samples, as previously described (6). Phylogenetic analysis with strains representing all HAdV genotypes identified the viruses as HAdV-55 (data not shown). We performed complete-genome sequencing, which is now recommended for confirmation of HAdV type, by using next-generation sequencing from blood samples (online Technical Appendix, http://wwwnc.cdc.gov/EID/article/22/11/16-0728-Techapp1.pdf). Genome coverage (34,755 nt) was 99.1% (patient A) and 96.1% (patient B). Phylogenetic analysis showed that the sequences of the isolates from the 2 patients clustered together (bootstrap 99%) and were genetically more closely related to the sequences of the CQ-814 strain isolated in China in 2010 and the strain from Argentina (GenBank accession no. JX423384) (Figure, panel A). To investigate genetic relationships with more strains from distant geographic areas, we performed phylogenetic analyses with all available sequences of the hexon gene of HAdV-55 strains. However, because diversity of this gene between strains was low, we could not determine the geographic origin of the strains from France, which were genetically distant from the strain isolated in Spain in 1969 (Figure, panel B).

Over the past 10 years, reports of HAdV-55 have been increasing in Asia during outbreaks of respiratory diseases that in some cases led to severe pneumonia and deaths in immunocompetent adults and children (2–4,7,8). Of the 969 cases of community-acquired pneumonia in adults, 48 (5%) were associated with HAdVs; HAdV-55 was identified in 21 (43.8%) of these patients (7). For the 2 patients we report, clinical features were similar to those described elsewhere (4,8). Neither patient had traveled recently, and the 2 patients had not had contact with each other. Analysis of complete genomic sequences showed that the viruses infecting the patients were distinguishable from strains previously isolated in other countries. HAdV-55 could thus have been circulating in France for several years. Since its first detection in Spain in 1969 (9), HAdV-55 has been reported only 1 time in Europe, in Germany in 2004 (10).

Because most HAdV infections are asymptomatic and respiratory virus screening in routine practice does not systematically include HAdV detection, the true prevalence and clinical effect of HAdV-55 infection has probably been underestimated. The involvement of virus of this genotype in severe pneumonia emphasizes the need to reinforce HAdV surveillance by including HAdV genome detection and genotyping (if positive) in the documentation of severe respiratory infections.

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Spotted Fever Group
Rickettsia in the Pampa Biome, Brazil, 2015–2016

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To the Editor: Several cases of tickborne rickettsiosis have been reported in South America in recent years (1, 2). In Brazil, 2 spotted fever group (SFG) *Rickettsia* species, *R. rickettsii* and *Rickettsia* sp. strain Atlantic Rainforest, have been identified as causes of human disease. Rio Grande do Sul is the southernmost state of Brazil and the only part of the country located in the Pampa biome. Despite confirmed cases of human spotted fever in that state since 2005, little information is available regarding *Rickettsia* species. We report an eco-epidemiologic investigation of *R. parkeri* in *Amblyomma tigrinum* ticks on dogs from a household (and neighborhood) where a case of human spotted fever was diagnosed.

In 2011, a 44-year-old woman from the municipality of Rosário do Sul in Rio Grande do Sul (Figure) sought medical attention at the municipal health center. On examination, she had a cutaneous eschar, fever, malaise, lymphadenopathy, myalgia, headache, and rash; she reported receiving a tick bite a few days before. The diagnosis of spotted fever was confirmed at the Brazil National Reference Laboratory (Instituto Adolfo Lutz) in São Paulo after paired serologic testing (21-day interval) against *R. rickettsii* (first antibody titration 1:64; second 1:256) because the official diagnosis of human spotted fever in Brazil is based on serologic testing using only the *R. rickettsii* antigen. After doxycycline treatment (2×/d for 7 d), the patient had a complete recovery.

