

## TEACHING AND LEARNING MEDICAL TERMINOLOGY

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**Annotation:** *Studying and teaching medical terminology is an integral part of modern medicine. With the help of well-organized teaching methods and modern technologies, students can learn complex aspects of medical terminology and successfully apply them in practice. Deepening and continuous updating of knowledge in the field of medical terminology serves to further improve the medical knowledge of students. Learning new terms and concepts related to the development of the medical field is important for ensuring success in medical practice in the future.*

**Аннотация:** *Изучение и преподавание медицинской терминологии является неотъемлемой частью современной медицины. С помощью хорошо организованных методов обучения и современных технологий студенты могут изучать сложные аспекты медицинской терминологии и успешно применять их на практике. Углубление и постоянное обновление знаний в области медицинской терминологии поможет студентам более эффективно совершенствовать свои медицинские знания. Изучение новых терминов и концепций, связанных с развитием медицинской сферы, важно для обеспечения успеха в будущей медицинской практике.*

**Keywords:** *medical, structure, study, teaching, methodology, scientific, practical, advantages, disadvantages, source, disease*

**Ключевые слова:** *медицинский, структура, изучение, преподавание, методология, научный, практический, преимущества, недостатки, источник, болезнь*

Medical terminology is a set of terms used in the field of medicine, which are necessary for the effective provision of medical services, scientific research and international cooperation. Medical terms are distinguished by a complex and often unique language structure, therefore, their study and correct use are of particular importance, especially for medical professionals. Effective methods of studying and teaching medical terminology, including the use of modern technologies, have become increasingly relevant in recent years.

Medical terminology is a set of terms used in various branches of medicine, the main purpose of which is the correct and accurate exchange of information in the process of scientific and practical work. Through these terms, specialists communicate with each other, as well as gain a clear understanding of diseases, treatment methods, diagnostics and other medical processes. Correct teaching of medical terminology is of great

importance in preparing students to master modern medical knowledge and work in the field.

There are many effective ways to teach medical terminology. Each method has its own advantages and disadvantages. The following methods are widely used:

1. Theoretical methods. In this method, students gain knowledge about the basic rules, structure and use of terminology through textbooks and lectures. When using theoretical methods, clear and understandable explanations, examples, as well as scientific sources are important for students.

2. Practical methods. Practice plays an important role in learning medical terminology. Through practical exercises and simulations, students learn to use terms in real medical situations. For example, the correct use of terms is required when describing diseases or explaining medical procedures.

3. Interactive methods. The introduction of interactive learning using modern technologies increases student motivation. Learning medical terminology with the help of online courses, video lessons and mobile applications becomes more convenient and effective. Interactive methods create an opportunity for students to remember terms and use them correctly in practice.

There are specific stages of learning medical terminology:

1. Elementary stage. At this stage, students are introduced to the basic concepts of medical terminology. They learn basic terms related to anatomy, physiology, and medical diagnostics.

2. Intermediate stage. Students learn more complex medical terms. For example, they are introduced to pathology, pharmacology, and therapeutic terms. At this stage, it is important to learn how terms are used in context.

3. Advanced stage. At this stage of the learning process, students master complex terminologies related to new medical technologies, diseases, and innovative treatment methods. During this period, students have the opportunity to correctly use specific and complex terms related to practical medicine.

There are several difficulties in the process of learning medical terminology. The first difficulty is that medical terms are often complex and specific, making it difficult to remember them correctly. Also, understanding and applying terms borrowed from Latin and Greek can be difficult for students. Another problem is the frequent emergence of new medical terms and the need to regularly study these innovations.

Modern technologies are creating new opportunities in the study of medical terminology. With the help of mobile applications, virtual laboratories and systems based on artificial intelligence, students can learn medical terms more quickly and effectively. These technologies provide students with an interactive experience and help consolidate their knowledge.

Medical terminology is a set of special terms used in various branches of medicine, the accurate and correct study of which prepares students for successful work in their

specialty. The process of teaching medical terminology not only teaches students to learn words, but also to use these terms correctly and effectively in various contexts.

Below are effective methods for teaching medical terminology.

### 1. Theoretical Methods

Theoretical methods are necessary to create basic knowledge in the study of medical terminology. They can consist of the following:

- Textbooks and manuals: Textbooks and scientific manuals are an important source for learning the basic concepts of medical terminology. Through textbooks that contain basic medical terms, students learn not only the meaning of words, but also their structure and application.
- Lectures and classes: Teachers explain basic terms through classes and lectures. In this method, it is necessary to show students terms related to a particular medical field in context with examples, and to fully explain their meaning. The student learns to remember the words himself and use them in practice.
- Dictionaries and Indexes: Medical dictionaries and term indexes help students quickly find and learn terms about various diseases, treatments, and diagnostic procedures.

### 2. Practical Methods

Practical methods provide the opportunity to use words in real-life situations when learning medical terms. With these methods, students learn to apply the terms they have learned in practice. These methods include:

- Description of diseases and treatments: Students learn medical terms in context by describing various diseases and their treatments. For example, they develop an understanding of the symptoms and treatments of various diseases.
- Case studies: Students are given clinical case studies, that is, examples of various diseases or medical situations. Through this method, they learn to use the terms to solve real-life medical problems.
- Simulation and List Making: With the help of simulations, students can see the terms used in various medical situations and learn to use them in practice. For example, by simulating medical procedures or diagnostic processes, students learn to use medical terms correctly.

### 3. Interactive methods

Interactive methods are very effective in the modern teaching process. With these methods, students communicate with each other, learn from each other, and practice applying the knowledge learned in real situations.

