

# INTRODUCTION TO DENTISTRY



LEC NO.: Lecture 2

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## **Introduction to Dentistry**

**Lecture 2: Dental Terminology** 

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## **Dental Terminology**

Dental terminology involves the study of words and terms related specifically to the dental sciences. معملها مدا يعن العاملة على معملها عن العاملة ال

Dental terms are usually formed by a combination of small words or syllables linked in a "building block" or word chain. بناع على معينة بنائيدها المعطان من خلالها بناع من حالة الله المعطان الراامرياني من حالة الله المعطان الراامرياني من حالة الله المعطان المعطا

- > The names of bones or structures
- > The names of dental procedures or practical approaches.

المعاطي مدى كانون Dental Terms		
<b>Prefix</b>	المقطع الاساسي اللي بنفيف عليه Root	Suffix

Acronyms: an <u>abbreviation</u>

Eponyms: a person after whom a discovery, invention, place, etc., is named

Homonyms: two or more words having the same spelling but different meanings.

## **Dental Terminology**

A prefix 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.

Table 1-1 Examples of Prefixes Denoting Quantity or Number

Prefix	Meaning	Example
bi- two,	double	bifurcation
hemi-	half	hemisection
prim-/i-	first	primary
quad-/quat-	four	quadrant
semi-	half	semiluminal
Tri-	three	trigeminal
Uni-	one	unilateral

## **Table 1-2** Examples of Prefixes Denoting **Color**

<b>Prefix</b>	Color	Example
Albus-	white	albumen
cyan-/o-	blue	cyanosis
Erythr-/o-	red	erythrocyte
leuk-/o-	white	leukoplakia
melan-/o-	black	melanoma
xanth-/o-	yellow	xanthoma

## **Table 1-3** Examples of Prefixes Denoting **Size or Degree**

<b>Prefix</b>	Meaning	Example
hyper-	over/excess	<i>hyper</i> trophy
hypo-	under/below	hypoplasia
macro-	large	<i>macro</i> dontia
micro-	small/minute	<i>micro</i> be
pan-	all around	<i>pan</i> oramic
ultra-	extreme/beyond	<i>ultra</i> sonic

**Table 1-4** Examples of Prefixes Denoting **Location or Direction** 

Prefix	Meaning	Example
ab-	away from	Abduction
ad-	toward/near	Adduction
ambi-	both sides	<i>ambi</i> dextrous
de-	down from	<i>de</i> hydration
dexi-	right side	dexter
ecto-	outside	<i>ecto</i> pic
endo-	within	<i>endo</i> dontic
epi-	upon/over	<i>epi</i> dermis
ex/o-	out from	excretion

**Table 1-4** Examples of Prefixes Denoting **Location or Direction** 

<b>Prefix</b>	Meaning	Example	
infra-	below	<i>infra</i> orbital	
inter-	in midst of	interdental	
im-	into/position	<i>im</i> plant	
mes-/o-	mid, among	<i>mesio</i> clusion	
para-	near/beside	parasagittal	
peri-/o-	around	<i>perio</i> dontal	
pre-/ante-	before	<i>pre</i> molar	
retro-	behind/back	<i>retro</i> molar	
sub-	under, lesser	<i>sub</i> dermal	
supra-	above/over	<i>supra</i> orbital	

## **Examples of Prefixes Denoting Condition**

<b>Prefix</b>	Meaning	Example
a-, an-	without	<i>an</i> odontia
Brady-	slow	<i>brady</i> cardia
Tachy-	fast	<i>tachy</i> cardia
contra-	against	contrangle
dis-	take away	disinfectant
in-	not	<i>in</i> soluble
mal-	bad	malocclusion
un-	non/not	<i>un</i> erupted

### A Root Word: The main section or division of a term that provides the

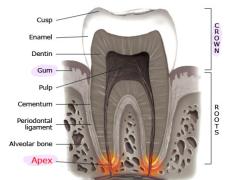
foundation or basic meaning -> rerm are wife of the deli

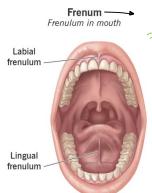
## **Table Common Dental Root / Combining Forms**

Root	Combo Form	Pertains To
Alveolar	alveo	alveolus
🔊 Apical	apic-/o-	apex of a root
Buccal	bucc-/o-	cheek
Coronal	coron-/o-	crown
Dens	dent-/o-	tooth
Distal	dist-/o-	farthest from center -> Middine الا بعد عن
Enamel	ename-/o- or amel-/o-	tooth, enamel tissue
Frenum	frene-	frenum
Gingiva	gingiv-/o-	gingiva, gum tissue -> اللثة و انسجة اللثة
Glossa	gloss-/o- or gloss/a	tongue → اللسات
Gnatho	gnath-/o-	jaw, cheek → فك / حند
Incisor	incis-/o-	incisor tooth 🗻 هُوا ولع









ئية نمشا ئية اوالعشاء الدعاطي بديم الربقب عرفة عفو معين .

