

# SCIENTIFIC APPROACHES IN SOLVING TUBERCULOSIS PROBLEMS

***Yu. I. Feshchenko, V. M. Melnyk, V. G. Matusevych,  
I. O. Novozhylova***

## *Abstract*

During the process of anti-tuberculosis healthcare network reforming a literature data considering organization of healthcare system becomes crucial. A strategy for tuberculosis (TB) control have not yet reached its power to detect and treat the TB patients. There are several trends in current approaches to the treatment of tuberculosis, determined by current clinical features the disease (including the growing number of immunocompromised conditions, HIV infection, acute progressive extensive TB), implementation of standard chemotherapy regimens according to the categories of patients (including long-term chemotherapy), a significant odd of primary resistance to anti-tuberculosis drugs. The analysis of TB prevention demonstrated the different vaccination strategies, used in different countries. Repeated BCG vaccination is costly but not as much effective. Chemoprophylaxis is recognized as an effective and efficient method, if it is carried out and controlled without gaps in treatment. The cost/efficiency value of tuberculin skin test is low. Microbiological tests with mycobacteria susceptibility testing are obligatory under DOTS Plus Stop TB strategies. In recent years certain advances have been made in molecular-genetic and microbiology techniques for diagnosis of tuberculosis.

Conclusion. The TB epidemic in most countries (and in Ukraine as well) comes into the stabilization phase. Currently in most countries of the world the almost identical approaches are used in diagnosing, prophylaxis and management of tuberculosis, which motivates the researches for the development of new vaccines, TB drugs, and treatment regimens.

**Key words:** tuberculosis, DOTS-Plus strategy, Stop TB strategy, detection, diagnosis, treatment, prevention.

**Ukr. Pulmonol. J. 2013; 2: 5–14.**

*Yurii I. Feshchenko*

*Director of National Institute of phthisiology*

*and pulmonology named after F. G. Yanovskii*

*National Academy of medical sciences of Ukraine*

*Academician of NAMS of Ukraine, professor*

*03680, Kyiv, 10, M. Amosova str.*

*Tel.: 380 44 275-04-02, fax: 380 44 275-21-18, admin@ifp.kiev.ua*