

EFFECTIVENESS OF USING OF THE SPLINTS USE IN NASAL CAVITY SURGERIES

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Abstract: The creation of new medical technologies allows doctors to perform simultaneous surgical procedures in the upper respiratory tract. Joint operative procedures are often performed in ENT organs, but this problem remains poorly studied and insufficiently illuminated in the practice of otorhinolaryngology. There are not many works of local authors devoted to simultaneous operations in rhinology. It should be noted that, despite the possibilities of modern conservative therapy, the number of simultaneous operations in diseases of the nose, intranasal structures, and paranasal cavities is not decreasing.

Keywords: nasal cavity, simultaneous operations, paranasal sinuses.

Introduction. Among the diseases of the larynx, deviation of the septum of the nose occupies the main place. The deviation of the septum of the nose causes the occurrence of other pathological processes in the nasal cavity. The deviation of the septum of the nose causes hypertrophy of the lateral wall of the nasal cavity, which in turn causes joint diseases in the cavity. Simultaneous operations ("simultaneous" in English - at the same time) are complex operative practices aimed at the simultaneous surgical correction of two or more diseases of different organs in one or more anatomical areas. It is especially important to perform simultaneous operations in cases where there is a pathogenetic connection between two surgical diseases, The creation of new medical technologies allows doctors to perform simultaneous surgical operations in the field of upper respiratory tract less invasively. Joint operative procedures are often performed in ENT organs, but this problem remains poorly studied and insufficiently covered in the practice of otorhinolaryngology. There are not many works of local authors devoted to simultaneous operations in rhinology [5,17,3,7,16]. It should be noted that despite the possibilities of modern conservative therapy, the number of simultaneous operations in diseases of the nose, nasopharyngeal structures and paranasal cavities is not decreasing [3,9,10,21,1,17].

Purpose of the research work was - studying the morpho-functional features of the nasal mucosa after joint simultaneous surgical operations in cavity of the nose.

The results and discussion. Research materials and methods In 2021-2022, 60 patients with diseases of the nose and paranasal cavities were comprehensively examined and treated at the otorhinolaryngology department of the multidisciplinary clinic of the Tashkent Medical Academy. Combined surgical procedures were

performed in these patients, and morpho-functional studies were conducted on the effectiveness of hemostatic agents. Symptoms such as difficulty breathing through the nose, constant and occasional runny nose, impaired sense of smell were observed in the patients. These symptoms have been associated with impaired olfactory function in some cases. During the clinical examination, the symptoms of headache and forehead pain were often noted in the patients (table 1).

Table 1

The frequency of the main clinical symptoms in patients with joint disease of the nasal cavity

Complaints	Number of patients (n=120), %	
	abs.	%
Difficulty breathing through the nose	60	100.0
Impaired sense of smell	14	23.0
Nasopharyngeal discomfort	22	36.6
Sneezing	18	45.0
Discharge from the nose (of different nature - mucous, mucous-purulent, etc.)	30	50.0
Constant runny nose	20	33.3
Occasional runny nose	10	16.6
Occasional headaches	10	16.6

$p > 0.05$

During the study hydrogen ion concentration activity was also studied during the investigation nasal separation, suction, mucociliary transport and nasal cavity in patients (table 2).

Table 2.

Results of functional testing methods of the mucous membrane of the nasal cavity

Indicators	Group 1 n=20	2nd group, n=20	Group 3 n=20	Indicators in the norm
Mucociliary clearance (min)	31.7±0.67** *	29.83±0.4***	30.83±0.4** *	11.5±1.4
	28.5±0.72*	26.4±0.82**	20.4±0.82**	
Hydrogen ion concentration indicator (pH)	7.36±0.01** *	7.37±0.01***	7.37±0.01** *	7.0±0.01
	7.3±0.01	7.2±0.01	7.2±0.01	
	81±2.65***	82.3±1.41***		68.2±0.6

Suction function (pupil reaction time (number))	74.5±0.42**	73.8±0.72**	82.3±1.41** * 69.8±0.72**	
Separation function (cotton weight (mlgr))	57.3±0.48** *	56.5±0.52***	56.5±0.52** *	41.25±0.08
	51.1±0.16	49.3±0.26*	44.3±0.26*	

*-Differences compared to normal values weak reliable, (p>0.05)

** -Differences compared to normal values moderately strong reliable, (p>0.05)

***-Differences compared to normal values strong reliable, (p>0.05)

As can be seen from Table 2, there was almost no difference in pH indicators in the 3 groups of patients. However, in the mucociliary transport examination, 31.7 minutes before and 28.5 minutes after surgical interventions in 1 group of patients (with a gauze swab), According to obtained results, it can be concluded that the tools used after surgical interventions in the nasal cavity have a significant effect on the mucous membrane of the nasal cavity, which was confirmed in the above data. Among the compared methods, the results of the use of the Splint tool we offer after surgical interventions show that the effect on the mucous membrane of the nasal cavity is almost minimal.

