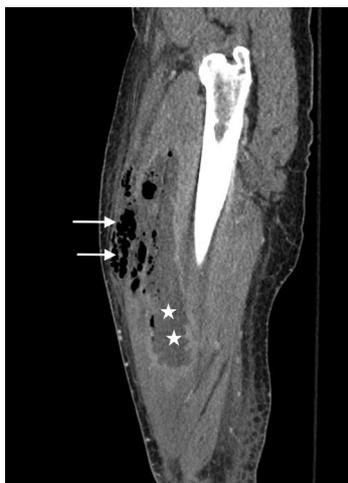


**Figure 1.** Longitudinal view of the right lateral thigh showing thickened fascia, fascial fluid (stars), and hyperechoic foci with dirty shadowing posteriorly (arrows).



**Figure 2.** Radiograph of the right thigh showing subcutaneous air (arrows).



**Figure 3.** CT of the right thigh showing subcutaneous air (arrows) and complex intramuscular abscess (stars).

[Ann Emerg Med. 2019;74:e113-e114.]

A 36-year-old woman presented to the emergency department with 2 days of right-thigh pain and swelling that started after injection drug use. She had a temperature of 97.5°F (36.4°C), pulse rate of 115 beats/min, and blood pressure of 113/63 mm Hg; her physical examination revealed erythema and edema along the proximal right thigh, with significant tenderness but no crepitus. Her distal pulses were intact. Laboratory evaluation was significant for a WBC count of  $20.2 \times 10^3/\mu\text{L}$  but was otherwise unremarkable. The emergency physicians performed point-of-care ultrasonography of the right-thigh extremity (Figure 1, Video), and the diagnosis was confirmed with radiography (Figure 2) and computed tomography (CT) (Figure 3).

*For the diagnosis and teaching points, see page e114.*

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## IMAGES IN EMERGENCY MEDICINE

*(continued from p. e113)***DIAGNOSIS:**

*Necrotizing fasciitis.* Soft tissue ultrasonography revealed a thickened fascial plane, a small amount of fascial fluid, and areas of hyperechoic foci within the soft tissue, with dirty shadowing, consistent with necrotizing fasciitis.<sup>1</sup> The surgical team took the patient immediately to the operating suite for extensive debridement, and after a 10-day hospitalization she was discharged with oral antibiotics, with minimal morbidity.

In experienced hands, sensitivity and specificity for diagnosing necrotizing fasciitis have been reported at 88.2% and 93.3%, respectively,<sup>2</sup> and bedside ultrasonography remains critical in its diagnosis, especially for patients too unstable for alternative imaging.

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