Surgical, Diagnostic, Pathological, and Related Suffixes

Dr. Shukir Saleem PhD Element + Suffix = Medical Word Meaning

Word roots

| gastr (stomach) | -itis (inflammation) | Gastritis | Inflammation of the stomach |
|--------------------|-------------------------|-------------|-----------------------------|
| hemat | -emesis | hematemesis | vomiting of blood |
| arthr | -itis | Arthritis | Inflammation of joint |

Combining form

| Word root + | Suffix | Medical word | Meaning |
|-------------|-----------|----------------|----------------------|
| gastr/o | -dynia | gastrodynia | pain in the stomach |
| hemat/o | -logy | hematology | Study of blood |
| arthr/o | -centesis | arthrocentesis | surgical puncture of |

Combining Form Word Root Suffix Medical Word Meaning

| gastr/o | enter | -itis | Gastroenteritis | Inflammation of the stomach and |
|------------|--------|-------|---------------------|--------------------------------------|
| oste/o | arthr | -itis | Osteoarthritis | Inflammation of the joint |
| encephal/o | mening | -itis | encephalomeningitis | inflammation of brain of the menings |
| | | | | |

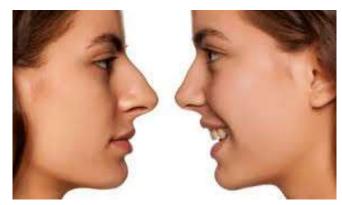
General suffixes

| Suffix | Meaning | Word analysis |
|----------|-----------------------------------|--|
| centesis | Surgical puncture | arthr/o/centesis (a r-thro -se n-TE -s is): puncture of a joint space with a needle and the withdrawal of fluid arthr/o: joint |
| -clasis | to break; surgical fracture | oste/o/clasis (o s-te -O K-la -s is): surgical fracture of a bone to correct a deformity oste/o: bone |

Surgical, Diagnostic, Pathological, and Related Suffixes

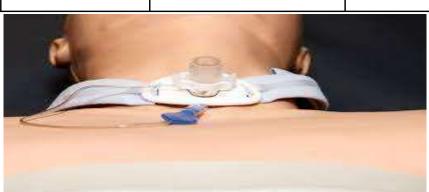
| Suffix | Meanin | Word analysis |
|--------|---|--|
| | g | |
| desis | binding, fixation (of a bone or joint | arthr/o/desis (a r-thro -DE -s is): binding together of a joint arthr/o: joint |
| ectomy | excision, remova | append/ectomy (a p-e n-DE K-to - m e): excision of the appendix |

| lysis | separation; destruction; loosening | thromb/o/lysis (thro m-BO L- i-s is): destruction of a blood clot |
|--------|--|---|
| plasty | surgical repair | rhin/o/plasty (RI ⁻ -no ⁻ -pla ⁻ s-te ⁻): surgical repair of the nose rhin/o: nose |



Surgical, Diagnostic, Pathological, and Related Suffixes

| Suffix | Meaning | Word analysis |
|--------|----------------------------|--|
| stomy | forming an opening (mouth) | trache/o/stomy (tra -ke -0 S-to -me -): forming an opening into the trachea |
| tomy | incision | trache/o/tomy (tra - ke - O T-o - me -): incision (through the neck) into the trachea |



| -rrhaphy | suture | my/o/rrhaphy (m ⁻ i-OR-a ⁻ -fe ⁻): suture of a muscle my/o: muscle |
|----------|------------------------------|---|
| -pexy | fixation (of an organ) | mast/o/pexy (MA S-to -pe ks-e): fixation of the breast(s) mast/o: breast Mastopexy, an elective surgery, is performed to affix sagging breasts in a more elevated position, commonly improving their shape. |

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Diagnostic suffixes

| Suffix | Meaning | Word analysis | |
|------------|--------------------------------|--|---|
| -gram | record, writing | electr/o/cardi/o/grade -o -gram): reconstitution of the heart electr/o: electricity of | |
| - graph | instrument for recording | cardi/o/graph (KAR-cinstrument for recording of the heart cardi/o: heart | de -o -gra f): ding electrical activity |

| -graphy | process of recording | angi/o/graphy (a n-je -0 G-ra -fe): process of recording blood vessels angi/o: vessel (usually blood or lymph). Angiography is the radiographic imaging of blood vessels after injection of a contrast medium |
|---------|--------------------------------|--|
| -scope | instrument for examining | endo/scope (E N-do -sko p): instrument for examining within endo-: in, within An endoscope is a flexible or rigid instrument |
| | 945 | consisting of a tube and optical system for observing the inside of a hollow organ or |

cavity.

endo/scopy (e n-DO S-ko -pe): visual visual -scopy examination within examina tion endo-: in, within **Endoscopy** is performed to visualize a body cavity or canal using a specialized lighted instrument called an endoscope neur/algia (nu-RA L-je -a): pain of a nerve neur: nerve algia The pain of neuralgia usually occurs along pain the path of a nerve

| dynia | Pain | ot/o /dynia (o ⁻ -to ⁻ -D [*] IN-e ⁻ -a [*]): pain in the ear; earache ot/o: ear |
|-------|-------|---|
| oma | Tumer | neur/oma (nu ⁻ -RO ⁻ -ma ⁻): tumor composed of nerve tissue neur: nerve A neuroma is a benign tumor composed chiefly of neurons and nerve fibers, usually arising from a nerve tissue. It may also be a swelling of a nerve that usually results from compression |

