**Ehrlichia chaffeensis** in Child, Venezuela

To the Editor: Human monocytic ehrlichiosis is a tick-borne infectious disease caused by *Ehrlichia chaffeensis* (1). Serologic studies have indicated *E. chaffeensis* infection in Latin American countries: Venezuela (2), Mexico (3), Argentina (4), Chile (5), and Brazil (6). However, no molecular evidence for *E. chaffeensis* has been reported.

In December 2001, a 9-year-old boy was admitted to a hospital in Carabobo, Venezuela, after 3 days of fever (39°C–41°C), malaise, anorexia, headache, abdominal pain, and cutaneous tick-bite lesions. During the 6 weeks before admission, the patient had been exposed to ticks in a rural area (Cojedes, Venezuela). At the time of physical examination, the patient had been painful to palpation, and hepatomegaly, soft depressible abdominal pain, and cutaneous lesions improved. Abdominal pain persisted for 7 days after treatment. Nausea and vomiting started 2 days after admittance; on day 7, vomit was of coffee-ground consistency. All remaining symptoms abated thereafter. The patient had diarrhea during days 3–6 after admittance; hepatomegaly disappeared after 4 days. Ultrasonographic images of the abdomen indicated acute cholecystitis and hepatosplenomegaly; endoscopic examination of the upper digestive tract showed hyperplasia, hyperemia, and linear and pseudomembranous lacerations in the middle and distal thirds of the esophagus (Mallory-Weiss syndrome) and moderate erythema of the stomach. Test results for *Helicobacter pylori* and *Giardia lamblia* were negative.

Laboratory results showed leukopenia and monocytosis on day 5 of illness. Leukocyte count was within reference range thereafter; thrombocytopenia was present until day 7 (99,000/mm³). ALT was elevated from day 3 and peaked (481 IU) on day 7. AST levels increased on day 5 and peaked (215 IU) on day 7. Both values decreased progressively to reference levels (after 25 days for ALT and 46 days for AST). Lactic dehydrogenase was elevated for 9 days while erythrocyte count, sedimentation rate, and serum glucose, amylase, urea, creatinine, bilirubin, calcium, sodium, and potassium remained within reference limits. The patient was released after 8 days of hospitalization.

The buffy-coat smear performed 4 days after illness onset showed basophilic intracytoplasmic inclusions inside vacuoles of lymphocytes and monocytes, with typical features of morulae reported for human monocytic ehrlichiosis (Figure). Nested PCR analysis was positive for *E. chaffeensis*, and sequencing of the amplified DNA fully confirmed the 16S rRNA targeted sequence.

This report provides molecular evidence of *E. chaffeensis* infection in a patient with acute disease in Venezuela. A previous case of human monocytic ehrlichiosis in a 17-month-old girl in Venezuela has been demonstrated serologically (2). *E. canis* in an asymptomatic patient in Venezuela has been demonstrated by PCR and culture isolation (8) and was recently demonstrated in symptomatic patients (9). Excluding the esophageal lesions (Mallory-Weiss syndrome), our case is compatible with cases reported previously (10). The clinical manifestations of ehrlichiosis are similar to those of dengue fever and mononucleosis, both common diseases in Venezuela. The positive anti-dengue IgM and the seroconversion of the IgG together with the negative PCR and isolation results suggest a recent, inactive infection with dengue virus.

According to our findings, ehrlichiosis should be a differential diagnosis for febrile patients who have
thrombocytopenia, hepatomegaly, and recent exposure to ticks. Although *Amblyomma americanum*, the main known vector of *E. chaffeensis*, has not been reported in Venezuela, *Rhipicephalus sanguineus* and *A. cajennense* are abundant in rural areas of Venezuela; their ability to be vectors should be investigated.

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Resource Allocation during an Influenza Pandemic

To the Editor: Planning for pandemic influenza is accepted as an essential healthcare service and has included creation of national and international antiviral drug stockpiles and novel approaches to emergency vaccine development (1). The effectiveness of these strategies in a pandemic may be substantial but is unknown. More certain is that effective management of severe and complicated influenza will reduce deaths and that demand will exceed available treatment resources (2). Appropriate allocation of treatment resources is therefore essential, perhaps more important than any specific treatment such as administering antiviral medication to symptomatic patients. Re-