During September 2015–March 2016, we performed tick collections at the patient’s house, in the surrounding neighborhood (i.e., 7 other homes located within a radius of 1 km), and in the venues used by the patient for hunting. The patient and 11 relatives lived in a small house under extremely poor economic and sanitary conditions. They survived exclusively by government social programs and illegal hunting. The patient usually hunted several wild animals, including capybaras (*Hydrochoerus hydrochaeris*), armadillos (*Dasypus* spp.), the pampas fox (*Lycalopex gymnoecus*), and the crab-eating fox (*Cerdocyon thous*). We collected 251 *Amblyomma dubitatum* ticks from capybaras carcasses (74 adults and 173 nymphs) and from vegetation by dragging/flagging (2 adults and 2 nymphs); 60 *Amblyomma* sp. larvae were obtained by dragging/flagging. We obtained 47 adult *A. tigrinum* ticks and 2 adult *Rhipicephalus sanguineus* ticks from 14 owned free-roaming dogs with permanent access to wild habitats. We obtained ticks from the patient’s 8 dogs and from 6 other dogs from among 3 other households.

We taxonomically identified the ticks by morphology (3), processed whole ticks individually to obtain genomic DNA (4), and used PCR amplification of the rickettsial citrate synthase gene (*gltA*) as a screening procedure (5). We further tested tick samples that were positive for *Rickettsia* spp. by *gltA* PCR by using a second PCR, which amplified a fragment of the *ompA* gene from SFG *Rickettsia* spp. (6). We then tested positive samples a third time by using PCR amplification of a *htrA* gene fragment (5, 7). PCR products of the *ompA* and *htrA* genes were purified and sequenced and then compared with sequences available in GenBank.

All samples of *A. dubitatum* ticks were negative. Of the ticks collected from dogs, 13 *A. tigrinum* (28%) and 1 *R.
sanguineus (1/2) were positive in all PCR analyses (gltA, ompA, and htrA); 11 of these ticks were from the patient’s dogs. In all properties where ticks were collected, at least 1 was PCR positive. Thus, we detected R. parkeri in half (4/8) of investigated households.

All the sequences generated for the ompA and htrA genes showed 100% identity to sequences from the Rickettsia parkeri strain Portsmouth (GenBank accession no. CP003341.1). We deposited into GenBank the sequences of the ompA gene (KX196265) and htrA gene (KX196266) from samples analyzed in this study. The ompA sequence we obtained for R. parkeri showed 98% identity with Rickettsia sp. strain Atlantic Rainforest (GenBank accession no. GQ855237.1).

Although Rickettsia sp. strain Atlantic Rainforest had previously been considered the only SFG Rickettsia in southern Brazil, we demonstrate here the presence of R. parkeri in Rio Grande do Sul in the Pampa biome. We detected R. parkeri infection in A. tigrinum ticks collected at the probable site of infection (the patient’s home) of a confirmed case of human spotted fever. Considering the A. tigrinum tick abundance in southern Brazil and its remarkable ability to parasitize domestic and wild animals (8), in addition to the high R. parkeri infection rate observed (28%), further epidemiologic studies are needed to address the role of A. tigrinum ticks as vector of spotted fever in the Pampa biome. Finally, our results show that, in addition to R. rickettsii and Rickettsia sp. strain Atlantic Rainforest, R. parkeri occurs and might be associated with cases of spotted fever in Brazil. Additional surveys are needed to assess the infection prevalence of R. parkeri in A. tigrinum ticks in other areas of Pampa and in other regions of Brazil.

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Shigella flexneri with Ciprofloxacin Resistance and Reduced Azithromycin Susceptibility, Canada, 2015

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To the Editor: In 2015, a locally acquired, multi-drug-resistant Shigella flexneri infection was identified in Montreal, Quebec, Canada, in an HIV-positive man who had sex with men (MSM). In September, the 53-year-old man consulted his physician at an outpatient clinic after experiencing abdominal pain, fatigue, and diarrhea without blood in stools or fever. The week before the symptom onset, although he had not traveled, he had unprotected oral and anal sexual contact in a Montreal bathhouse with a man visiting Canada from an unknown country. The patient did not work in daycare centers or healthcare facilities, and he was not a food handler. He did not have sex during illness.