sperm duct
Penis
Testis (Male gonad)
Female Reproductive System
Fallopian tubes
Ovary
(Female gonad)
Ovary
Uterus
Vagina

Word parts related to the reproductive system

Word	Part Meaning
cervic/o	cervix, neck
galact/o	milk
gonad/o	gonads, sex glands
gynec/o	woman, female
hyster/o	uterus
lact/o	milk
mamm/o	breast

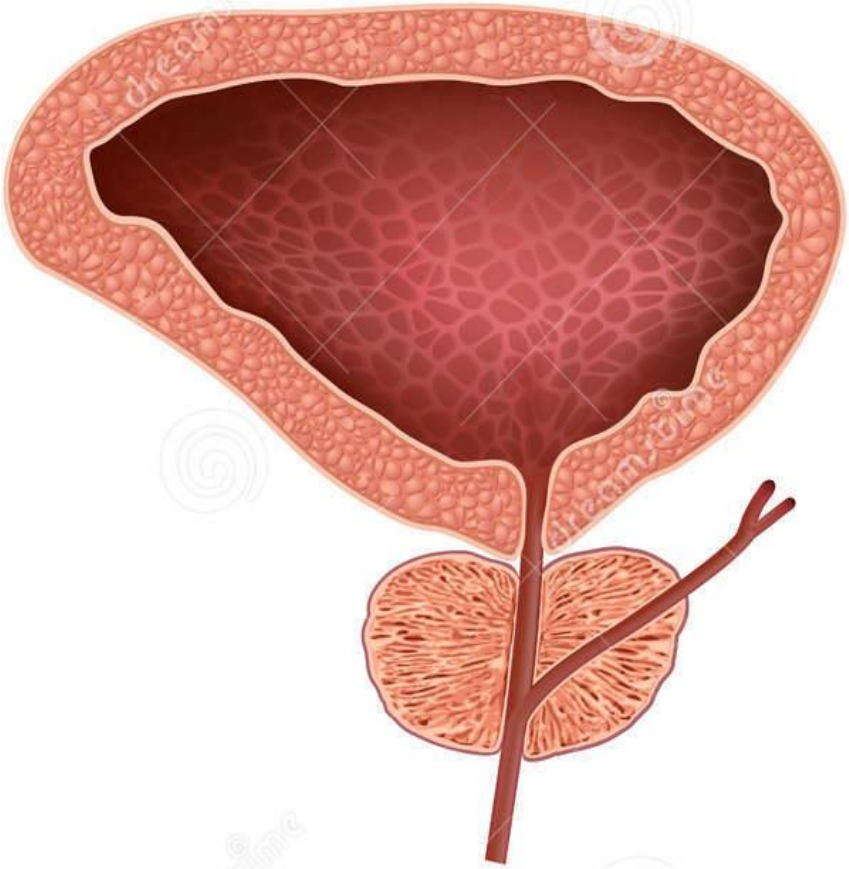
Word	Part Meaning
mast/o	breast
men/o	month, menses, menstruation
nat/o	birth
orch/o, orchi/o, orchid/o	testes
prostat/o	prostate gland
sperm/o, spermat/o	sperm
uter/o	uterus
vagin/o	vagina


