

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

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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±3.59 %) of patients of the main group and 60 (68.9±4.9 %) patients in the control group, $p < 0.05$. The mean duration of symptoms of intoxication in patients main group was 9.6 ± 0.7 days, in control group - 13.7 ± 0.9 days. After completing intensive phase sputum conversion was found in all the patients main group and 71 (81.6±4.1 %) patients control group $p < 0.05$. The average time of sputum conversion in main group was 1.6 ± 0.1 months and 1.9 ± 0.1 months in control group, $p > 0.05$. In patients with destructive pulmonary tuberculosis time to sputum conversion was 1.7 ± 0.1 months in main group and 2.2 ± 0.2 months in control group, $p < 0.05$. The average time of cavities healing in main group was 2.9 ± 0.2 months and 3.9 ± 0.2 months in the 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

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