

## عنوان مقاله:

Identification of Sarcocystis spp. in Hamburgers Distributed in Fouman City, North of Iran Using Dab Smear and **Digestion Methods** 

## محل انتشار:

فصلنامه بهداشت محيط و توسعه يايدار, دوره 8, شماره 4 (سال: 1402)

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### خلاصه مقاله:

Introduction: Human infection with Sarcocystis species can be attributed to the consumption of raw or inadequately cooked meat, such as hamburgers, containing encapsulated parasites. Materials and Methods: This cross-sectional study was conducted between April and September YoY in Fouman, Iran. A total of IAY hamburger samples, comprising two types of traditional hamburgers and industrial hamburgers, were collected. Result: Out of IAY hamburger samples of different types, "F% of them were found to be infected with Sarcocystis spp. The infection rate within industrial and traditional hamburgers was Y1.6% and 65%, respectively. Notably, a statistically significant difference was observed between Sarcocystis-infested traditional and industrial hamburgers ( $p < ... \Delta$ ). Among the two distinct groups of IAY hamburgers, the microscopic digestion method revealed the presence of Sarcocystis bradyzoites in all ۵1 infected traditional beef burgers and 19 positive industrial beef burgers. However, in the dab smear method, just "" and IY positive samples were respectively identified in traditional and industrial beef burgers and a statistically significant difference was observed between efficiency of these two methods (p < 0.06). Infection with macroscopic parasite cysts was not observed in any of hamburger samples. Similarly, no statistically significant association was identified between the meat content percentage and the infection rate in industrial hamburgers (p > 0.0). Conclusion: Considering the high abundance of Sarcocysts micro cysts in frozen raw hamburgers, it is recommended to fully cook .this food product and avoid consumption when only partially cooked

**کلمات کلیدی:** Sarcocystis, Digestion, Hamburger, Fouman City, Iran.

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