> Cleveland Clinic

## A Root Word: The main section or division of a term that provides the foundation or basic meaning

#### **Common Dental Root/Combining Forms**

Root	Combo Form	Pertains To
Labia	labi-/o-	lip area
Lingua	lingu-/o-	tongue
Mesial	mesi-/o-	middle, midplane
Mucosa	muc-/o-	tissue lining an orifice -> الانسمة المسملة
Occlude فنو	occlus-/o-	occluding, jaw close
Odont	odont-/o-	tooth
orthos نعر	orth-/o-	مل تقویم ال سنات ہے Orthodontics من تقویم ال سنات ہے
stoma	stoma-	mouth

## A suffix: An element added to the end of a root word or combining form to describe or qualify the word meaning is

#### **Table** Examples of Suffixes **Indicating Condition**

Suffix	<b>Condition of Root Foundation</b>	Sounds Like
-ia	anesthesia (without feeling)	(an-es-THEE-zee-ah)
-id	cuspid (cusp shape)	(CUSS-pid)
-ion	occlusion (bite)	(oh-CLUE-shun)
-ism	brux <i>ism</i> (tooth grinding)	(BRUCKS-ism)
-itis	arthritis (joint inflammation)	(ar-THRI-tis)
-pathy	myopathy (muscle disease)	(MY-oh-path-ee)
-tion	mastication (chewing)	(mass-tah- <b>KAY</b> -shun)

## A suffix: An element added to the end of a root word or combining form to describe or qualify the word meaning is

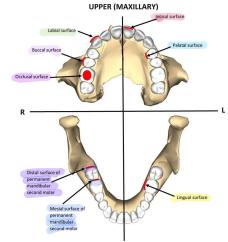
### **Table** Suffixes Expressing Medical Terms, Processes, Uses

Suffix	Meaning	Sample Words
-algia	pain	Sample Words odont <i>algia</i> , neurol <i>agia</i> , my <i>algia</i>
-cide	kill	germicide, homicide
-cyte	cell	leuko <i>cyte</i> , osteo <i>cyte</i>
-ectomy	surgical > 1 herm	removal apicoectomy, appendectomy
-plasty	surgical repair	gingivoplasty
-tomy	incision	myotomy (muscle)

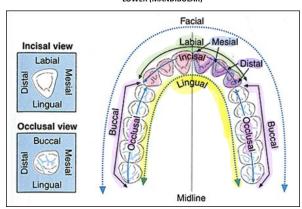
## **Tooth surfaces**

✓ Side of face forming lateral wall of the mouth

- Buccal: towards the check
- Lingual : toward the tongue >
- Labial : towards the lips منجناه الشفاه
- Palatal : towards the palate 🕳 نفاك
- Mesial= towards the midline
- Distal = away from the midline
- Occlusal the direction towards the biting surface of posterior teeth for incisors
- Incisal= the direction towards the biting edge of anterior teeth



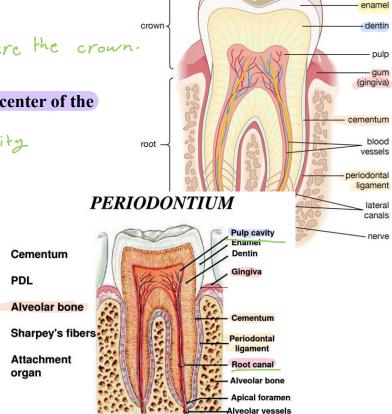
LOWER (MANDIBULAR)



## **Tooth layers**

- Enamel -> bone structure covere the crown.
- Dentin = tissue of tooth <u>surrounding the pulp</u>
- Pulp = (soft, vascular tooth tissue) is found in the center of the tooth. it contains &-
- Pulp chamber = found in the crown = Pulp cavity
- Pulp canal = found in the root = Root canal
- Gums / Gingiva -> Ecul !
- Alveolar bone مراية المام ما المام الما
- Cementum = tissue covering of tooth root)
- Periodontal ligament -> الجزء الذي يشبت

band of fibrous tissue connecting bones or cartilages, serving to support and strengthen ioints

