

# Application of Network Teaching Platform in Medical English Teaching

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**Abstract:** Traditional medical English teaching is faced with many difficulties and problems. The network teaching platform provides more teaching methods and resources for medical English teaching. The teaching method of combining network teaching platform with traditional teaching is gradually replacing the traditional teaching mode of medical English. This paper analyses the significance of network teaching platform in current medical English teaching.

## 1. Introduction

Network teaching platform can also be called online learning technology platform, learning management system, E-learning platform, etc. Broad network teaching platform includes hardware facilities and software systems supporting network education. In a narrow sense, network teaching platform refers to the Internet teaching platform which provides comprehensive support and services for network teaching. With the rapid development of modern information technology, network information technology has been widely and deeply used in China. Internet technology provides a technological basis for the innovation of teaching mode. Internet teaching platform has gone through the phases from the initial VOD network teaching to the interactive teaching platform. Web-based teaching platform can realize highly simulated virtual classroom, real-time interaction and recording-on-demand mode. Network teaching platform can provide more and more technical support for teaching. Through the network teaching platform, teachers can create and integrate curriculum materials, clarify learning objectives, adjust the content of the course and evaluation criteria, track learning progress, and create test question bank.

At present, most medical colleges and universities in China adopt the mode of combining general English and medical English courses. Teachers who teach medical English generally need to have rich medical knowledge and professional English teaching level. However, due to the limited level of bilingual English teaching in China, medical teachers still do not have the ability to control medical English teaching smoothly in a short period of time, which tends to reduce and simplify the course content. There is a serious lack of qualified medical English teachers with good English proficiency and rich medical expertise in medical colleges and universities in China [2].

With the development of Internet technology, the combination of web-based teaching platform and medical English curriculum has changed the educational mode of medical English teaching. The combination of Web-based English learning mode and traditional classroom teaching mode can make full use of teaching resources, enrich teaching mode, enhance students' interest in learning and improve learning effect.

## 2. Basic Introduction to Network Teaching Platform

In 2001, MIT launched the Open Courseware Project, putting course resources on the Internet for students to browse and download free of charge, which started the upsurge of creating online education platform. The construction of network teaching platform should include network communication system, service system, network testing system and evaluation system. The establishment of network teaching platform needs teaching links such as curriculum system, teaching content, teaching methods, homework, online testing, education quality assurance, monitoring, network communication and so on. Based on educational entity, it is divided into teacher system and student system and manager system. The student system includes homework upload, courseware,

exercises, chat platform, etc. The teacher system includes homework correction, courseware upload, chat platform, etc. The manager system is responsible for maintaining and managing data information, including student information, teacher information, and other information. Teacher information in managerial model includes newly added teacher information, changing teacher information and teaching content. Student information includes updating student information, updating student's homework, etc. Other information includes user addition, deletion, authorization and so on. When teachers and students first log on to the system, the default account and password are exactly the same. Users need to change the password to protect user information. The main function of the teacher model is to provide learning videos, courseware and homework. Homework is an important part of testing teaching quality, and it urges students to study and consolidate traditional education methods of knowledge. The main role of the student model is to learn courses, upload homework, and communicate with students and teachers on the chat platform.

### **3. Advantages of Network Teaching Platform**

#### **3.1 Richness**

(1) The richness of the content.

The network teaching platform can provide rich and diverse teaching resources, can integrate multimedia teaching resources such as pictures, text, video, audio and so on, collect excellent teachers resources at home and abroad, and can update the latest content at any time.

(2) The richness of choice.

Students can choose their favorite courses and teachers, can choose the time and place of learning, according to each student's level of knowledge, can choose different levels of difficulty in the content of textbooks.

#### **3.2 Convenience**

Students need only the support of network and equipment, they can learn at anytime and anywhere. They do not need to buy a large number of professional books. They can download teaching materials and search the content of the course at any time. Teachers can record course content, upload teaching resources, and share course materials with all students without having to obtain contact information or email address for each student. These teaching materials can be sorted out and preserved permanently, and students and teachers can get the resources they want at any time. The teaching network platform can provide a test and scoring system according to the requirements of question bank and test paper. Students can conduct simulation self-test and test, which can reduce the workload of teachers to produce test papers and correct homework.

#### **3.3 Interaction**

Classroom teaching is a teacher-oriented direction, but in the network teaching platform, the communication between teachers and students is equal, can exchange learning anytime and anywhere, network teaching platform can strengthen better communication and timely information feedback between departments, including communication between students and teachers, students and leaders, teachers and leaders. Teachers can teach not only for their classmates, but also for teachers to share resources, teamwork and promote mutual learning and communication.

#### **3.4 Pertinence**

Students can customize their own learning plan and course content on the network platform. Teachers can record video content to reduce the number of repetitive explanations of the same knowledge points. The platform will automatically analyze each student's video on demand, learning progress, test results, etc. Teachers can track each student's learning situation through the analysis results, and more targeted teaching to students. Through the students' watching video frequency and questionnaire evaluation, we can feedback the effect of teachers' teaching, encourage teachers to improve their theoretical level and ability level, and create an evaluation system for each teacher.

### **3.5 Openness**

Web-based teaching platform can meet the needs of online distance education and self-study training of social staffs, expand medical English training to the whole society, and achieve great social benefits. On the platform of network education, a communication system is constructed so that students can communicate with students in different classes and express their views and ideas. Teachers can also learn from each other and make progress by watching other teachers' videos.

