

The Dangers of Barbecuing: An Interesting Case of a Foreign Body in the Throat

Vincent R. Sicari, DO
Joseph Pepe, DO
Alfonso C. Cardenas Jr., MD
Christopher Zabbo, DO

Kent Hospital, Department of Emergency Medicine, Warwick, Rhode Island

Section Editor: Scott Goldstein, DO

Submission history: Submitted December 28, 2018; Revision received March 24, 2019; Accepted April 1, 2019

Electronically published May 29, 2019

Full text available through open access at http://escholarship.org/uc/uciem_cpem

DOI: 10.5811/cpcem.2019.4.42105

Swallowing of foreign bodies (FB), and sensation of such in the throat, is a common complaint in the emergency department setting, with roughly 80,000 visits in 2010 for FB ingestion.¹ Grill wire brushes are a rarely reported, accidental FB ingestion, although recent literature suggests that it is more common than initially thought.² This is a report of a female with acute onset odynophagia after a meal, with a normal laryngoscopic exam that used flexible fiberoptics. Evidence of a metallic linear density was present in the retropharynx on computed tomography imaging, most consistent with a wire from a grill wire brush. [Clin Pract Cases Emerg Med. 2019;3(3):301-302.]

CASE PRESENTATION

A 36-year-old-female presented to the emergency department with a one-day history of sharp pain in her throat that began immediately after swallowing food. Her vital signs, chest radiograph, and physical exam were unremarkable. She was discharged home after flexible fiberoptic visualization of her posterior oropharynx was normal. Her symptoms had subsided after treatment with viscous lidocaine. After she returned four days later with odynophagia, neck computed tomography (CT) was performed that showed a two-centimeter linear, radiopaque metallic density within the retropharyngeal soft tissues with effusion (Images 1 and 2).

DISCUSSION

The patient was diagnosed with a retropharyngeal effusion caused by a retained foreign body (FB). She was taken to the operating room by otolaryngology; however, an attempt at retrieval was unsuccessful. She was subsequently transferred to a facility with head and neck surgery for the retrieval. On her first day of symptoms she did recall using a grill-wire brush prior to placing the food she had eaten on the grill, and therefore the FB was thought to be a wire from the brush. Grill wire brushes are a rarely reported, accidental FB ingestion, although recent literature suggests that it is more common than once thought.¹ Recently there have been increasing, albeit few,



Image 1. Computed tomography of the neck soft tissue with intravenous contrast in axial view, showing a linear metallic density with surrounding retropharyngeal effusion (white arrow).

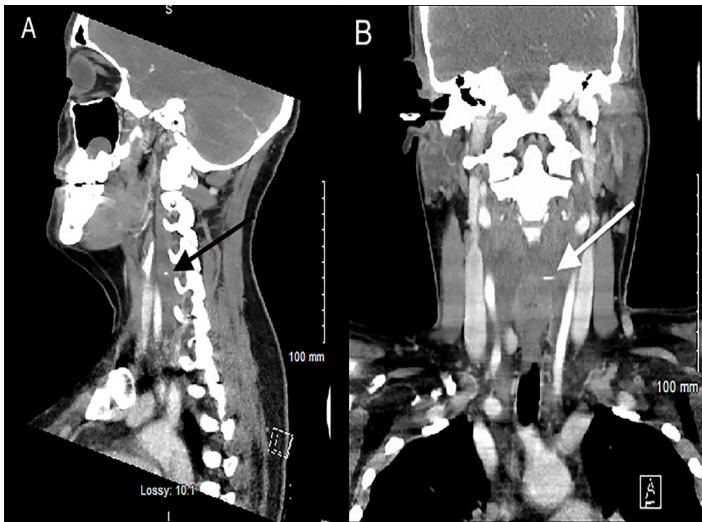


Image 2. Computed tomography of the neck soft tissue with intravenous contrast in sagittal (A) and coronal (B) views. A linear metallic density with surrounding retropharyngeal effusion is visible: (A) (black arrow) and (B) (white arrow).

case reports describing grill-wire brush ingestion and their potential complications, which include esophageal perforation, effusion, abscess, and death.^{2,3,4} This case demonstrates that patients with a clinical history suggestive of grill-wire brush FB should be considered for CT imaging, even in the absence of other physical findings.

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

REFERENCES

1. Marx JA and Rosen P. (2014). *Rosen's Emergency Medicine: Concepts and Clinical Practice*. 8th ed. Philadelphia, Pennsylvania: Elsevier/Saunders.
2. Grand DJ, Cloutier DR, Beland MD, et al. Inadvertent ingestion of wire bristles from a grill cleaning brush: radiologic detection of unsuspected foreign bodies. *AJR Am J Roentgenol*. 2012;198(4):836-9.
3. Campisi P, Setwart C, Forte V. Penetrating esophageal injury by ingestion of a wire bristle. *J Pediatr Surg*. 2005;40(10):e15-6.
4. Arganbright JM, Bruegger DE, Sykes KJ, et al. Wire grill brush bristle as an unusual foreign body: Report of two pediatric cases. *Laryngoscope*. 2012;122(3):685-7.

CPC-EM Capsule

What do we already know about this clinical entity?

Foreign body (FB) sensation in the throat is typically a benign condition. Grill wire brush ingestions are a rarely reported accidental FB ingestion but more common than once thought.

What is the major impact of the image(s)?

An accurate patient history and a high index of suspicion for this rare ingestion will decrease the delay in diagnosing this potentially life-threatening condition.

How might this improve emergency medicine practice?

Probing further into patient history, and adding contrast-enhanced imaging to plain radiographs, would help delineate this condition and its associated complications.

Address for Correspondence: Vincent R. Sicari, DO, Kent Hospital, Department of Emergency Medicine, 455 Toll Gate Rd, Warwick, RI 02886. Email: vsicari@kentri.org.

Conflicts of Interest: By the CPC-EM article submission agreement, all authors are required to disclose all affiliations, funding sources and financial or management relationships that could be perceived as potential sources of bias. The authors disclosed none.

Copyright: © 2019 Sicari et al. This is an open access article distributed in accordance with the terms of the Creative Commons Attribution (CC BY 4.0) License. See: <http://creativecommons.org/licenses/by/4.0/>