Research on the Medical English Teaching under the Condition of Medical Literacy Based on Computer-aided Technology

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Abstract. Medical staff must respect the life, personality, dignity and rights of patients, which is a concentrated embodiment of the connotation of medical quality. In the context of information technology, there are more and more medical disputes. Therefore, it is an urgent problem to cultivate the medical literacy of medical staff. Computer-aided medical English teaching has become a basic course for medical students. It is necessary to improve the medical literacy of medical students in the computer-assisted medical English teaching in colleges and universities, which has become the research direction of diversified teaching content. First, this article analyzes the necessity of training and improving medical students' medical literacy. Then, the problems existing in English teaching are put forward. Finally, some suggestions were made[1].

Keywords: Medical Literacy, Medical Staff, English Teaching, Computer-aided Technology

1. Introduction
We must improve the medical literacy of medical students, which is an inevitable need to strengthen the establishment of hospital culture. By improving medical literacy, the hospital will improve the quality of medical treatment and improve the relationship between doctors and patients, which is the need to promote the scientific development of the hospital. At the same time, medical schools require students to complete CET-4 and CET-6, which requires students to participate in English teaching. Therefore, how to improve medical literacy in medical English teaching has become an important research topic[2-3]. In the traditional medical English teaching, the teacher will pay more attention to the cultivation of medical students' professional grammar, vocabulary and examination skills, which ignores the cultivation of students' medical literacy. However, medical literacy is indispensable for every medical staff. Therefore, in medical English teaching, English teachers should not only impart English knowledge, but also cultivate medical literacy of medical students, which will improve the humanistic literacy of medical staff[4-6].

2. The necessity of cultivating medical literacy of medical students
It is very important to cultivate medical literacy of medical students, which will improve the
humanistic literacy of medical staff. The necessity is shown in Figure 1.

![Diagram showing the necessity of cultivating medical literacy](image)

**Figure 1.** The necessity of cultivating medical literacy of medical students.

### 2.1. Development needs of modern medicine

The purpose of medicine is "people-oriented". Therefore, doctors and medical staff must have noble morality, respect for life, patient-centered. Therefore, medical staff must have medical literacy, which will enhance the core competitiveness of hospitals and reduce doctor-patient disputes. It is not pure English teaching to cultivate medical literacy in English teaching. Through the cultivation of medical literacy in English teaching, students can cultivate their own medical literacy in a strong atmosphere of medical literacy. In modern medicine, hospitals pay more attention to the relationship between doctors and patients, which requires medical literacy of medical staff. Under the modern medical model, medicine is not a single subject, it is a comprehensive subject integrating human quality. Therefore, modern medical model requires medical students to have medical literacy, which requires colleges and universities to improve medical students' humanistic literacy education.

### 2.2. Cultivate cross-cultural communication ability

By training medical students' medical literacy and English ability, medical students can form their own language thinking ability. With the frequent international exchanges, medical students will face a large number of native English speaking patients, which requires medical students to have professional oral English ability and medical literacy. At the same time, medical literacy and English level have become an important standard for hospitals to select talents. Therefore, it is very important to integrate medical students' English level and medical literacy. Training medical literacy in English teaching has become an important way to cultivate the cross-cultural communication ability of medical staff, which can help medical staff to better improve the level of medical care.

### 2.3. Improve ideological space and freedom

There are many advantages to improve the medical quality of medical students in English class, such as providing space and freedom of thought. College English course is one of the most continuous courses in Colleges and universities, which is systematic. Therefore, through English teaching, we can cultivate students' medical literacy, which can permeate the medical literacy education into the linguistic system. Through the cultivation of independent thinking ability and team spirit, we can better cultivate medical literacy of medical students. Medical literacy education can be integrated into English teaching activities, such as group discussion, group activity and performance. Through humanistic education, we can better build a harmonious society. Through practicing the medical quality education of medical students in English teaching, colleges and universities can better cultivate comprehensive medical talents, which will better improve the ideological space and freedom of medical students. In English teaching, to cultivate students' humanity, perception and viewpoint,
medical students will fully respect and understand patients, which is the key to medical quality.

