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Специальный выпуск

Часть - 1

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publication deals with the problem of the spread of sarcocystosis among hunting species of waterfowl living in Belarus. Studies conducted in this direction allow us to state an increase in the number of waterfowl caught with signs of muscular sarcocystosis. The lack of information about the disposal of carcasses of the caught birds affected by sarcocysts creates the conditions for the spread of this invasion in Belarus.

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CHANGES IN THE INTERNAL ORGANS IN ALLERGIC RHINITIS IN CHILDREN

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Key words: allergic rhinitis, children, Ig E, gastrointestinal dysfunction, probiotic, therapy.

Annotation: This article describes the results of studying the characteristics of intestinal microflora in children with allergic rhinitis (AR). 40 children diagnosed with AR at the first visit were selected to achieve the goal. Combined allergic rhinitis of the nose and gastrointestinal tract was noted in 51.7% of them. The obtained data show that the treatment of the main disease has a positive effect on the condition of the gastrointestinal tract, but in the long term, the disorder of the digestive organs remains and requires special examination and treatment. Treatment in the hospital led to a significant improvement in the parameters of the coprogram and the results of the ultrasound examination of the digestive organs. The introduction of probiotics into the treatment has a greater effect on the intestinal microflora, restoring its balance in patients with AR.

Since the initial days of life (and before than intrauterine) intestine affects formation of immune response. So, development of protective mechanisms and their activity in the future depend on the stability and balance of micro flora settling on sterile surface of intestinal mucous membrane of a new-born baby [1,3,6]. Thus, prerequisites of disorders in the immune system appear in early childhood. Immature organism of a young child has to adjust to new, sometimes hostile conditions. After birth protection received from mother (antibodies, or special protein complexes transmitted through placenta and breast milk) helps to overcome certain risks (infection). However, it is valid only for a few months; after that a baby needs his own immunity, even imperfect one. Gastrointestinal tract is a physiological barrier for antigens, in other words alien substances. Every day it catches hundreds and thousands of pathogens such as viruses, bacteria, allergens, parasites, and food proteins [4,14,15].

Microbe flora settled in intestine have an active part in the maintenance of local and systemic immunity. It interacts with the cells of lymphoid tissue (physiological structure, performing protective function); and researches consider this interaction to be the basis for the relevance of allergy and intestine. When

flora is normal and mostly includes "regular" types of micro organisms (bifidobacteria and lactobacilli) immunity responds only to certain antigens, for example infectious agents, while the mechanism of tolerance or immunity to allergens coming with food operates accurately and in harmony [5,6,12,13]. At the same time, allergy as a pathologically keen sensitivity to food antigens, wool, animals' saliva, cosmetics, household dust and other media can be linked with alteration in the balance of useful and relatively pathogenic flora or dysbacteriosis.

The last group always lives in intestine, but if "regular" microbes dominate, it is not dangerous. However, in certain circumstances there can be sudden rise in the number of colonies of unfavorable micro organisms with no possibility to suppress their growth, and it can affect the process of digestion and immune protection. Intestinal allergy has acute or chronic progression, it can cause exhaustion of body and development of anemia (decrease in erythrocyte number and blood hemoglobin) [9,10,11]. Some patients have constipation or congestion of fecal mass in intestine. Due to absence of timely excretion of ballast substances there is intoxication, i.e. absorption of decay products to blood and poisoning of the organism. That intensifies indigestion, dysbacteriosis, and results in individual intolerance forming vicious circle [7,8,14].

The objective: to study peculiarities in intestinal micro flora in children with allergic rhinitis (AR).

Data and research methods. Forty children, diagnosed with AR at the moment of the first application, were enrolled in the study. Among them 51.7% of the patients had combined allergic lesion of nose and gastrointestinal tract.

Twenty-one children applied with the initial manifestations of AR observed at the age of 3-6 years old (average age 5.09 years old) and nineteen children within the period from 6 to 9 years old (average age 7.8 years old). Maximal number of primary applications due to clinical symptoms of AR was registered among the children under 3 (38.6 %), less among the children of 3-6 years old (36.3 %), and the least from 6 to 9 years old (25.1 %). Comparison group included 20 children from 3 to 9 years old with no hereditary atopic pathologies (average age 7.9 years old).

Research methods included definition of qualitative and quantitative composition of intestinal micro flora in children, dynamic definition of the number of eosinophiles by means of immersion microscopy of stained smears in compliance with Romanovsky-Gimza's method and definition of total immunoglobulin E (IgE) using enzyme immunoassay according to the recommendations of the manufacturer. Morbidity rates with somatic and infectious origin were assessed with the help of interviewing parent and analysis of children's medical cards (history of physical development N 112). Statistical processing of the result was performed using STATISTICA for WINDOWS 6.1 software.

