

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



Medical Terminology First class



Prefixes used in dental terminology

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Objectives



- Define and pronounce some prefixes denoting quantity and number.
- Define and pronounce some prefixes denoting color.
- Define and pronounce some prefixes denoting size or degree.



A **prefix** (**PRE**-fix) is the first building block of a word division that begins a term. A prefix alters the word's meaning by indicating **number**, **color**, **size**, **location**, or **condition**.



Some common prefixes used in dental terminology.

Example of prefixes denoting quantity and number are:

Prefix	Meaning	Example	Pronunciations
a- an-	without	Anemia	(ah- NEE -me-ah)
bi-	two, double	Bifurcation Bilateral Bicuspid	(bye -fur- KAY -shun) bī'kəspəd
hemi-	half	hemisection	(HEM -ih- seck -shun)
mon/o-	one	Monomer Monocular	(MON -oh-mer)
poly-	many	polymerization	(pol -ah- mer -ah- ZAY -shun)
prim-/i-	first	Primary	(PRY -mary)

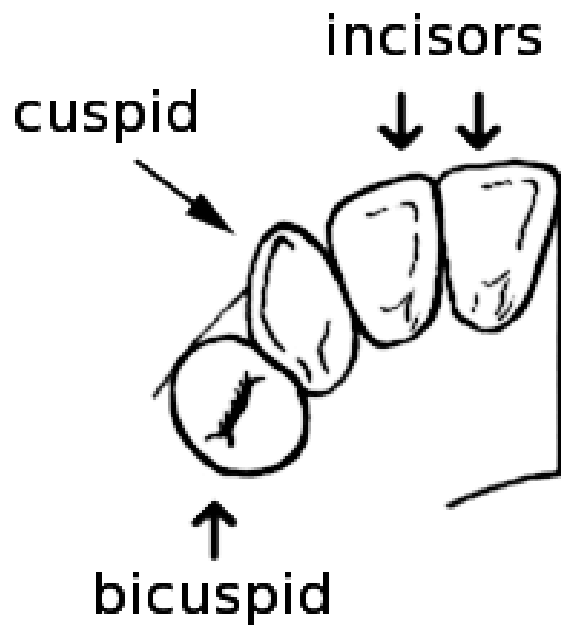
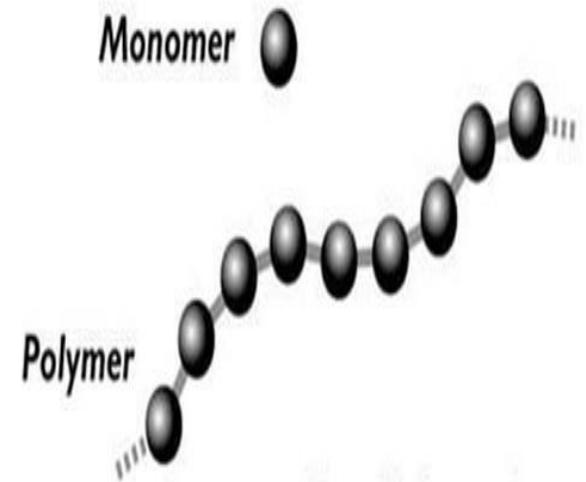
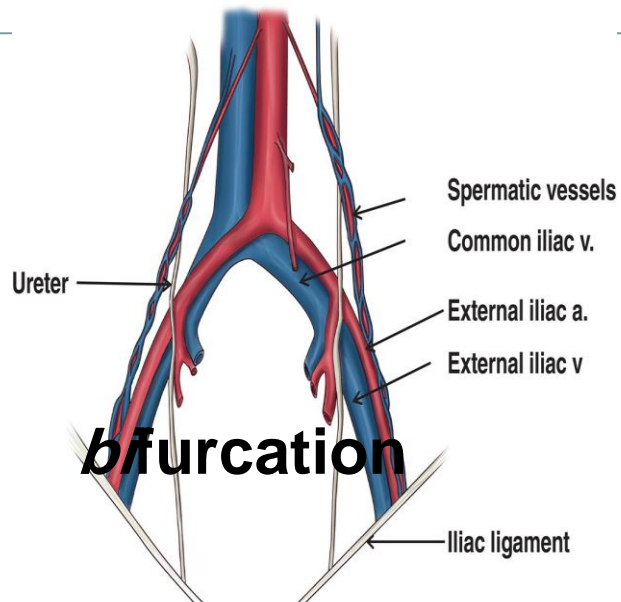
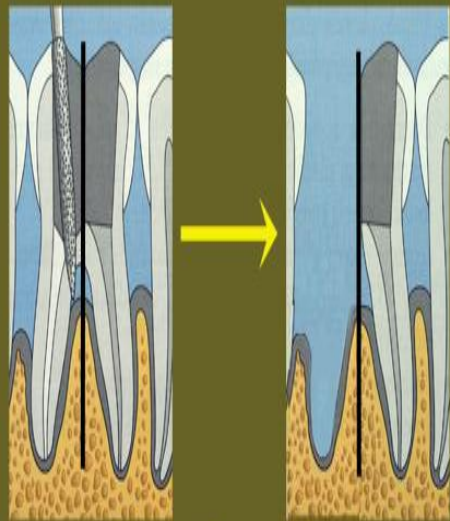
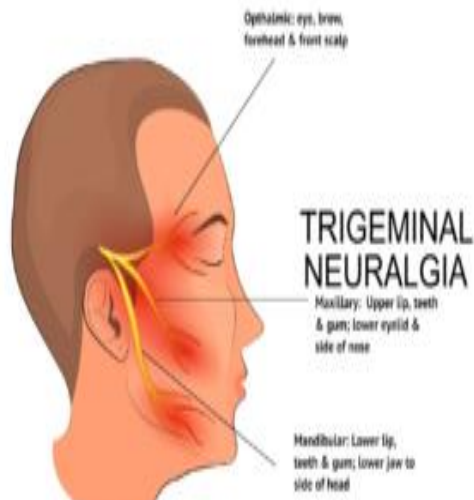
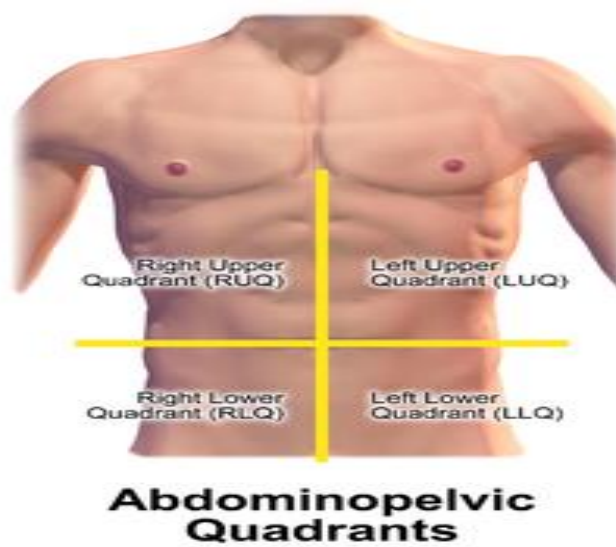


