

# Demand analysis and talents training of international medical language services in the context of digitalization

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**Abstract:** With the acceleration of globalization and the development of medical information technology, the demand for international medical language services in the context of digitalization is constantly increasing. This paper analyzes the demand for international medical language services, explores the cultivation of international medical language service talents in the context of digitalization, and puts forward corresponding suggestions.

**Key words:** digitalization; international medical language services; demand analysis; talents cultivation

## I. Introduction

With the digitalization of medical information system and the increase of global medical cooperation, international medical exchanges are becoming increasingly frequent, and more and more medical institutions and patients need to communicate and cooperate with medical professionals from different countries and regions, which has a growing demand for medical language services (IMLS). Therefore, this paper aims to explore the demand for international medical language services in the context of digitalization, and put forward corresponding suggestions for talents cultivation. Through literature review and empirical research, this paper analyzes the development trend and demand characteristics of international medical language services in the context of digitalization, and proposes targeted talents cultivation programs, aiming to provide reference for the improvement and development of medical language services.

## II. Demand analysis of international medical language services in the context of digitization

i. Characteristics of international medical language services in the context of digitization

1. Diversified needs: In the context of digitalization, with the deepening of international medical cooperation and the increase of transnational medical services, the demand for international medical language services from medical institutions and patients is also increasingly diversified. Firstly, the audience of medical services has become more diversified, and patients from different countries and cultural backgrounds need medical language services to solve the language communication barriers. This requires medical language service talents to be able to respond to a variety of language needs. Secondly, the development of digital technology makes the demand for medical language services more diverse. For example, in telemedicine services, medical language service talents need to have remote translation and speech recognition skills to meet the language communication needs of telemedicine consultation.

2. Highly specialized: In the context of digitalization, international medical language services are highly specialized. The international medical language service talents need to have highly specialized language skills and medical professional knowledge, they need to be familiar with medical terminology, diagnostic procedures, treatment methods and other professional knowledge, and to be able to accurately and clearly carry out language conversion, to ensure the accurate transmission of medical information and medical service smoothly.

3. Application of Intelligence: With the rapid development of artificial intelligence technology, intelligent speech recognition, machine translation and other technologies have gradually been applied to medical language services. These intelligent technologies can help medical language service talents to translate and communicate more efficiently, improve work efficiency and reduce error rates. For example, intelligent speech recognition technology can convert the voice content of doctors and patients into text, making it possible for medical language service talents to translate more accurately. In addition, machine translation technology can help medical language service talents quickly translate a large amount of medical data, such as medical literature and patient records.

ii. The current situation of demand for international medical language services

1. Transnational medical cooperation: With the continuous improvement of global medical level, transnational medical cooperation is becoming more and more frequent, involving exchanges and cooperation between doctors, patients and medical institutions in different countries and regions. In this context, high-quality language translation and communication support is needed, and medical language services have become a key factor in promoting transnational medical cooperation. Medical language service talents should be able to accurately understand and convey medical information, assist the communication between doctors and patients, and promote the transnational dissemination and sharing of medical knowledge and technology, so as to promote the development and cooperation in the global medical field.

2. Multicultural patient population: With the development of globalization, more and more people are seeking medical services across borders. These patients come from different cultural backgrounds, use different languages and need high quality medical language services to communicate effectively with medical institutions. Medical language service talents need to have cross-cultural communication skills, understand cultural differences, and avoid cultural misunderstanding. In addition, medical language service talents also need to understand the medical systems and regulations of different countries and regions in order to provide the best medical services for patients.

3. International medical tourism: The rise of international medical tourism has increased the demand for international medical language

services. Patients may receive medical treatment in the country where they are traveling, which requires effective communication and understanding with local medical personnel, and requires medical language service talents to provide professional language support services. Medical language service talents need to have cross-cultural communication skills to communicate effectively with patients and medical teams from different countries. In addition, they need to understand the medical system, regulations and cultural characteristics of the medical tourism destination countries in order to provide professional language support and cultural adaptation services to patients.

