## Efficiency of Treatment in Patients with Newly Diagnosed Destructive Pulmonary Tuberculosis Using Intravenous Chemotherapy

Authors: M. Kuzhko, M. Gumeniuk, D. Butov, T. Tlustova, O. Denysov, T. Sprynsian

**Abstract :** Background: The aim of the research was to determine the effectiveness of chemotherapy using intravenous antituberculosis drugs compared with their oral administration during the intensive phase of treatment. Methods: 152 tuberculosis patients were randomized into 2 groups: Main (n=65) who received isoniazid, ethambutol and sodium rifamycin intravenous + pyrazinamide per os and control (n=87) who received all the drugs (isoniazid, rifampicin, ethambutol, pyrazinamide) orally. Results: After 2 weeks of treatment symptoms of intoxication disappeared in 59 (90.7 $\pm$ 3.59 %) of patients of the main group and 60 (68.9 $\pm$ 4.9 %) patients in the control group, p<0.05. The mean duration of symptoms of intoxication in patients main group was 9.6 $\pm$ 0.7 days, in control group - 13.7 $\pm$ 0.9 days. After completing intensive phase sputum conversion was found in all the patients main group and 71 (81.6 $\pm$ 4.1 %) patients control group p < 0.05. The average time of sputum conversion in main group was 1.6 $\pm$ 0.1 months and 1.9 $\pm$ 0.1 months in control group, p > 0.05. In patients with destructive pulmonary tuberculosis time to sputum conversion was 1.7 $\pm$ 0.1 months in main group and 2.2 $\pm$ 0.2 months in control group, p < 0.05. Conclusions: In patients with newly diagnosed destructive pulmonary tuberculosis use of isoniazid, ethambutol and sodium rifamycin intravenous in the intensive phase of chemotherapy resulted in a significant reduction in terms of the disappearance of symptoms of intoxication and sputum conversion.

**Keywords:** intravenous chemotherapy, tuberculosis, treatment efficiency, tuberculosis drugs

Conference Title: ICTT 2017: International Conference on Tuberculosis Therapy

**Conference Location :** London, United Kingdom **Conference Dates :** February 16-17, 2017