Fallopian tube
Ovary
Uterus
Cervix
Vagina

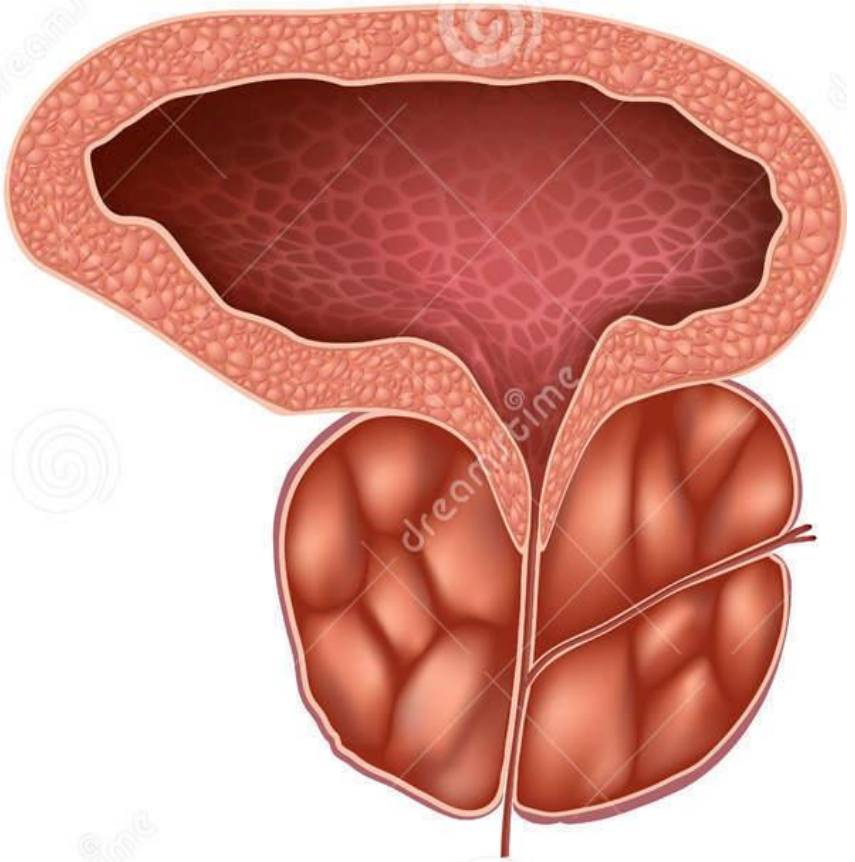
Disorders related to the reproductive system

Term	Meaning
Abortion	**Termination of a pregnancy.** May be spontaneous or induced.
Amenorrhea	**Absence of menstruation.**
Azoospermia	**Absence of living sperm** in the semen.
Benign prostatic hyperplasia (BPH)	Nonmalignant **enlargement of the prostate.**

