

18 up to 24 years (where 20,4 years have been the average age), having accepted into the pulmonological department therapeutics clinic of the Saratov Military Medical Institute.

The sick people have been accepted with the «community – acquired pneumonia» preliminary diagnosis from the pre – admission stage, sometimes it has been very difficult for the duty doctor to make the necessary differentiation and to diversify the AVRД from the pneumonia against the AVRД background. The main reasons for the hospitalization into the pulmonological department, but not into the infectious one have been served the following criteria: the discomfort or the pains presence in the chest at the breathing, the physical data asymmetry at the chest examination, and the instrumental – laboratory characteristics.

### Results and discussion

The sick people have been entering on the 2-nd – 7-th day just from the invasion disease. The non – difficult pneumonia clinical course has already been fixed it up at the 73% patients. The 12% sick people with the difficult clinical course have been lying in the resuscitation and in the intensive therapeutics department from 24 hours up to 480 hours (e.g. from 1 day up to 20 days). The double – sided inflammatory process has been at the 14% sick people.

The bacterial and the virus pneumonias clinical course analysis has been revealed the following regulations: the sick people high per cent with the hectic fever and the febrile fever (e.g. 68%), the fever large prolongation, in spite of the intensive the therapeutics. The 2 – 3 temperature rise waves have already been registered at the 1/3 sick people, and on the average, the days quantity with the temperature rise have been in 2,3 times more, than at the usual pneumonias. So, it has been succeeded in to be fixed it up the disease viral phase by the instrumental – laboratory changes at the 42 patients, having entered within the early time limits from the disease invasion. Thus, the leukocytosis has been made up in the range from  $4 \times 10^9$  up to  $10 \times 10^9$ ; the relating to the stab shift has been absent, the (ESR) has not been exceeded 15–20 mm/hour. The lung pattern strengthening has been registered at the digital photofluorogram. Then, the expressed inflammatory changes have been appeared in the complete blood count (CBC), the considerable fibrinogen rise, having had its maximum up to 7,7 g./l. at the bacterial stage growth. The fine and the clear infiltration has been begun to be exposed by the X – ray method. The acute respiratory compromise has been fixed it up at the 8,4% sick people, the further complications in the form of the toxic – infectious nephropathy – at the 27% ones; the myocarditis – at the both patients; the toxic hepatopathy – at the both patients.

The antibacterial therapeutics has been carried out since the first presence day in the hospital. The penicillinic series antibiotics, the III – rd and even the IV – th generations cephalosporins, the erythromycin

group antibiotics, the fluoroquinolones have already been used. The 8% sick people have been received the both antibiotics, at the same moment. The antibiotic change has been carried out – at the 6% sick people.

Thus, the early pneumonias development has been the main peculiarity and the specific feature of the spring epidemic attack of the respiratory viral infections in this year. These kinds of pneumonias have been arisen at the sick people part on the 2 - nd – 3 - rd disease day against the AVRД (e.g. influenza) clinic background. So, it is very difficult to be diagnosed the initial pneumonia under all these conditions. The duration and the fever clinical course variable surge rate have been conditioned by the disease viral constituent presence. The antibacterial therapeutics has been exceeded the common standards on the terms at the patients half.

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### ASPECTS OF THE PRESERVATION OF HEALTH PROBLEMS IN CHILDREN AT SCHOOL

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The end result of policy of any state is the health of the younger generation, which is an indicator of sustainable development of the state, its economic reliability and national security. In this regard, the most important social task of the state is to create conditions for the full development of children and adolescents with the use of modern innovative educational technologies. For the modern school has all the features of the intensification of educational process, makes high demands not only of their students, but also to the systems, providing the intellectual growth of children. All this together could negatively affect the health of children and the process of creative self-realization. In the absence of the school element of competition associated with the focus on high performance, children can not cope with the program, easily develop an inferiority complex that has negative consequences for subsequent personal growth of schoolchildren. These processes increase the risk of psychosomatic disorders in schoolchildren. Particularly dangerous consequences for the growing body of children in terms of development of psychosomatic deviations in health are due to periods of training related to the change of mode of training activities and level of intensity of training programs. The data in crisis periods of training is first class, stage of transition to a meaningful education and preparation for a single state exam in high school. It is in these critical times a tendency of children to get away from real-world prob-

lems in the world of illusory prosperity caused by the influence of alcohol, drugs and toxic substances.

