with laterocervical and submandibular lymphadenitis. Total lymph node excision was performed with a good outcome for all patients except 1, who required additional treatment with antimicrobial drugs because the infected lymph node was incompletely excised (4). Additionally, a systemic M. bohemicum infection associated with immunodeficiency was reported recently (10). Treatment recommendations for nontuberculous mycobacterial lymphadenitis are outlined in discussions of individual nontuberculous mycobacterium species. Guidelines for localized lymphadenitis caused by any nontuberculous mycobacterium species recommend complete surgical excision of the involved lymph nodes (8). Additional antimicrobial drug therapy is recommended only for patients for whom removal was incomplete (8). Our patient who received combination antimicrobial drug treatment improved, with no relapse.

In summary we report 4 cases of M. bohemicum from Austria, a country with 8 million inhabitants. Because these cases were observed in a relatively small country, infections with M. bohemicum may be more common than previously thought. More such cases may be discovered as a result of improved microbiologic diagnostic techniques. We believe that M. bohemicum should be listed among the species that induce nontuberculous mycobacterial infections.

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To the Editor: In France, pertussis epidemiology has been extensively studied since 1993. Immunization of children with a highly efficacious pertussis whole-cell (Pw) vaccine (Sanofi Pasteur MSD, Lyon, France) for 40 years (since 1966) has reduced the incidence of pertussis. It has been demonstrated that infectious or vaccinal immunity to pertussis wanes with time and that pertussis is no longer a pediatric disease (1–5). Transmission now occurs predominantly from adolescents and adults to unvaccinated newborns.

From 1966 through 1995, primary vaccination against pertussis was administered to children at 3, 4, and 5 months of age, and a booster was given at ≈2 years of age. Since 1995, primary vaccination has been administered at 2, 3, and 4 months of age, and a booster is given at 16–18 months of age. Duration of protection of children immunized with Pw vaccine at these schedules is estimated to be ≈7–9 years (1,5).

In response to the problem of waning immunity, a second pertussis booster immunization at 11–13 years of age was introduced in 1998 (6). Development of pertussis acellular (Pa) vaccines has enabled administration of this booster immunization. The French hospital network surveillance system (Renacoq) was established in 1996 to monitor severe pertussis in infants and the effect of late booster immunizations. A cyclic disease pattern was observed; peaks were noted for 1993, 1997, 2000, and 2005. However, the last peak had a low amplitude; since then a diminution in the proportion of siblings who transmitted the infection to young infants was observed (2). These results could have been caused
by adolescent booster immunizations.

We evaluated whether the duration of immunity induced by Pw vaccine was still similar to the duration estimated in 1993–1994. This surveillance was necessary because antigenic changes in circulating isolates of *Bordetella pertussis* were observed when compared with vaccine strains (7). To achieve this goal, a private pediatric network was set up and data from this surveillance are presented.

From September 2002 through April 2006, 79 pediatricians in France enrolled all infants and children suspected of having pertussis. A standardized data form was completed for each case, including sex, age, symptoms, and source of infection. Biologic confirmation of infection was obtained by using routine laboratory diagnoses, i.e., culture, PCR, or serology. Real-time PCR was performed according to consensus rules (8). Routine serodiagnosis was performed by using purified pertussis toxin and Western blotting according to the method of Guiso et al. (9) because this is the only diagnostic test available for patients in France. Serologic diagnosis was made by detecting antibodies to pertussis toxin in unvaccinated children or in those vaccinated >1 year earlier. Epidemiologic case-patients were defined as those with a confirmed case-patient within 4 weeks of the onset of the cough. No confirmed suspected case-patients had coughs; all were negative for pertussis by biologic diagnosis and did not report contact with a confirmed case-patient.

A total of 383 children were enrolled in the study. However, vaccination status and a biologic diagnosis were available for only 139 children (Table). Forty-seven children had biologically confirmed cases and 92 had nonconfirmed cases. Among children with confirmed cases, only 22 had been vaccinated. At time of disease, the mean ± SD age of these children was 9.9 ± 2.1 years. This age was similar to the age observed during 1993–1994 (1,5).

The diagnosis for the 92 children suspected of having pertussis was not confirmed biologically. Culture and PCR are used for diagnosis early in the course of pertussis. However, serologic analysis is used later because antibodies are rarely detected before 3 weeks of onset of a cough. More culture and PCR diagnoses were performed for unvaccinated confirmed case-patients than for vaccinated confirmed case-patients. This finding suggests that unvaccinated children were seen by their pediatricians earlier than vaccinated children because the disease was less severe in vaccinated children or that vaccinated children were older than unvaccinated children.

The source of contamination was known for 47% of the confirmed case-patients (Table). This source was either adults (54.4%) or adolescents (41%) who did not receive their second booster immunization or an unvaccinated infant (4.5%). These data are similar to those obtained by the French hospital-based surveillance (2). They also support the strategy started in 2004 of recommending a pertussis booster immunization for adults in contact with children and all healthcare workers who come in contact with infants (10).

In conclusion, this pediatric surveillance confirms the usefulness of following vaccine recommendations for pertussis and of using biologic techniques to confirm a diagnosis. The vaccine strategy recommending a booster vaccination at 11–13 years of age is still in accordance with epidemiologic features observed. Pediatricians should continue this surveillance to evaluate evolution of *B. pertussis* populations and the effect of replacing Pw vaccines with Pa vaccines.

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Avian Mycoplasma lipofaciens Transmission to Veterinarian

To the Editor: Mycoplasma spp. are well-known pathogens in human and veterinary medicine. Mammals, especially primates and including humans, share similar or even identical Mycoplasma spp., which might be commensal or pathogenic (1). Additionally, sporadic infections of immunocompromised persons with Mycoplasma spp. that originated from domestic animals have been reported (1); susceptibility in this human population is increased (2,3). M. phocicerebrale is the only Mycoplasma pathogen of animals that regularly infects humans, causing a disease called seal fingers (1,4). However, we report a human infection with an avian Mycoplasma organism.

A clinical trial to investigate the capability of M. lipofaciens (strain ML64) (5) to spread horizontally between infected and noninfected turkey poult's in an incubator demonstrated airborne transmission of the pathogen within 24 hours (6). During the trial, the veterinarian conducting the study, a 36-year-old man, was monitored for infection. Each day, 2 swabs were taken from both nostrils, starting

References

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LETTERS

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LETTERS

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