Benign Prostatic Hyperplasia



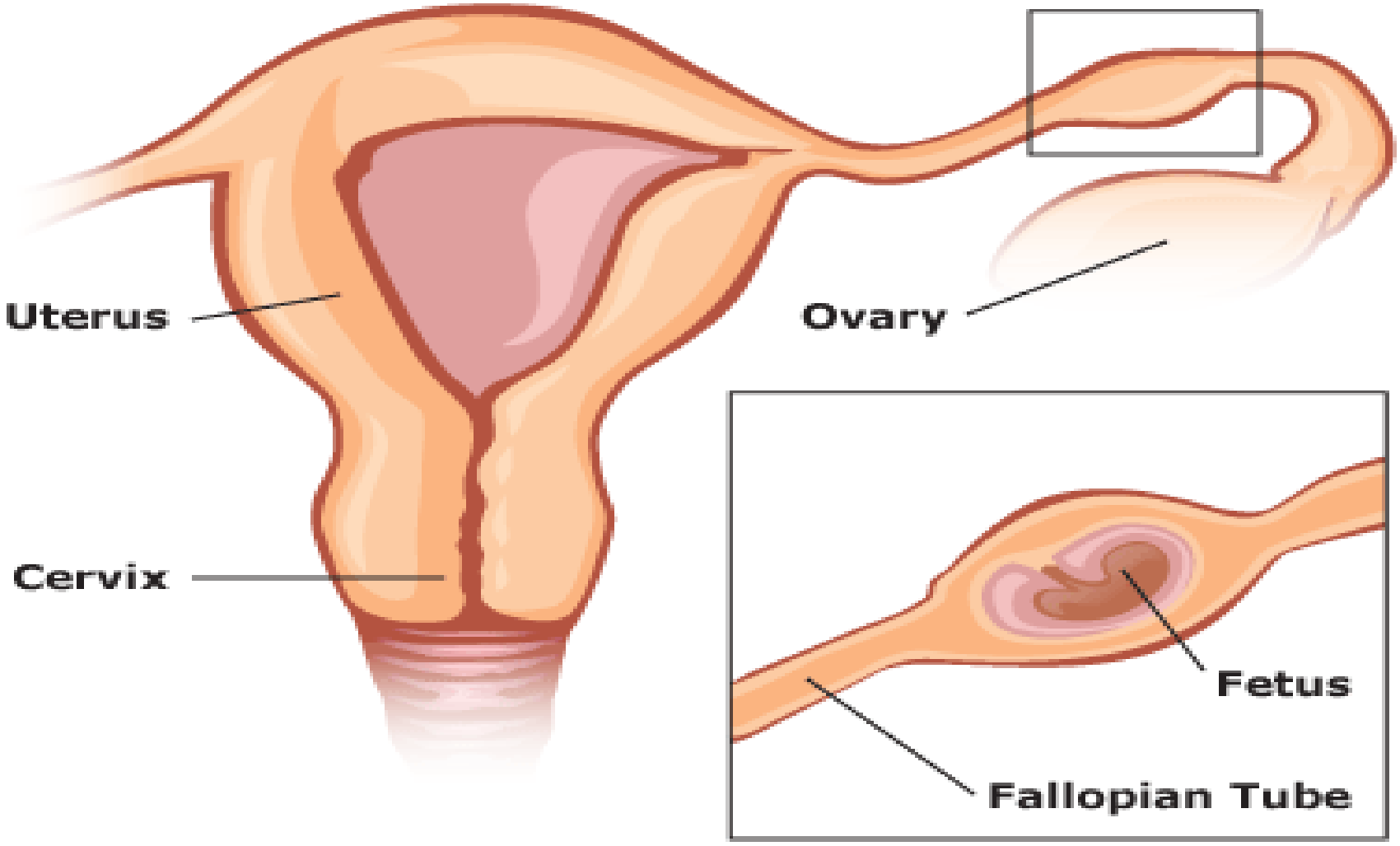
Normal prostate



Enlarged prostate

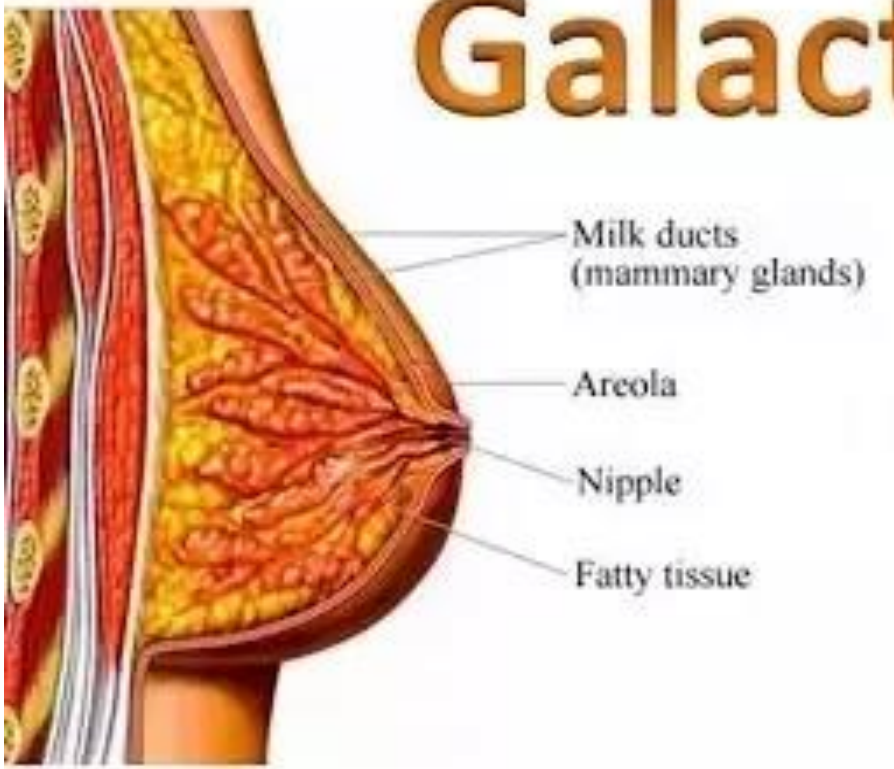
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Dysmenorrhea	**Painful menstruation.**
Ectopic	**Out of place**; a pregnancy occurring elsewhere than in the Uterus.
Galactorrhea	Abnormal **flow of breast milk.**
Gonorrhea	Highly contagious **sexually transmitted disease** caused by Bacteria.
Impotence	**Erectile dysfunction**.
Infertility	Is the **inability of a couple to achieve pregnancy** after 1 year of regular, unprotected intercourse.