In modern conditions, in situations where a child does not meet the high requirements of the educational program and has a deviation in the psychosomatic health of its transfer to classes for teaching children with mental retardation or in the classroom teacher support, curriculum that is designed for children with deviations in intellectual development. The situation with regard to the full intellectual development of children, but in a state of mental fatigue is the most negative consequences for the process of fully achieving their potential, which may not be complete if less intellectual relevance of training programs in these categories classrooms.

On the other hand, children and teens - this is the unique sensitive period during which most easily and naturally is trained in self-monitoring and self-regulation, the strategy of constructive behavior, leading subsequently to an effective self-realization, the most complete manifestation of the intellectual and creative potential of the individual. Thus, one of the most pressing practical problems of the modern school is to create a healthy educational environment for students through the introduction of scientific and practical technologies that address adaptation abilities of children in different age periods and include activities to effectively reduce the manifestations of intellectual voltage.

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#### **THE PLACENTA LYMPHATIC BED NON-DEVELOPMENT**

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The lymphatic bed (LB) is being formed by means of the embryonic veins collaterals blocking from the blood flow: the arteries with the tunica externa are being intussuscepted into the extraorganic veins together with their endothelial walls, having separated the veins' peripheral part into the lateral pockets. The veins widening in the intensively growing organs surrounding is being resulted in the veins central canals communications contraction and the interruption with their lateral pockets, in the separation from the lymphatic fissures veins with the endothelial lining. The fissures are being conjugated into the lymphatic sacci and the trunks. The two umbilical arteries without the multiple branches are being belonged to the umbilical vein with their endothelial walls. The embryo's thick umbilical cord is slowly being grown in the length, and it is not being spiralized at all. The elastic Whar-

ton's jelly is being increased its resistance to the external pressure. The fetuses' umbilical cord is being spiralized, but the umbilical vein walls are already being included, as the tunica externa, well as the tunica media. The placenta vascular bed without LB is presented itself the particular case of the cardiovascular system development, which, in its turn, is confirmed the vessels adequacy to the serviced organs structure and the corresponding functions. Having taken into consideration the LB laying mechanics, its morphogenesis would be able to be caused the blood supply disturbance and also the embryo death in the umbilical cord, and in the placenta. The placenta embryo drainage is being organized through the intervilliferous lacunas into the uterine vessels. So, they are usually being appeared, as a result of the endometrium vessels strong deformation and the following destruction in the process of the embryo implantation.

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#### **ABOUT PREVALENCE OF ALLERGIC DISEASES IN VOLGOGRAD FIRST-YEAR STUDENTS**

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Many factors such as ecologic and genetic ones, chronic diseases, smoking etc. can influence development of allergic diseases.

The aim of our study was to determine the prevalence of allergic diseases in first-year students of four Volgograd institutions of higher education in dependence of their residence before the matriculation.

1200 students have been asked using questionnaire. There were 624/1200 (52%) residents of Volgograd (group I) and 576/1200 (48%) residents of Volgograd region (group II) among them. 37% students from group I visited allergist and allergic diseases were diagnosed in 24% of them while there were 23% and 12% in the group II, respectively. The prevalence of allergic rhinitis was 62% and 72% in group I and II, respectively. At the same time there were some differences between groups in clinical duration of the disease. So city residents mostly often have symptoms in summer (during grass pollination) but region residents mostly often have them in spring (the period of trees pollination). The second place belongs to bronchial asthma in both cases (15% and 14%, respectively). Urticaria was diagnosed in 14% students from group I while nobody from the second group gave positive answer to this question.