- Online courses and video lessons: Online platforms and video lessons specially created for learning medical terminology allow students to master the topics quickly and effectively. Through video lessons, for example, short and clear explanations about medical procedures or diseases are provided.



- Virtual laboratories and simulators: The use of virtual laboratories or simulators in the medical field allows students to practically learn the use of terms in various medical situations. With the help of such technologies, students learn the terms used in medical practice in real-life situations, but in a safe environment.

- Groups and discussions: Students can be divided into groups and discuss among themselves. In this method, students share medical terms with each other and exchange ideas about when they should be used. Through discussions, they further strengthen their understanding and application of the terms.

#### 4. Social and practical methods

Social and practical methods teach students how to use medical terms in real-life situations.

- Clinical practice: Clinical practice, which is conducted in medical faculties or medical institutions, introduces students to real medical situations. In these practices, students learn the practical application of medical terminology, errors and misunderstandings related to terms.

- Medical Interpreting and Translation Activities: For medical interpreters, it is very important to learn medical terminology and teach them how to use it correctly. Interpreters need to know the correct terminology in order to translate medical information accurately and correctly.

Medical terminology teaching methods include many approaches, so a combined approach of different methods is very effective for teachers and students. With the help of theoretical knowledge, practical exercises, interactive technologies and clinical practices, students learn not only to remember medical terms, but also to use them correctly and effectively. With the help of modern pedagogical technologies and interactive approaches, the process of learning medical terminology becomes much more interesting and effective for students.

Medical interpreters and specialists need to turn to various resources in order to correctly and accurately translate specialized terms in the medical field and become competent in their practical use. Medical translation is a delicate profession that requires not only language proficiency, but also a good understanding of medical knowledge and terminology. Therefore, there are various resources available to medical translators and professionals to help them learn and improve their work processes.

#### 1. Medical Dictionaries and Terminology Collections

- Medical Dictionaries: Medical dictionaries help translators and professionals to know and learn the exact and correct meanings of medical terms. At the same time, medical dictionaries help to understand the multiple meanings of medical terms.

- Dorland's Illustrated Medical Dictionary: This dictionary is widely used in the medical field and contains accurate medical terms.

- Stedman's Medical Dictionary: One of the most popular dictionaries in the medical field, providing accurate and complete medical terms.

- Taber's Cyclopedic Medical Dictionary: A comprehensive medical dictionary that provides accurate definitions for medical professionals.
- Online Medical Dictionaries: Medical dictionaries available online make learning easier. For example:
  - MedlinePlus Medical Dictionary
  - Merriam-Webster Medical Dictionary
- International Medical Dictionaries: International dictionaries are also useful for translators to use when translating from one language to another. For example:
  - ICD-10 (International Classification of Diseases): An international classification system that includes common terms for diseases.
  - SNOMED CT (Systematized Nomenclature of Medicine Clinical Terms): A standardized system of clinical terms.

## 2. Online Resources and Platforms

- Online Courses: Online courses and trainings in medical translation and specialization help in learning medical terms. Through these courses, translators can expand their knowledge and improve their skills. For example:
  - Coursera: There are various courses in medical translation.
  - Udemy: Courses in medical translation and medical terminology.
  - edX: Educational resources for medical translation and subject matter expertise.
- Online terminology databases: Translators can use online databases and systems to translate medical terms accurately and efficiently.
  - EuroTermBank: A platform that contains European medical and technical terminologies.
  - IATE (Interactive Terminology for Europe): An online resource developed by the European Union that contains medical terminology.
- Medical translation platforms: Platforms for collaboration and information exchange between medical translators.
  - ProZ.com: Professional forums, surveys, and resources for medical translators and experts.
  - TranslatorsCafe: A social network and resources for translators.

## 3. Medical Articles and Journals

Medical translators and specialists need to use scientific articles and journals to learn about the latest news in their field and keep up to date with scientific terminology. Through such resources, translators and specialists can acquire new medical terms and knowledge.

- PubMed: One of the largest resources for medical articles and scientific research, providing updates on medical terms and their usage. (<https://pubmed.ncbi.nlm.nih.gov/>)
- Google Scholar: Used to search for medical and scientific articles. (<https://scholar.google.com/>)

- JAMA (Journal of the American Medical Association): The latest news and scientific work in the field of medicine.

- The Lancet: One of the most prestigious medical journals, providing articles and scientific research in the field of modern medicine.

#### 4. Medical Translation and Specialty Books

- "Medical Translation Step by Step": A book written for medical translators, teaching how to translate various medical terms and how to use them correctly.

- "The Handbook of Medical Translation": A practical guide for medical translators, a guide to help translate medical terms and specialized terminology.

#### 5. Scientific Resources for Medical Professionals

- UpToDate: A scientific resource for medical professionals, providing news, medical advice, recommendations, and diagnostic approaches. (<https://www.uptodate.com/>)

- Medscape: A resource for medical news, information, and clinical advice. (<https://www.medscape.com/>)

- The BMJ (British Medical Journal): A journal that provides medical scientific articles and news. (<https://www.bmj.com/>)

#### 6. Medical Translation Tools and Applications

- SDL Trados Studio: One of the most popular translation tools for medical translators, it helps with the use of medical terminology.

- MemoQ: A professional translation platform for translators, it helps with the translation of medical terminology.

- Wordfast: Another popular tool used for medical translation.

For medical translators and specialists, resources are very important for learning, updating and improving their skills. With the help of medical dictionaries, online courses, scientific journals, medical translation software and other resources, they can learn medical terminology in depth and successfully apply it in practice. Modern technologies and resources make the learning process more efficient and convenient for medical translators.

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