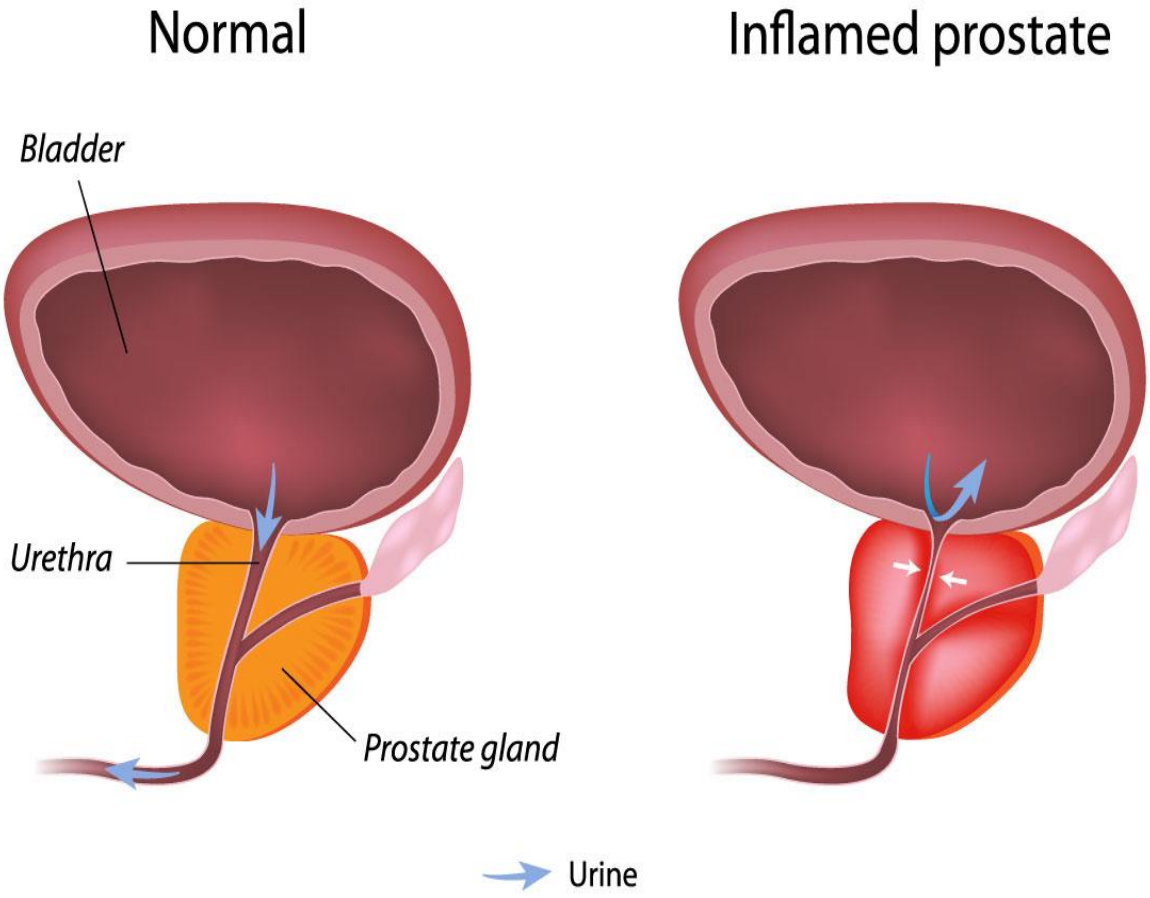
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Galactorrhea



Mastitis	**Inflammation** of the **breast.**
Menorrhagia	**Increased** amount and **duration** of **menstrual flow.**
Oligospermia	**Low sperm count.**
Orchitis	**Inflammation** of a **testis.**
Prostatitis	**Inflammation** of the **prostate.**
Varicocele	A **varicose vein** of the **testes.**

