

## CLINICAL IMAGES

***Mycobacterium chelonae* bacteremia in a patient taking infliximab and prednisone**

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**A** 68-year-old man with ulcerative colitis was admitted for an elective colectomy and ileostomy after failed medical management. At the time of admission, he was otherwise well. He had been taking infliximab for 12 years. His prednisone dose was increased from 10 to 50 mg/d on admission. While awaiting surgery three days later, he developed fever, hypotension and a productive cough. He was given piperacillin–tazobactam and vancomycin for presumed pneumonia, despite a normal chest radiograph. On day 7, his blood cultures were reported as positive for acid-fast bacilli, and his treatment was broadened to include rifampin, ethambutol, pyrazinamide, isoniazid and azithromycin to cover tuberculosis and *Mycobacterium avium–intracellulare*. On day 10, he developed multiple cutaneous nodules on his forearms that were 2–3 cm in diameter, well-demarcated and erythematous (Figure 1). No other source of infection was identified.

A sample of the mycobacteria isolated from the blood cultures was submitted to the National Microbiology Laboratory in Winnipeg and was identified as *Mycobacterium chelonae* subsp. *niacinogenes*. Sensitivities are displayed in Appendix 1, available at [www.cmaj.ca/lookup/suppl/doi:10.1503/cmaj.150978/-/DC1](http://www.cmaj.ca/lookup/suppl/doi:10.1503/cmaj.150978/-/DC1). The patient's treatment was consolidated to clarithromycin owing to rapid improvement in his symptoms. His elective surgical procedure was rescheduled.

Nontuberculous mycobacteria infections are increasing in prevalence and incidence,<sup>1</sup> likely owing to advances in identification of nontuberculous mycobacteria and increasing use of immunosuppressive agents.<sup>2</sup>

*Mycobacterium chelonae* is a rapidly growing nontuberculous mycobacteria. Most infections involving *M. chelonae* are limited to cutaneous lesions and have been reported with multiple



**Figure 1:** Left forearm of a 68-year-old man with cutaneous nodules associated with *Mycobacterium chelonae* infection. The patient was taking infliximab and prednisone for ulcerative colitis.

surgical interventions, including cosmetic procedures, otolaryngologic procedures and cardiovascular surgery.<sup>3</sup> Disseminated infection has been reported in patients using contaminated hemodialysis machines and in immunosuppressed patients with infected vascular devices.<sup>4</sup> In our patient, the presumed inoculation occurred with a peripheral intravenous line.

**References**

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