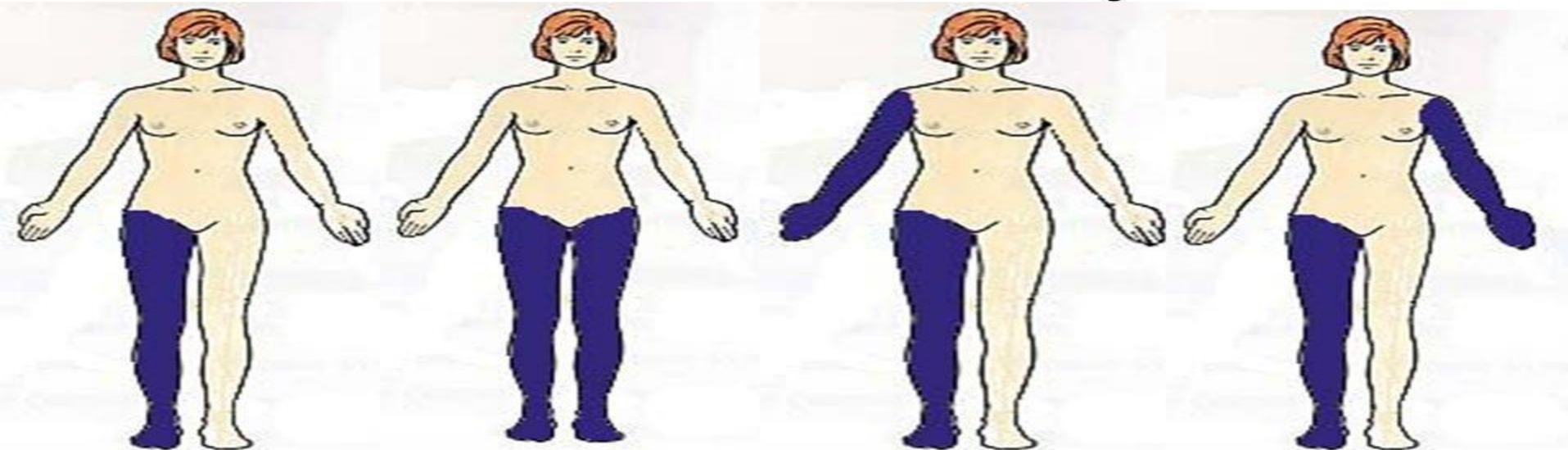
Figure 1



Prefix	Meaning	Example	Pronunciations
quad- /quat-	four	Quadrant Quadriplegia	(KWAH -drant) ,kwädrə'plēj(ē)ə
semi-	half	Semiluminal	(sem- EE -lum-in-al)
tri-	three	trigeminal	(try- JEM -in-al)
uni-	one	Unilateral	(you-nah- LAT -er-ol)
holo-	all	holistic	(ho- LIS -tick)



