

Abstract

Objective: The work investigated occurrence of *Mycoplasma pneumoniae* infections in east – Czech region in years 2005 – 2007.

Patients: The sera obtained from 6965 patients in all ages that were cure in hospital in Hradec Kralove. The patients' sera examined by serological method which is called ELISA.

Results: In years 2005 – 2007 9,3 % (648/6965) patients fell ill of a *Mycoplasma pneumoniae* infection. The most occurrence of infection was in year 2006 (11 %). We didn't observe epidemic. Children 5 – 14 years old (46,1 %) and adolescents to 25 years old (31,9 %) were most frequent patients. We observed complications in 13,9 % cases, the most frequent were neurological complications (meningitis and neuropathy) and gastro – intestinal complications (diarrhoea, nausea and hepatitis).

Conclusion: *Mycoplasma pneumoniae* cause 9,3 % of infections. Complications were observed in 13,9 % cases of infection. Macrolide antibiotics are used in treatment of *Mycoplasma pneumoniae* infection; tetracycline and fluoroquinolone antibiotics are alternative to cure.