

*R. helvetica* (5), *R. slovacica* (6), and *R. felis* (7). The serologic findings indicated antibodies at a higher level to *R. aeschlimannii* than to other tested species. *R. aeschlimannii* is phylogenetically distant from *R. conorii* but is closely related to *R. rhipicephali* and *R. montanensis*, which have never been described as human pathogens. This patient appeared to have a typical case of *R. conorii* infection, with seasonal and geographic characteristics favoring this diagnosis (3). This case was clinically and epidemiologically mistaken for *R. conorii* infection, suggesting that *R. aeschlimannii* may be another cause of Mediterranean spotted fever in Morocco.

The systematic identification of rickettsial species in human infections continues to increase the number of recognized human pathogens (3). This finding has demonstrated once again that more than one species or serotype of tick-transmitted rickettsia may be prevalent in the same area, as observed, for example, with *R. slovacica*, "*R. mongolotimonae*," and *R. conorii* in southern France (3); *R. africae* and *R. conorii* in sub-Saharan Africa (8); and *R. conorii* and Israeli spotted fever rickettsia in Sicily and Portugal (9). *Rickettsia* species first identified in ticks should be considered as potential human pathogens, as all recently described tick-transmitted rickettsiae pathogenic for humans were initially found in ticks and were considered nonpathogenic for several years (3).

Didier Raoult,\*  
Pierre-Edouard Fournier,\*  
Philippe Abboud,†  
and François Caron†

\*Unité des Rickettsies, Université de la Méditerranée, Marseille, France; and †Service de Maladies Infectieuses, Centre Hospitalier Universitaire de Rouen, Rouen, France

#### References

1. Beati L, Meskini M, Thiers B, Raoult D. *Rickettsia aeschlimannii* sp. nov., a new spotted fever group rickettsia associated with *Hyalomma marginatum* ticks. *Int J Syst Bacteriol* 1997;47:548–54.
2. Parola P, Raoult D. Ticks and tickborne bacterial diseases in humans: an emerging infectious threat. *Clin Infect Dis* 2001;32:897–928.
3. Raoult D, Roux V. Rickettsioses as paradigms of new or emerging infectious diseases. *Clin Microbiol Rev* 1997;10:694–719.
4. Roux V, Fournier PE, Raoult D. Differentiation of spotted fever group rickettsiae by sequencing and analysis of restriction fragment length polymorphism of PCR amplified DNA of the gene encoding the protein rOmpA. *J Clin Microbiol* 1996;34:2058–65.
5. Nilsson K, Lindquist O, Pahlson C. Association of *Rickettsia helvetica* with chronic perimyocarditis in sudden cardiac death. *Lancet* 1999;354:1169–73.
6. Raoult D, Berbis P, Roux V, Xu W, Maurin M. A new tick-transmitted disease due to *Rickettsia slovacica*. *Lancet* 1997;350:112–3.
7. Raoult D, La Scola B, Enea M, Fournier PE, Roux V, Fenollar F, et al. Isolation and characterization of a flea-associated rickettsia pathogenic for humans. *Emerg Infect Dis* 2001;7:73–81.
8. Raoult D, Fournier PE, Fenollar F, et al. *Rickettsia africae*, a tick-borne pathogen in travelers to sub-Saharan Africa. *N Engl J Med* 2001;344:1504–10.
9. Bacellar F, Beati L, Franca A, Pocas J, Regnery R, Filipe A. Israeli spotted fever rickettsia (*Rickettsia conorii* complex) associated with human disease. *Emerg Infect Dis* 1999;5:835–6.

## Cost-Effective Screening for Trichomoniasis

**To the Editor:** I read with interest a recent article in your journal, "*Trichomonas vaginalis*, HIV, and African Americans" (1), and I commend the authors' suggestion to implement screening and reporting of trichomoniasis for high-risk populations.

In the article, a cost-effective screening approach is mentioned, which includes culturing only for those women whose wet-mount tests are negative. In 1999, my colleagues and I reported on the validity of this method for diagnosing trichomoniasis in women (2). During our study, an additional vaginal swab was collected during the pelvic examination and placed into a glass tube. If the wet

mount was negative, this swab was later added to a culture pouch for *T. vaginalis*. We found no statistically significant difference in the sensitivity of this method compared with that of adding swabs immediately to pouches at bedside. This method of delaying the second test until the results of the first test are known should be considered in screening women for trichomoniasis, especially in high-prevalence populations.

Jane R. Schwebke

University of Alabama at Birmingham, Birmingham, Alabama, USA

#### References

1. Sorvillo F, Smith L, Kerndt P, Ash L. *Trichomonas vaginalis*, HIV, and African Americans. *Emerg Infect Dis* 2001;7:927–32.
2. Schwebke JR, Venglarik MF, Morgan SC. Delayed versus immediate bedside inoculation of culture media for diagnosis of vaginal trichomoniasis. *J Clin Microbiol* 1999;37:2369–70.

## Reply to Dr. Schwebke

**To the Editor:** We welcome Dr. Schwebke's thoughtful comments about decreasing the cost of screening for *Trichomonas vaginalis*. Dr. Schwebke and her colleagues have demonstrated that storing a vaginal swab for 15–20 minutes in a glass tube at room temperature does not affect the viability of *T. vaginalis* or reduce the sensitivity of subsequent culture. This finding shows that vaginal swabs may be stored briefly while a wet-mount preparation is made and examined. If the wet mount is negative for *T. vaginalis*, the stored swab can then be processed for culture. If the wet mount is positive for *T. vaginalis*, no further culture of the specimen is needed, thereby reducing unnecessary costs. Given that the prevalence of this infection often exceeds 20% in high-risk populations, this approach can reduce costs substantially without compromising the accuracy of the tests. Any method that reduces the cost of diagnosis will advance further