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**Title:** How big is the problem with MDR-TB cases in Macedonia?

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**Body:** Background: Multi-drug resistance tuberculosis (MDR-TB) is one of the most challenging problems in the National Strategy for control tuberculosis in Macedonia. The aim of this study was to present all patients with MDR-TB who were registered in the National MDR-TB Register in Macedonia from 2001 till 2011.

Material: 32 patients who were treated with individualized therapeutic regimes were enrolled in the study.

Patients follow-up ended when an outcome was recorded or, in December 2011 for those still on treatment.

Results: 29 patients were with bacteriological confirmation, and 3 cases were suspected for MDR-TB.

MDR-TB cases participate with 0,5-4,6 % in the total resistant strain obtained from positive culture during the last six year. 30 patients (93, 75%) had acquired resistance and only 2 patients (6, 25 %) had primary MDR resistance. Time to culture conversion was two months or less in the most of patients. The results of treatment outcome are: 9 patients were cured (28, 12 %), 13 patients (40, 62%) died, 5 patients interrupted the treatment (15,62%) and 5 patients (15,62 %) are still on treatment. No one patient had XDR-TB initially, but only one cases emerged XDR-TB during the treatment. Conclusion: To improve management and treatment results of MDR-TB patients in Macedonia, we need more efforts in providing necessary medications, clinical conditions and treatment under direct control.