

Aorto-Esophageal Fistula Management after Denture Erosion and Esophageal Stent Placement

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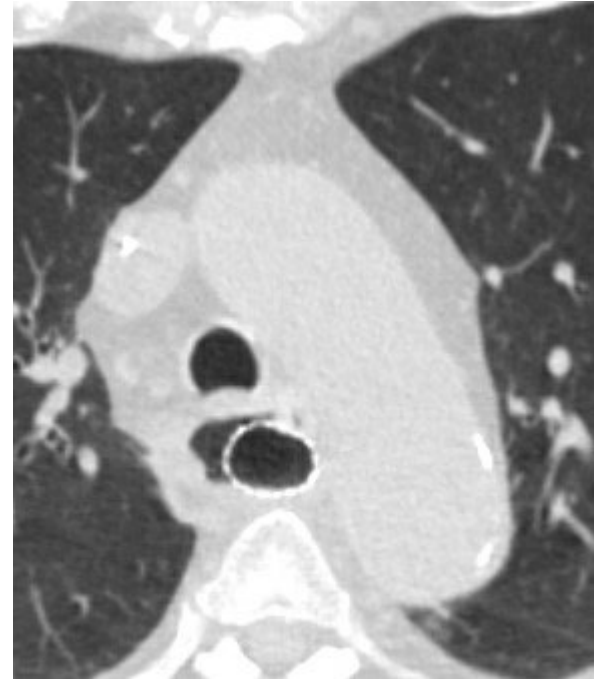
April 30, 2022



No Disclosures

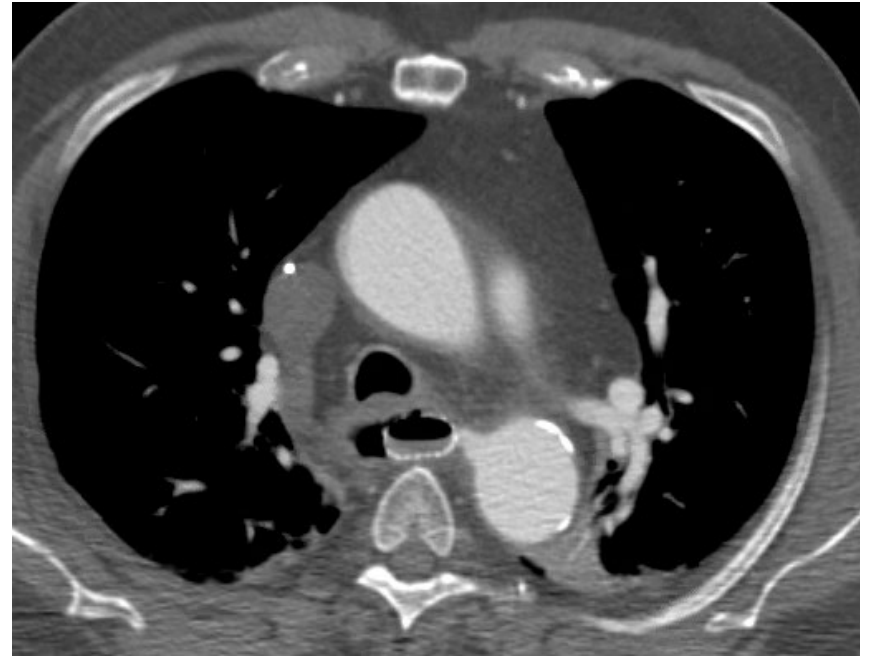
Case Report

- 75 y/o M presented to OSH with dysphagia, chest pain, fevers, chills
- Found to have contained esophageal perforation, covered with esophageal stent



