Investigation of intestinal parasite infections in the pupils of Haikou City

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[ABSTRACT] Objective: To investigate the epidemic conditions of intestinal parasites on pupils in the suburb of Haikou City. Methods: One-off boxes were used to collect the fresh feces of the pupils. Normal saline smear, following saturated saline and iodine staining were used to make slides respectively and the slides with feces were detected for eggs and encyst under microscopy. Results: A total of 535 samples were involved in this study, 315 samples were detected to be positive (58.88%). The seven species of parasites were observed including Trichuris trichiura, Ascaris lumbricoides, Necator americanus, Entamoeba coli, Giardia lamblia, Blastocystis hominis and Entamoeba. Hartmani. The detecting rates of which were 47.48%, 23.55%, 0.56%, 1.50%, 1.50%, 0.75% and 0.37% respectively. The detecting rates of feces from male and female pupils were 59.59% and 58.02% respectively without statistical difference (P>0.05). The detecting rates were 51.28% and 69.51% in city and rural pupils with statistical difference (P<0.01), which were 75.00%, 60.94%, 71.74%, 54.76%, 63.22%, 44.90%, 44.83% in pupils from pre-elementary, Grade One, Grade two, Grade three, Grade four, Grade five, Grade six respectively with statistical difference (P<0.01). Conclusion: The infection rate of intestinal parasites is high in Haikou, the parasites are more seen in rural areas, and multi-parasitic infection is prevalent. It seems that the detected rates are decrease following the age increase.

[KEY WORDS] Intestine; parasites; Infection; Pupils; Haikou City