

## **Wpływ fizjologicznego roztworu soli morskiej z zawartością miedzi na regenerację błony śluzowej op operacjach endoskopowych zatok przynosowych z oceną morfometryczną i endoskopową**

Physiological sea-salt solution enriched with copper in post-operative care in patients treated with functional endoscopic sinus surgery with special respect to regeneration of nasal mucosa estimated by morphometrical and endoscopic examination

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### **SUMMARY**

Today's knowledge about surgical treatment of chronic inflammation states shows, that the best method of cure is Functional Endoscope Sinus Operation (FESO). But the operation is only one part of success, because very important thing in next stadium of treatment is surgical nursing. Permanent contact between patient and the preson who look after him should last about 3 or 4 months. The aim of this study was clinical and morphometrical evaluation regeneration of mucous membrane after rhinology operations dependence on kind of nursing.

**Material and methods:** Searches were led among 108 ill people. They were from 19 to 58 years old (average 36.1 +/- 0.3). Patients were divided into two groups. Group I – 57 patients who used physiological salt solution of sea water enriched by copper for sinus rinsing. Group II – 51 patients whose sinuses rinsed with physiological salt solution. The following symptoms were evaluated: blockade of nose, discharge flow off the back wall of throat, attendance crusts in nose channel, (0 – without symptoms, 1 – a few sypptoms, 2 – a lot of symptoms). These symptoms were evaluated 14, 30 and 60 days after FESO. Endoscope evaluation of nasal fossas and sinuses led. Cytological swaps from mucous membrane of nose were led for each patient. Searches were led before operation and 14, 30 and 60 days after FESO. In cytology pictures were evaluated quality and quality changes. Extraneous and stationary cells were evaluated. Time of saccharine displacing (CPS) was analysed.

**Results:** 14 days after operations in group I: blockade of nose was evaluated average 1.2 point, discharge flow off the back wall of throat – 1.1 point, attendance crusts in nose channel – 1.4 point. In group II these symptoms were evaluated properly 1.8, 1.3 and 1.5 point 30 days after FESO in group I: blockade of nose was evaluated – 0.8 point discharge flow off the back wall of throat – 0.7 point, attendance crusts in nose channel – 0.9 point. In group II these symptoms were evaluated properly 1.1, 0.9 and 1.3 point. After 60 days in group I these symptoms were evaluated 0.6, 0.3 and 0.2 point and in group II 36.4 min. After 30 days properly 33.4 and 34.1. After 60 days properly 16.6 and

29.8 min. In cytology pictures of both groups there was rich cells picture with presence concentrations and conglomerates cylindrical and bud cells. Among extraneous cells there were a lot of absorbent indifferent granulocytes. There were more bud and cylindrical cells among patients from group II. There was faster normalization of cytology pictures in group I. Patients from group I were examined by endoscope searches. These searches showed faster removal mucus discharge and crusts in nose channel than in group II.

**Conclusion:** Sea water copper permit to regenerate mucous membrane of nose much faster. This water permit to normalize physiological functions of nose mucous membrane. These searches showed by otorhinolaryngology and morphological examination.

**Hasła indeksowe:** operacje endoskopowe, przewlekłe zapalenie zatok, opieka pielęgnarska

**Key words:** endoscopic procedures, chronic sinusitis, nursing care.