A 62-year-old man presented to the emergency department with acute, atraumatic, swelling of his left ear. Incision and drainage revealed serous fluid without blood or purulence. He was diagnosed with acute perichondritis with an effusion and managed with oral antibiotics. Perichondritis must be recognized and treated promptly to avoid necrosis of the underlying avascular cartilage and auricular deformity. [Clin Pract Cases Emerg Med. 2019;3(4):453–454.]

CASE PRESENTATION
A 62-year-old man presented to the emergency department with one day of painful left ear swelling. He denied preceding trauma or recent instrumentation, but expressed concern that he might have been bitten by a spider while cleaning cobwebs in his basement two days prior. He denied systemic symptoms. The area of swelling was tender and fluctuant with mild overlying erythema (Image 1). Point-of-care ultrasound revealed an avascular anechoic fluid collection within the cartilaginous layer of the ear (Image 2).

Incision and drainage revealed serous fluid without blood or purulence. This fluid was sent for culture, and the incisional wound was closed with non-absorbable sutures. A xeroform bolster was then sutured through-and-through the contours of the antihelix with gauze buttressed behind the ear to prevent formation of an auricular hematoma. The patient was...
diagnosed with acute auricular perichondritis with an effusion and discharged with amoxicillin-clavulanate.

The patient’s culture grew methicillin-sensitive Staphylococcus aureus. He completed the course of antibiotics and had complete resolution of his symptoms and the fluid collection by his second otolaryngology follow-up appointment 14 days later.

**DISCUSSION**

Acute auricular perichondritis is an infection of the pinna that involves the cartilage and subcutaneous tissue but spares the lobule. Most cases of perichondritis result from minor trauma, often after piercings or insect bites. Pseudomonas aeruginosa is the most common organism isolated but Staphylococcus aureus can also be causative, primarily after piercings. In the absence of infection, perichondritis – particularly recurrent perichondritis may herald underlying immunosuppression.

Perichondritis must be recognized and treated promptly to avoid necrosis of the underlying avascular cartilage and auricular deformity, better known as cauliflower ear. Treatment includes incision and drainage, auricular bolster placement and oral antibiotics with Pseudomonas coverage. All patients should follow up with otolaryngology for repeat wound evaluation and to ensure appropriate infection control.

Documented patient informed consent and/or Institutional Review Board approval has been obtained and filed for publication of this case report.

**REFERENCES**