Arcanobacterium pyogenes Sepsis in Farmer, Brazil

To the Editor: Arcanobacterium pyogenes is a normal inhabitant of the mucous membranes of domestic animals, such as cattle, sheep, swine, and goats (1). Diseases caused by this agent have been reported for persons who live in rural areas and have underlying illnesses such as cancer and diabetes (2–4). A recent literature review (3), elicited by a case of A. pyogenes endocarditis, found 13 unequivocal cases of human infection with this agent; many patients had a history of close contact with domestic animals. However, septicemia was not reported.

In June 2006, a 27-year-old immunocompetent man was hospitalized in Campinas (São Paulo, Brazil) for fever, cough with purulent bloody sputum, and discharge from and pain in both ears. The patient was a farmer who lived in the rural Amazon area and had extensive contact with cattle and swine. For the past 3 days he had been taking amoxicillin, 1.5 g/day, for chronic otitis media. At the time of hospital admission, his temperature was 38.9°C, respiratory rate 24 breaths/min, and blood pressure 100/70 mm Hg. He had palpable hepatosplenomegaly, but no murmur was detected in the precordium. Computed tomography (CT) scan of his chest showed multiple pulmonary nodules and alveolar infiltrates with small cavities suggestive of septic infections. Abdominal CT scan confirmed hepatosplenomegaly, but no murmur was detected in the precordium. Computed tomography (CT) scan of his chest showed multiple pulmonary nodules and alveolar infiltrates with small cavities suggestive of septic infections. 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Reactivation of Bovine Tuberculosis in Patient Treated with Infliximab, Switzerland

To the Editor: Increased risk for reactivation of tuberculosis (TB) after treatment with tumor necrosis factor (TNF) antagonists, particularly infliximab, is well documented (1). We describe a case of peritoneal TB, probably resulting from reactivation of Mycobacterium bovis infection after infliximab treatment. In retrospect, reactivation might have been preventable had physicians been aware of the patient’s history of regularly drinking fresh cow’s milk from a local farm in Switzerland during 1944–45, when bovine TB was prevalent.

The patient was a 69-year-old Swiss woman who was examined for weakness, abdominal pain, increasing abdominal girth, and weight loss in April 2008. Her history included a diagnosis of Crohn disease in 1978 and treatment with glucocorticoids, only to have her symptoms recur after treatment with infliximab. In April 2008, her history included a diagnosis of Crohn disease in 1978 and treatment with glucocorticoids, only to have her symptoms recur after treatment with infliximab. She was given prednisone (40 mg/d for 2 weeks, then tapered) and prescribed 3 doses of infliximab because of severe inflammation seen during colonoscopy (5 mg/kg on November 30, 2007, January 4, 2008, and February 15, 2008). She was hospitalized on April 25, 2008, at which time she had ascites; the fluid contained 1.4 × 10⁹/L leukocytes (79.5% lymphocytes) but was negative for acid-fast bacilli on direct examination and PCR testing for Mycobacterium tuberculosis complex. Laparoscopy on May 2, 2008, showed extensive peritoneal inflammation. Peritoneal biopsy samples contained acid-fast bacilli and caseating granulomas; PCR for M. tuberculosis complex was positive. At this time, results of a repeat QuantiFERON-TB in Tube test (Oxford Immunotec, Abingdon, UK) test were negative, but a T-SPOT.TB (Oxford Immunotec, Abingdon, UK) test was positive (6-kDa early secretory antigen target [ESAT-6], >20 spots; 10-kDa culture filtrate protein [CFP-10], 11 spots). M. bovis ssp. bovis was grown in cultures of peritoneal biopsy samples. For culture, the MGIT 960 automated culture system (Becton Dickinson, Sparks, MD, USA) was used. The isolate was identified by use of a multiplex PCR-based, solid-phase, reverse-hybridization assay (GenoType MTBC, Hain Lifescience GmbH, Nehren, Germany), excluding M. bovis BCG (2). The patient was discharged May 30, 2008. In January 2009, she was much improved after treatment with isoniazid/rifampin/ethambutol for 2 months and moxifloxacin/rifampin for 5 months.

This case of presumed reactivation of peritoneal TB caused by M. bovis in a patient treated with infliximab highlights the need to be aware of local epidemiology with regard to transmissible infectious diseases.