Prostatitis



Terms used to describe pregnancy and birth

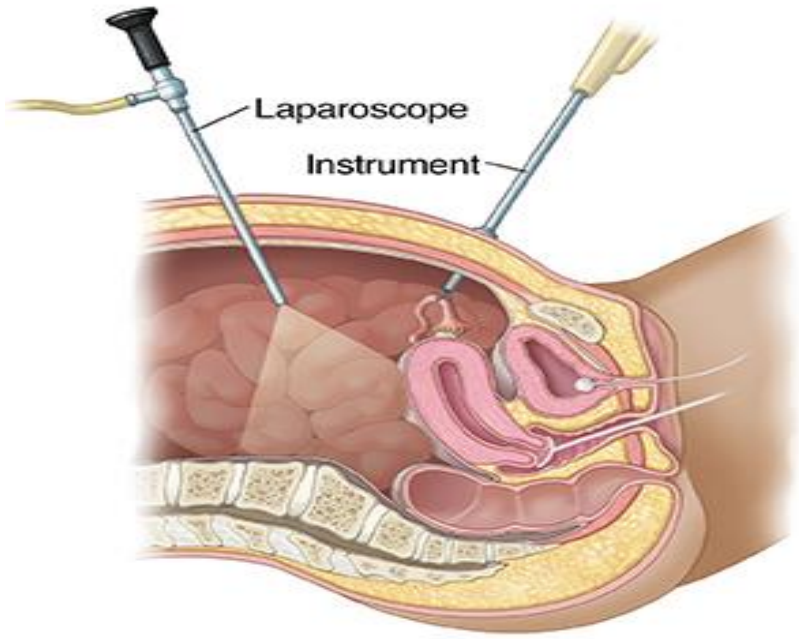
Term	Meaning
Gestation	Period **from conception to birth.**
Neonatal period	The **first 4 weeks** after birth.
Postpartum	**Six-week period following** childbirth.
Prenatal	**Before birth.**
Trimester	Division of pregnancy into periods of **12–14 weeks**, the first **trimester is weeks 1–12.**

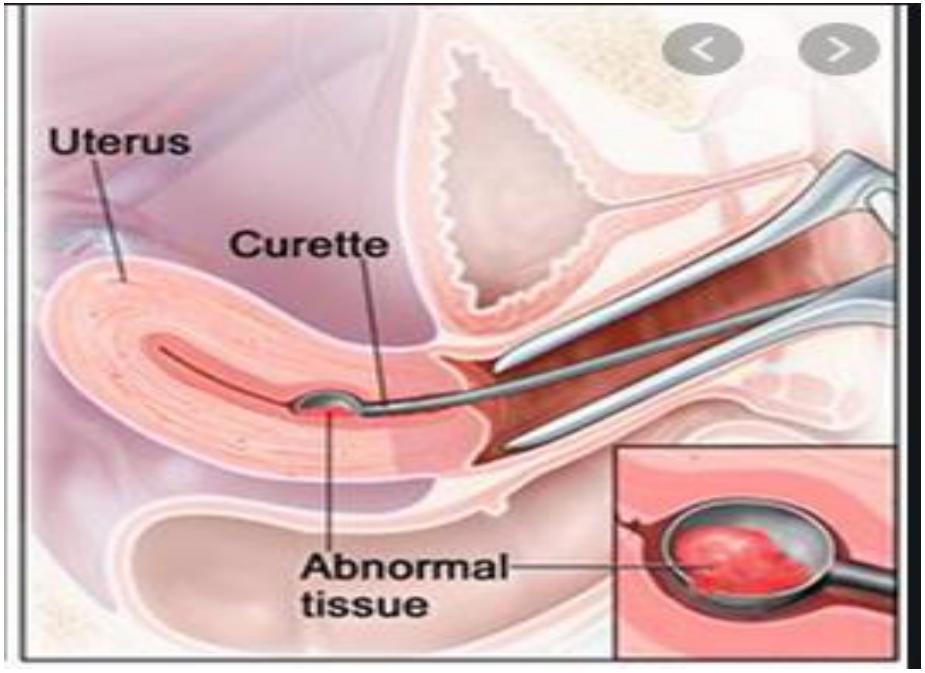
Diagnostic Tests, Treatments, and Surgical Procedures

Term	Meaning
Cesarean section	**Surgical operation** through the abdominal wall and uterus for **delivery of the baby.**
Circumcision	A surgical procedure to **remove the foreskin of the penis.**
Hysterectomy	**Surgical removal of the uterus.**
Laparoscopy	**Direct visualization of the interior of the abdomen** with the use of a **laparoscope.**
Mastectomy	**Removal of a breast.**
Dilation and curettage	Procedure in which the **cervix is dilated** (widened) and the **lining of the uterus is scraped** with a **curette.**






Laparoscope
Instrument


Uterus
Curette
Abnormal tissue

Thank You