

## LINGUISTIC APPROACH TO MEDICINE. TOOLS FOR PRECISION IN MEDICAL TERMINOLOGY

*Khushmeet Kaur*<sup>1</sup>, *S. Yorova*<sup>2</sup>

### *Abstract:*

For centuries, Latin alphabet has remained pivotal in the field of science, medicine, and anatomy. It has served as the foundational part of numerous languages and terminologies, adding vocabularies to medicine so that clear communication and accurate anatomy and physiology description could take place. The purpose of this paper is to define ways of reading Latin alphabet vowels, consonants, and letter combinations as they pertain to medical terminology regarding human anatomy. Special focus is provided to case example pertaining the first declension of nouns so as to furnish complete construct of vocabularies for medical learners.

*Key words:* descriptive language, structures, nouns, Latin grammar, verb.

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Latin alphabet consists of 26 letters, which are categorized under vowels and consonants. The vowels a, e, i, o, and u are the principal sounds, while consonants provide more sound and meaning. It is critical to read and pronounce these letters and their combinations to construct medical terms. In anatomy, Latin serves as the descriptive language in which structures, conditions, and processes are named in the accurate terms. As an illustration, vena (vein) and costa (rib) are words that come from the Latin first declension of nouns and thus demonstrate the use of Latin grammar and vocabulary into medicine.

Vowel sounds in Latin are very different from those of English as they can and are pronounced much differently in modern contexts. Here are some examples along with the medical meanings associated with them.

1. A (ah): Its an open vowel, short in would be fossa example (fossa: "a trench needed in body in anatomy"), having a long form resembling "ah" like cāvā (hollow) in a deep voice.

- Fossa mandibularis is the depression which is in articulation with the skull and is situated in the mandible.

2. E (eh/ay): Rete (meaning network) is an example when the sound is pronounced for short form resembles "eh". In the case of vēna (meaning vein), it becomes closer to 'ay' so becomes 'ah' pronounceable to be long in form.

- Rete mirabile defines a net like appearance formed by blood vessels.

3. I (ee): Here the clip becomes an "ih" for a short period meaning digitus is roughly a finger while cūria drives it to stretch out to 'ee' in meaning court or care.

- Digitus medius is used for the middle finger.

4. O (oh): Sounds rounded as per vowel form os works bone or doss mouth and with os coxae which refer to the hip bone for their easy long pertain. Looks similar in beginning yet becomes further stretched for needed vowel off bone.

5. U (oo): With long form stretched resembling nūtrīcius meaning nourishing or work as lumbus whereby lumbus becomes alimento as aid for aid term or aid when lumbar region will be worked head anatomical term primary.

Like other languages especially Romance, Latin consonants follow a given pattern. Special care should be taken on certain letters and digraphs (two-letter combinations) that require special attention for accurate articulation:

1. C: Hard (like "k") before a, o, u, and consonants, use it in corpus (body). Before e or i, it is softened (like "ch"), as in cērebrum (brain).

- Corpus callosum is a thick band of nerve fibers connecting the brain's hemispheres.

2. G: Softens before e and i, as in genu (knee). Hard before a, o, u, and consonants, like in ganglion (nerve cell cluster).

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<sup>1</sup> Khushmeet Kaur, Student of International Educational Faculty, Samarkand State Medical University

<sup>2</sup> PhD, Yorova Sayora Karimovna, Head of the Department of Languages

• Genu valgum refers to a condition where the knees angle inward.  
 3. T: is always pronounced like "t" even before i in tibia (shinbone), unlike the English "sh" sound.

• Tibia is one of the two bones forming the lower leg.

4. V: Sounds like "w" in Classical Latin, but mostly as "v" in medical Latin. Set examples are vēna (vein).

5. X: Pronunciation is "ks", like in plexus (network).

• Plexus brachialis refers to the network of nerves supplying the arm.

In medical language, there are certain standards that have to be followed, including certain combinations of letters that tend to be quite complex. Here are some outstanding examples. The letters AE and OE are pronounced "ay" and "eh," respectively. Some terms that include these letters are namely, oesophagus (oesophagus) and aegrotus which means sick.

• The oesophagus is the part that connects the throat to the stomach and is a muscular tube.

• Similarly, in phalanx PH makes an 'f' sound, so instead of an f, it is referred to as PH.

• Phalanges are the bones constituting the fingers and toes.

• TH retains the 't' sound which is the case for the chest gland called the thymus.

• The immune system's development relies on the thymus gland.

• In chorda (cord) K is how CH is pronounced.

• Chorda tendinea is the term that is used to refer to the tendinous cables of the heart.

• The term Angulus oris refers to the mouth's corner.

Unlike other declensions, first declensions are usually feminine and end with an -a when in nominative singular form. Their influence is greatly seen when it comes to anatomical structures. Here are some words containing such examples:

1. Vena (vein):

• Singular: vena cava (the great vein that conveys blood to the heart).

• Plural: venae cavae (veins that are many and great).

2. Scapula (shoulder blade):

• Singular: scapula dextra (the right shoulder blade).

• Plural: scapulae (the blades of the shoulder in singular is both).

3. Fascia (connection tissue in sheet or band):

• Singular: fascia lata (broad one of the thigh).

• Irregular: fascial systems (a single fascial system).

4. Aorta (the largest artery):

• Individual: aorta ascendens (the ascending aorta).

• Collective: aortae (refers to different parts of the aorta as a whole).

Like any other new subject, students might find Latin challenging initially, but it readily begins to appeal to the eye once its logics and beauty is appreciated. Learning the set rules of vowels, consonants, and letter combinations improves understanding and pronunciation alike. For instance:

• Knowing particular anatomical features helps understanding vena portae and vena cava.

• Recognition of the grapheme ph in phalanx is helpful for avoiding mispronunciations.

• Recognition of terminal changes helps in solving complex terms like arteriae coronariae.

In addition, investigation into the origin of word comes with different approaches. For example, the term "mandible" comes from the Latin word "mandere" meaning "to chew," demonstrating where it gets its meaning from.

Conclusion. A big part of the medical vocabulary comes from Latin, and boasting its distinct systematic alphabet with spelling hints and grammar rules basically forms the groundwork of anatomy. The application of reading rules, especially those for vowels, consonants, and letter combinations, offer the students a sound grasp of anatomical language enabling them to articulate their field with perfection. First declension nouns serve to accentuate the usefulness of Latin in the description of human anatomy. Optimistic and curious students will not only find Latin helpful, but will discover the for the overwhelming world of medicine, language, and culture.

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