Abstracts

viruses no significant differences in HRV versus controls were observed. These data indicate RSV related reduced sympathetic activity.

Conclusion RSV infection in infants is associated with autonomic dysfunction of central origin. This may be correlated with an increased risk for serious apnea or ALTE, for which prolonged cardio respiratory monitoring is indicated.

Aim and methods: To assess the frequency of ARI in preschool children population, identification of risk factors and main principles of treatment. The cross sectional study was conducted using the special questionnaires for parents of 3–6 years children and in all regions of Georgia. At all 1448 parents and caregivers were interviewed.

Results 2.3% of children have 7–8 episodes of ARI per year, 19.9%, have 3–5, 55.4% 1–2 episodes per year and in 24.2% ARI are very rare. The incidence of ARI is higher in urban population, then in rural area and in mountain regions (p<0.001). The main symptoms for admission to health care facilities were cough (82, 8%) and fever (75, 9%). Study revealed the risk factors for ARI: male sex, living in urban area, attendance of day care centers, exposure to passive smoking, big number of family members significantly increase risk of ARI. There was no correlation between the type of feeding in infancy and frequency of ARI infection in 3–6 years old children. In 47% of ARI cases antibiotics were used from those in 32# parents started antibiotics by self.

Conclusion Male sexes, urban regions, attendance of day care center, passive smoking are the significant risk factors for development of ARI in children aged 3–6 years. Primary health care providers still prescribe unnecessary and excessive antibiotics. The incidence of ARI may be reduced substantially through public health measures.

The Aim of this study was to investigate antimicrobial resistance of S. flexneri strains isolated from clinically diagnosed cases of gastroenteritis and acute diarrhea in Tehran, Iran.

Methods Shigella strains were isolated from stool samples of children patients who visited the several major hospitals in Tehran. S. flexneri was preliminarily identified by biochemical tests as well as by API20E. Antimicrobial resistance testing was performed according to the standard guidelines of the Clinical and Laboratory Standards Institute.

Results All strains were resistant to streptomycin. More than 97% of the strains were resistant to tetracycline, 89% to co-trimoxazole, 80% to amoxicillin, 33.5% to ampicillin, 14% to chloramphenicol, 8% to kanamycin, 5% to nalidixic acid, 1.5% to cefixime and 0.5% to amikacin and furazolidone. None of the tested isolate was resistant to ceftriaxone, cefotaxime, cefazidime, gentamicin, ciprofloxacin, cephalothin, cefotaxime, cephalaxine and nitrofurantoin.


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Aim To study the level of intestinal sIgA in children with rotavirus infection (RVI) depending on disease severity.

Methods Between November 2009 and February 2011, stool specimens from 85 children less than 4 years of age suffering from RVI were tested for intestinal sIgA by ELISA. 75.6% of patients were with moderate severity of disease and 23.5% - with severe course. 66 healthy children were studied as controls.

Results Intestinal sIgA in patients on the 1st–2nd day of RVI was 22.6±1.05mg/l and significantly different (p<0.01) from the level of healthy children 31.8±1.35mg/l. The following dependence from disease severity was detected: intestinal sIgA in severe case -16.7±1.6mg/l which was significantly less (p<0.001) than in patients with moderate severity 24.6±1.21mg/l. Intestinal sIgA increased up to 32.7±1.55mg/l in patients with moderate severity on the 5th–6th day of disease and to 22.9±1.83mg/l in patients with severe case which were significantly different (p<0.05).

Conclusions The level of intestinal sIgA on the 1st–2nd day of disease was less than the level of healthy children. Severe course of disease is usually present in case of low concentration of sIgA. The level of sIgA in patients with moderate severity of RVI increases up to the level of healthy children on the 5th–6th day of disease and it is significantly higher than the level of sIgA in patients with severe...