

# Teaching Design and Exploration of Pharmacology in Higher Vocational Colleges from the Perspective of Curriculum Ideology and Politics

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**Abstract:** With the main idea of cultivating people through the curriculum, this paper explores the organic integration of ideological and political lines and knowledge lines in the teaching design of pharmacology in higher vocational colleges. The medical humanistic literacy contained in the teaching design, explores the path and method of the ideological and political construction of the course, and combines the teaching of professional knowledge and the cultivation of theoretical skills with the cultivation of students' patriotism, medical professional ethics, life awareness and scientific research spirit. Improve the educational effect of curriculum ideological and political education in college education.

**Keywords:** Pharmacology; Course Ideology and Politics; Teaching Strategy

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## 1. The connotation of curriculum ideology and the characteristics of pharmacology curriculum

The ideological and political curriculum is based on the basic concept of morality and cultivating people. It is a healthy development under the guidance of scientific theory, and is an important aspect of the direct inheritance of ideological and political education practice in colleges and universities and an important aspect of humanistic construction. The new requirements of curriculum ideology and politics for current medical curriculum ideology and politics focus on teachers' moral cultivation of students in the teaching of different disciplines, so as to realize the organic combination of knowledge imparting and moral education.

The content of the higher vocational pharmacology course focuses on the pharmacological effects, clinical applications and adverse reactions of commonly used and representative drugs, providing important methods and means for developing new drugs, discovering new uses of drugs, and exploring cell physiology and biochemistry. The therapeutic effect of drug action includes two aspects: therapeutic effect and adverse reaction. In clinical drug use, due to the characteristics of the drug itself, the two often occur at the same time. When choosing a drug in clinical practice, it is necessary to fully consider the patient's condition, the safety and effectiveness of the drug, and weigh the pros and cons.

Pharmacology course ideology and politics are combined with professional teaching courses to promote pharmacology course ideology and politics, integrate ideological and political work into the teaching process, and achieve the purpose of ideological and political education through subject penetration, while cultivating students' professional knowledge and ability combining family and country feelings, history of drug discovery, research and discovery of new drugs, animal ethics, research and development of new crown vaccines and drug development, etc., with pharmacology teaching, ingeniously designed teaching content and natural integration of ideological and political education guidance, make classroom teaching to achieve both effective teaching and effective education, improve the quality of ideological and political courses, innovate the ideological and political construction of courses,

innovate the construction of course ideological and political resources and education carriers, and give full play to the ideological and political education function of medical professional course teaching. Through ideological and political courses, students can establish learning goals and guiding goals, and innovate a new system of ideological and political teaching and education that integrates knowledge imparting, skill strengthening, value guidance, and character shaping, so as to improve the medical ethics of medical students. Realm, cultivate more excellent doctors with benevolence, and achieve the purpose of teaching and educating people.

## **2. Strengthen ideological and political leadership in pharmacology teaching and realize the teaching design of curriculum education**

### **2.1 Foster cultural self-confidence and scientific research spirit**

Mafei Powder, invented by the genius doctor Hua Tuo at the end of the Eastern Han Dynasty, is the earliest anesthetic in the history of the world, and set a precedent for general anesthesia surgery. The world's earliest Materia Medica is China's "Shen Nong's Materia Medica". Ge Hong, the father of medical immunity in the Eastern Jin Dynasty, Sun Simiao, the "King of Medicine" in the Tang Dynasty, collected more than 5,000 prescriptions, and Li Shizhen's "Compendium of Materia Medica" in the Ming Dynasty. The valuable experience of medical scientists' hard-working life-long exploration has left a rich cultural treasure for traditional medicine in my country. Modern medical scientists such as Tu Youyou, winner of the Nobel Prize in Physiology / Medicine, Gu Fangzhou, a virologist who eliminated polio in China, and Huang Zhenxiang, an innovator of in vitro virus culture technology, have made remarkable achievements in the field of medicine, inspiring students' national Pride and interest in learning, educate students to dig deep into the essence of Chinese medicine culture in my country, serve human health, cultivate cultural self-confidence, increase professional self-confidence, cultivate scientific and technological ideals, innovation awareness and a healthy China's home and country feelings. Encourage students to work hard for the realization of the rejuvenation of the Chinese nation.

