

## **Construction of MOOC of Medical Functional Experiment (English Version) Based on Post Competency**

Aimei Wang<sup>1\*</sup>, Li Yu<sup>2</sup>, Yang Yu<sup>2</sup>, Dongyan Bao<sup>2</sup>, Yao Li<sup>2</sup>, Zhuo Liu<sup>2</sup>, Liping Ye<sup>2</sup>, Shuangyue Liu<sup>2</sup>, Yang Di<sup>2</sup>

1. College of International Education, Jinzhou City, Liaoning Province, P.R. China

2. School of Basic Medical Sciences, Jinzhou City, Liaoning Province, P.R. China

Medical functional experiment is an experimental subject that studies the normal function of the body, the mechanism of disease and the law of drug action, which plays an important role in improving the post competence of foreign medical students.

Based on the physical and virtual experiment teaching platform, with cultivation of students' ability as the principal line, the MOOC of medical functional experiment (english version) constructs an experiment teaching system with multiple levels and modules, focusing on the combination of animal experiment and human function experiment, of physical experiment and virtual experiment, as well as of basic theory and clinical practice.

The MOOC of medical functional experiment (english version) designs 10 experimental projects, including animal experiments and human experiments. Animal experiments involve circulatory system, respiratory system, urinary system and nervous system. Human experiments include blood pressure measurement, electroencephalogram, muscle and nerve function observation. Each experimental project is composed of 5 parts, including introduction, operation, observation, analysis and test. In addition, clinical case analysis is set in all 10 experimental projects.

The study of this MOOC can not only help students master the basic experimental skills, learn to observe and analyze the experimental results, and improve the ability to analyze and resolve problem, but also form a closer relationship between basic medicine and clinical medicine, which not only expands students' scope of knowledge, but also improves their clinical thinking and autonomous learning ability, so as to meet the requirements of medical development in the new century for high-quality medical talents.