## Medical Terminology

Unit 9
Anatomic Terms

## Anatomy

- Ana/tomy comes from Greek word anatome meaning cutting apart.
- Anatomy is the study of naming body structures.


## Directional Words

- Dorsal
- Ventral
- Anterior (ant)
- Posterior (post)
- Cephalic
- Caudal, caudad
- Medial
- Lateral
dors/o - Near or on the back
ventr/o - Near or on the belly side
anter/o - Toward the front, in front of poster/o ■ Following or located behind cephal/o - Upward, toward the head caud/o - Downward, toward the tail medi/o - Toward the midline later/o - Toward the side, away from the midline


## Directional Words

■ Superior super- ■ Above

- Inferior sub- or infra- ■ Below
- Proximal proxim/o ■ Near the point of origin
- Distal dist/o - Away from the point of origin
- Sagittal sagitt/o
- Coronal coron/o
- Vertical, anteroposterior direction or plane dividing into left and right
- Resembling a crown or encircling




## Directional Terms - combined

- Front and side
- Front and middle
- Front and top
- Back and side ■ Poster/o/lateral
- Back and outside of the body
- Back and inside of the body
- Anter/o/later/al
- Anter/o/medi/al
- Anter/o/super/ior
- Poster/o/extern/al
- Poster/o/intern/al


## Directional Terms - combined

■ From front to back, ■ Anter/o/poster/ior (AP) or front and back ventr/o/dorsal

- From back to front - Poster/o/anter/ior (PA)
- Toward the back of Dors/o/cephalad the head
- Toward the front ■ ventr/al, ventr/ad or
- From left and back Anter/ior
From left and back, ■ Left posterior oblique diagonally (LPO)


## Sagitt/al

- Sagitt/al: A vertical cut made in anteroposterior direction
- Mid/sagitt/al: Sagittal cut made at the midline to divide the body into equal right and left halves
- Sagittalis $=$ arrowlike. (As if to say if struck with an arrow, a person would be cut into halves.)


## Coron/al

- Crown or circle
- Coron/al suture line sits at the crown of the skull
- Corona dentis = crown of a tooth
- Coron/ary arteries encircle the heart to supply blood to heart muscle.
- Coron/ary veins encircle the heart to collect blood from heart muscle.


## Omphal/o = Umbilicus, Navel

- Omphal/itis: Inflammation of the umbilicus
- Omphal/ic: Pertaining to the navel
- Omphal/ectomy: Excision of the umbilicus
- Omphal/o/cele or umbilico/o/cele: Herniation of the navel (umbilical hernia)
- Omphal/o/rrhagia: umbilical hemorrhage
- Omphal/o/rrhea: discharge flowing from the navel
- Omphal/o/rrhexis: rupture of the navel


## Ad-, ad = Toward

- Cephal/ad: Toward the head
- Caud/ad: Toward the tail (lower spine)
- Cephal/o/caudal: head to body (tail) direction


## Gnos = knowledge

- gnosia, gnosis = knowledge
- Pro/gnos/is: foreknowledge, predicting the outcome of a disease
- Pro/gnost/ic: giving an indication concerning the outcome of disease
- Dia/gnos/is: identification of a disease through signs and symptoms. "knowing through" or "know through"
- Dia/gnos/tic (adj.)
- Dia/gnos/e (verb)
- Dia/gnos/es (plural)


## Dia $=$ through

- Dia/lysis: separation of substances in a solution. Process of destroying waste products in the blood by diffusion through a membrane
- Hem/o/dia/lysis: Removal of waste from the blood by using an artificial kidney machine
- Dia/scope: instrument placed on the skin to look through to see superficial surface lesions


## Aer/o = Air

- Aer/o/phobia: abnormal fear of air
- Aer/o/therapy: treatment with air
- Aer/o/cele: herniation containing air
- Aer/o/bic (adj.): Plant or animal that needs air to live
- An/aer/o/bic (adj.): Plant or animal that cannot live in presence of air
$\mathrm{Bi} / \mathrm{o}=$ Life, Living things
- Bios = Life
- Bi/o/chemistry: The study of chemical changes in living things
- Bi/o/logy: The science (study) of living things
- Bi/o/logist: The one who studies living things or life
- Bi/o/genesis: The formation of living things
- Bi/o/psy: Excision of tissue for examination of living tissue
- Bi/o/ethics: Study of what is good and bad for living things


## Chrom/o = Color

- Chroma = color
- Chrom/o/cyte: Any colored cell
- Chrom/o/blast: An embryonic color (pigment) cell
- Chrom/o/lysis: Destruction of color (in a cell)
- Chrom/o/gen/esis: Formation of pigment (color)
- Chrom/o/meter: Instrument for measuring amount of color in a substance



## Chrom/o = Color

- Chrom/o/philic: One that takes a stain easily (attracts stain)
- Phil = attracted, loves
- Chrom/o/phobic or A/chrom/o/philic: One that stains poorly or not at all

-tocia $=$ Labor
- Dys/tocia: Difficult labor and childbirth
- Eu/tocia: Easy or normal labor and childbirth
- Eu/gen/ic: Good development

Men/o = Menses, Menstruation

- Mensis $=$ month
- Men/ses: Men/struation
- Men/arche: first menstrual period
- Men/o/rrhea: flow of menses
- Dys/men/o/rrhea: painful menstrual flow
- Men/o/pause: permanent cessation of menstruation
- Men/o/rrhagia: excessive menstruation
- A/men/o/rrhea: absence (without) menstrual flow
-stasis $=$ Act of Stopping, Controlling
- Hem/o/stasis: Act of controlling blood flow
- Men/o/stasis: Stopping menstrual flow
- Phleb/o/stasis or Ven/o/stasis: Control of blood flow in veins
- Arteri/o/stasis: Control of flow in arteries
- Lymph/o/stasis: Control of lymph flow


