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Prevalence of cryptosporidiosis in children from minority group in Slovakia

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In present, intestinal parasitic infections remain a serious public health problem globally concern in both developed and developing countries. One of them is *cryptosporidiosis*, a diarrheal disease caused by protozoan parasites of the genus *Cryptosporidium*. In human, two species – *Cryptosporidium hominis* and *Cryptosporidium parvum* are of major significance to public health. Infection is endemic in places with poor sanitation and crowded living conditions and is associated with source of water supply, age and socioeconomic status. In Slovakia, such places largely representing the Roma settlements and housing. Because *Cryptosporidiosis* is potentially life-threatening in immunocompromised persons and younger children between 1 and 5 years, which are more susceptible to infection than others, for the presence of *Cryptosporidium* antigen we examined a total of 81 asymptomatic children aged 0-14 years of Roma national minority coming from settlements of Eastern Slovakia. The faecal samples were analysed by ELISA method and by modified Kinyoun's acid-fast stain. The overall positive percentage was 44.4%. All faecal samples were parallel examined by the modified Kinyoun's acid-fast stain, which had a lower detection rate. The finding of large numbers of oocysts was observed mostly at absorbance between 0.575 OD to 2.066 OD.

Biography

Ingrid Babinska has completed her Graduation as a Medical Doctor in 1995 at the Medical Faculty, Pavol Jozef Safarik University, completed three years of study Master of Public Health (2005) and finished PhD study in Public Health (2014). Currently, she is working as a Assistant Professor in the Department of Epidemiology, Medical Faculty, Pavol Jozef Safarik University. She is a member of several research team. Her research is in the field of public health and epidemiology with a particular focus on socio-economically disadvantaged groups. She has published 36 scientific papers and abstracts.

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