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Prevalence *of Cryptosporidium, Cyclospora cayetanen belli* infection among diarrheal patients in South Ind

Kammili Nagamani[1)], Pavuluri Pandu Ranga Rao[3)], Gyaneshwari M Thandava Phani Krishna[4)], Anuradha Pattepu Rajalingam[1)] and Nir

1) Dept. of Microbiology, Gandhi Medical College
2) Presently working at Shadan Institute of Medical
3) Dept. of Biotechnology, College of Veterinary Sc
4) Internee Gandhi Hospital

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Abstract: The emerging protozoan parasites *Cryptosporidium, C and Isospora belli* have altered the etiological spectrum of diarrhea decline in CD4 cell count in AIDS patients and lack of active immun exposure to contaminated food and water in young children make t particularly susceptible to protracted and severe diarrhea caused by

Cryptosporidiosis is caused by human as well as several zoonotic s
study was undertaken to examine the prevalence of *Cryptosporidiu*
cayetanensis and *I .belli* among these two susceptible populations
immunocompetent individuals with diarrhea and to identify the *Cryp*
prevalent in these populations. A total of 447 children under the ag
seropositive adults and 200 HIV seronegative adults with diarrhea a
hospitals located in the twin cities of Secunderabad and Hyderabad
included in the study. Single fecal samples were collected. Wet mou
Neelsen stained smears made from concentrated fecal specimens w
microscopically for oocysts of *Cryptosporidium, Cyclospora caye*
belli. DNA extracted from fecal samples positive for *Cryptosporia*
PCR RFLP for species identification. *Cryptosporidium* was detect
groups, I.e. children (8.7%), HIV-seropositive adults (6.85%), and
adults (1%). *Isospora and Cyclospora* were detected only among
persons at a frequency of 16% and 1% respectively. *C. hominis* (7
(18.9%) were the only 2 species of *Cryptosporidium* detected.

Key words: *Cryptosporidium*, *Cyclospora*, *Isospora*, diarrhea,

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