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EXPERIMENTAL STUDY RESULTS OF THE APPLICATION OF HEMOSTATIC COLLAGEN **SPONGE**

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ABOUT ARTICLE

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Abstract: In the last decade, based on the analysis of both referrals to primary care institutions and groups of patients treated in an inpatient setting, diseases of the nose and paranasal sinuses (BYoB) have firmly taken the first place in the general morbidity structure of ENT organs. With the introduction of endonasal-endoscopic surgical methods, the number of operations performed in the nasal cavity has increased significantly. Currently, on the basis of the data of the endoscopic examination of the nasal cavity, CT of the nose and adjacent nasal cavities, and the analysis of the performed functional a treatment plan examinations, aimed eliminating the pathological process, maximally preserving the mucous membrane of the nose and cavities, anatomical bone structures, correcting their configuration, and restoring the lost functions is being determined. . In recent years, a large amount of data on functional endonasal preventive operations has been collected.

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INTRODUCTION

Advances in modern medicine make it possible to expand the scope of combined surgical practices [2]. In the literature, there are pathological processes in the area of the nasal septum, deformations of the structures of the lateral wall of the nasal cavity, and the natural opening of the nasal cavities; perforative odontogenic maxillary sinusitis; Issues related to the implementation of typical variants of joint operations in finger-like extensions of the paranasal sinuses combined with damage to the orbit have not yet been clarified [5,11,13,14]

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Although in joint operative practices, to one degree or another, injuries of the mucous membrane occur in different areas of the nasal cavity, the problem of prevention and treatment of post-operative traumatic bleeding becomes extremely important [4-10]. The number of patients with nosebleeds is 14.7-0.5% among those in need of emergency ENT care. Epistaxis can be life-threatening due to significant blood loss. The following are the causes of nosebleeds: traumas, surgical operations on nasal structures, atrophy of the mucous membrane of the nasal cavity, arterial hypertension, blood diseases, therefore, quality hemostasis is still a relevant issue today [3,12,15-21].

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The hemostatic effect of tamponade is, on the one hand, a strong mechanical pressure on the bleeding vessel, and on the other hand, keeping the blood in the nasal cavity, which ensures faster blood clotting and faster thrombus formation in the vessel. However, this method of stopping nosebleeds is quite traumatic for the mucous membrane of the nasal cavity, which leads to its dysfunction and causes significant pain in patients. Tampon removal is also a painful process [22]. In addition, the presence of a gauze tampon in the nasal cavity is accompanied by strong inflammatory changes of the mucous membrane, accompanied by the appearance of signs of intoxication.

The results obtained. The nature of the interaction of the collagen film with the tissue was determined after a single covering of a newly formed subcutaneous wound in the neck area of rats with this film.

The weight of the rats did not change during the experiment. On the edge. there is no scratching, suppuration or other damage in the area of interaction between the film and the skin. As in other cases, in animals of the control group, where the surface of the defect was not covered with a collagen film, the formation of granulation tissue was noted from the first day, which initially consisted of only neutrophils (1 day), then neutrophils and monocytes (3 days). The wound surface is covered by a thin film consisting of inflammatory cell-elements, hemolytic erythrocytes and intercellular fluid. Later (7-10 days), a clot consisting of dead cells and fibrin infiltrating granulation tissue is formed on the surface of the wound.

When the wound surface was covered with a collagen collagen film, granulation tissue was noted only at the border of the skin and the film. By the 3rd day of the experiment, the preservation of the inflammatory infiltrate was observed with the formation of an infiltrative flange around the film. Later, with the formation of a scar consisting of thin collagen fibrils of the film and private dermis, the skin is attached to the collagen film (3-7 days), there is no developed inflammatory reaction under the film.

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By 10 days, the wound is covered with a thin film of collagen fibrils entangled in the dermis at the periphery, and is attached to layers of structures located in the area of the bottom of the wound. Leukocyte infiltration of the wound is not observed.

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Conclusion. Experimental studies have shown that the collagen film in the early stages does not have the property of damaging and causing injury to local tissues. The reaction of the surrounding tissues to the film is insignificant and non-inflammatory. In the late periods of the research, the collagen fibrils of the film in the periphery are observed to grow into the mucous membrane and the layers of the structures of the wound area . The obtained data indicate the possibility of using collagen film in the clinic in order to optimize the surgical treatment of joint pathologies of the nasal cavity and to accelerate the regeneration processes of the postoperative wound.

