

INVASIVE DIAGNOSTICS AND SURGICAL TREATMENT OF PULMONARY ASPERGILLOSIS

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Abstract

Aim: to present our own experience of surgical treatment of pulmonary aspergilliosis.

Materials and methods. During the last 10 years 21 patients with pulmonary aspergilliosis were observed at thoracic surgery and invasive methods of diagnostics department at National institute of phthisiology and pulmonology named after F. G. Yanovsky NAMS of Ukraine. In 15 (71,4 %) cases an aspergilloma was diagnosed and in 5 (23,8 %) patients — invasive aspergilliosis. In 12 (80,0 %) patients with aspergilloma the resection of lung was performed. In 3 (21,4 %) patients surgery was declined due to significant respiratory disorders. The average age of patients was $(40,3 \pm 12,4)$ years. All patients received specific antifungal therapy before and after surgery.

Results. The following operative interventions were performed: 3 (25,0 %) — pleuropulmonectomy, 6 (50,0 %) — lobectomy, 1 (8,3 %) — typical resection of the pyramid and S3 on the right. Thoracoplasty was performed in 1 (8,3 %) patient during the surgical procedure. For one case of typical resection of basal segments of lower lobe and S3 on the right, primary thoracoplasty, and upper bilobectomy were performed. The average duration of the operation was $(212,4 \pm 73,6)$ min, and the average intraoperative blood loss was $(306,2 \pm 299,2)$ ml.

Conclusions. Surgical treatment of pulmonary aspergilliosis is a challenge with many unsolved questions. Systematization of own and literature data gives an opportunity to improve the outcomes of the treatment.

Key words: pulmonary aspergilliosis, aspergilloma, resection, thoracoplasty.

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