

## **Tuberculosis in Patients with HIV-Infection in Russia: Cohort Study over the Period of 2015-2016 Years**

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**Abstract :** Tuberculosis (TB) associated with HIV is one of the top causes of death worldwide. However, early detection and treatment of TB in HIV-infected individuals significantly reduces the risk of developing severe forms of TB and mortality. The goal of the study was to analyze the peculiarities of TB associated with HIV infection. Over the period of 2015-2016 a retrospective cohort study was conducted among 377 patients with TB/HIV co-infection who attended the Moscow Tuberculosis Clinic. The majority of the patients was male (64,5%). The median age was: men 37,9 (24÷62) and women 35,4 (22÷72) years. The most prevalent age group was 30-39 years both for men and women (73,3% and 54,7%, respectively). The ratio of patients in age group 50-59 and senior was 3,9%. Socioeconomic status of patients was rather low: only 2.3% of patients had a university degree; 76,1% was unemployed (of whom 21,7% were disabled). Most patients had disseminated pulmonary tuberculosis in the phase of infiltration/ decay (41,5%). The infiltrative TB was detected in 18,9% of patients; 20,1% patients had tuberculosis of intrathoracic lymph nodes. The occurrence of MDR-TB was 16,8% and XDR-TB - 17,9%. The number of HIV-positive patients with newly diagnosed TB was n=261(69,2%). The active TB-form (MbT+) among new TB/HIV cases was 44,7 %. The severe clinical forms of TB and a high TB incidence rate among HIV-infected individuals alongside with a large number of cases of newly diagnosed tuberculosis, indicate the need for more intense interaction with TB services for timely diagnosis of TB which will optimize treatment outcomes.

**Keywords :** HIV, tuberculosis (TB), TB associated with HIV, multidrug-resistant TB (MDR-TB)

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