Leprosy in Pregnant Woman, United States

To the Editor: Hansen disease, or leprosy, in pregnancy is a rarely reported event in the United States. In 2009, a total of 213,036 new cases of leprosy were detected throughout the world (1). Nine countries in Africa, Asia, and Latin America consider it a public health problem, accounting for ≈75% of the global disease prevalence (1).

We describe a case of leprosy in a 27-year-old woman with 1 previous pregnancy and 1 live-born infant who had onset of subcutaneous nodules before she became pregnant. She appeared at her initial prenatal visit at 24.1 weeks of gestation after recently emigrating from Mexico. The patient reported that subcutaneous nodules had developed on her arms, legs, back, and abdomen ≈5 months before the visit, 2 weeks before her last menstrual period. A skin biopsy revealed acute and chronic panniculitis with acid-fast bacilli, and the condition was confirmed by PCR to be lepramatous leprosy. Treatment included rifampin, Dapsone, clofazimine, and prednisone.

The patient’s condition was monitored closely with ultrasounds at serial intervals; these showed consistent fetal growth at the 50th percentile. At 37 weeks and 1 day, her membranes

Mary E. Wikswo, Rishi Desai, Kathryn M. Edwards, Mary Allen Staat, Peter G. Szilagyi, Geoffrey A. Weinberg, Aaron T. Curns, Benjamin Lopman, Jan Vinjé, Umesh D. Parashar, Daniel C. Payne, and Aron J. Hall

Address for correspondence: Mary E. Wikswo, Centers for Disease Control and Prevention, 1600 Clifton Rd NE, Mailstop A34, Atlanta, GA 30333, USA; email: ezq1@cdc.gov

References

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ruptured. She underwent a repeat cesarean delivery because the method of leprosy transmission is not yet proven and to prevent possible vertical transmission to the infant. The patient delivered a female infant weighing 6 lb, 8 oz, with Apgar scores of 8 and 9. On postoperative day 1, Dapsone treatment was restarted; she was given Dapsone, 50 mg daily, and prednisone, 40 mg daily. She was discharged with the baby on postoperative day 3.

Leprosy is a chronic disease caused by *Mycobacterium leprae*. The disease mainly affects the skin and nerves and, if untreated, can cause permanent damage. It is curable, however, and disability can be avoided. The World Health Organization recommends multidrug therapy consisting of Dapsone, rifampin, and clofazimine (1). This combination has proven highly effective, and patients are no longer infectious after the first dose (1). Virtually no relapses occur and antimicrobial drug resistance does not develop (1). Pregnancy causes a relative decrease in cellular immunity, which allows *M. leprae* to proliferate (2). Careful management can prevent permanent nerve damage. Lepratomatous leprosy and relapse after treatment are more commonly seen throughout pregnancy because of the pregnant woman’s immunodeficient state (2,3). Infants are usually less affected than mothers; nevertheless, selection of the mother’s antimicrobial drug regimen must ensure adequate control of the bacteria while avoiding teratogenicity and in utero adverse effects, such as low birthweight (3,4). The infant has a potentially high risk of contracting leprosy from the mother by skin-to-skin contact or droplet transmission, particularly if she has not received treatment.

Alexis C. Gimovsky
and Charles J. Macri

Author affiliation: George Washington University Hospital, Washington, DC, USA

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Address for correspondence: Alexis C. Gimovsky, Department of Obstetrics and Gynecology, George Washington University Hospital, Medical Facility Associates, 2150 Pennsylvania Ave NW, #6A29, Washington, DC 20037, USA; email: agimovsky@gmail.com

Haemophilus parahaemolyticus Septic Shock after Aspiration Pneumonia, France

To the Editor: Members of the genus *Haemophilus* are commensal bacteria of the upper respiratory tract, and *H. influenzae* is the main pathogen in this genus that can cause a wide range of human infections (1). The species most closely related to *H. influenzae* is *H. haemolyticus*, usually considered a commensal of the nasopharynx in humans; it can be pathogenic, although rarely (2,3). *H. parahaemolyticus* was distinguished from *H. haemolyticus* in 1953 when it was determined that *H. parahaemolyticus* required only factor V, but not factor X, for growth (4). This species could be responsible for pharyngitis and, rarely, for subacute endocarditis (4), but it has seldom been reported to cause invasive disease (5). Invasive disease has been reported in a patient who had an empyema in the gallbladder (6) and in a patient who had a cryptogenic brain abscess (7). We report a case of acute respiratory distress syndrome (ARDS) and septic shock caused by *H. parahaemolyticus*.

A 50-year-old woman, who was receiving artificial ventilation, was transferred to the Hôpital Nord in Marseille, France, in November 2012. She was in a coma because she had taken an overdose of benzodiazepine and clomipramine in a suicide attempt. She had no relevant medical history except addiction to tobacco, chronic alcoholism, and depression. The patient’s family owned 3 cats and 1 dog but had no other pets. She had not traveled outside France.

Notable findings on initial examination (before intubation) were shock (arterial blood pressure 80/50 mm Hg, despite adequate fluid resuscitation), tachycardia (pulse rate 110 beats/min), tachypnea (respiratory rate 34 respirations/min), low peripheral oxygen saturation (SO₂ 80%), and a temperature of 39°C. On intensive care unit (ICU) admission, her partial pressure of arterial oxygen/fraction of inspired oxygen ratio was 101 under mechanical ventilation, with a positive end-expiratory pressure level of 10 cm H₂O, consistent with ARDS. Chest examination revealed bilateral crackles on lower lung lobes, consistent with chest radiograph findings. Routine laboratory evaluation showed a hemoglobin level of 11.7 g/dL (reference 12.5–15.5 g/dL for women); leukocytosis, indicated by a leukocyte count of 23 cells × 10⁹/L (reference 4–10 ×10⁹/L); and elevated C-reactive protein level (298 mg/L [reference <5 mg/L]).

On the second day, a bronchoalveolar lavage (BAL) specimen (obtained before initiation of antimicrobial drug therapy) was positive for *H. parahaemolyticus* (10⁸ CFU/mL) on a chocolate polyvitex agar plate, and the strain showed susceptibility to ampicillin/clavulanate, ceftriaxone,

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