Terms of Laterality



Unilateral:
One Side

Bilateral:
Two Sides

Ipsilateral:
Same Side of Body

Contralateral:
Opposite Side of Body



EXAMPLES OF PREFIXES DENOTING COLOR

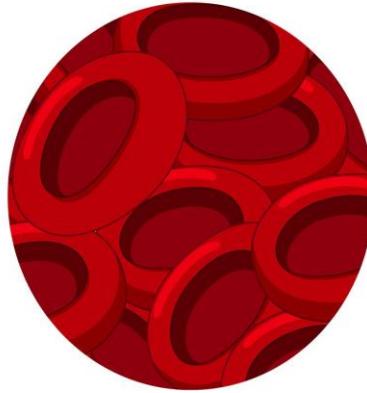
Prefix	Meaning	Example	Pronunciations
albus-	white	albumen albinism	(al- BU -men) 'albəˌnizəm
chlor-/o-	green	chlorophyll	(CHLOR -oh-fill)
cyan-/o-	blue	cyanosis	(sigh -ah- NO -sis)
erythr-/o-	red	erythrocyte	(eh- RITH -row-site)
leuk-/o-	white	leukoplakia	(loo -koh- PLAY -key-ah)
melan-/o-	black	melanoma	(mel -ah- NO -ma)
xanth-/o-	yellow	xanthoma	(zan- THO -ma)



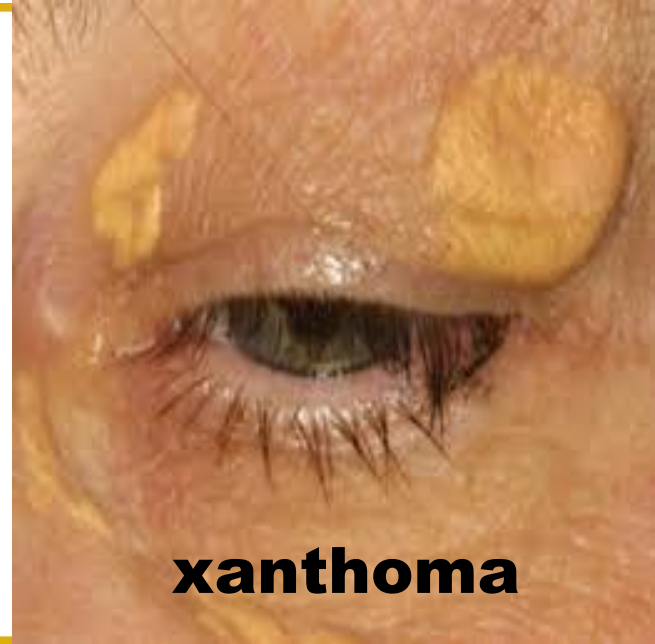
cyanosis

Erythrocytes

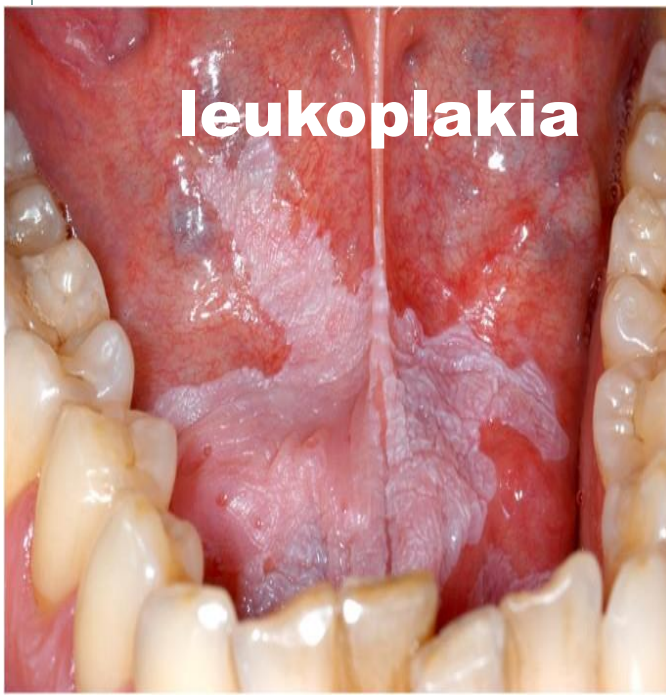
The erythrocyte, commonly known as a red blood cell (or RBC), is by far the most common formed element: A single drop of blood contains millions of erythrocytes. In fact, erythrocytes are estimated to make up about 25 percent of the total cells in the body.



