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conference  
«Innovations in  
science, technology  
and the integration  
of knowledge»  
London**

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INTRODUCTION OF MODERN EDUCATIONAL  
TECHNOLOGIES AT THE DEPARTMENT OF

# MEDICINE AND PHARMACOLOGY

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## INTRODUCTION OF MODERN EDUCATIONAL TECHNOLOGIES AT THE DEPARTMENT OF PHTHIOLOGY AND PULMONOLOGY BUKOVYNIAN STATE MEDICAL UNIVERSITY

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### Abstract

The article presents the modern technologies that are used at the Department of Phthiology and Pulmonology Bukovynian State Medical University for educational and methodical ensuring practical exercises independent work and distance education students, medical interns and medical students. And also emphasis is placed on the quality of educational services.

### Key words

medical, educational process, information technology,  
distance learning.

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### Introduction.

Nowadays we are facing the change of our ideas about the systemic principals and approach to struggle against tuberculosis (TB) as far as the elaborated conception of medical stuff training in accordance with requirements of the World Federation of medical education and basic principles of Bolongna' process has been launched in Ukraine [2,8]. Bukovinian State Medical University University is actively involved in to the Ukrainian integration into the European Union: adapting world standards of many aspects of medical activity, including Phthisiatry. The educational process is constantly being upgraded. Innovative technology, up-dated techniques of training, including distant forms are being implemented and widely used. That has a positive effect on the prospect of further professional orientation of future doctors, and allows to improve the quality of education, competitiveness and mobility of graduates [4].

### Materials and methods.

Literature review and WEB- sources on the results of a technological breakthrough in the higher education institutions of Ukraine and Bukovynskoy State University in particular. The study included: a questionnaire survey to determine the needs and attitudes of students to obtain skills for a specific occupation, as well as to obtain information on the assessment of the educational system in general and specific innovations already implemented , the level of trust , the method and degree of adaptation to the innovation process observation learning outcomes of students, medical interns and medical students.

### Results and discussion.

Trying to create conditions that encourage a dynamic creative process, new knowledge by implementing educational video for distance learning, improve attention, cause emotional distress and enhance cognitive activity, the department tuberculosis and pulmonology prepared information for educational - methodical maintenance training at undergraduate and postgraduate stages education, which is fully presented and regularly updated on the WEB - Internet page - site BSMU ([www.bsmu.edu.ua](http://www.bsmu.edu.ua)). Developed computer tests on discipline " tuberculosis and pulmonology " to test students' knowledge of doctors - doctors and interns - students who systematically improved, logically connected and meet the current requirements of Ministry of Health of Ukraine. Modern medical information is provided by teachers in the multimedia lectures , videos , virtual clinical , clinical- anatomical conferences with the participation of students and teachers . Thus , online course allows



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the student to prepare for each practical class , self- optimizing process , individual training , and the decision of tests and tasks for self-control helps determine the level of student mastery of theoretical material and prepare a thematic unit.

Phthisiology is moving keep up to date. It should be noted that the most vulnerable to infection with Mycobacterium tuberculosis are people aged 20 to 49 years - the bulk of the working population, that is the base of country economic potential [1]. A relevant regulatory and legal framework which implementation enables a significant impact on the epidemic process, greatly reducing its intensity in our country has been created in Ukraine. Mechanisms of realization the state policy in Fighting Tuberculosis are aimed to execution of the law of Ukraine № 4565-17 of 22.03.2012 "On Amending the Law of Ukraine" On Combating against TB," under which the "National Target Social Programme to Combat TB for 2012-2016 " was approved. In pursuance of the article 6 of the Law of Ukraine "About the TB disease control" and industry standardization program of medical assistance for 2020 "The unified clinical protocol of primary, secondary (specialized) and) and tertiary (highly specialized) medical care. Tuberculosis", has been designed and implemented and recommended into practical medicine and the training process as the source of of evidence-based information about the best medical practice. The Protocol is considered to be a major medical and technological document that should guide medical professionals in any given clinical situation, avoiding inefficient and wrong decisions, choosing the best for patients intervention. The Department of Tuberculosis and Pulmonology Bukovina State Medical University is actively implementing latest achievements in Phthisiology and seeks to use the most advanced technology in accordance with contemporary standards.

The introduction of the new the protocol to the postgraduate stage of education should be a significant help not only for TB specialties but general practitioners who are involved in medical care of TB patients because the document is intended for various stages of treatment. The Protocol guides the physician in cases with preserved Mycobacterium tuberculosis sensitivity to chemotherapy, chemo-resistant and multi-resistant tuberculosis, when the disease is stable to the majority of proposed means and methods of treatment whether in the cases of Tuberculosis and AIDS Co-Morbidity.

Thus, new challenges, such as steady growth in the number of patients with chemo-resistant and in particular multi-resistant (MRTB) and Co-Morbid HIV TB cases and TB / HIV and viral

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hepatitis [12] require inclusion in the teaching of medical students and physicians new TB sections, as well as increasing the volume of presented material to improve knowledge and skills in qualitative diagnosis of lung diseases.

