pathogens intrusion. Blackleg (1970, 1995) and the contagious ecthyma (1999) were probably introduced into the country by live ruminants imported from Madagascar (9). Since 2002, importation of live animals from Tanzania has been common, increasing the risk of introducing continental pathogens or vectors as illustrated with outbreaks of East Coast fever in 2003 and 2004 in Grande Comore (10). RVFV circulation presented in this study is another example of the exposure of the Republic of Comoros to emerging pathogens and potentially bears major consequences for the local economy and for public health. The improvement of the Comorian veterinary services and the setting up of surveillance programs are essential to limit the risk of introducing devastating diseases in the area.

Acknowledgments

We thank the vice president in charge of the Ministry of Agriculture, Fisheries, Environment, Industry, Energy, and Handicraft for providing logistical assistance and laboratory facilities and all herders and their representatives from the Comorian Farmers National Federation for their collaboration. We are also grateful to the Departmental Veterinary Laboratory at Mamoudzou, Mayotte, particularly Stéphanie Maeder and Abdou Achira for performing ELISA.

This work was supported with Fonds Européens de Développement Régional funds from the European Union within the Project “Programme de Coopération Scientifique sur les Maladies Animales Emergentes dans l’Océan Indien.”

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DOI: 10.3201/eid1707.102031

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Yersinia pestis in Small Rodents, Mongolia

To the Editor: Plague is known to be endemic in several areas of Mongolia, but transmission to humans seems to play only a minor role because the number of recognized cases is relatively low (Figure 1). The first human cases in Mongolia were reported to the World Health Organization in 1980, and <20 human cases have occurred each year since then (2). However, human plague was first reported in 1897 (3), such infections have been documented since the 1940s, and Yersinia pestis can be found in many provinces of Mongolia (Figure; T. Damindorj, pers. comm.) (3,4).

The most common source of
samples were positive for gene, 7 (5.3%) of 133 spleen tissue DNA extraction. Processed analogs, beginning with of 53 laboratory rodents, which were negative controls, we included tissues vaccine strain EV76 was used. As positive control, the (6) 5 positive DNA samples was attempted by clustered regularly interspaced short palindromic repeats analysis, targeting the 3 loci YPa, YPb, and YPc, respectively. Also included was DNA originating from the above-mentioned negative control tissues. However, only 1 sample from the spleen of a M. unguiculatus gerbil found the YPb locus, which then was sequenced, and resulted in the spacer signature b1-b2-b3-b4-b5. This signature is known from a Y. pestis biovar, Orientalis, that has been isolated from Rattus flavivectus rats in the plague focus of laboratory rodents tested negative. Identification of several host species was supported by partial sequencing of the cytochrome b gene (7). The animals tested positive for plague were gerbils (Meriones sp., 1; M. unguiculatus, 2; Rhombomys opimus, 2) and jerboas (Allactaga sibirica, 1; Cardiocranius paradoxus, 1).

The identity of the 230-bp pla PCR fragment was confirmed by DNA sequencing, showing 100% similarity to the pla gene sequences deposited in the European Molecular Biology Laboratory nucleotide database. Molecular subtyping of the 7 pla-positive DNA samples was attempted by clustered regularly interspaced short palindromic repeats analysis, targeting the 3 loci YPa, YPb, and YPc, respectively. Also included was DNA originating from the above-mentioned negative control tissues. However, only 1 sample from the spleen of a M. unguiculatus gerbil found the YPb locus, which then was sequenced, and resulted in the spacer signature b1-b2-b3-b4-b5. This signature is known from a Y. pestis biovar, Orientalis, that has been isolated from Rattus flavivectus rats in the plague focus of the Yunnan–Guangdong–Fujian provinces in the People’s Republic of China (8).

Detection of Y. pestis–specific DNA in wild rodents has been described. For instance, a wild rodent community in the eastern Sierra Nevada mountains in the United States was screened for plague by pla-specific real-time PCR; of 89 rodents, 1 chipmunk (1.1%) had positive results (9).