## Syphil/o = Syphilis

- A sexually transmitted disease
- Syphil/o/psych/osis: mental condition caused by syphilis. (neurosyphilis)
- Syphil/o/phobia: fear of contracting syphilis
- Syphil/o/therapy: therapy for syphilis
- Syphil/oma: A syphilic tumor
- Syphil/o/pathy: Any syphilitic disease


## Pseudo- = False

- Pseud/o/cyesis, Pseud/o/pregnancy: A false pregnancy
- -cyesis = from kyesis meaning pregnancy

■ Pseud/o/sciences: a false science

- Pseud/o/mania: a psychosis in which patients have a false or pretended mental disorder
- Pseud/o/paralysis: False paralysis


## Pseudo- = False

- Pseud/o/cyst: A false cyst
- Pseud/o/edema: False edema
- Pseud/o/esthesi/a: False or imaginary sensation
- Pseud/o/hyper/trophy: False hypertrophy
- Pseud/o/tubercul/osis: False tuberculosis
- Pseud/o/neur/oma: False nerve tumor


## Viscer/o = Organs of the Body

- Viscera (singular: viscus) = internal organs of the body
- Viscer/ad: toward the viscera
- Viscer/o/genic: Pertaining to the development of organs
- Viscer/o/motor: a nerve conveying motor impulses to the viscera
- Viscer/o/pariet/al: Pertaining to the viscera and abdominal wall


## Viscer/o = Organs of the Body

- Viscer/o/ptosis: Prolapse of organs
- Viscer/algia: Pain in organs
- Viscer/al: Pertaining to organs
- Viscer/o/sensor/y: Sensory function of organs
- Viscer/o/skelet/al: Pertaining to organs and the skeleton
- Viscer/o/gen/ic: Pertaining to the development of organs


## Membranes

- Periton/eum:
- The membrane that lines the abdominal cavity
- Pleura, Pleur/al membrane:
- The membrane that covers the lung cavity

- Blast/o/derm: an embryonic disk of cells that gives rise to the 3 main layers of tissue
- Inner germ layer $\quad \checkmark$ Endo/derm - Organs inside the body: stomach, intestine
- Middle germ layer
$\checkmark$ Meso/derm
- Muscle
- Outer germ layer
- Skin, nerve, glands, sense organs
$\checkmark$ Ecto/derm


## Ecto-, Exo- = Outside

- Ecto/genous, Exo/genous: Something produced outside an organism
- (People with type I diabetes need ectogenous insulin since he/she produce very little or no endogenous insulin)

Opposite of

- Endo/genous: Something produced within an organism

Ecto-, Exo- = Outside

- Ecto/cyt/ic: Outside a cell
- Ecto/plasm: Protoplasm that forms outer membrane of the cell


Endo- = Inside

- Endo/cyst/ic: Inside a bladder
- Endo/plasm, Cyt/o/plasm: Protoplasm within a cell
- Endo/crani/al: Within the cranium
- Endo/chondr/al: Within cartilage
- Endo/enter/itis: Inflammation of the lining of the small intestine
- Endo/cardi/al, Endo/cardi/ac: Pertaining to the lining of the heart
- Endo/col/itis: Inflammation of the lining of a colon


## Ectopic

- Ec/topic: Out of place
- Ect/o = outside
- Top/os = place
- -ic = (adjectival suffix $)$
- Ectopic pregnancy is a pregnancy occurring outside of the uterus


Meso- = Middle
■ Mes/entery: Peritoneum attaching intestine to the abdominal wall. ("middle intestine")

- Meso/colon: Peritoneum attaching large intestine to the abdominal wall. (mesentery of the colon)
- Meso/dont/ic: Pertaining to middle-sized teeth


## Retro- = Behind

- Retro/colic: Behind the colon
- Retro/mammary: Behind the mammary gland (breast)
- Retro/stern/al: Behind the stern/um
- Retro/version: Turning backward
- Retro/periton/eum: Space behind the peritoneum
- Retro/periton/itis: Inflammation of retroperitoneal space

Ante- Vs. Retro-

- Ante- = Front,

Forward

- Retro- = Behind,
- Ante/flexion
- Bending forward
- Ante/version
- Turning forward

Backward

- Retro/flexion
- Bending backward
- Retro/version
- Turning backward


Para- = Near, Beside, Around

- Para/centr/al: Near the center or around the center
- Para-/appendic/itis: Inflammation around the appendix
- Para/cyst/itis: Inflammation around (near) the bladder
- Para/colp/itis: Inflammation of tissues around (near) the vagina
- Para/hepat/itis: Inflammation of tissues around (near) the liver
- Para/nephr/itis: Inflammation of tissues around (near) the kidney



## Abbreviation

- Hx - History
- LAT ■ Lateral
- LMP ■ Last menstrual period
- LOA - Left occiput anterior
- LPO - Left posterior oblique
- OD - Right eye (ocula dextra)
- OS - Left eye (ocula sinistra)
- OT - Occupational therapy
- OU ■ Both eyes (ocula uterque), each eye


## Abbreviation

- PA
- $p$
- Posteroanterior (posterior to anterior)
- After (post)
- Px
- ROP
- RPO
- Prognosis
- Right occiput posterior
- RPR, VDRL - Syphilis test (blood test)
- STD, STI - Sexually transmitted disease (infection)
- TB - Tuberculosis
- VD - Venereal disease (old terminology)

The Layman's Medical Terms...
Euthanasia
Morbid
Young people in Asia A higher offer
Colic
A sheep dog
Coma
A punctuation mark
Minor Operation
Coal digging
Congenital
Friendly
Cesarean Section
A district in Rome
Medical Staff
A doctor's cane