Results and discussion. All the children with AR had hereditary predisposition to allergy, most often inherited from mothers (67.6%). Among the relatives of the children in both groups we registered high prevalence rates of intestinal pathologies (27.5%) and helminth-protozoa infections (8.9%). Allergic and somatic diseases in the majority of the mothers conditioned the high rates of morbidity within pregnancy. Mother of children with AR had chronic tonsillitis more often, than those from the comparison group (29.2 % versus 7.5 %, p=0.011), ands four of them (6.7 %) had exacerbation during pregnancy. Pregnancy with chronic pyelonephritis was registered in 18 women out of 40 from the basic group (45 %) and 6 out of 20 in the comparison group (30.0 %), exacerbation was registered only among the women of the basic group (n=12, p=0.017). the women of the basic group statistically more often had ARVD (69.7 % versus 22% in comparison group, p=0.001). Every second woman in the basic group was diagnosed with giardiasis (30 % versus 10 % in comparison group, p=0.005), which was not treated during the pregnancy. Women from the basic group significantly more often had a risk of miscarriage (40 % versus 15 %, p=0.001) and statistically significant number of diagnoses of CMV (25 % in the basic group versus 10 % in the comparison group, p = 0.001). Isolation of Candida albicans in cervix observed only in 10 women from the basic group (p = 0.001) was due to administration of antibacterial agents for the therapy of chronic diseases. Fifty percent of the women from the basic group had preterm birth and 30% had abdominal delivery. In the comparison group these values were equal to 40.0% and 25%, respectively.

Health status of all children at birth was considered to be satisfactory. We revealed no statistically significant differences in mean anthropometric parameters. The work with the mothers of the children with AR started from the maximal preservation of lactation. The leading line in the interaction with the parents was teaching the bases of rational nutrition taking into account atopy. Symptoms of allergic rhinitis in 78.3% of the children under 5 were observed during the whole year.

Within initial three years 45% of the children had exacerbations of nasal syndrome with running nose due to violation of diet or administration of pharmaceutical agents for the treatment of ARVD. During the next two years exacerbations were registered in 25.0% of the children with stuffy nose due to violation of diet. Exacerbations were stopped by means of prescription of histamine receptor H₁ blockers and topical application of glucocorticosteroids for not more than 7 days. Further follow up in catamnesis till 6 years old did not reveal any exacerbations of AR.

Primary complaints of mothers together with running or stuffy nose were intestinal dysfunctions manifested in colic, pathological inclusions such as green, blood, foam or constipation for several days. Bacterial tests of feces showed no statistically significant differences in the isolation of relatively pathogenic micro flora (RPF) in children of the basic and comparison groups, though

Staphylococcus aureus and Klebsiella pneumonieae titers were higher in the basic group (10⁶-10¹²), while in the comparison group these did not exceed 10⁴. Clinical manifestations of debut and therapy of the allergic process dependent on the type of RPF had significant differences. Presence of Staphylococcus aureus in the first month of life was displayed by intestinal dysfunction accompanied by intestinal colic, mucous and green feces. Presence of Klebsiella pneumonieae conditioned manifestations of various stages of hem colitis (from single blood streaks to excessive amount).

Total immunoglobulin E was tested at the primary application and by the end of the second year of follow-up. First test of IgE showed average 465.50 ± 121.71 IU, while the next showed 99.14 ± 23.6 IU (p=0.001), which testifies decrease in the allergic process intensity (p = 0.001). Number of eosinophiles in the children of the basic group reached 4.9 ± 0.21 %, and in the comparison group $1.4\pm0.2\%$ (p=0.001). Statistically significant prevalence of eosinophiles in children of the basic group was preserved until 6 months. Later there was no notable difference, while the level of eosinophiles was higher in the comparison group due to greater prevalence of worm infestation.

In our study children with AR were randomized to two groups. In the basic group children received basic therapy for the main disease with addition of probiotic BIFOLAK ACTIVE (BIOTACT DEUTSCHLAND), while in the control group children received only basic therapy. That agent was chosen as it is the only probiotic effecting all parts of gastrointestinal system, including large intestine. Useful properties of BIFOLAK ACTIVE are conditioned by alive sublimated probiotic bacteria possessing antagonist activity against a wide range of pathogenic and relatively pathogenic micro organisms. Great quantity of bifidobacteria and lactobacilli promotes fast recovery of physiological balance of intestinal micro flora and activate protective mechanisms in body improving activity of gastrointestinal tract, exchange processes and parietal digestion. BIFOLAK ACTIVE diminishes the risk of allergens manifestation due to good digestion of the consumed food; bacteria synthesize proteolytic enzymes splitting protein (and other toxins and allergens) and decrease development of allergy. Probiotic bacteria synthesize proteolytic enzymes, which split proteins (and allergens). Probiotic bacteria also stimulate production of protease enzymes, which intensify splitting of proteins (and allergens) in cells of intestine. Micro crystal cellulose (MCC) adsorbs toxins, allergens and other slags in intestine and cleans the body. In all cases it is recommended to consult a doctor. Early diagnosis of intestinal allergy in AR the most important direction in the work of practicing doctor is to eliminate significant causing allergens from the diet and to chose therapy [11,12,13].