In order to investigate nasal breathing or nasal ventilation, we studied rhinopneumometry indicators (table 3).

Table 3

Rhinopneumometry test results (before treatment procedures)

Group	Right		Left	
	SOP, sm ³ /s	SS, Pa/ sm ³ /s	SOP, sm ³ /s	SS, Pa/ sm ³ /s
I	311.01±9.65 (46%↓)	1.64±0.11 (43%↑)	314.01±9.65 (46%↓)	1.79±0.11 (43%↑)
II	324.23±10.07 (59%↓)	1.45±0.09 (96%↑)	323.23±10.07 (59%↓)	1.65±0.09 (96%↑)
III	301.01±9.65 (46%↓)	1.31±0.11 (43%↑)	325.01±9.65 (46%↓)	1.46±0.11 (43%↑)

p>0.05

As can be seen from the table, rhinopneumometry parameters (before surgery): volume flow value in group 1 patients, right - 291 sm³/s, left - 274 sm³/s, resistance, right - 1.84 PA/sm³ /s, left - 0.59 PA/ sm³/s, UHO - 340 sm³/s, UQ - 0.54 PA/ sm³/s. Value of volume flow in 2 groups of patients, right - 291 sm³/s, left - 274 sm³/s, resistance, right - 1.84 PA/ sm³/s, left - 0.59 PA/ sm³/s, UHO - 340 sm³/s, UQ - 0.54 PA/ sm³/s. Volume flow value in 3 groups of patients, right - 291 sm³/s, left - 274

sm³/s, resistance, right - 1.84 Pa/ sm³/s, left - 0.59 Pa/ sm³/s, UHO - 340 sm³/s, UQ - 0.54 Pa/ sm³/s. The results of the examination showed that the indicators of nasal ventilation were almost the same in all 3 groups of patients before treatment.

Table 4

Rhinopneumometry test results (after treatment procedures)

Group	Right		Left	
	SOP, sm ³ /s	SS, Pa/ sm ³ /s	SOP, sm ³ /s	SS, Pa/ sm ³ /s
I	411.01±9.65 (66%↓)	0.84±0.11 (73%↑)	414.01±9.65 (76%↓)	0.99±0.11 (68%↑)
II	584.23±10.07 (79%↓)	0.65±0.09 (86%↑)	564.23±10.07 (84%↓)	0.89±0.09 (89%↑)
III	671.01±9.65 (90%↓)	0.44±0.11 (93%↑)	684.01±9.65 (92%↓)	0.51±0.11 (95%↑)

p>0.05

The obtained data indicate that the ventilatory function of the nasal cavity was significantly improved in 3 groups of patients (this was manifested due to the absence of means of resistance to the airflow in the nasal cavity).

Patients have a nose a microbiological study was carried out in order to study the significance of the microflora of the mucous membrane in the effect of the means on the functions of the nasal cavity after the medical procedures carried out in the nasal cavity.

In this, **in the 1st group** when examining the condition of smears taken from the nasal mucosa of patients who underwent nasal septum surgery and used gauze tampons 7-14 days after the operation, staphylococcus aureus, Haemophilus influenzae, Streptococcus pneumonia, Escherichia coli were found in the microbiological landscape of 7-14 days in 46 patients. .

In order to determine the degree of influence of the tools used in the nasal cavity on the nasal mucosa after nasal cavity surgical procedures, a cytological study was conducted in patients (table 5).

Table 5

In rhinopathologies, the state of the mucous membrane of the nasal cavity is on a rhinocytogram

Signs	1 group (n=)	2 groups (n=)	3 groups (n=)

breath papillary cellular structures derived from the epithelium of the airways	Before the operation	Day 7 after surgery	Day 14 after surgery	Before the operation	Day 7 after surgery	Day 14 after surgery	Before the operation	Day 7 after surgery	Day 14 after surgery
Basal cells	+	+	+	+	+	+	+	+	+

As can be seen from the table data, the state of the nasal mucosa was recorded in patients of each group in the cytological material obtained from the mucous membrane of the nasal cavity after the operation. Thus, in patients who used gauze tamponade of the nasal cavity (the first group), clear signs of inflammatory infiltration and dystrophic changes were detected. Patients in the third group (only the splint was used) were distinguished by the reduction of inflammatory signs and the presence of regenerative process signs, as can be seen from the rhinocytogram of the mucous membrane.

The results of cytological studies have once again confirmed the effectiveness of using the splint in the practice of otorhinolaryngologists.

CONCLUSION

The use of the silicon "Splint" as an alternative to tamponade of the nasal cavity in joint surgical procedures in the nasal cavity, due to the reduction of the volume of complications during and after the operation in patients, strong trophic changes of the mucous membrane and pain reduction improved treatment results.

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