REFERENCES

- 1. Normurodov B. K. i dr. The frequency of occurrence and the structure of gonoid and inflammatory diseases of the maxillofacial area // Chirurg. 2020. No. 7-8. S. 73-84..
- **2.** Hasanov U. S. i dr. Results of immunohistochemical studies in patients with chronic polyposis rhinosinusitis. 2020.
- 3. Djuraev J. A. i dr. RESULT ANALYSIS CHASTOTY RASPREDELENIE POLYMORPHIZMA RS1800895 592C> A V GENE IL10 SREDI BOLNYX S XPRS //Universum: medicine and pharmacology. 2023. no. 3 (97). S. 11-16.
- **4.** Hasanov U. S., Djuraev J. A., Shaumarov A. Z. RESULT ANALYSIS CHASTOTY RASPREDELENIE POLYMORPHIZMA A1188C RS3212227 V GENE IL 12B SREDI PATSIENTOV S XPRS, XRS I KONTROLNOY VYBORKE: dis. 2023.
- 5. Hasanov U. S., Djuraev J. A., Shaumarov A. Z. RESULT ANALYSIS FREQUENCY DISTRIBUTION POLYMORPHIZMA RS1800895 592C> A V GENE IL10 SREDI BOLNYX S XPRS : dis. 2023.
- **6.** Shaumarov A. Z. i dr. The role of hemostatic agents and odnovremennyx khirurgicheskih vmeshatelstvax v nonosovoy polosti.
- 7. Zulunov BS et al. Chronic polyposis rhinosinusitis in treatment genetic of factors significance //Eurasian Journal of Otorhinolaryngology-Head and Neck Surgery. 2023. T. 2. S. 71-75.
- 8. Khasanov US et al. Results analysis frequency distribution polymorphism rs1800895 592c> a v in the IL10 gene sick s XPRS //Eurasian Journal of Otorhinolaryngology-Head and Neck Surgery. 2023. T. 2. S. 104-108.
- **9.** AZ KUSDJAS Results analysis frequency distribution polymorphism rs1800895 592c> a v gene il10 sredi bolnyx s xprs : dis. Otorhinolaryngology Society, 2022.

VOLUME03 ISSUE07

- ISSN: 2750-8587
- **10.** Shaumarov A. _ Z. , Shaikhova X. _ E. , Djuraev J. _ A. _ Assessment of the influence of nasal tamponade on quality of life in the early postoperative period after septoplasty //Uzbek medical journal. 2020. T. 5. no. 1.
- **11.** Khasanov US et al. A COMPLEX APPROACH TO THE TREATMENT OF ACUTE SENSONEURAL HEARING LOSS OF DIFFERENT GENES //Oriental Journal of Medicine and Pharmacology. 2023. T. 3. no. 02. S. 14-25.
- **12.** Zavkiyevich SA et al. ADD SURGERY IN THE PRACTICES THE NOSE SPACE MUSICAL CURTAIN MORPHOLOGICAL INVESTIGATION RESULTS . 2022.
- **13.** Khasanov US et al. Results analysis frequency distribution polymorphism a1188c rs3212227 c gene il 12b sredi patientov s my chronic polypoznym rhinosinusitis //Oriental Journal of Medicine and Pharmacology. 2022. T. 2. no. 1. S. 104-115.
- **14.** Khasanov US et al. Results of frequency analysis distribution of A1188C RS3212227 polymorphism in the IL 12B gene among patients with chronic rhinosinusitis polyposis //Oriental Journal of Medicine and Pharmacology. 2022. T. 2. no. 01. S. 104-115.
- **15.** Khasanov US et al. RESULTS OF AUDIOMETRICAL INDICATORS OF COCHLEVESTIBULAR DISORDERS IN PATIENTS WITH ARTERIAL HYPERTENSION DISEASE //Oriental Journal of Medicine and Pharmacology. 2023. T. 3. no. 02. S. 26-36.
- **16.** Khasanov US et al. RESULTS OF AUDIOMETRICAL INDICATORS OF COCHLEVESTIBULAR DISORDERS IN PATIENTS WITH ARTERIAL HYPERTENSION DISEASE //Oriental Journal of Medicine and Pharmacology. 2023. T. 3. no. 02. S. 26-36.
- **17.** Khasanov US et al. VESTIBULAR ANALYZER TEST RESULT INDICATORS OF COCHLEOVESTIBULAR DISORDERS ON THE BACKGROUND OF ARTERIAL HYPERTENSION //Oriental Journal of Medicine and Pharmacology. 2023. T. 3. no. 02. S. 37-44.
- **18.** Djuraev JA, Fayozov SF Rhinoplasty In Combined Deformations Of The Nose //International Scientific and Current Research Conferences. 2021. S. 58-59.
- **19.** Mavlyanov, U. N. (2020). Problems of Ontology in the Heritage of Ali Safi. International Journal of Multicultural and Multireligious Understanding, 7(7), 540-545.
- **20.** Djuraev J. _ A. _ Lipofilling method to eliminate deformities of the face and jaw area. 2022.
- **21.** Khodjanov Sh. X. i dr. Clinical and morphological characteristics of anthrochanal polyps // Uzbek medical journal. 2020. T. 6. no. 1.
- **22.** Khamdamovich K. Yo., Djuraev J. A., Yusupov Sh. Sh. Comparative analysis of the frequency of the RS1801133 66A>G polymorphism in the MTHFR gene in patients with post-COVID-19 complications in the maxillofacial region. 2022.

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EUROPEAN INTERNATIONAL JOURNAL OF MULTIDISCIPLINARY RESEARCH AND MANAGEMENT STUDIES

23. Karimov O. M., Shamsiev D. F. Frequency of vstrechaemosti zabolevaniy nosa u bolnykh khronicheskoy pochechnoy dosstatochnostyu //Integrativnaya stomatologiya i chelyustnolitsavaya hirurigiya. - 2022. - T. 1. – no. 1. – S. 35-38.

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