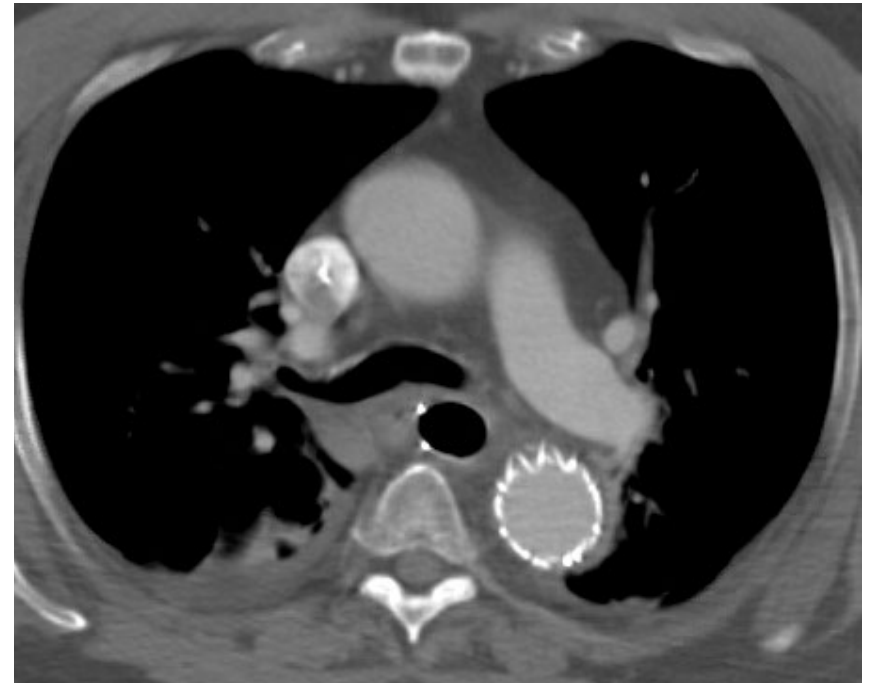
Case Report

- Episode of hematemesis with melanotic stool
- CTA ordered showing aorto-esophageal fistula
- Transferred to UTMCK, tertiary referral hospital



Treatment

- In extremis upon arrival
BP 91/60, HR 105, O2
Sat 100% on 50% FiO2
- 34x34x10 Gore TAG
stent graft distal to left
subclavian
- Completion aortogram
and repeat CTA showed
no endoleak or
extravasation



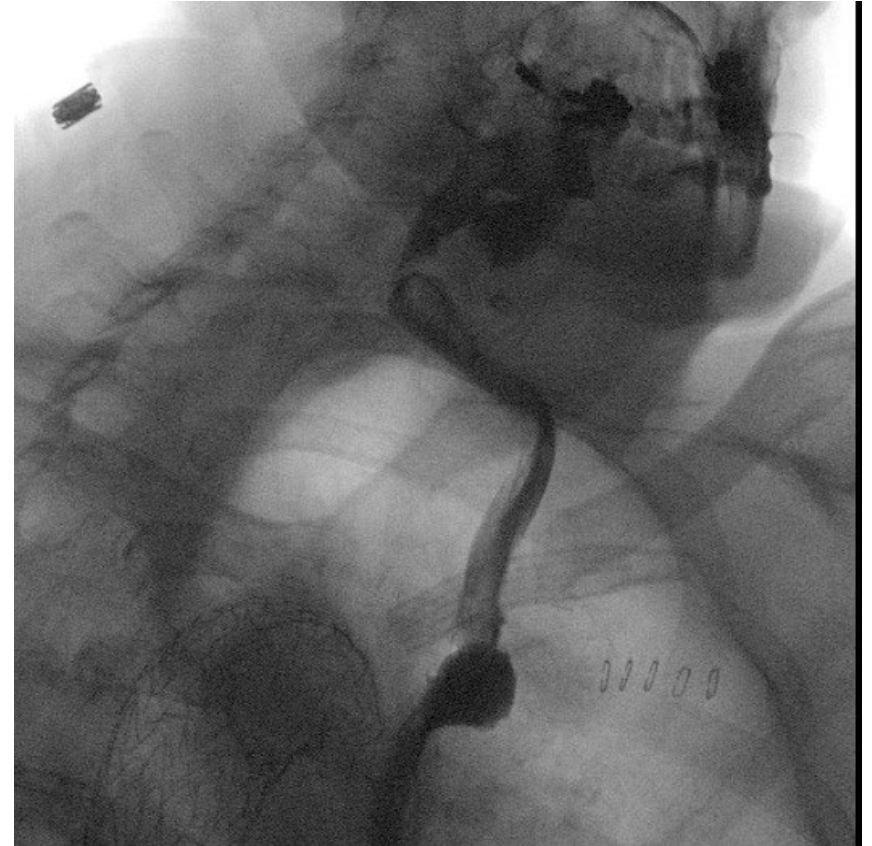
Treatment

- Transferred to ICU, resuscitated, placed on Vancomycin, Zosyn, and Eraxis for broad spectrum and anti-fungal coverage
- Taken for esophagectomy with cervical esophagostomy and distal feeding tube 3 days later
- Discharged to SNF 22 days after arrival



