Medical Terminology

Unit 3
Orthopedics, Osteopathy, and Body Regions

Pronunciation

- o/pathy
- o/lysis
- o/stasis
- o/meter
- o/stomy
- o/logy
- o/trophy
- o/clysis
- o/graphy
- o/metry
- o/tomy

Oste/o = Bone

- Osteon = bone
- Oste/o/pathy: disease of the bones
  - Doctor of Osteopathy (DO)
  - Oste/itis: inflammation of the bone
  - Oste/o/malac/ia: softening of the bones
  - Oste/oma, oste/o/mata: bone tumor

Oste/o = Bone

- Oste/o/por/osis: deterioration of the bone matrix causing pores and weakness
  - Poros = passageway
  - Oste/o/sarc/oma: bone cancer

Oste/o = Bone

- Dys- = difficult or poor, defective, abnormal
- Inter- between
- Peri- around or near
- -plasia = growth, development, or formation
- -scope = instrument used to look at...
- -plasty = surgical repair or reconstruction

Myel/o = Bone Marrow or Spinal Cord

- Encephalo/myel/o/pathy: disease of the brain and spinal cord
- Oste/o/myel/itis: inflammation of the bone and marrow
- Myel/o/dys/plasia: defective formation of the spinal cord
- Myel/o/cyt/ic: pertaining to myelocyte
- Myel/o/celid: herniation of the spinal cord
- Myel/o/blast: bone marrow germ cell
**Arthr/o = Joint**
- **Arthr/o/scope**: An instrument used to look at joints
- **Arthr/o/scopy**: procedure for examining the joints with arthroscope
- **Arthr/o/dys/plasia**: defective formation of a joint
- **Arthr/o/plasty**: surgical repair of a joint
- **Arthr/itis**: inflammation of a joint
- **Oste/o/arthr/itis**: inflammation and destruction of bone and joint tissue
- **Arthr/o/tomy**: incision into a joint

**-plasia = development**
- **Hyper/plasia**: Excessive development
- **Hypo/plasia**: Deficient development
- **A/plasia**: Failure of development

**Ten/o, Tend/o, Tendin/o = Tendon**
- Repair of the tendons:
  - Tendo/plasty
  - Tendin/o/plasty
- Inflammation of the tendons:
  - Tendon/itis
  - Tendin/itis
- Tendon pain:
  - Ten/algia
  - Ten/o/dynia
**Burs/o = Bursa**
- A small serous sac between a tendon and a bone
  - Bursa = purse or bag
- Burs/itis: inflammation of a bursa
- Burs/ectomy: excision of a bursa
- Burs/ae: (plural) more than one bursa

**Chondr/o = Cartilage**
- Oste/o/chondr/itis: inflammation of bone and cartilage
- Chondr/ectomy : excision of cartilage
- Pain in or around cartilage:
  - Chondr/algia
  - Chondr/o/dynia
- Chondr/o/costal: pertaining to cartilage and ribs
- Inter/chondr/al: between cartilages
- Hypo/chondr/iac: below the cartilage. (also means one who has abnormal concern about one’s health.)

**Cost/o = Ribs**
- Cost/ectomy: excision of a rib or ribs
- Cost/al: pertaining to the ribs
- Inter/cost/al: between the ribs

**Dent = Teeth**
- Inter/dent/al: between the teeth
- Dent/al: pertaining to the teeth
- Dent/algia: toothache
- Dentoid: resembling a tooth

**Odont/o = shaped like a tooth**
- Orthodont/ist: dentist who specializes in straightening teeth
- Peri/odont/al: around or near the teeth
### Peri- = Around or Near
- **Peri/oste/um:** membrane around the bone
- **Peri/chondr/iurn:** membrane around the cartilage
- **Peri/card/iurn:** membrane around the heart

### Orth/o = Straight
- **Orth/o/ped/ist:** physician who specializes in the prevention and treatment of musculoskeletal disorders
- **Orth/o/sis, orth/o/tic:** devices used to stabilize or prevent deformity
- **Orth/o/tist:** specialist who designs and fits orthotics

