# Introduction To Medial Terminology



## Medial Terminology

- ❖ Medical terminology refers to the specialized language used by healthcare professionals to describe the human body, its conditions, procedures, and treatments.
- Understanding medical terminology is essential for clear communication among doctors, nurses, pharmacists, and other healthcare workers.
- ❖ Medical terminology consists of a system of words and phrases, often derived from Latin or Greek roots, that provide precise descriptions of medical concepts.
  - For instance, two different roots may share the same meaning, such as dermatos (Greek) and cutane (Latin), both referring to the skin.
  - Greek roots are used for building up the words that describe a disease, condition, treatment, or diagnosis.
  - Latin roots are used to build up words that describe anatomical structures.



# Components of Medical Terms

Prefix	Root word	Suffix		
Added to the beginning of a root word to modify its meaning	The core of the term, often representing a body part or system	Added to the end of a root word to indicate a procedure, condition, or disease		
Usually indicates a number, time, position, direction, or negation, absence	All terms have one or more word root	All terms must have a suffix		
<b>\</b>	<b>\</b>	<b>\</b>		
Peri-	Cardi-	-itis		
Pericarditis				



### Components of Medical Terms

### **Are all components required to be present in every term?**

- All terms must include at least one root word and a suffix.
- A prefix is not always necessary when creating a medical term.

#### **There are 3 basic rules to link between root words and the suffix.**

- When adding a suffix to a root word we look at the first letter of the suffix
  - If it was a vowel we links them directly e.g., Cardi- + -itis = Carditis
  - If it was a consonant we add the combining vowel "o" Cardi + pathy = Cardiopathy
- When linking 2 root words we always add the combining vowel "o" between them e.g., Cardi- + Vascul- + ar = Cardiovascular
- When adding a prefix to a term, it is linked directly to the root word without adding the combining vowel "o" e.g., Peri + Carditis = Pericarditis



# Root word examples

English	Greek	Latin
Mouth	Stomat-	Or-
Skin	Dermat-	Cutane-
Kidney	Nephr-	Ren-
Heart	Cardi-	Cardi-
Bone	Oste-	Osse-
Joint	Arthr-	Chondr-
Stomach	Gastr-	-
Liver	Hepat-	-

**Note 1**: Root word + Combining vowel = Combining form, e.g., gastr/o

Note 2: The combing vowel has no meaning of its own



# Suffix examples

Suffix	Meaning	Suffix	Meaning	
-scope	instrument to view	-algia	Pain	
-rrhea	excessive flow or discharge	-uria	Urine, urination	
-stenosis	narrowing, stricture	-emia	blood	
-rrhexis	rupture	-edema	swelling	
-toxic	poison	-osis	abnormal condition	
-pathy	disease	-ectomy	Excision	
-megaly	enlargment	-itis	inflammation	
<b>Note 1</b> : All the following suffixes begin with a consonant, therefore a combining vowel must be used between the word root and the suffix		<b>Note 2</b> : All the following suffixes begin with a vowel, therefore a combining vowel is NOT used between the word root and the suffix		



# Prefix examples

Prefix	Meaning	Prefix	Meaning	Prefix	Meaning	Prefix	Meaning
Uni; Mono	1	Multi-	Many	Epi-	Above	Dys-	Painful
Di- & B-	2	Hemi-	Half	Нуро-	Bellow; Low	Brady-	Slow
Tri-	3	Micro-	Small	Hyper-	High	Tachy-	Fast
Terta-	4	Macro-	Large	Eu-	Normal	Ab-	Away from
Penta-	5	Pre-	Before	Homo-	Same	Ad-	Toward
Hexa-	6	Post-	After	Hetero-	Different	Poly-	A lot
Hepta-	7	Intra-	Within	Endo-	Inside	Oligo-	Few
Octa-	8	Inter-	Between	Ecto-	Outside	A-; An-	Not
Nona-	9	Retro-	Behind	Para-	Beside	Anti-	Against
Deca-	10	Circum-	Around	Peri-	Around		



# Changing From Singular To Plural

Formed by adding or substituting another vowel or syllable at the end of a word (i.e. modifying the suffix.)

#### **Examples**

- macula → maculae
- diagnosis → diagnoses
- $\circ$  appendix  $\rightarrow$  appendices
- phalanx → phalanges
- adenoma → adenomata
- spermatozoon → spermatozoa
- $\circ$  ovum  $\rightarrow$  ova
- o glomerulus → glomeruli
- biopsy → biopsies



Ru	ıle	Exa	mple
Singular	Plural	Singular	Plural
-a	Retain a and add e.	pleura	pleurae
-ax	Drop x and add ces.	thorax	thoraces
-en	Drop en and add ina.	lumen	lum <i>ina</i>
-is	Drop is and add es.	diagnosis	diagnoses
-ix	Drop ix and add ices.	appendix	append <i>ices</i>
-ex	Drop ex and add ices.	apex	apices
-та	Retain ma and add ta.	carcino <i>ma</i>	carcinoma <i>ta</i>
-on	Drop on and add a.	ganglion	gangli <i>a</i>
-um	Drop um and add a.	bacterium	bacteri <i>a</i>
-us	Drop us and add i.	bronchus	bronchi
-y	Drop y and add ies.	deformity	deformities

### Eponyms

- **Eponyms** are medical terms derived from the name of a person.
- Many procedures and tests are also named after the person who invented or perfected them.

<b>Examples of diseases</b>	<b>Examples of body parts</b>	<b>Examples of tools</b>
<ul><li>Addison's disease</li><li>Alzheimer's disease</li></ul>	<ul><li>Bowman capsules</li><li>Wernicke's center or area</li></ul>	<ul><li>Foley's catheter</li><li>Hegar dilators</li></ul>
<ul><li>Cushing's syndrome</li><li>Parkinson's disease</li><li>Stokes-Adam's syndrome</li></ul>	Cowper's glands	<ul> <li>Hasson's trocar</li> </ul>



### Acronyms

\*Acronyms are medical abbreviations. They are used very frequently in medicine. They boost efficiency as long as they are used intelligently.

#### **Examples**

- ACE → (angiotensin converting enzyme)
- ACTH → (adrenocorticotropic hormone)
- AIDS → (acquired immune deficiency syndrome)
- HDL → (high density lipoprotein)
- $\circ$  Hx  $\rightarrow$  (history)
- $\circ$  MI  $\rightarrow$  (myocardial infarction)
- $\circ$  RBC  $\rightarrow$  (red blood cells)
- RBBB → (right bundle branch block)
- $\circ$  TB  $\rightarrow$  (tuberculosis)
- ADH → (anti-diuretic hormone)

