

A survey on *Enterobius vermicularis* infection in appendices removed by surgery in Necoii hospital of Qom, Iran

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Abstract

Background and objectives: some parasites especially *Enterobius vermicularis* and helminthes are the Leading factor causing appendicitis. We did this study to determine the prevalence of infection with *Enterobius vermicularis* among excised appendices in Necoii hospital of Qom, Iran (2005-2006).

Material and Methods: In this Cross-sectional Retrospective study, we referred to pathology district archive of Necoii hospital of Qom to collect the demographic data of 3420 appendectomy patients including gender, age and infection to *Enterobius vermicularis*. These patients had been undertaken appendectomy from March 2005 to March 2006. After confirm of infection, all patients demographic data and histopathological results were analyzed by using Chi-square test in SPSS version 11.5 software.

Results: of 3420 appendices, 17 cases (0.5%) are infected with *Enterobius Vermicularis*. Thirteen of them (76.5%) are female and four (23.5%) male. Also 15 of infected appendices (88.2%) don't show any pathological changes and two cases (11.8%) have appendicitis. The highest infection rate is observed in 6-10 (41.1%) and 11-15 (35.3%) age groups.

Conclusion: The results show that *Enterobius vermicularis* does not play a role in causing appendicitis, and its presence in excised appendix can not be a good reason for being the cause of appendicitis.

Key words: Appendicitis, *Enterobius vermicularis*, Appendix, Iran