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xanthoma



leukoplakia



melanoma



albinism



A root occasionally has more than one prefix with the same meaning. One meaning may stem from Latin and another may be Greek. For example, *alba*, from the Latin word *Albus*, refers to white, such as in *albumen* and *albino*. *Leuko* is a Greek prefix meaning white and is used in *leukoplakia* (a white, precancerous patch found inside the cheek). Although *leuko* may be more popular, both prefixes are correct.



**PREFIXES
DENOTING SIZE
OR DEGREE**

Prefix	Meaning	Example	Pronunciations
hyper-	over/excess	Hypertrophy hypertension	(high- PER -troh-fee) hīpər'tenSHən
hypo-	under/ below	hypoplasia hypoglycemia	(high-poh- PLAY -zee-ah)
iso-	equal	isograft	(I -so-graft)
macro-	large	Macrodontia macroglossia	(mack -row- DON -she-ah)
micro-	small/minute	microbe micro g nathia	(MY -crobe)
pan-	all around	panoramic	(PAN -oh- ram -ic)
heli-	sun / light	heliograph	(HE -lī-oh- gr af-ic)

Normal Heart



Chambers relax and fill,
then contract and pump.

Heart with Dilated
Cardiomyopathy

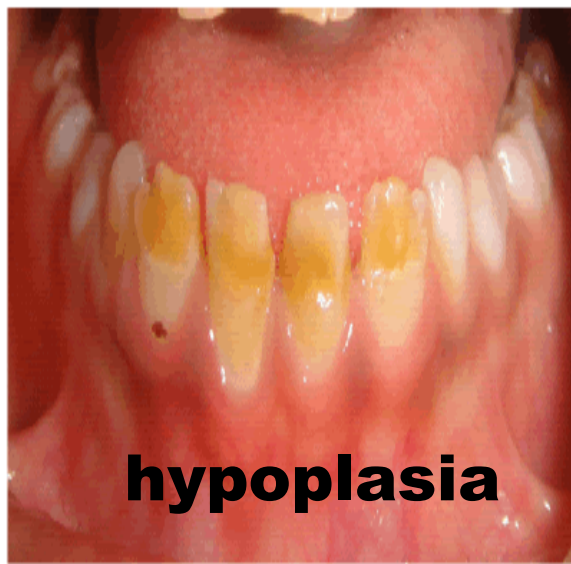


Muscle fibers have stretched,
Heart chambers enlarge.

hypertrophy



isograft



hypoplasia



macrodontia

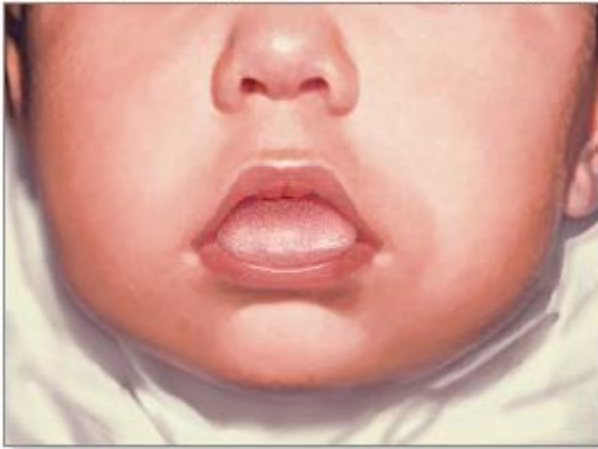
Junior Dentist



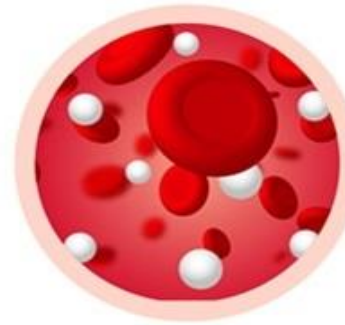
panoramic

Figure 1: Intraoral photograph showing hypoplastic 36, 32, 31, 41, 42, 46.

Macroglossia (abnormally large tongue)



HYPOGLYCEMIA
low sugar



NORMAL LEVEL
normal sugar



HYPERGLYCEMIA
high sugar

ADAM.

micrognathia

(A)



(B)



A close-up photograph of a hand holding a yellow daffodil flower. The hand is positioned in the lower right, with fingers gently gripping the green stem. The daffodil has six bright yellow petals and a green center. The background is a soft, out-of-focus white and light blue.

Thank You