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ANTIBIOTIC THERAPY FOR COMMUNITY-ACQUIRED PNEUMONIA IN CHILDREN

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Relevance. In the structure of complications of community-acquired pneumonia, the leading place is occupied by damage to the heart muscle of various origins, and therefore the etiological approach to treating the disease is important.

The aim of this study was to study the effect of antibiotic therapy depending on the etiological aspects of community-acquired pneumonia in children.

Material and research methods. The results of clinical and bacteriological examination of 52 children under the age of 5 years with community-acquired pneumonia, hospitalized in the departments of emergency pediatrics and children's resuscitation of the SF RRCEM, were studied. The sputum was examined by the conventional method by culture before the start of antibiotic therapy.

Research results. Boys with community-acquired pneumonia were 30-55.6%, girls - 24-44.4%. Complicated pneumonia was more often diagnosed in young children. 34-62.9% of mothers of patients noted that the disease was preceded by ARVI. Concomitant anemia was present in 51-94.4% of patients, atopic dermatitis - in 25-46.3% of children, CNS pathology - in 16-29.6% of cases. Patients were admitted in moderate 47-87.1% and severe 7-12.9% condition. Cardiorespiratory syndrome, which determines the severity of the condition, occurred in 21-38.9% of children aged 3-5 years of life, toxic syndrome was diagnosed in 33-61.1% of young patients. Tachypnea was noted in 21-38.9%, tachycardia - in 24-44.4% of cases. Pneumonia was confirmed radiographically in all patients, of which in 16-22.2% of cases in children aged 3-5 years, pneumonia with cardiomegaly was determined. Sputum culture of patients showed the presence of violations of the biocenosis of the upper respiratory tract in 46-85.1% of children. *Eshherchia coli*, *Klebsiella pneumoniae*, *S.aureus*, *Enterococcus* spp. and others, indicating dysbiosis of the upper respiratory tract. More often than others (28-51.8%), enterococci were sown. Gram-negative flora was isolated in children, predominantly of early age. In the sputum of patients, a significant number of bacterial associations were found in amounts below the diagnostic threshold - up to 103-104 CFU/ml. In 14-25.5% of patients, there were associations of enterococcus with *S.pneumoniae*. In 21-38.9% of cases, the most significant pneumotropic flora - *Streptococcus pneumoniae*, highly sensitive to cephalosporins, and in 8-14.8% of patients - to ampicillin was detected. *Staphylococcus aureus* was isolated in 9-16.7% of cases. Starting etiotropic therapy was prescribed depending on age, clinical and radiological data, previous antibiotic therapy, background condition. Cefotaxime was the starting antibiotic in 33-61.1% of patients, ceftriaxone was used by 17-31.5% of children as an alternative antibiotic. Ampicillin was prescribed less frequently - in 15-27.8% of cases in children of the first year of life. Combined antibiotic therapy was carried out in 5-9.3% of seriously ill children. Aminoglycosides (amikacin, gentamicin) were in second place in terms of frequency of use. The drugs were prescribed parenterally, in age dosages, followed by continuation according to indications on an outpatient basis. Sick children received a course of antibiotic therapy for an average of 12.1 ± 1.4 days. In the course of follow-up, clinical recovery and radiographic resolution of focal changes in the lungs were achieved in all cases.