

# European Respiratory Society Annual Congress 2013

**Abstract Number:** 4306

**Publication Number:** P4343

**Abstract Group:** 8.1. Thoracic Surgery

**Keyword 1:** Surgery **Keyword 2:** Tuberculosis - management **Keyword 3:** Treatments

**Title:** Is pneumonectomy a chance for conversion of sputum smears in long time period in cases of two-sided MDR pulmonary tuberculosis?

Prof. Dr Peter 27637 Yablonsky piotr\_yablonskii@mail.ru MD <sup>1,2</sup>, Dr. Igor 27638 Vasilyev dr.vasilyev@gmail.com <sup>1</sup>, Dr. Grigorii 27639 Kudriashov grynek17@gmail.com <sup>1</sup>, Dr. Armen 27640 Avetisyan armen@spbniif.ru <sup>1</sup> and Prof. Dr Eugeny 27641 Sokolovich sokole@mail.ru <sup>1,2</sup>. <sup>1</sup> Thoracic Surgery, SPb State Research Institute of Phthisiopulmonology, Saint-Petersburg, Russian Federation and <sup>2</sup> Medical Faculty, SPb State University, Saint-Petersburg, Russian Federation .

**Body:** Introduction: the estimated worldwide incidence of MDR-TB in 2010 was 650,000. Pulmonary resection combined with chemotherapy had high cure rates in MDR TB. But the role of pneumonectomy in cases of cavitary MDR-tuberculosis 2-sided MDR-TB is not clear for now days. The aim: to determine the role of pneumonectomy in cases of cavitary tuberculosis of lung and focal tuberculosis of contralateral lung. Material: during 2012 10 patients were included in trial. All patients were treated during previous 1 year chemotherapy according to susceptibility. Sputum smears were positive full time. 6 males and 4 females. 10 pneumonectomy were done: 7 right-sided and 3 left-sided. After operation every 2 month sputum smears were done. Results: postoperative period was uncomplicated in 7 cases. In 3 cases was hemothorax, which require VATS-procedure. Mean time of postoperative period was 35+|-10 days. Complication rate – 30%. Histology revealed in one case specific inflammation in line of resection and caseation of mediastinal lymph nodes. Long-term results: one-year survival – 100%. Sputum smears for acid-fast bacilli are negative during all postoperative period in 9 cases. Only 1 patient with specific inflammation and caseation of mediastinal lymph nodes had progression of TB and continuing of positive sputum smears for acid-fast bacilli. Rate of conversion is 90%. Conclusion: we have no sufficient data for statistical analysis. But the results of conversion and acceptable of complication rate are promising. Pneumonectomy in cases of cavitary MDR-tuberculosis of lung and focal tuberculosis of contralateral lung it can give a chance for conversion of sputum smears.