

## **Publication**

Acute muscular sarcocystosis: an international investigation among ill travelers returning from tioman island, malaysia, 2011-2012

## JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)

**ID** 2740869

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Year 2014

**Title** Acute muscular sarcocystosis : an international investigation among ill travelers returning from tioman island, malaysia, 2011-2012

**Journal** Clinical infectious diseases : an official publication of the Infectious Diseases Society of America

Volume 59

Number 10

Pages / Article-Number 1401-10

Keywords infectious disease outbreak, sarcocystosis, parasitic disease, Malaysia, travel

Through 2 international traveler-focused surveillance networks (GeoSentinel and TropNet), we identified and investigated a large outbreak of acute muscular sarcocystosis (AMS), a rarely reported zoonosis caused by a protozoan parasite of the genus Sarcocystis, associated with travel to Tioman Island, Malaysia, during 2011-2012.; Clinicians reporting patients with suspected AMS to GeoSentinel submitted demographic, clinical, itinerary, and exposure data. We defined a probable case as travel to Tioman Island after 1 March 2011, eosinophilia (<5%), clinical or laboratory-supported myositis, and negative trichinellosis serology. Case confirmation required histologic observation of sarcocysts or isolation of Sarcocystis species DNA from muscle biopsy.; Sixty-eight patients met the case definition (62 probable and 6 confirmed). All but 2 resided in Europe; all were tourists and traveled mostly during the summer months. The most frequent symptoms reported were myalgia (100%), fatigue (91%), fever (82%), headache (59%), and arthralgia (29%); onset clustered during 2 distinct periods: "early" during the second and "late" during the sixth week after departure from the island. Blood eosinophilia and elevated serum creatinine phosphokinase (CPK) levels were observed beginning during the fifth week after departure. Sarcocystis nesbitti DNA was recovered from 1 muscle biopsy.; Clinicians evaluating travelers returning ill from Malaysia with myalgia, with or without fever, should consider AMS, noting the apparent biphasic aspect of the disease, the later onset of elevated CPK and eosinophilia, and the possibility for relapses. The exact source of infection among travelers to Tioman Island remains unclear but needs to be determined to prevent future illnesses.

**Publisher** Oxford University Press

ISSN/ISBN 1058-4838

edoc-URL http://edoc.unibas.ch/dok/A6319239

Full Text on edoc No;

Digital Object Identifier DOI 10.1093/cid/ciu622

PubMed ID http://www.ncbi.nlm.nih.gov/pubmed/25091309

ISI-Number WOS:000344646700009 Document type (ISI) Journal Article