DOI: 10.1002/emp2.12326

IMAGES IN EMERGENCY MEDICINE

Trauma

Young man with dysphagia

Joshua J. White¹ | J.D. Escobedo¹ | Joe Endemano¹ | Michael Brodeur¹ | J.D. Cambron²

¹ Department of Emergency Medicine, CHRISTUS Health-Texas A&M College of Medicine-Spohn Emergency Medicine Residency, Corpus Christi, Texas, USA

² Department of Emergency Medicine, Pella Regional Health Center, Pella, Iowa, USA

Correspondence

Joshua J. White, DO, CHRISTUS Health-Texas A&M College of Medicine-Spohn, 600 Elizabeth St. 9B, Corpus Christi, TX 78404, USA. Email: drjoshuajwhite@gmail.com

1 | PATIENT PRESENTATION

A 28-year-old man with a history of multiple emergency department presentations related to foreign body ingestion secondary to uncontrolled schizophrenia presents with a complaint of dysphagia for the past 2 weeks. The patient's vital signs were as follows: temperature, 101.6°F; heart rate, 131 bpm; blood pressure, 150/75 mm Hg, and RR, 18. Physical examination revealed a small -1- cm wound in the mid-sternum with overlying granulation tissue. Anteroposterior and

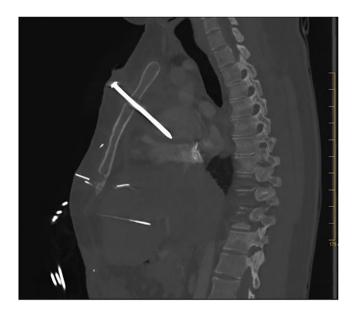


FIGURE 1 Computed tomography angiography of the chest revealed an 8.7 cm metallic nail penetrating the sternum



JACEP OPEN

WILEY

FIGURE 2 Lateral radiograph identifies metallic foreign body that has penetrated through the sternum and mediastinum

lateral chest X-rays revealed a foreign body projecting through the mediastinum (Figure 2). Computed tomography angiography of the chest revealed an 8.7 cm metallic nail penetrating the sternum with a surrounding anterior mediastinal hematoma measuring 7.2×4.6

This is an open access article under the terms of the Creative Commons Attribution-NonCommercial-NoDerivs License, which permits use and distribution in any medium, provided the original work is properly cited, the use is non-commercial and no modifications or adaptations are made. © 2020 The Authors. JACEP Open published by Wiley Periodicals LLC on behalf of the American College of Emergency Physicians.

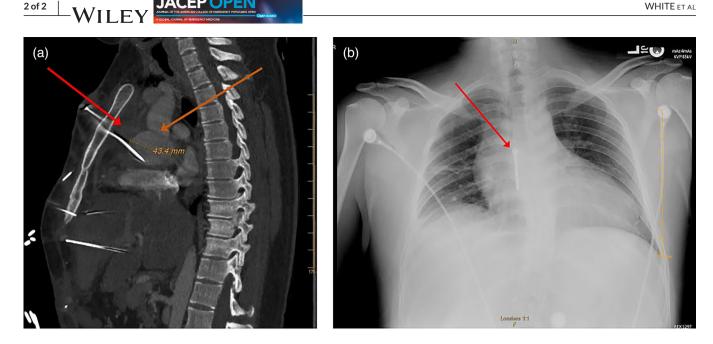


FIGURE 3 A (red arrow) identified a surrounding anterior mediastinal hematoma measuring 7.2 × 4.6 cm. B (Orange arrow) The distal nail is seen lying within a pseudo-aneurysm of the ascending aorta measuring 4.4 × 4.3 cm. The tip of the arrow points to the intimal flap

(Figures 1, 3A, red arrow). The distal nail is seen lying within a pseudoaneurysm of the ascending aorta measuring 4.4×4.3 cm (Figure 3B, measurement shown with orange arrow pointing toward intimal flap). The distal nail is seen lying within a pseudo aneurysm of the ascending aorta (Figure 3A). The patient was emergently taken to the operating room where the nail was identified and extracted. Purulent drainage and large emboli were noted around the distal nail. A 1.5-inch diameter opening of the aortic wall was appreciated and was subsequently repaired with a Cormatrix patch. Further history obtained revealed that the patient used a nail gun to self-inflict this wound 2 weeks prior to presentation.

2 DIAGNOSIS

2.1 Dysphagia aortica-self-inflicted aortic injury

Due to the proximity of the aorta to the esophagus, a variety of aortic abnormalities can cause dysphagia including aortic dissections and aortic aneurysms.¹ Choosing to evaluate for a suspected benign etiology

of dysphagia without considering this more sinister cause can lead to delays in diagnosis and increased morbidity and mortality when aortic injury is present.² Additionally, chronicity of dysphagia cannot successfully rule out aortic abnormalities as this patient had been ambulatory for 2 weeks. Although rare, pathology of the aorta has been demonstrated to cause chronic dysphagia.³

REFERENCES

- Abdul Haziz SR, Bickle I, Chong VH. Dysphagia aortica: a rare cause of dysphagia. Case Rep. 2015;2015:bcr2015211726.
- Perheentupa U, Kinnunen I, Kujari H, Grénman R, Mäkitie AA. Acute dysphagia associated with aortic dissection: a case report and review of the literature. Acta Oto-Laryngologica. 2010;130(5):637-640.
- Choi SHJ, Yang GK, Gagnon J. Dysphagia aortica secondary to thoracoabdominal aortic aneurysm resolved after endograft placement. J Vasc Surg Cases Innov Tech. 2019;5(4):501-505.

How to cite this article: White JJ, Escobedo JD, Endemano J, Brodeur M, Cambron JD. Young man with dysphagia. *JACEP Open*. 2021;2:e12326. https://doi.org/10.1002/emp2.12326