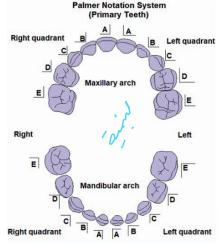


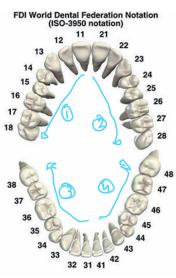
& nerves

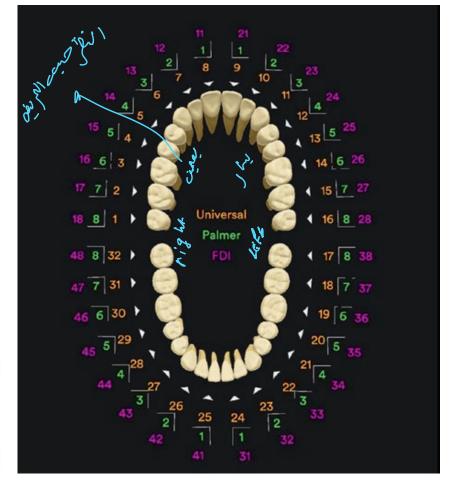
## **Tooth Numbering Systems** ->

ا نظمت ترفيع الدسان

- Symbolic (Palmer) system notation (L 1-8) 1. ىل ربع يُوْفع من [8-1] مع لك سنات الدائقة
- Universal numbering system. (# 1-32) على الى نب الله يعن النعاية المجعة العلوية و بعد ين بكعل من الجعة السرى من الفلاح السفلي إلى نعايته على الى نب الله يعن النعاية المجعة العلوية و بعد ين بكعل من الجعة العلوية و بعد ين المجعة العلوية و بعد ين المجلة المجلة العلوية و بعد ين المجلة المجلة العلوية و بعد ين المجلة ال







دانمیه ب ارفام لبنیة ب رموز احرف (۲- A)

## **Primary or Deciduous dentition**

The 20 deciduous teeth erupting first are commonly called "baby teeth" or primary teeth.

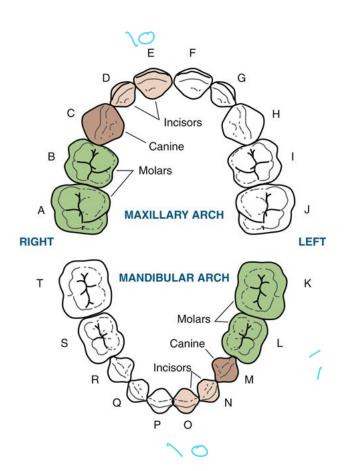
(6 month - 2.5 years)

central

Lower incisors

upper incisors

central

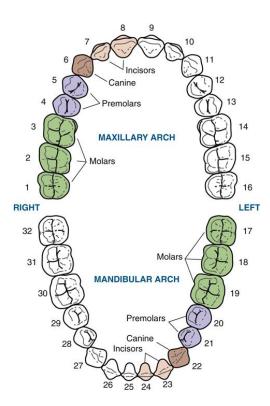


## **Succedaneous or Permanent teeth**

عن في الله ا

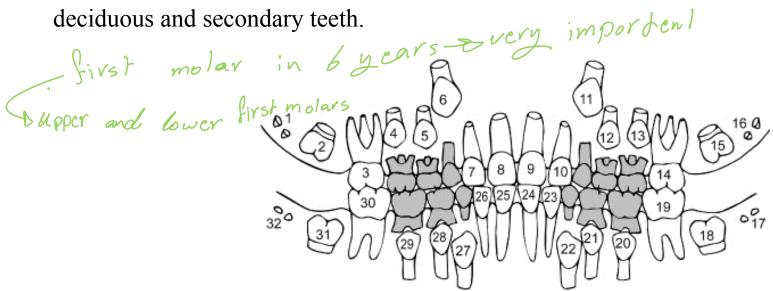
The 32 permanent teeth that erupt and replace the deciduous teeth are commonly called secondary teeth.

الاستأت التي كُل فحل الاستان اللين



## Transition or Mixed dentition period

Mixed dentition occurs from age 6 to 12, when the dentition contains both deciduous and secondary teeth.



## الحاك س المشا يَحْق التي توء مُ على لجويف الفم

## Common conditions that affecting the oral cavity

**Dental caries:** tooth decay= cavities in the teeth caused by

bacteria -> سبب البكثير يا

Odontalgia: toothache = pain in the tooth > ناسنات خو الاسنات

Bruxism: = involuntary grinding of the teeth that usually occurs

عريراك سنان سلوك ني واي يحدث عادة اشاء النوم



## **Dental Terminology**

Natal teeth are present at birth which develop and erupt during the intrauterine life

ظلعورا لا سنات المنح an anomaly in which teeth appear smaller than the normal فلعورا لا سنات المحكامة

Macrodontia refers to a tooth or a group of teeth that are larger than normal.

Anodontia is described as complete agenesis of the dentition.

م عدم علمورا سنات ا منعى ا

Supernumerary teeth, also known as hyperdontia, refer to the presence of an additional tooth or teeth to the existing series of teeth.

Hyperdontia