## **4. The Application of Network Teaching Platform in Medical English Course**

Currently, most medical units in China adopt the “EGP + ESP” teaching mode, which is the combination of general English and compulsory medical English courses. According to the specific disciplines, it can be divided into clinical medicine English, public health English, nursing English and pharmaceutical English. Medical courses can cover six modules: medical English audio-visual, listening and speaking, medical English writing, English medical records reading and writing, medical lexicology, medical and literature reading and medical humanities.

Under the traditional curriculum model, there are some problems in medical English teaching. Each student's English level is uneven. Teachers have a unified class, which will lead to some students cannot keep up with the teacher's rhythm, leading to the failure to achieve good teaching results. Medical English is more professional and difficult to understand. Students are easy to feel bored. Teachers need to find more teaching models and methods to make students understand the course content better besides explaining grammar and words. The construction of medical English network teaching platform can meet the teaching requirements of different contents and provide more abundant teaching resources.

### **4.1 Improving spoken English**

The most important way to improve oral English ability is to speak English frequently. In traditional classroom, in order not to disturb students' learning and teachers' teaching process, every student has very few opportunities to speak English. On the network teaching platform, you can know the students you want to know and invite them to become your practice partners. And you can use the audio and video materials in the network platform for individual exercises to improve oral fluency. And can record, let teachers help correct oral pronunciation, get timely feedback. Medical English learning requires students to know how to communicate with patients. In addition to learning professional vocabulary used by medical staff, they also need to pay attention to communication skills that can effectively cooperate with patients and colleagues. They can provide clear and compassionate communication videos for patients on the network platform.

### **4.2 Increasing vocabulary**

When students use paper materials to read medical literature, they need to input words manually, which will take quite a lot of time. Online dictionary search tool can be provided on the network teaching platform to facilitate students to quickly access new words, and save, review and test functions at any time. On the network platform, professional medical dictionaries can be provided for medical students, and medical vocabulary can be interpreted professionally.

### **4.3 Improving writing level**

Different types of writing require different languages and organizational methods. For medical English learning, it is necessary to consult more medical literature materials and understand the writing methods of professional literature. In the network teaching platform, teachers can select suitable documents for learning, and explain them, and share them in the platform. All students can consult and learn to communicate. Teachers can plan and organize students, read and write regularly every week, and review and revise students' homework at any time. Medical English teaching requires students to write reports and journal articles in English. More complex sentences and transitional words may be needed. The composition of these English sentences and articles will be explained on the network platform.

#### **4.4 Learning grammar**

There are many grammatical errors in students' writing. In addition to teachers' corrections and corrections, the network education platform can provide an automatic grammar correction system to help students make preliminary corrections and reduce the workload of teachers. Students can not only look at the suggestions of grammar revision, but also consult the grammar index page for learning.

#### **4.5 Learning about different topics**

Medical English majors are classified in detail, so students can't find materials suitable for their study effectively. In the network teaching platform, teachers can classify and integrate resources, classify them according to different topics and difficulties, so that students can quickly find appropriate curriculum materials.

#### **4.6 Listening Practice**

Online teaching platform can provide more audio resources, provide students with different accents and common vocabulary, watch the lecture content, in order to improve listening comprehension and vocabulary. Teachers can record their lectures, examine the pronunciation errors and correct them in time. The network platform can provide different videos of English pronunciation and American pronunciation, so that students can learn the difference between the two pronunciations and reduce the understanding barriers caused by different pronunciation. Many videos of medical majors use a lot of professional vocabulary to influence learning. Teachers can also translate and interpret them for students to watch and understand.

### **5. Conclusion**

Web-based teaching platform can test students' English language ability, and recommend the corresponding course content according to each person's different English level and vocabulary. In this way, students can choose a more appropriate course to study. Language teaching should pay attention to communication. Through network teaching to build communication between students and society and foreign countries, we can combine medical English with the latest research literature, so that students can use English more fully and learn in practice. Communicating with others in English on the Internet platform is a good motivator. When students use English, they will be presided over by more peers and create their own learning feedback cycle. The best way to learn a language is to find native speaker and build a network teaching platform. In this way, we can integrate the resources of foreign students both inside and outside the university, and strengthen the communication and exchange between foreign students and domestic students. In this way, English learning environment can be changed from a few hours in class to an English learning environment and atmosphere at any time, so that students have a higher learning initiative. Network teaching platform can improve the quality of teaching and further improve the level and effect of classroom teaching. The application of web-based teaching platform in English teaching can encourage students to communicate more in English on the Internet. Compared with using English in class, it can give students more time to digest and absorb words and think about grammar usage.

The reform of medical English teaching mode is a complex process, which requires more resources and platforms from medical colleges. In order to meet the teaching requirements, the network teaching platform needs to constantly improve the technical level and provide better software and hardware support. College English curriculum system should also adapt to the change of teaching mode, the combination of network teaching and traditional teaching, and constantly improve the curriculum content and evaluation system. Based on this platform, the ability of listening, speaking, reading and writing in medical English practice has been realized, which integrates classroom teaching and practical teaching, and provides a good interactive platform for teachers and students to learn. Combining the advantages and disadvantages of traditional teaching and network teaching platform, it can provide more teaching environment and resources for students to learn

medical English.

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