

**Other prefixes of directions or positions:**

***extra-*** = outside, additional.

Examples: ***extracranial*** = outside the skull

***extraoral*** = outside the mouth

***extra*** copy = additional copy

***extra*** fees = additional fees

***ipsi-*** = the same.

Example: ***ipsilateral*** = at the same side.

***contra-*** = against, opposite.

Examples: ***contralateral*** = at the opposite side.

***contraception*** = against conception.

***contraindication*** = against the use (of a drug, a procedure ...)

***counter-*** = against, opposite.

Examples: ***counteract*** = an act against (something).

***countercurrent*** = flowing in an opposite direction.

***syn-* (and *sym-*)** = together, same, united, common.

Examples: ***synthesis*** = putting parts together (production)

***synapse*** = joining nervous impulses together.

***synchronization*** = occurring at the same time (events)

***symp*port** = traveling together (ions).

***symphysis*** = growing together (bones).

***syndrome*** = running together (signs or symptoms of a medical condition)

***sympathy*** = common feeling.

***trans-*** = across, through, change.

Examples: ***translocation*** = a change in location.

***transduction*** = a change in the kind (signal , energy ... ).

**transabdominal** = through the abdomen (ultrasonography).

**transpalatal** = across the palate (bar)

**dextro-** = to the right, clockwise.

Examples: **dextrorotation** = clockwise rotation.

**dextrocardia** = heart is located toward the right side of the chest.

**levo-** = to the left, anticlockwise.

Examples: **levorotation** = anticlockwise rotation.

**levoglucose** = left glucose.

**ultra-** = excess, beyond.

Examples: **ultrasonic** = a sound beyond (that can be heard by the human ear)

**ultraviolet** = beyond violet (a light beyond that can be seen by the human eye)

**para-** = near, beside; beyond.

Examples: **paranasal** = beside the nose.

**parathyroid** = beside the thyroid.

**parapsychology** = beyond psychology.

**paresthesia** = tingling of the skin.

*Para-* may also be used as a suffix meaning *to bear (offspring)*.

**ab-** = from, away from.

Examples: **abduction** = movement of a limb away from (an axis of) the body. (-duction: act of leading, bringing, conducting)

**abnormal** = away from normal (not normal).

**aboriginal** = from the earliest inhabitants.

**ad-** = toward.

Examples: **adduction** = movement of a limb toward (an axis of) the body.

**adnexa** = adjoining an organ.

Examples: **circum**renal = around the kidney.

**circum**ventricular = around the ventricles (of brain).

**circump**ulpal = around the pulp.

**dia-** = through, across, completely, apart...

Examples: **diarrhea** = flow through.

**diameter** = the distance from one side to the other, through the center.

**dialysis** = filtration and purification of blood using a machine.

**diagnosis** = identifying a disease.

**diagonal** = sloping line.

**diastema** (plural diastemata) = is a space between two adjacent teeth.

**diaphragm** = a barrier separating two cavities.

**diapedesis** = the passage of white blood cells through the walls of capillaries.

**diaphysis** = the shaft of a long bone.

**diabetes** = a disease of too high blood glucose.

**ecto-** = outside, outward.

Examples: **ectoplasm** = the outer part of the cytoplasm.

**ectoderm** = the germ layer that covers the outside of the embryo.

**endo-** = in, within.

Examples: **endocrine** = secretes within.

**endodontic** = treatment of the soft pulp tissue inside the tooth.

**endothelium** = single layer of cells lining the interior surface of vessels.

**endometrium** = the innermost lining layer of the uterus.

**endocardium** = the innermost lining layer of the heart.

**meso-** = middle, intermediate, between.

Examples: **mesopotamia** = between two rivers (Iraq, between Tigris and Euphrates).

**mesoderm** = a germ layer between ectoderm and endoderm.

**mesencephalon** = the midbrain.

**en-** = inside, in, within, put in, cause to be, make into.

Examples: **encephalon** = inside the skull.

**encircle** = put in a circle.

**encourage** = cause to be courageous.

**embody** = make into a body.

**ex-, exo-** = out, outside, previous.

Examples: **exodontia** = tooth out (extraction).

**exit** = a way out.

**expresident** = the previous president.

**ec-** = out from, away from.

Examples: **eccentric** = away from the center or the axis.

**ectopic** = in an abnormal place or position.

**Exercise:** Search the web, textbooks and other resources for additional examples of the abovementioned prefixes, their meanings and uses.