were almost identical; only 2 nt differences were found. No epidemiologic or geographic link connected these 2 patients. The only link was the date of sample collection. Both patients were ill during the summer, which suggests possible consumption of undercooked, or raw, contaminated food as the source of infection. The sequences from these 2 patients were most closely related to the sequences from patients involved in the outbreaks in France (Figure). These sequences all form a group with the HEV4 virus identified in the pig in Belgium in 2008, thereby suggesting a zoonotic origin.

Because Statens Serum Institut is the only laboratory in Denmark that offers diagnostic testing for HEV, we consider our national surveillance to be fairly complete. Prospective surveillance will show whether HEV4 becomes established within Denmark. To date, HEV4 has not been detected in animal populations in Denmark. In China, similarity of HEV4 data between strains from humans and other animals in the same geographic areas was high, which is highly suggestive of zoonotic transmission (3). Because of the rare detection of HEV4 in Europe, these types of data are not yet available for European countries. However, the close phylogenetic relationship between the strains from humans in Denmark and France and the strain from the pig in Belgium suggests a zoonotic origin for this genotype in these countries. This suggestion is further supported by the fact that some of the strains from France were associated with the consumption of pork liver sausage.

The emergence of autochthonous HEV4 infection in human populations in 4 European countries, and its detection in different years (2006/2007, 2008, 2009, 2011, and 2012), suggests that this genotype may be established in Europe. Thus, for the purpose of ensuring HEV4 detection, diagnostic and genotyping methods should be evaluated.

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travelers from Taiwan participated in group tours to Southeast Asia, a highly rabies-endemic area. Thus, tour leaders might be in a position to influence rabies risk among group travelers to high-risk destinations.

To determine tour leaders’ knowledge of and attitudes toward rabies vaccination, we conducted a cross-sectional survey among those working in international tourism in Taiwan. A self-administered questionnaire was given to 191 tour leaders who attended 6 seminars in Taiwan during May–October 2010. This questionnaire (online Technical Appendix, wwwnc.cdc.gov/EID/article/20/1/13-0673-Techapp1. pdf) comprised 3 sections: demographic information; attitude toward rabies vaccination; and knowledge about general rabies-related information, prevention, and postexposure management. The questionnaire was based on a literature review. Statistical analysis was performed by using SPSS for Windows 11.0 (SPSS, Chicago, IL, USA) and χ² test and stepwise logistic regression analysis; p value was set at 0.05.

A total of 175 (91.6%) tour leaders completed the questionnaire. Respondent mean age (± SD) was 44.5 ± 11.8 (range 20–71) years. Among them, 58.3% were women, and 82.3% had a college degree or above. A positive attitude toward preexposure rabies vaccination was reported by >90% of tour leaders (Table). Tour leaders who intended to receive vaccination showed higher willingness to recommend vaccination to group travelers. Most (46.3%) tour leaders indicated that the main factor influencing their intention to receive vaccination was disease severity. However, the mean percentage of accurate responses to rabies-related questions was only 52.4% (Table). Most (49.1%) tour leaders incorrectly thought that it often takes 1 day to 1 week for symptoms of rabies to develop after a person is infected. Only 44.6% of respondents knew that the mortality rate for rabies is >99% after symptoms appear. Regarding the question “Where is rabies present?” the most often chosen incorrect answer was Southeast Asia and mainland China only (32.0%). A positive attitude toward rabies vaccination and poor knowledge were noted regardless of tour leader age and education level. Multiple logistic regression analyses showed that the response to the question about mortality rate was a significant predicting variable regarding tour leaders’ attitudes toward vaccination. Tour leaders who understood the high mortality rate associated with rabies tended to receive preexposure rabies vaccination (odds ratio 5.578, 95% CI 1.190–26.170, p = 0.029) and would recommend vaccination to group travelers (odds ratio 15.931, 95% CI 1.840–138.090, p = 0.012).

Our study revealed that tour leaders in Taiwan had a positive attitude toward rabies vaccination but a relatively low level of knowledge about rabies. Knowledge was poor regarding clinical manifestations, rabies-endemic areas, prevention, and management. We believe that the poor knowledge reflects insufficient information or education about rabies provided to the public or to tour leaders in Taiwan, which is a rabies-free area. Previous studies revealed that most animal-bitten travelers did not receive postexposure prophylaxis consistent with World Health Organization guidelines (4, 6), possibly because travelers and local health practitioners were unfamiliar with the disease (7, 8). Therefore, tour leaders with adequate knowledge about rabies might be able to provide immediate information to exposed travelers.