Extrapulmonary tuberculosis of bones and joints [13] is also actual problem. That is why TB lesions of the jaw should be given emphasis in teaching discipline of Phthisiology at the Faculty of Dentistry.

Quality of education is especially important due to rapid progress of science and technology nowadays/. Innovative technology and interactive teaching provide possibility of improvement in this field of activity [10,12].

An interactive teaching is a special form of organization the educational process in school. Because It makes the process of learning more productive due to introduction new technologies which contribute to the more efficient absorption of the material,

Introducing new methods and forms of organization of the educational process, the department pays special attention to students' individual work. YA Individual work is performed according a task and at the methodological guidance of a teacher, but without his direct involvement, and requires a significant number of additional and particularly illustrative materials [9,13]. Individual work aims to develop medical thinking and practical skills. A student is taught to think critically, to solve problems on bases of analyzing relevant information, to take thought over decisions.

Clinical cases, sets of radiographs, standard history cases, methodical developments and guidance have been created for each topic, practical classes. Samples of medical record, instruments et al have been prepared. The bank of training videos, wide application of which simplifies and improves the quality of mastering material by both Ukrainian and English-speaking students, particularly has been established a at the Department of Tuberculosis and Pulmonology.

Educational sector, as well as medical education in particular, having stood on the path of radical reform and accession to the European educational space demands to adapt (needs to bring) all its components with generally accepted international standards. Educational sector, as well as medical education in particular, having stood on the path of radical reform and accession to the European educational space demands to adapt all its components with generally accepted international standards.

The Bukovinian State Medical University is also expanding its capacity by switching to education international students in the English language. Every year this process is dynamic. Thanks to

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modern means of communication (e-mail, Internet) potential applicants can check the terms of admission to our university the curricula of various departments, including and the Department of Tuberculosis and Pulmonology. The course for English-speaking students is conducted according to the credit system, which contributes to the implementation of the Bologna Declaration and basic points for diagnosis, treatment and prevention of tuberculosis in line are coordinated the principals of the Global Fund to Fight TB, and the "Stop TB" strategy [3,5,7].

Analysis of the literature showed [3] that at present the most radical changes were in such as sections of tuberculosis as prevention and diagnosis. Unfortunately, despite the fact that TB is a problem worldwide, this disease is currently "unpopular" because it mainly affects vulnerable population. That is why are financed by public funds in most countries of the world anti-epidemic measures. Today are used nearly identical approaches to identify patients, diagnosis, treatment and prevention of TB all over the world. Focusing on finding the most efficient and reasonable way of overcoming the TB epidemic, the doctrine of the said disease increasingly turns to issues of public health, not only taking care of the timely diagnosis and treatment, but also of the ultimate effectiveness of measures - limiting the spread of infection and reduction the cost of medical services.

Study of molecular and genetic aspects of *Mycobacterium tuberculosis* creates prerequisites for the use the latest technologies as to development new vaccine, which would provide protection against infection and developing TB.

Now several types of vaccines are Under development indicating that the issue of specific TB prophylaxis is gradually moving towards its goal.

The core program of the WHO and national TB program is Treatment of tuberculosis. There can not be an effective TB control, unless you have an effective TB treatment. In bad treatment sources of infection increase twice so treatment - is the basis of prevention of this disease and eradication the source of infection in general. In early TB diagnosis and treatment the number of patients with the disease is reduced by 80% [1]. The Problems of finding new antimycobacterial drugs, especially for treatment of MDR TB remains one of the most relevant [6]. New combinations of TB drugs are under a series of clinical trials. Department of Tuberculosis and Pulmonology together with the Department of Medical and Pharmaceutical Chemistry of Bukovina State Medical University is actively involved in this process and working towards research as to

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study the effectiveness of newly synthesized heterocyclic compounds imidazole derivatives and their effect on Mycobacterium tuberculosis.

It should be noted that new approaches to the diagnosis of TB are the most effectively, fast developing and promptly implemented to the learning process. Molecular genetic and microbiological technologies make it possible for a short time not only to identify the pathogen, but its sensitivity to the most effective anti-TB drugs [1].

Thus, the TB epidemic, which in most countries, as well as Ukraine, enters a phase of stabilization, motivated intensification of research and changes in the curricula both undergraduate and postgraduate stages of education.

### **Conclusions.**

The dynamic of providing process of teaching with new information technologies, systematic renewal and replenishment of materials, including posters and tests, comprehensive publishing not only promote continuous improvement of the quality of the educational process, but also increase students interest in the subject and problems of tuberculosis, which has a positive effect on the prospects for further orientation of future physicians and will improve the quality of education, competitiveness and mobility of graduates.

Despite the fact that the achievements of modern information technologies are moving towards that person will become more and learn faster, personal communication with the teacher focuses on the quality of educational services:

- minimizes the loss of information for the use of electronic means of communication,
- there is a training cadet ability to extract structured knowledge and transform them for future practical use.

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