| | cele | hernia, swelling | hepat/o/cele (he -PA T-o -se l): hernia of the liver hepat/o: liver |
|----|--|--|--|
| | ectasis | dilation, expansion | bronchi/ectasis (bro ng-ke -E K-ta -s is): dilation or expansion of one or more |
| (2 | Constitution of the second strength of the se | Magazian Alaway with branch placeasis Shanned showy day and day and day year | bronchi Bronchiectasis is associated with various lung conditions and is commonly accompanied by chronic infection. |
| | edema | swelling | lymph/edema (l'imf-e'-DEma'): swelling and accumulation of tissue fluid Lymphedema may be caused by a blockage of the lymph vessels. |

| emesis | vomiting | hyper/emesis (hi ⁻ -pe ⁻ r-E ⁻ M-e ⁻ -s ⁻ is): excessive vomiting hyper-: excessive, above normal |
|--------|--------------------|--|
| emia | blood condition | an/emia (a -NE -me -a): blood condition caused by a decrease in red blood cells (erythrocytes) an-: without, not or reduced |

gen forming, producin g,

carcin/o/gen (ka r-S IN-o - je n): forming, producing, or origin of cancer A carcinogen is a substance or agent, such as cigarettes, that causes the development or increases the incidence of cancer



| genesis | forming, producing, | carcin/o/genesis (ka r-s i-no -JE N-e - s is): forming or producing cancer Carcinogenesis is the transformation of normal cells into cancer cells, commonly as a result of chemical, viral, or radioactive damage to genes. |
|---------|---|--|
| iasis | abnormal condition (produced by something specific) | chol/e/lith/iasis (ko ⁻ -le ⁻ -l ⁻ I-THI ⁻ -a ⁻ -s ⁻ Is): abnormal condition of gallstones Cholelithasis is the presence or formation of gallstones in the gallbladder or common bile duct. |

| itis | inflamm ation | gastr/itis (ga s-TRI-t is): inflammation of the stomach |
|---------|--------------------|--|
| lith | stone, calculus | chol/e/lith (KO -le -l ith): gallstone |
| malacia | softening | chondr/o/malacia (ko n-dro - ma l-A - she - a): softening of the articular cartilage, usually involving the patella. chondr/o: cartilage |

| megaly | enlargement | cardi/o/megaly (kar-de-o-MEG-a-le-): enlargement of the heart cardi/o: heart |
|--------|-------------|--|
| oma | tumor | neur/oma (nu ⁻ -RO ⁻ - ma ⁻): tumor composed of nerve tissue neur: nerve |

| osis | abnormal condition; increase (used primarily with blood cells) | cyan/osis (si ⁻ -a ⁻ -NO ⁻ -s ⁻ is): dark blue or purple discoloration of the skin and mucous membrane cyan: blue Cyanosis indicates a deficiency of oxygen in the blood |
|-------|--|---|
| pathy | disease | my/o/pathy (mi ⁻ -O ⁻ P-a ⁻ -the ⁻): disease of muscle |
| | | my/o: muscle |

| phasia | speech | a/phasia (aˇ-FA⁻-ze⁻-aˇ): absence or impairment of speech. a-: without, not |
|--------|-------------------|--|
| plasia | formation, growth | dys/plasia (d'is-PLAzea'): abnormal formation or growth of cells, tissues, or organs. dys-: bad; painful; difficult |

| plasm | | neo/plasm (NE -o -pla zm): new formation or growth of tissue. neo-: new |
|--------|-----------|--|
| plegia | paralysis | hemi/plegia (he m-e -PLE - je -a): paralysis of one side of the body hemi-: one half |

| rrhage | bursting forth (of) | hem/o/rrhage (HE M-e -r ij): bursting forth (of) blood hem/o: blood |
|--------|------------------------|---|
| rrhea | discharge, flow | dia/rrhea (di ⁻ -a ⁻ -RE ⁻ -a ⁻): abnormally frequent discharge or flow of fluid fecal matter from the bowel dia-: through, across |

| sclerosis | abnormal | arteri/o/sclerosis (a r-te -re -o -skle -RO -s is): abnormal condition of hardening of an artery arteri/o: artery |
|-----------|-------------------------|---|
| stenosis | narrowing, stricture | arteri/o/stenosis (a r-te -re oo -ste -NO -s is): abnormal narrowing of an artery |

| -toxic | poison | hepat/o/toxic (HE P-a -to k-sik): poisonous to the liver hepat/o: liver |
|---------|---------------------------------|---|
| -trophy | nourishment , development | dys/trophy (D*IS-tro* -fe*): bad nourishment dys-: bad; painful; difficult Dystrophy is an abnormal condition caused by improper nutrition or altered metabolism. |

Surgical suffixes

| tripsy | crushing | lith/o/ tripsy (L*ITH-o ⁻ -tr*ip-se ⁻): crushing a stone <i>lith/o</i> : stone, calculus <i>Lithotripsy is a surgical procedure for eliminating a stone in the kidney, ureter, bladder, or gallbladder.</i> |
|---------|----------|---|
| -tomy | incision | trache/o/ tomy (tra ⁻ -ke ⁻ -O ⁻ T-o ⁻ -me ⁻): incision (through the neck) |
| -tripsy | crushing | lith/o/ tripsy (L*ITH-o ⁻ -tr*ip-se ⁻): crushing a stone <i>lith/o:</i> stone, calculus <i>Lithotripsy is a surgical procedure for eliminating a stone in the kidney, ureter, bladder, or gallbladder.</i> |