

# Ortner's Syndrome and Dysphagia Aortica: The Importance of a Comprehensive Swallow Evaluation

## Introduction

### Ortner's Syndrome

- Hoarseness from the compression of the left recurrent laryngeal nerve (RLN) by enlarged cardiovascular structures.
- The left RLN is vulnerable due to its long intrathoracic course around the aortic arch.
- Compression may be due to mitral stenosis, left atrial enlargement, aortic aneurysm, pulmonary hypertension, aortic dissection, etc.
- Symptoms include hoarseness, dyspnea, dysphagia, chest pain, etc.

### Dysphagia aortica

- Esophageal compression caused by a dilated or aneurysmal thoracic aorta, leading to dysphagia and odynophagia.
- Seen in many elderly patients.
- Can coexist with Ortner's syndrome if the same aortic pathology is leading to the compression of the left RLN and the esophagus.

### Clinical Relevance

- Both conditions are rare but important differentials to consider for unexplained dysphagia, odynophagia, and hoarseness in patients with cardiovascular disease.

## Case Presentation

A 90yoF presented with **dysphonia** diagnosed as **vocal fold paralysis** secondary to an **aortic arch aneurysm**. She underwent injection medialization of the left vocal fold with improved glottic efficiency and voice quality. Despite this, she continued to complain of **persistent dysphagia, throat clearing, and chronic pharyngeal discomfort** over the following two years. Given the persistence of her symptoms in the setting of a known thoracic aneurysm, she was referred for further evaluation.



Figure 1. Esophageal sweep showed external compression of the mid-esophagus, consistent with her known aneurysm.

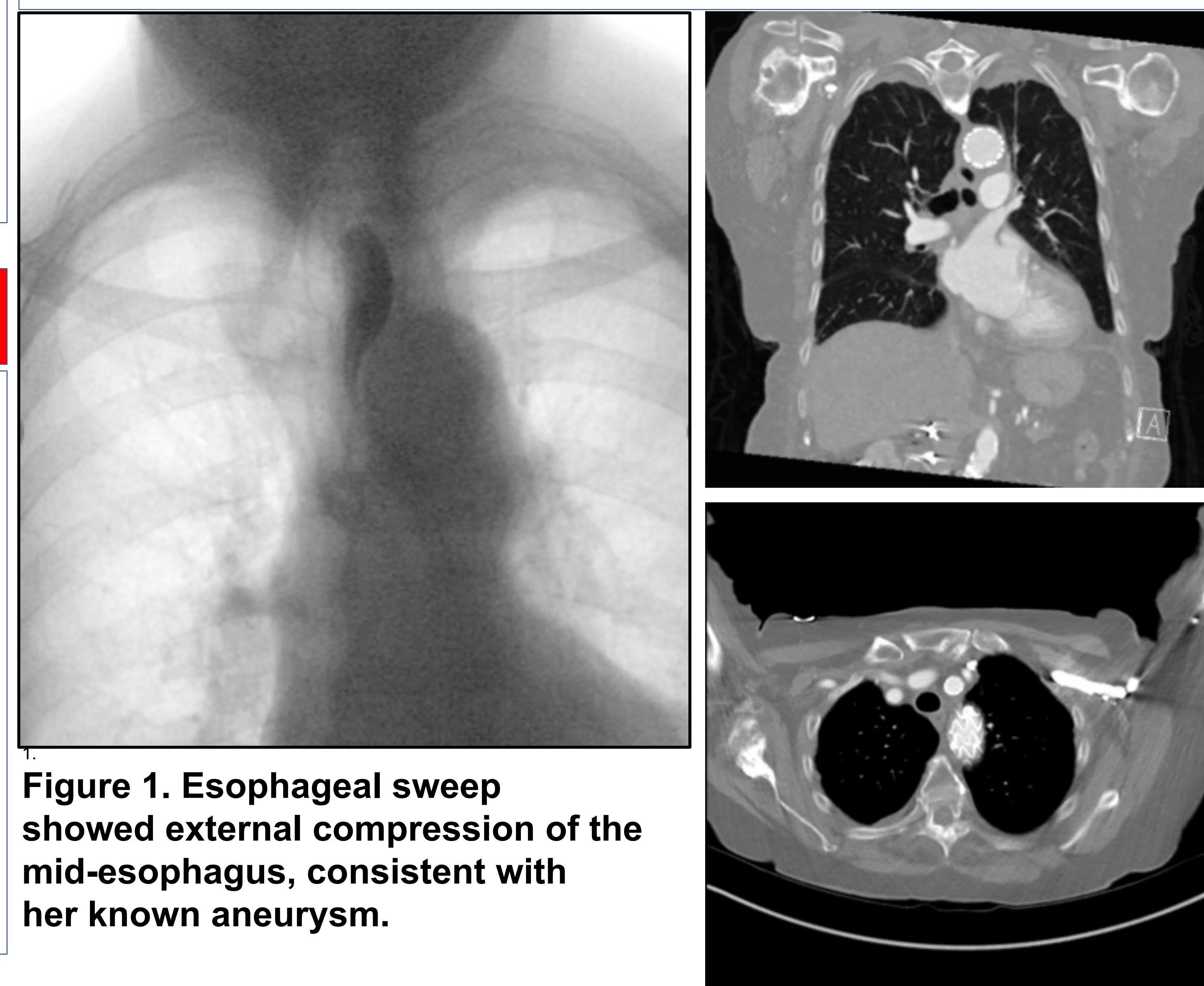


Figure 2. Computed Tomography (CT) showing stent placement endovascular repair of aortic aneurysm.

## References

1. Grimaldi S, Milito P, Lovece A, Asti E, Secchi F, Bonavina L. Dysphagia aortica. Eur Surg. 2022;54(5):228-239. doi: 10.1007/s10353-021-00741-9. Epub 2021 Nov 9. PMID: 34777488; PMCID: PMC8577181.
2. Abdelrahman A, Elgassim M, Ahmed A, Al-Hatem M, Abdalla EM, Zaki HA. Case report: Dysphagia aortica. Radiol Case Rep. 2024 Aug 27;19(11):5280-5283. doi: 10.1016/j.radcr.2024.07.116. PMID: 39280734; PMCID: PMC11399785.
3. Francisco Vara-Luiz, Eduardo Fernandes, Fábio Pé D'Arca Barbosa, Ana Albuquerque, Ana Valada Marques, Jorge Fonseca; Dysphagia Aortica: An Uncommon and Potentially Life-Threatening Condition. GE Port J Gastroenterol 5 December 2023; 30 (6): 468-470.

## Acknowledgements

We would like to thank the patient for contributing to our research and allowing us to contribute to their care.