

## RHINOSINUSITIS AND OTHER DISEASES OF THE PARANASAL SINUSES

**ISSN** (E): 2938-3765

Nuriddinov Khusniddin Noriddinovich Bukhara State Medical Institute, Republic of Uzbekistan, Bukhara city

## **Abstract**

Worldwide, there is an increase in the prevalence of acute and chronic forms of rhinosinusitis among adults and children. The article reflects the results of modern research on the prevalence of rhinosinusitis, presents classifications, etiological aspects, and outlines the basic tactical principles of management and antibacterial therapy of this disease. Acute catarrhal rhinosinusitisis probably the most common disease in the world, which every person has many times in their lifetime. In addition to the fact that acute rhinosinusitis can be an independent disease, it often accompanies other viral and infectious diseases. The most common causative agents риносинусиоf acute rhinosinusitis are, of course, respiratory viruses (influenza viruses, parainfluenzaviruses, rhinoviruses, adenoviruses, MS viruses, enteroviruses, coronaviruses). It is well known that viruses pave the way for bacterial pathogens by weakening or suppressing local immunity of the mucous membranes of the upper respiratory tract. The most commonbacterial pathogens are Pseudococcusaureus, Hemophilus influenzae and moraxella. Do not forget about atypical pathogens (chlamydia, mycoplasma, pneumocysts and legionellaонеллы). Due to the lackof immunity, children suffer from acute respiratory infections more often than adultsлые, approximately 3.6 times, which is 69 thousand per 100 thousand children under the age of 14 years [2]. Systemic antibacterial drugs are often prescribed to patients with diseases of the upperних дыхательгеspiratory tract rashly. Doctors 'reassessment of reasonableness prescribing systemic antibiotics for VDD diseases can be explained by the rather frequents pontaneous recovery of patients with these diseases and the incorrect judgment that systemic antibiotics prevent the development of bacterial superinfection in diseases caused by viruses [2, 3].

## Introduction

The problem of choosing etiotropic therapy, as well as the type, method of administration and dose of the drug in the treatment of patients with diseases ofхних дыхаthe upper respiratory tract remains very important to date. There are a number of important questions for practicing physicians and prescribing certain antimicrobial drugs: 1. How necessary is etiotropic therapy in this particular clinicalcase, and if so, is it systemicor local? 2. What specific drugshould be prescribed and according to what scheme? 3. Another important question is whether the effectiveness of this drug has been proven in controlled clinical trials. It is no secret that over the past 30 years, fundamentally new types of antibiotics have not been developed. For us and our patients, this means that without taking drastic measures, there is a real risko3a наступления of a post-antibiotic егавой, when commoninfections and minor injuriescan again lead to serious complications and deaths.