Treatment

- 6 months after initial surgery: Esophago-gastrostomy via anterior mediastinal approach
- No signs of fistula or endoleak on repeat CTAs
- Tolerating diet, maintaining weight



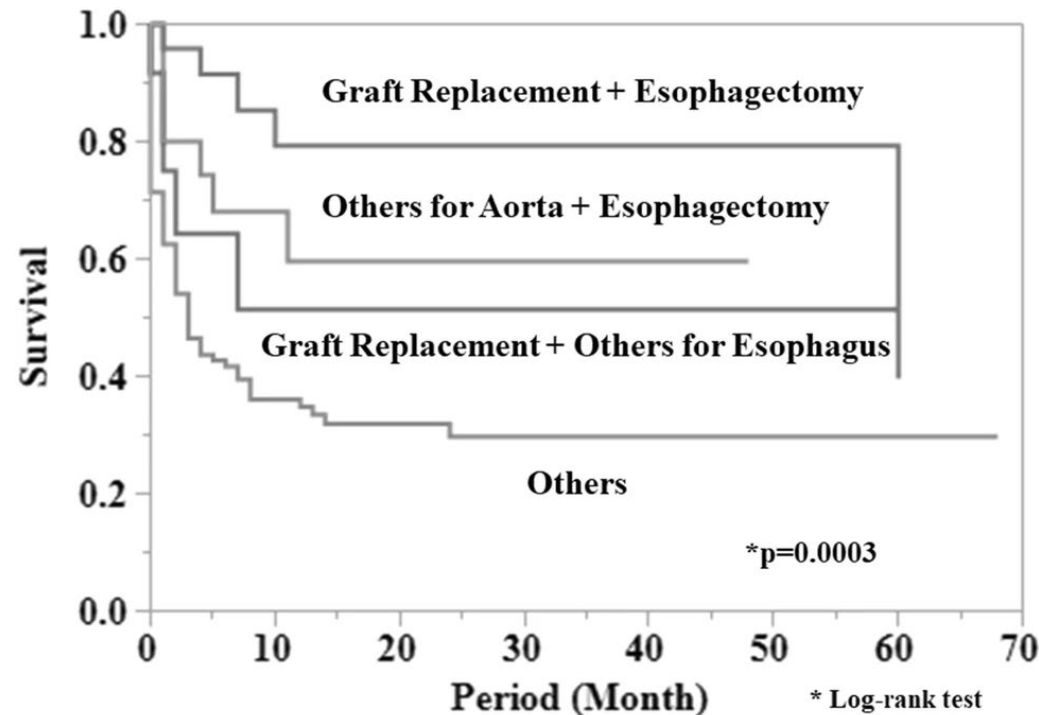
Long-term Follow-up

- 3.8 years since initial presentation
- Lifelong doxycycline for prophylaxis
- Repeat CTA chest in 2 years



Current Aorto-Esophageal Fistula Management

- Extremely rare
- Near 100% mortality if untreated
- TEVAR "gold standard" for damage control
- Need more definitive esophageal surgery
- Mandatory antibiotic coverage after TEVAR



Takeo et al. Aortoesophageal fistula: review of trends in the last decade. *Surg Today* 50, 1551–1559 (2020).

Summary

- Aorto-esophageal fistulas have near 100% mortality if untreated and an all-cause mortality of 40% at 6 months with treatment
- TEVAR alone is not definitive treatment and will likely result in recurrent AEF or infection/mediastinitis/sepsis if esophagus is not treated
- Early recognition/planning in multi-disciplinary fashion should be undertaken to improve survival



Questions?

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References

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- Jonker FHW, Schlösser FJV, Moll FL, et al. Outcomes of Thoracic Endovascular Aortic Repair for Aortobronchial and Aorto-esophageal Fistulas. *Journal of Endovascular Therapy.* 2009;16(4):428-440. doi:10.1583/09-2741R.1
- Takeno, S., Ishii, H., Nanashima, A. *et al.* Aorto-esophageal fistula: review of trends in the last decade. *Surg Today* **50**, 1551–1559 (2020). <https://doi.org/10.1007/s00595-019-01937-z>