Knowledge of the high mortality rate associated with rabies was an independent factor influencing tour leaders’ attitudes toward preexposure rabies vaccination. This finding was consistent with previous study findings that low preexposure vaccination rates among travelers might result

| Table. Respondent’s attitude and knowledge of rabies and vaccination (n = 175), Taiwan, 2010* |
|-----------------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Survey section, questions                        | Response, %     |
|                                               | Yes  | No  | No idea | Correct answer | Incorrect answer | Don’t know |
| Section II: attitude toward rabies vaccination  |      |     |        |               |                 |             |
| 1. Do you intend to receive rabies vaccination before visiting a rabies-endemic area? | 92.6 | 3.4 | 4.0    | NA             | NA             | NA          |
| 2. Will you recommend rabies vaccination to travelers before they visit a rabies-endemic area? | 94.3 | 1.7 | 4.0    | NA             | NA             | NA          |
| Section III: knowledge about rabies              |      |     |        |               |                 |             |
| 1. Transmission mode                            | NA   | NA  | NA     | 97.1          | 1.7             | 1.1          |
| 2. Infectious agent                             | NA   | NA  | NA     | 77.7          | 16.0            | 6.3          |
| 3. Particular symptom                           | NA   | NA  | NA     | 51.4          | 37.7            | 10.9         |
| 4. Incubation period                            | NA   | NA  | NA     | 25.1          | 65.8            | 9.1          |
| 5. Mortality rate                               | NA   | NA  | NA     | 44.6          | 34.3            | 21.1         |
| 6. Rabies-endemic area                         | NA   | NA  | NA     | 38.3          | 45.1            | 16.6         |
| 7. Preexposure vaccination protocol             | NA   | NA  | NA     | 21.7          | 52.1            | 26.2         |
| 8. Postexposure vaccination protocol             | NA   | NA  | NA     | 41.7          | 69.7            | 28.0         |
| 9. Postexposure management                     | NA   | NA  | NA     | 73.7          | 14.3            | 12.0         |

*NA, not applicable.
from the lack of knowledge among the travelers themselves or among their pretravel health care providers (5,9). In recent years, the World Health Organization and the GeoSentinel Surveillance Network recommended that persons planning to visit rabies-endemic areas receive preexposure prophylaxis before traveling (6,10). Understanding the factors influencing acceptance of vaccination could help governments develop and institute strategies for disease prevention. Thus, the Taiwan government should enhance tour leaders’ knowledge about rabies, especially regarding the high mortality rate. Education of tour leaders could, in turn, increase vaccination rates and help with prevention and management of rabies.

The results of this study are relevant for countries other than Taiwan because many Asian tourists participate in group tours. We suggest that governments place more emphasis on tour leaders’ education concerning travel medicine. Such education could not only improve the quality of group tours but also help prevent travel-related infectious diseases.

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Corynebacterium ulcerans in Ferrets

To the Editor: Infection with Corynebacterium ulcerans occurs sporadically throughout the world, and in the United Kingdom it has emerged as the most common cause of diphtherialike disease (1). C. ulcerans, along with C. diphtheriae and C. pseudotuberculosis, can be lysogenized by diphtheria toxin–encoding bacteriophages; this process enables the organism to induce its characteristic sequela (the diphtheritic membrane) in the host. C. ulcerans in the environment has been a source of mastitis in cattle and a cause of diphtheria in humans who consume unpasteurized, contaminated milk. The organism has been isolated from various domestic, wild, and laboratory animals; additional definitive sources are dogs, cats, and pigs (2). C. ulcerans has been isolated from bonnet macaques with mastitis and from the cecal implants of purpose-bred macaques used in cognitive neuroscience experiments (3,4). We report isolation of C. ulcerans from cecal implants in 4 ferrets (Mustela putorius furo) and the oophorhyax of 1 ferret, all used in imaging experiments in Massachusetts, USA, during 2007–2008.

All ferrets described here were purpose-bred, domestic ferrets, purchased from a commercial vendor. The index case occurred in a ferret with a cecal implant. Microbiological culture of a purulent discharge