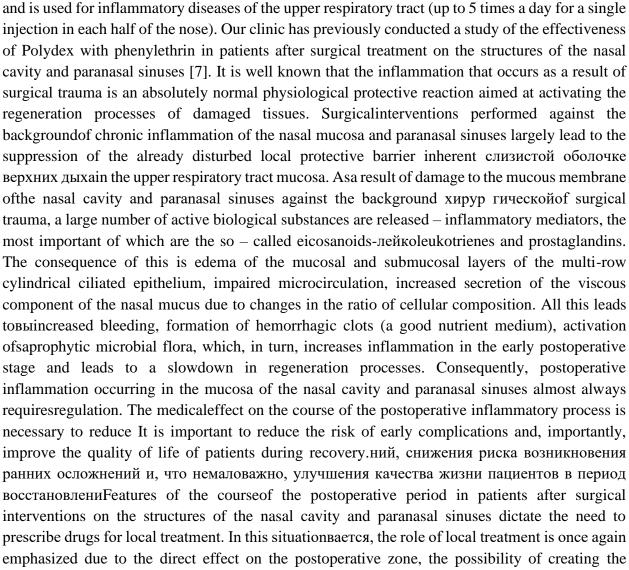




The document states, among other things, the need to change the tactics of prescribing systemic antibacterialdrugs – they should be used only in cases of absolute necessity, in compliance with the instructions for specifying optimal dosages and the duration of the course of treatment. Of course, there are cases when we cannot do without prescribing systemic antibacterial drugs. Systemic antibacterial therapy is indicated only in the presence of bacterial complications, such as acute sinusitis of moderate or severe course with pronounced symptoms characteristic of sinusitis, слизистотисориrulent or purulent discharge from the nasal cavity or flowing down the back wall of the pharynx, febrile temperature of more than 37.5 °C, a feeling of fullness, pain and soreness on palpation in the projection of the affected area. sinusitis, which is accompanied by complications from the meninges of the brain or intraorbital complications. At the same time, it should be remembered that most caycases of acute rhinosinusitis are cured spontaneously and do not requiretopical antibacterial therapy – these data were obtained as a result of a multicenter study conducted by doctors in Canada, the Netherlands, and France [5, 6]. Following the latest recommendations on the reasonable restriction of prescribing systemic antibacterial drugs in acute uncomplicated infectious diseases of the upper respiratory tract, the mosturgent is the use of topical antibacterial andanti-inflammatory drugs. This gives us a number of advantages: first, the ability to deliver the drug directly to the focus of infectious inflammation, second, the local use of antibacterialdrugs contributesto achieving their maximumconcentration in the focusof inflammation, third, minimal systemic exposure and, undoubtedly, the localuse of drugs reduces the risk of infection. the risk of developing undesirable and side reactions does not lead to a violation of the normal human biocenosis. Antimicrobial drugs for local treatment are prescribed in the form of insufflations, sprays and inhalations. There are a number of requirements for medicinal products applied to the mucous membranes. 1. Minimal adsorption of the drug substance from the mucous membranes of the nasal cavity and paranasal sinuses and, as a result, minimal systemic effect. 2. Noinhibitory effect опмукоциthe mucociliary clearance system. 3. Nolocal irritant effect on the mucosa of the upper respiratory tract. 4. The widest possible spectrum of bactericidal action against the most common pathogens of acute respiratory infections. 5. Good compliance and the ability of patients to use the drug independently. We are well aware of the topical antibacterial drug Polydex with phenylephrine, whichis used in the treatment of patients with diseases of the nasal cavity and paranasal sinuses. The drug includes two antibacterial components-neomycin and polymicsyn. In combination, these antibioticsmultiply their bactericidal effect. A corticosteroid component – dexamethasone has a pronounced проти вовоспалительнымаnti-inflammatory effect. The additional substance phenylephrine is an effectivevasoconstrictor that not only improves nasal breathing, but also improves the delivery of the above-mentioned antibacterial components to the inflammatory site. Phenylephrine belongs to the group of alpha-adrenomimetics used mainly in the treatment of patients with ear, throat and nose diseases, including those with a complicated course of rhinosinusitis. In combination with other highly effective components, phenylphrine helps to reduce the release of purulent and viscous secretions against the background of bacterial inflammation of the nose and paranasal sinuses. By reducing the swelling of the mucous membrane of the nasal cavity and paranasal sinuses, it also significantly reduces the feeling of pressure y пациіп patients in the area of the projection of the paranasal sinuses. Polydex nasal spray with phenylephrine is available on a doctor's prescription



**ISSN (E):** 2938-3765



Studiesconducted in our clinic convincingly proved that patients who received Polydex with phenylephrine after various surgical interventions on the structures of the nasal cavity and paranasal sinuses noted a rapid reduction in nasal breathing difficulties, headache, and olfactory disorders. During anterior rhinoscopy, these patients showed a more pronounced buildecrease in rhinorrhea and mucosal edema compared to patients who did not receive the above therapy. Thus, in the treatment of patients with acute and chronic diseases of the nasal cavity and paranasal sinuses of bacterial nature, in the vasto bacterial of cases, it is highly advisable to prescribe topical antibacterial therapy as a reasonable alternative to systemic antibacterial drugs. Polydexa with phenylephrine is characterized by a high safety profile for use in allagegroups of patients. The above-mentioned drug can also be recommended for use in cases of postoperative treatment in order to prevent complications and shorten rehabilitation periods.

optimalconcentration of the drug in the focus of inflammation, and the lack of systemic action due



to very low bioavailability.



## References

1. Gwaltney JM. The common cold. In: Mandell G.L., Bennet J.E., Dolin R., eds., Principles and practice of infectious diseases. New York: Churchill Livingstone, 1995.

**ISSN (E):** 2938-3765

- 2. Yakovlev S. V. Rational antibacterial therapy of upper respiratory tract infections: the significance of systemic and local antibiotics. Cons. Med., 2007, 3: 16-22. / Yakovlev S.V. Rational anti bacterial therapy of infections of upper respiratory ways: meaning of systemic and topical antibiotics. Cons. Md., 2007, 3: 16-22.
- 3. Snow V, Gonzales R. Principles of appropriate antibiotic use for treat ment of nonspecific upper respiratory tract infections in adults. Ann Intern Med, 2001, 134(6): 4.
- 4. WHO: Antimicrobial resistance: global report on surveillance 2014. April 2014.
- 5. Subbotina M. V. Topical therapy of inflammatory diseases of the upper respiratory tract. Cons. Med., 2010, 12(11): 16-21. / Subbotina M.V. Topical therapy of inflammatory diseases of upper res piratory ways. Cons. Med., 2010, 12 (11): 16-21.
- 6. Mosges R, Spaeth J, Berger K et al. Topical treatment of rhinosinusitis with fusafungine nasal spray. Arzneim Forsch Drug Res, 2002, 12: 877-83.
- 7. Svistushkin V. M., Ovchinnikov A. Yu., Nikiforova G. N. Inflammation after operations in the nasal cavity and paranasal sinuses: the need for medical menthol regulation. Росс. ринол., 2007, 2: 56-61. / Svistush kin V.M., Ovchinnikov A.Y., Nikiforova G.N. Inflammation after surgery in the nasal cavity and paranasal sinuses: necessity of drug regulation. Ross. Rinol., 2007, 2: 56-61.