4. Interdisciplinary collaboration: International medical language services require not only language translation skills, but also the understanding of medical knowledge and professional terminology. Therefore, medical language service talents need to work closely with medical experts and medical teams to ensure accurate communication of medical information. In addition, interdisciplinary collaboration also includes collaboration with professionals such as technicians, legal counsel and social workers in order to provide comprehensive medical services and support to patients.

iii. International medical language services are facing new demands and challenges

1. Telemedicine services: With the development of digital technology, telemedicine services have become more common. This means that medical language service personnel need to be able to effectively perform language translation and interpretation in remote environments, in order to facilitate accurate communication between doctors and patients.

2. Medical information technology: The development of medical information technology makes it possible to digitally store and transmit medical records, diagnosis reports and other medical information. Medical language service talents need to understand the relevant terms and operating procedures of medical information technology in order to accurately translate and convey these information.

3. Cross-border medical platforms: The rise of some cross-border medical platforms provides patients with more international medical options, which also increases the demand for medical language services. Medical language service talents need to adapt to the language service needs of different platforms, including text translation, speech translation, etc.

4. Data security and privacy protection: In the digital age, the security and privacy protection of medical information has become even more important. Medical language service talents need to understand the relevant data security regulations and standards to ensure the security and privacy of medical information in the process of translation and transmission.

### III. The training status of international medical language service talents

With the acceleration of globalization and the rapid development of medical technology, international medical exchanges have become more and more frequent, and the demand for international medical language service talents is also increasing. However, there are still some countries and regions with problems such as a lack of medical language service talents, insufficient skills, and non-standard professional certification. On the one hand, some countries have incorporated the cultivation of international medical language service talents into the national strategic planning, and improved the level of domestic medical language service talents by establishing professional training institutions, formulating training plans and providing training resources. On the other hand, some international organizations and institutions are also actively promoting the cultivation of international medical language service talents. For example, the World Health Organization, the International Medical Interpreters Association and other institutions help developing countries improve their medical translation skills by providing training courses, conducting research projects and sharing experiences. At the same time, some multinational medical institutions and pharmaceutical enterprises also carry out the training and recruitment of medical language service personnel around the world to meet the needs of their business development.

#### IV. Suggestions on cultivating international medical language service talents in the context of digitalization

i. Integrating interdisciplinary knowledge, including medicine, linguistics, and intercultural communication

In the context of digitalization, medical language service talents need to integrate interdisciplinary knowledge, including medicine, linguistics, and cross-cultural communication. This means that they not only need to be proficient in medical terminology and expertise, but also need to possess excellent language skills and cross-cultural communication skills. This can be achieved by designing interdisciplinary curricula and projects, helping them to fully understand the complexity of medical and language services and develop comprehensive competency.

ii. Strengthen practical teaching, provide clinical practice and simulation-based medical teaching and learning

In the context of digitalization, strengthening practical teaching is crucial for cultivating medical language service talents. They need to undergo clinical internships and simulated medical scenarios training to improve their responsiveness and professionalism in actual medical settings. Through practical teaching, students can apply the knowledge they have learned in real-life scenarios, improving their practical skills and problem-solving abilities.

iii. Introduce information technology to cultivate digital skills for medical language service talents

In the context of digitalization, medical language service talents need to possess digital skills. Information technology plays an increasingly important role in medical language services, such as remote translation services and the application of medical information systems. Therefore, students need to receive relevant information technology training to master digital tools and skills to adapt to the development of digital medical environments.

iv. Strengthen cultural sensitivity training to improve the understanding and respect for patients with different cultural backgrounds

In the context of digitalization, strengthening cultural sensitive training is crucial for the cultivation of medical language service talents. They need to understand the needs and values of patients in different cultural backgrounds and cultivate respect and understanding

for multiculturalism. Through culturally sensitive training, they can improve their cross-cultural communication skills and provide better medical language services for patients with different cultural backgrounds.

## Conclusion

In the context of digitalization, the demand for international medical language services is growing, which reflects the development trend of global medical services. In response to the demand for international medical language services in the context of digitalization, it is suggested that digital skills training, interdisciplinary practical teaching, and cultural sensitivity training be strengthened to cultivate more high-quality medical language service talents to meet the diverse needs of global medical services. Future studies could further explore the application of digital technology in medical language services and the impact of patient needs and values on medical language services in different cultural settings.

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