The permanent presence of Y. pestis in rodent communities in North America has led to smaller and more distant-living colonies of prairie dogs (10). Strikingly, in the present study, >5% of the screened rodents were found to carry Y. pestis DNA. This high number was unexpected for the investigated areas, which have had a low level of plague activity (Figure). To our knowledge, Y. pestis has also not yet been reported in Manlai Sum (district) in the Umnugovi Aimag (subdivision) (Figure) (2–4) nor has the presence of Y. pestis DNA in a Cardiocranius paradoxus jerboa.

Our findings emphasize that rodents play a role as zoonotic reservoirs of Y. pestis in Mongolia and

Figure. Yersina pestis in rodents in Mongolia. Shaded areas show the known distribution of enzootic plague in Mongolia during 1948–1999 (V. Batsaikhan, J. Myagmar, G. Bolormaa, National Center for Infectious Diseases with Natural Foci, Ulanbaatar, Mongolia; pers. comm.). The following 133 rodents were investigated: gerbils (Meriones unguiculatus, 61; M. meridianus, 25; Rhombomys opimus, 17); jerboas (Allactaga sibirica, 6; Stylodipus telum, 1; Dipus sagitta, 4; Cardiocranius paradoxus, 1), and squirrels (Spermophilus alaskanichus, 1; Citellus dauricus, 1). Plague-positive trapping loci were the following: 1, Tuv Aimag, Bayanuurjuul Sum; 2–4, Umnugovi Aimag (2, Nomgon Sum; 3, Bayandalai Sum; 4, Manlai Sum). Y. pestis DNA was found in 7 rodents (gerbils and jerboas).
that the actual prevalence of plague seems to be underestimated. The low population density in Mongolia explains the low amount of illness in humans. Further investigations should include the screening of rodent populations near the plague-positive loci. In addition, fleas and other parasites (and also predators of small mammals) should be studied. Mongolia is a key area of plague genesis and therefore is an ideal location for more detailed study of the role of rodents as epizootic and enzootic reservoirs of \textit{Y. pestis}.

Acknowledgments

We thank Gabriele Echle, Philipp Vette, and Astrid Thomas for excellent technical assistance and Gilles Vergnaud for providing access to the CRISPR database (http://crispr.u-psud.fr/crispr).

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DOI: 10.3201/eid1707.100740

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Typhoon-related Leptospirosis and Melioidosis, Taiwan, 2009

To the Editor: Global climatic changes have resulted in more natural disasters worldwide. These natural disasters can then cause outbreaks of emerging infectious diseases, including leptospirosis and melioidosis (1–7). In 2009, the moderate-strength Typhoon Morakot, with a maximum cumulative rainfall amount up to 3,059.5 mm, damaged Taiwan. After this natural disaster, unusual epidemics of leptospirosis and melioidosis occurred. The main objective of this study was to clarify whether these epidemics have resulted from this natural disaster.

Information about past typhoons that affected Taiwan was collected from the website of the Taiwan Meteorological Bureau (http://photino.cwb.gov.tw/tyweb/mainpage.htm; www.cwb.gov.tw) during January–August, 2009. The influential period of Morakot was in the 32nd week (August 5–August 10) in 2009. To evaluate the effects of this specific natural disaster, we divided the period into 2 intervals for analysis. The early period (before the typhoon) was from the 28th through the 32nd weeks, and the latter period (after the typhoon) was from the 33rd through the 37th weeks in 2009. Information regarding 16 typhoons from 2000 through 2009 was further collected to evaluate effects of typhoon level, rainfall level, and maximum cumulative rainfall amounts on case numbers of leptospirosis and melioidosis after a typhoon.

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The historical records of numbers of leptospirosis and melioidosis cases for analysis were obtained from the database collected weekly by the Centers for Disease Control, Taiwan. The information was referred to the website of the Taiwan Center for