leaflet associated with the vegetation was destroyed. The vegetation culture, pericardial fluid culture, tissue culture from the resected mitral valve, and 3 blood cultures yielded no bacterial growth.

The patient required ventilator support for 7 days. Follow-up computed tomography on day 8 showed a stable appearance of cerebral infarcts. Coumadin was started to prevent thrombus development at the prosthetic valve. He went home after completing a 4-week treatment course of ceftriaxone. At that time, there was still noticeable left-sided weakness of the extremities. He could only communicate by using eye movements with no verbal response.

During the 20th century influenza pandemics, secondary bacterial pneumonia was a notable cause of death. The current pandemic (H1N1) 2009 outbreak is evolving rapidly, and it is unknown if pandemic (H1N1) 2009 may lead to an increase in rare complications of pneumococcal infection, such as endocarditis. Thus, Austrian syndrome should be considered in any patient with pandemic (H1N1) 2009 complicated by pneumococcal infection and a new heart murmur.

Waseem Alhushki and Chokechai Rongkavilit

Author affiliation: Wayne State University, Detroit, Michigan, USA

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References

- Austrian R. Pneumococcal endocarditis, meningitis, and rupture of the aortic valve. AMA Arch Intern Med. 1957;99:539–44.
- Rammeloo L, Hruda J, Sobotka-Plojhar M, Avis W, Schoof P. Austrian syndrome in a child—aortic valve endocarditis following pneumococcal meningitis. Int J Cardiol. 2004;94:321–2. DOI: 10.1016/j. ijcard.2003.03.025
- Aronin SI, Mukherjee SK, West JC, Cooney EL. Review of pneumococcal endocarditis in adults in the penicillin era. Clin Infect Dis. 1998;26:165–71. DOI: 10.1086/516279

 Lefort A, Mainardi JL, Selton-Suty C, Casassus P, Guillevin L, Lortholary O. *Streptococcus pneumoniae* endocarditis in adults. A multicenter study in France in the era of penicillin resistance (1991– 1998). The Pneumococcal Endocarditis Study Group. Medicine (Baltimore). 2000;79:327–37.DOI:10.1097/00005792-200009000-00006

Address for correspondence: Waseem Alhushki, Children's Hospital of Michigan, 3901 Beaubien Blvd, Detroit, MI 48201 USA; email: walhushk@dmc.org

Rickettsia sibirica mongolitimonae in Traveler from Egypt

To the Editor: Tick-borne rickettsioses are zoonoses caused by spotted fever group (SFG) Rickettsia spp. (1), which have been reported as a frequent cause of fever in international travelers (2). In Egypt, Mediterranean spotted fever caused by Rickettsia conorii transmitted by the brown dog tick, Rhipicephalus sanguineus, is known to be present, although cases are rarely documented. Moreover, an emerging pathogen, R. aeschlimannii, has been detected in Hyalomma dromedarii ticks, collected from camels, and in H. impeltatum and H. marginatum rufipes, collected from cows (3). We report a case of Rickettsia sibirica mongolitimonae infection in a French traveler who returned from Egypt

In September 2009, a previously healthy 52-year-old man living in France was admitted to the infectious diseases unit of a hospital in Nantes, France, with a 10-day history of fever, asthenia, headache, and arthromyalgia. Three days earlier, he had returned from a 2-week trip to Egypt. He had fever (38°C), painful axillary lymphadenopathies, and an inoculation eschar surrounded by an inflammatory halo on the left scapular area (online Appendix Figure, www.cdc.gov/EID/ content/16/9/1495-appF.htm), but he did not have a rash. During his travel, he had been unsuccessfully treated for headache, arthromyalgia, and diarrhea by amoxicillin-clavulanate (3 g/d), nonsteroidal antiinflammatory drugs, and gentamicin cream on the eschar for 3 d. No tick bite was reported by the patient. We suspected an SFG rickettsiosis. The patient received 200 mg doxycycline in a single dose and rapidly improved.

The immunofluorescence assay for antibodies reactive against SFG antigens showed increased levels of immunoglobulin M (titer 16) and G (titer 128). Results of Western blot with cross-adsorption assays supported the hypothesis that the infection was caused by R. sibirica mongolitimonae (1). To identify the involved rickettsiae, PCR amplifications and sequencing gltA, ompA, and ompB fragment genes of Rickettsia spp. and multispacer typing (MST), based on the sequence of variable intergenic spacers, were performed by using DNA samples obtained from an eschar biopsy and a lesion swab (4,5). A negative control (sterile water and DNA from a sterile biopsy specimen) and a positive control (DNA from R. montanensis) were included in each test. Amplicon sequencing confirmed the presence of R. sibirica mongolitimonae DNA in patient samples. The sequence homology to R. sibirica mongolitimonae DNA was ompA, 99.4%; gltA, 99.7%; and ompB, 100% (GenBank accession nos. DQ097082, DQ097081, and AF123715, respectively). The MST sequences were 100% homologous to the genotype of R. sibirica mongolitimonae MST type U (idem HA-91). We injected shell vial cultures with eschar biopsy specimens (4). Fifteen days later, positive Gimenez staining and immunofluorescence confirmed

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the presence of *Rickettsia* sp. in cell culture, and *R. sibirica mongolitimonae* was identified by PCR and sequencing as described above (online Appendix Figure).