3. Problems in medical English teaching
This paper is based on the field survey. 500 formal questionnaires were sent out, 479 effective questionnaires were sent out, and the effective rate was 95.8%.

3.1. Neglecting humanistic connotation in teaching
Influenced by the traditional teaching mode, China's education has long overemphasized the cultivation of professional technology, which ignores the medical literacy education of medical students. According to the survey results, the main problem is low integration of English education and quality cultivation, accounting for 62.7%. The second is to pay too much attention to basic English ability, accounting for 50.3%. Details are shown in Figure 2.

![Figure 2. Neglecting humanistic connotation in teaching.](image)

3.2. Poor education of medical literacy in English teaching
In English teaching, teachers are not able to think deeply about the humanistic spirit. In terms of personal cultivation, some medical students have low medical quality, which will be difficult to resist the infiltration of wrong ideology and culture. According to the survey results, the main problem is lacking of medical literacy teaching awareness, accounting for 67.3%. The second is difficult to integrate medical literacy into English teaching, accounting for 53.5%. Details are shown in Figure 3.

![Figure 3. Poor education of medical literacy in English teaching.](image)

4. Strategies to improve medical literacy in college English teaching

4.1. Change teaching concept
Medical College English teachers should enhance their awareness of medical literacy education, which will encourage and guide medical students to have solid humanistic care. Medical students should not only master English grammar, but also improve their medical literacy. Therefore, English teachers should change their teaching ideas, which will lead to better thinking and critical language teaching. In the view of medical literacy education, English teachers need not only solid English skills,
but also rich medical literacy teaching ability. English teachers must have lofty moral cultivation, which will strengthen students' medical literacy and humanistic care. Through the establishment of a harmonious relationship between teachers and students, medicine will set an example of humanistic spirit in teaching and education activities. By stimulating students' potential, students will give full play to their innovative spirit and initiative, which will change their humanistic concept.

4.2. Training high quality teachers
Teachers are leaders and organizers of teaching activities. Therefore, medical English teachers with high medical literacy will be an important guarantee for English teaching and training students' medical literacy. Medical colleges and universities should constantly introduce high-quality teaching talents, which will enrich the teaching staff. At the same time, medical colleges and universities should arrange teachers to practice in a planned way. By employing foreign teachers for clinical guidance, English teachers will master the application of medical English, which will also improve the medical literacy of teachers. Then, English teachers can integrate medical literacy into English teaching, which will cultivate medical literacy of medical students in advance. In this process, teachers' professional quality will be improved faster.

5. Conclusion
At present, the medical model and the concept of medical ethics are gradually modernizing, which will continue to enhance the professional ethics of doctors. Therefore, colleges and universities should cultivate the medical literacy of medical students, especially in computer-aided medical English teaching. In college English teaching, medical colleges and universities should strengthen medical quality education, which will have a subtle influence on the morality of medical students.

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References
[1] Lang Jinghe. Philosophy and humanistic cultivation of doctors [J]. Journal of Shanghai Jiaotong University, 2017, 27 (1): 1-5.
[2] Zhang Fei. How to cultivate the humanistic quality of medical students in College English Teaching [J]. Journal of Mudanjiang Medical College, 2016, 32 (5): 63-65.
[3] Ji Liu Ying, Wang Yuchen, Zuo Qiping, et al. Investigation and Research on the current situation of vocational cognition and humanistic quality education of medical students [J]. Chinese Journal of medical education exploration, 2016, 11 (4): 432-436.
[4] Tang Hua. On the cultivation of humanistic quality of medical students [J]. Journal of Shanghai Jiaotong University (Medical Edition), 2018, 28 (S1): 7-9.
[5] Wan Lei, you Yue. College English Teaching in medical colleges and the cultivation of humanistic quality of medical students [J]. Chinese medical ethics, 2013, 26 (3): 400-401.
[6] Wang Huixin. Establishing humanistic awareness and promoting sustainable development of hospital [J]. Health vocational education, 2014, 32 (11): 132-133.