Article 6 : The effects of Ascaris lumbroides parasites: Ascaris lumbricoides infection and risk of childhood asthma

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## Vocabulary

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| Ascaris lumbricoides | parasite infected people worldwide with great disparity between regions and countries. |
| Relationship | the association between Ascaris lumbricoides infection and childhood asthma |
| Asthma | is a non-communicable diseases worldwide, especially in lower income and less developed countries. |
| The incidence | number of people dying by Ascaris per year. |
| Risk factors | conditions of the less developed regions to exposure of infectious. |

## Analysis table

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| Researchers? | University of Medical Science, Tehran, Iran; Department of Epidemiology and Biostatistics, School of Public Health.(lead author, Ali Rostami ([a.rostami@mubabol.ac.ir;alirostami1984@gmail.com](mailto:a.rostami@mubabol.ac.ir;alirostami1984@gmail.com))). |
| Published in? | Springer-Verlag GmbH Germany, part of Springer Nature 2019 |
| General topic? | Exposure to Ascaris lumbricoides infection and risk of childhood asthma in north of Iran |
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| Procedure/what was examined? | the study included the asthmatic children and healthy children, 2–15 years.The Blood samples were centrifuged at 1000g for 5 min, the serum collected and then transported on ice to the laboratory where they were stored at − 20°C until use. All sera were screened for anti-A. lumbricoides IgG antibodies.Sera who considered negative, suspect , and positive, for antibodies to A. lumbricoides. |
| Conclusions/discovery ? | According to the 2017 Global Burden of Disease Study, asthma was responsible for 495,100 deaths and approximately 23 million disability-adjusted life-years annually.The results showed that A. lumbricoides infection could be a potential risk factor for the development of asthma in children.The chronic exposures to ascariasis attenuate the severity of asthma; This result is in contrast with that, the sensitization to Ascaris was significantly related to increased severity of asthma among children in Costa Rica.The pathogenic mechanisms associated with Ascaris lumbricoides infection and asthma are indefined, and require further investigation |
| Remaining questions? | could have a sensitivity of these parasitized children following an athmatic infection? could have children of previously infested with Ascaris and who have been hated athmatic? could we have the same results if the samples were stool |