R. sibirica mongolitimonae was first isolated in Beijing in 1991 from H. asiaticum ticks (formerly named R. sibirica HA-91), and the first human infection was reported in 1996 (4). Since that time, R. sibirica mongolitimonae infections have been diagnosed in 15 additional patients: 12 from Europe (France, Portugal, Greece, and Spain) and 3 from Africa (Algeria, South Africa, and the present patient who returned from Egypt). The application of genotypic criteria to R. sibirica mongolitimonae classified the organism as a subspecies of R. sibirica group, in spite of its distinct serotypes and specific epidemiologic features compared to R. sibirica sibirica, the causative agent of Siberian tick typhus or North Asian tick typhus (1).

R. mongolitimonae sibirica causes lymphangitis-associated rickettsiosis. The available clinical features for the only 16 reported cases (10 men, 6 women) include fever in all patients (range 38°C-39.5°C), chills (3/16 patients), headache (13/16), myalgia (13/16), arthralgia (3/16), cutaneous rash (11/16), enlarged lymph nodes (10/16), lymphangitis expanding from an inoculation eschar to the draining node (6/16), and retinal vasculitis in a pregnant woman (6,7). Two patients exhibited 2 eschars. Most eschars were on the legs, but some patients had an eschar on the back, the abdomen, the arm, or the face. The patients' median age was 50 years (range 20-76 years). A tick bite or tick handling was reported for 5 patients, but no tick was collected for further examination. In France, 7 patients probably came in contact with R. sibirica mongolitimonaeinfected ticks in their gardens, and 2 other patients were probably exposed during a walk in the Camargue National Park, where migratory birds are frequently present (7). Infection with R. sibirica mongolitimonae occurred primarily between March and September. A single case was reported in December in Greece. R. sibirica mongolitimonae has been detected in several Hyalomma spp. ticks in Niger, Greece, the People's Republic of China, Senegal, and in Rh. pusillus ticks in Portugal (6-8). Although Hyalomma spp. ticks seem to be associated with R. sibirica mongolitimonae, more experimental data are needed to determine the tick vectors and reservoirs of this rickettsia.

Clinicians in Egypt and those who may see patients returning from this country should be aware that several species of rickettsiae are found in this region. Thus, they should consider a range of SFG rickettsial diseases in the differential diagnosis of patients with febrile illnesses.

Cristina Socolovschi, Sébastien Barbarot, Maeva Lefebvre, Philippe Parola, and Didier Raoult

Author affiliations: Université de la Méditerranée, Marseille, France (C. Socolovschi, P. Parola, D. Raoult); and Centre Hospitalier Universitaire de Nantes, Nantes, France (S. Barbarot, M. Lefebvre)

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References

- Parola P, Paddock CD, Raoult D. Tick borne rickettsioses around the world: emerging diseases challenging old concepts. Clin Microbiol Rev. 2005;18:719–56. DOI: 10.1128/CMR.18.4.719-756.2005
- Wilson ME, Weld LH, Boggild A, Keystone JS, Kain KC, von Sonnenburg F, et al. Fever in returned travelers: results from the GeoSentinel Surveillance Network. Clin Infect Dis. 2007;44:1560–8. DOI: 10.1086/518173
- Loftis AD, Reeves WK, Szumlas DE, Abbassy MM, Helmy IM, Moriarity JR, et al. Rickettsial agents in Egyptian ticks collected from domestic animals. Exp Appl Acarol. 2006;40:67–81. DOI: 10.1007/ s10493-006-9025-2

- Fournier PE, Gouriet F, Brouqui P, Lucht F, Raoult D. Lymphangitis-associated rickettsiosis, a new rickettsiosis caused by *Rickettsia sibirica mongolotimonae*: Seven new cases and review of the literature. Clin Infect Dis. 2005;40:1435–44. DOI: 10.1086/429625
- Fournier PE, Raoult D. Identification of rickettsial isolates at the species level using multi-spacer typing. BMC Microbiol. 2007;7:72. DOI: 10.1186/1471-2180-7-72
- Caron J, Rolain JM, Mura F, Guillot B, Raoult D, Bessis D. *Rickettsia sibirica* subsp. *mongolitimonae* infection and retinal vasculitis. Emerg Infect Dis. 2008;14:683–4. DOI: 10.3201/ eid1404.070859
- Fournier PE, Tissot-Dupont H, Gallais H, Raoult D. *Rickettsia mongolotimonae*: a rare pathogen in France. Emerg Infect Dis. 2000;6:290–2. DOI: 10.3201/ eid0603.000309
- De Sousa R, Barata C, Vitorino L, Santos-Silva M, Carrapato C, Torgal J, et al. *Rickettsia sibirica* isolation from a patient and detection in ticks, Portugal. Emerg Infect Dis. 2006;12:1103–8.

Address for correspondence: Didier Raoult, Unité de Recherche en Maladies Infectieuses et Tropicales Emergentes, UMR CNRS-IRD 6236-198, Faculté de Médecine, 27 Bd Jean Moulin, 13385 Marseille CEDEX 5, France; email: didier.raoult@gmail.com

Increase in Neisseria meningitidis Serogroup W135, Niger, 2010

To the Editor: Meningococcal epidemics in the African meningitis belt are generally caused by *Neisseria meningitidis* serogroup A strains, but they also can be caused by serogroup W135 or X strains. The largest reported outbreak caused by serogroup W135 occurred in Burkina Faso in 2002 with \approx 13,000 suspected cases (1). Sporadic cases of meningitis caused by serogroup W135 have, however, been