### **2.2 Integrate anti-drug, anti-AIDS and legal education knowledge into the teaching of central analgesics**

June 26 is the International Anti-Drug Day. Cases of celebrities or hosts taking drugs were introduced, and students were allowed to watch propaganda films about anti-drugs and videos about Lin Zexu's Humen's cigarette sales and the Opium War. In the process of describing the adverse reactions of morphine, the harm of morphine abuse and the knowledge of common drugs such as viruses, heroin, and K powder should be elaborated. In particular, Yunnan has a long border and is adjacent to the "Golden Triangle", which has always been the forefront and main battlefield of the national anti-drug struggle. From the course teaching, the alarm bell of anti-drug and anti-AIDS for young students should be kept ringing, and students should be made aware of the harm of drugs, so as to stay away from drugs. In the process of clinical medication, clinicians should rationally use central analgesics and strengthen medication education for patients.

### **2.3 Warning students through drug-induced disease events**

The "seal limb deformity child" caused by reactant is a huge tragedy in the history of medicine, and it is also the first drug that has been identified as a human teratogenic. "Besting Incident": Bisting is a blood lipid-lowering drug once produced by Bayer in Germany, which is very effective in lowering blood lipids, especially cholesterol. However, the drug alone or in combination with gemfibrozil can cause muscle weakness or fatal rhabdomyolysis. Through the cases of drug-induced diseases and news of hot social medical events, warning education is provided to medical students, so that they can understand the history of drugs, warn themselves, strive to improve medical knowledge, professional ethics, keep improving, and be familiar with and master the rational use of drugs. Knowledge, avoid medical accidents and medical disputes, let medical students reflect more medical ethics in clinical medicine, realize scientific and safe drug use, better relieve the suffering of patients in the future occupation, and bring healthy benefits to human beings.

### **2.4 Integrate scientists' stories into curriculum teaching**

It tells about Nobel and nitroglycerin, Fleming's discovery of penicillin, Tang Feifan's discovery of chlamydia, the discovery of insulin, the research and development process of BCG, Professor Chen Kehui's research on ephedrine, Tu Youyou's discovery of

artemisinin's therapeutic effect on malaria and its Nobel Prize road, etc. In the teaching process, it is necessary to inherit and carry forward the spirit of scientists who have the courage to innovate, fear difficulties and perseverance, inspire students to explore and seek truth, let the scientific spirit and humanistic spirit penetrate into the hearts of students, and cultivate students' dedication and selfless dedication. The spirit of unity and cooperation, modesty and prudence, and perseverance inspire young students to serve the country through science and technology.

## 2.5 Integrate life education, teamwork, and scientific research spirit into experimental teaching

Experiment teaching is an important role in carrying out experimental training in clinical pharmacology courses. Pharmacology experimental teaching includes three aspects: functional experiments, comprehensive experiments and exploratory experiments. The experimental animals are mainly mice, rats, rabbits and dogs. At the beginning of experimental teaching, students should understand the important role of experimental animals in medical research and learn the "Administrative Regulations on Laboratory Animals" and the "3R" principles. Namely: reduction, optimization and replacement are also conducive to cultivating students' concepts of respecting life and caring for animals. By introducing the experimental methods of animals used in pharmacological experiments, the execution of experimental animals and the holding of memorial ceremonies for experimental animals, students can perceive the value and true meaning of life, guide students to think about the meaning of life, and help students establish a correct outlook on life, with the basic humanistic education goal of cultivating students' correct values, outlook on life, ethics and teamwork. The experimental data obtained in the experimental teaching should record the real data, and the data collection should be standardized and accurate, so as to establish a good scientific thinking and lay the foundation for future medical and scientific research work.

## 3. Conclusion

The ideological and political construction of the curriculum needs to be based on scientific and innovative thinking, promote the reform of ideological and political education, and endow the value of curriculum teaching reform. Based on the characteristics of the basic knowledge of the course, dig deeper and integrate more ideological and political education, and promote the natural integration of knowledge transfer and ideological and political education through teaching evaluation and teaching reflection on the teaching effect of incorporating ideological and political elements into the pharmacology course. Strengthen and improve the ideological and political education level and ability of the curriculum teaching team, comprehensively implement the system, system, resources and other means of training and leading education, and the teaching team needs to be able to normalize training and learning, perseverance. Continue to supplement and improve the construction of curriculum ideological and political education resources, and improve the educative effect of curriculum ideological and political education in college education.

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