### Prosth = Artificial body/replacement
- **Prosth/esis:** artificial appliance that replaces amputated body parts
- **Prosthet/ist:** specialist in making artificial body parts
- **Prosthet/ic:** (adjective) Pertaining to a prosthesis

### Back
- **Lumb/o = lower back**
- **Lumb/ar = (adj.) pertaining to lower back**
- **Thorac/o = chest, thorax**
- **Thorac/o/lumb/ar**

### Supra- = higher in position, over, above
- **Supra/lumb/ar = above the lumbar region**
- **Supra/cost/al = above the ribs**
- **Supra/crani/al = on top of the skull**
- **Supra/pubic = above pubis**
- **Supra/pelvic = above pelvis**

### Pub/o = pelvis
- **Pub/is = (noun) bone of the pelvis**
- **Pub/ic = (adj.)**
- **Pelv/is = formed by the pelvic bones**
  - Pelvis (singular)
  - Pelves (plural)
  - Pelvimetry
  - Pelvimeter
Cephal/o/pelv/ic
- CPD = Cephal/o/pelv/ic Disproportion
  - When the head of the fetus is larger than the diameter of the mother’s pelvis.
  - This results in inability to deliver the baby vaginally.

-meter = instrument used to measure
- Speed/o/meter
- Cyt/o/meter
- Thorac/o/meter
- Cardi/o/meter

Ab- = from, away from
- Ab/norm/al = deviating from normal
- Ab/errant = wandering from (the normal course of events or routes)
  - i.e. nerve fibers, blood or lymph vessels
- Ab/duction = movement away from midline
  - Ducere, duct = to lead or move

Ad- = toward
- Ad/duct/ion = (noun) Movement toward a midline, (adduct = verb)
- Ad/dict/ion = being drawn toward some habit, (an addict = a person who is addicted)
- Ad/hes/ion = formed when 2 normally separate tissues join together

Abdomin/o = Abdomen
- Abdomin/al: pertaining to the abdomen

Abdomin/o/centesis: tapping or puncture of the abdomen.
Amni/o/centesis: surgical puncture of the amnion
Cardi/o/centesis: surgical puncture of the heart
Cyst/o = bladder
- Abdomin/o/cystic: pertaining to the abdomen and bladder
- Cyst/o/tomy: incision into the urinary bladder
- Cyst/ectomy: excision of the urinary bladder
- Cyst/o/scopy: process of examining with an instrument into the urinary bladder
- Cyst/o/plasty: surgical repair of the bladder
- Cyst/o/cele: bladder herniation into the vagina

Thorac/o = Thorax or Chest
- Thorac/ic: pertaining to the chest
- Thoraces (plural)
- Abdomin/o/thorac/ic: pertaining to the abdomen and thorax
- Thorac/o/tomy: incision of the chest
- Thorac/o/centesis or Thoracentesis: surgical tapping of the chest to remove fluid
- Thorac/o/pathy: chest disease
- Thorac/o/lumbar: pertaining to the thoracic and lumbar

Hydro- = Water or Fluid
- Hydro/cyst: a sac filled with watery fluid
- Hydro/cele: accumulation of fluid in a saclike cavity, especially in the scrotum
- Hydro/cephalus (noun): enlarged head due to increased amount of fluid in the skull.
  Hydro/cephal/ic (adj.)
- Hydro/phobia: abnormal fear of water
- Hydro/therapy: Treatment by water

Abbreviation
- H2O Water
- LLQ Left Lower Quadrant (abdomen)
- LUQ Left Upper Quadrant (abdomen)
- OMT Osteopathic Manipulative Therapy
- Ortho (Orth) Orthopedics (orthopedist)
- PT Physical Therapy
- RA Rheumatoid Arthritis
- RLQ Right Lower Quadrant (abdomen)
- RUQ Right Upper Quadrant (abdomen)