vomiting, heartburn, diarrhea, flatulence disappeared with complete absence of any changes in constipation. However, at the next hospitalization in fact many symptoms (stomachache, discomfort in abdomen, vomiting) were observed again, while the prevalence of heartburn even increased. There were few children with nausea, flatulence and rumbling in stomach. The obtained data testify that, though the therapy of the basic disease has a positive effect on GIT, in long-term follow-up disorders in digestive system are preserved and require specialized testing and therapy.

Treatment in clinic led to a significant improvement of coprogram parameters and results of ultrasound imaging of digestive organs. Inclusion of BIFOLAK ACTIVE probiotic into the therapy mostly effects intestinal micro flora recovering its misbalance in patients with AR.

Conclusion.

- 1. Thus, recently intestinal micro biota is considered to be a leading etiological factor in the development of allergic immune pathological states, including AR in children. Data indicate the necessity of further study of both the whole microbe community and its separate representatives.
- 2. The basic marker controlling allergic process in children with hereditary predisposition within initial months of life is the level of eosinophiles and total IgE.
- 3. Inclusion of BIFOLAK ACTIVE probiotic into the therapy mostly effects intestinal micro flora recovering its misbalance in patients with AR.

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РЕЗЮМЕ БОЛАЛАРДА АЛЛЕРГИК РИНИТДА ИЧКИ АЪЗОЛАРДАГИ ЎЗГАРИШЛАР

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Калит сўзлар: аллергик ринит, болалар, Ід Е, ошқозон-ичак дисфункцияси, пробиотик, терапия.

Ушбу мақолада аллергик ринит (AP) билан оғриган болаларда ичак микрофлорасининг хусусиятларини ўрганиш натижалари ёритилган. Мақсадга эришиш учун биринчи ташриф пайтида AP ташхиси қўйилган 40 нафар бола танлаб олинган. Улардан 51,7% беморларда комбинацияланган аллергик ринит ва ошқозон-ичак трактининг микрофлора ҳолати қайд этилган. Олинган маълумотлар шуни кўрсатадики, асосий касалликни

даволаш ошқозон-ичак тракти ҳолатига ижобий таъсир кўрсатсада, аммо узоқ муддатда овқат ҳазм қилиш органларининг бузилиши сақланиб қолади ва махсус текширув ва даволанишни талаб қилади. Касалхонада даволаниш копрограмма параметрларини ва овқат ҳазм қилиш органларининг ультратовуш текшируви натижаларини сезиларли даражада яхшилашга олиб келган. Пробиотикни даволашга киритиш ичак микрофлорасига кўпроқ таъсир қилади, АР билан оғриган беморларда унинг мувозанатини тиклайди.

РЕЗЮМЕ

ИЗМЕНЕНИЯ ВНУТРЕННИХ ОРГАНОВ ПРИ АЛЛЕРГИЧЕСКОМ РИНИТЕ У ДЕТЕЙ

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Ключевые слова: аллергический ринит, дети, Ig E, желудочнокишечная дисфункция, пробиотик, терапия.

В данной статье описаны результаты изучения особенностей кишечной микрофлоры у детей с аллергическим ринитом. Для достижения цели были отобраны 40 детей с диагнозом АР при первом посещении. Из них у 51,7% больных наблюдалось сочетанный аллергический ринит и изменения микрофлоры желудочно-кишечного тракта. Полученные данные показывают, что лечение основного заболевания положительно влияет на состояние желудочно-кишечного тракта, однако в отдаленном периоде расстройство органов пищеварения сохраняется и требует специального обследования и лечения. Лечение в стационаре привело к значительному улучшению показателей копрограммы и результатов УЗИ органов пищеварения. Введение в лечение пробиотиков оказывает большее влияние на микрофлору кишечника, восстанавливая ее баланс у больных АР.

UDK: 577.1:581.1/2:581.4/5 (575.1)

AYRIM DORIVOR O'SIMLIKLAR BARGLARIDA UMUMIY POLIFENOLLAR MIQDORINI ANIQLASH

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Kalit so'zlar, Tanacetum vulgare Artemisia annua, antioksidant, metabolit, polifenol.

Annotatsiya. Maqolada madaniylashtirilgan va yovvoyi Tanacetum vulgare va Artemisia annua o'simliklarida polifenollar miqdoridagi farqlarni aniqlashga qaratilgan tajribalar natijalari bayon etilgan.