AMSER Case of the Month:

92 year old female with difficulty swallowing



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Patient Presentation

• CC/HPI: 92 year old female presents with increasing trouble swallowing and a feeling of a lump in the throat

 Past medical history: hiatal hernia, upper respiratory tract fungal infection

Past Surgical hx: noncontributory



Differential

- Peptic stricture
- Scleroderma
- Achalasia
- Diffuse esophageal spasm
- Diverticulum

What Imaging Should We Order?



Select the applicable ACR Appropriateness Criteria

Clinical Condition:

Dysphagia

Variant 1:

Oropharyngeal dysphagia with an attributable cause.

Radiologic Procedure	Rating	Comments	RRL*
X-ray barium swallow modified	8		♦ ♦ ♦
X-ray pharynx dynamic and static imaging	6		♦ ♦ ♦
X-ray biphasic esophagram	4	Perform this procedure with double contrast and single contrast.	⋄ •
X-ray barium swallow single contrast	4		€ € €
Tc-99m transit scintigraphy esophagus	2		₩ ₩ ₩
Rating Scale: 1,2,3 Usually not appropriate; 4,5,6 May be appropriate; 7,8,9 Usually appropriate			*Relative Radiation Level

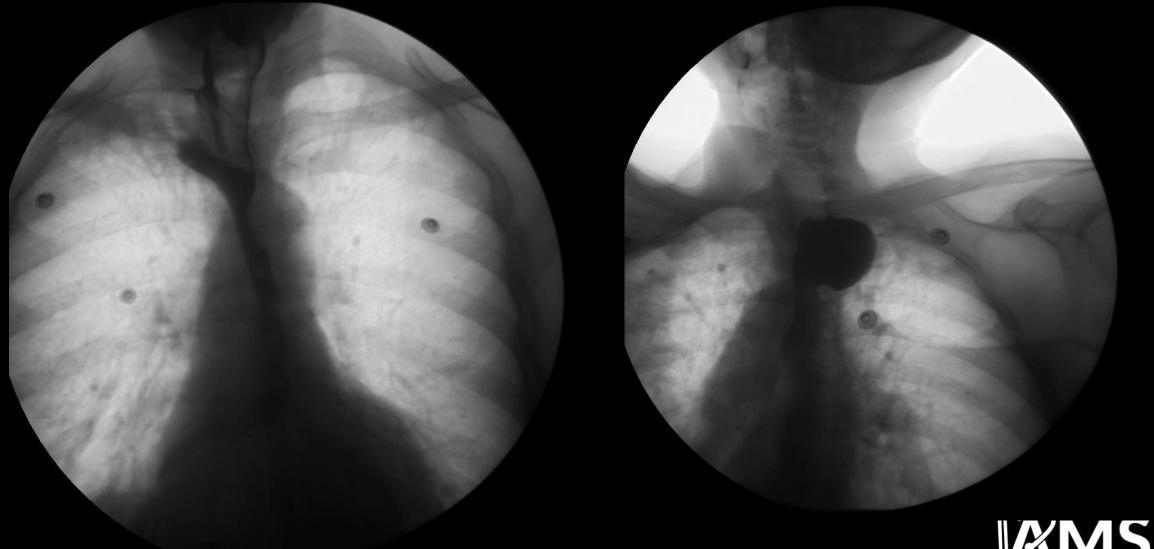


Radiologic Procedure	Rating	Comments	RRL*
X-ray pharynx dynamic and static imaging	8	In this procedure both pharyngeal and esophageal examinations are needed since the patient may have referred dysphagia.	⊕⊕⊕ <
X-ray biphasic esophagram	8	In this procedure both pharyngeal and esophageal examinations are needed since the patient may have referred dysphagia. Perform this procedure with double contrast and single contrast.	� � ≎
X-ray barium swallow modified	6		♦ ♦
X-ray barium swallow single contrast	6		₩ ₩
Tc-99m transit scintigraphy esophagus	4		� � �
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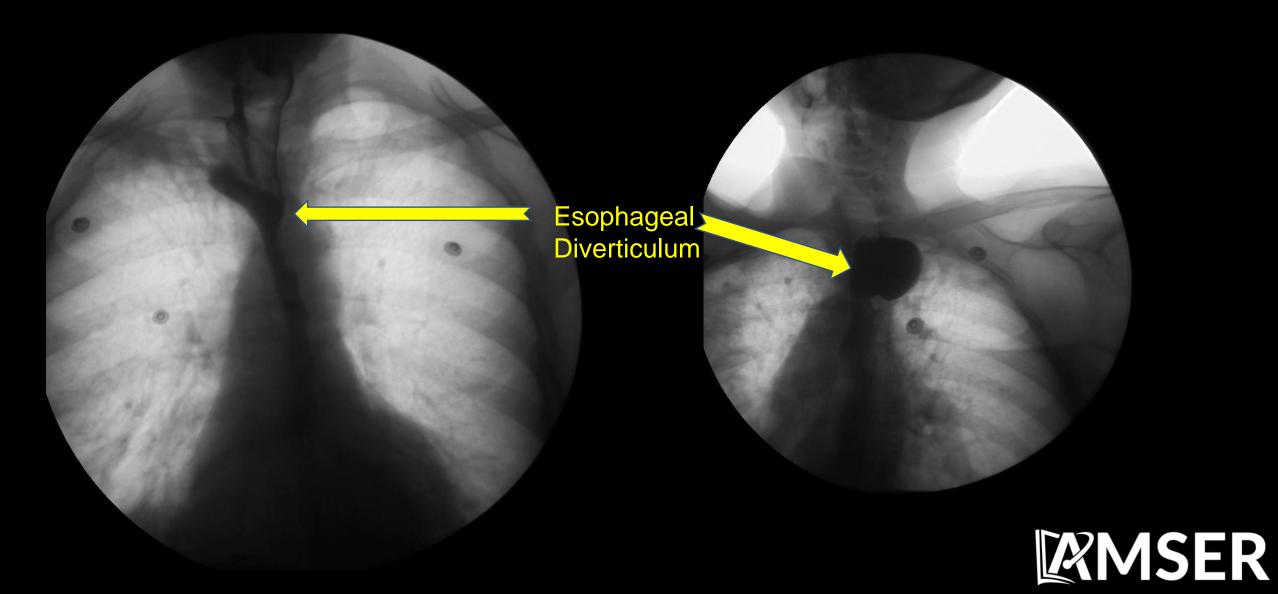
This imaging modality was ordered by the physician

Findings (unlabeled)

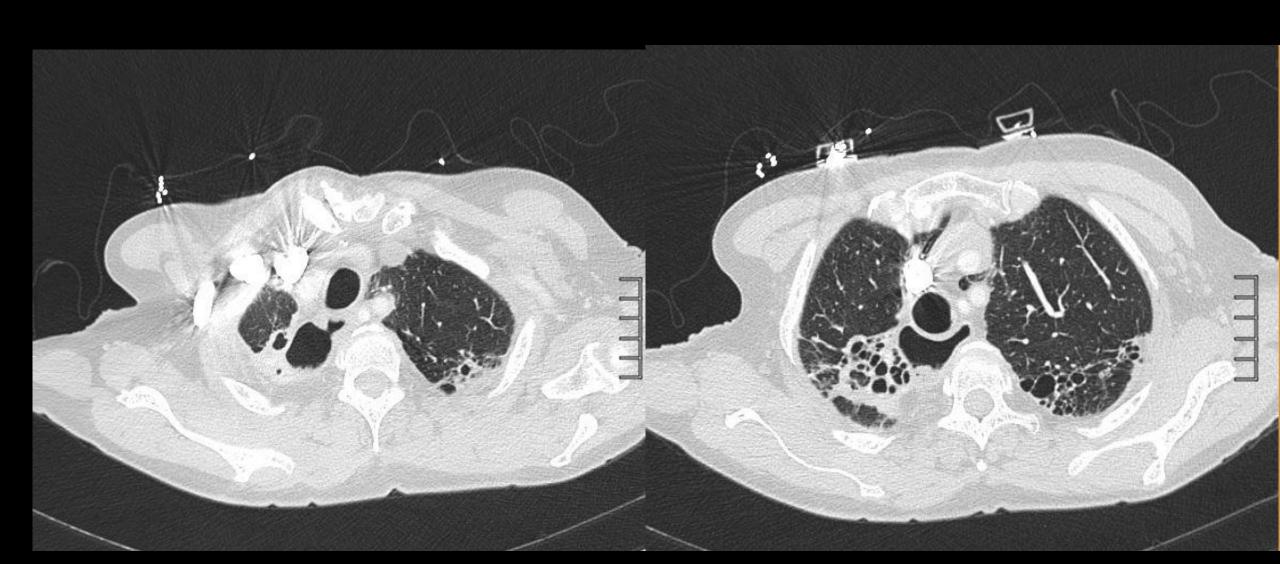


MMSER

Findings: (labled)

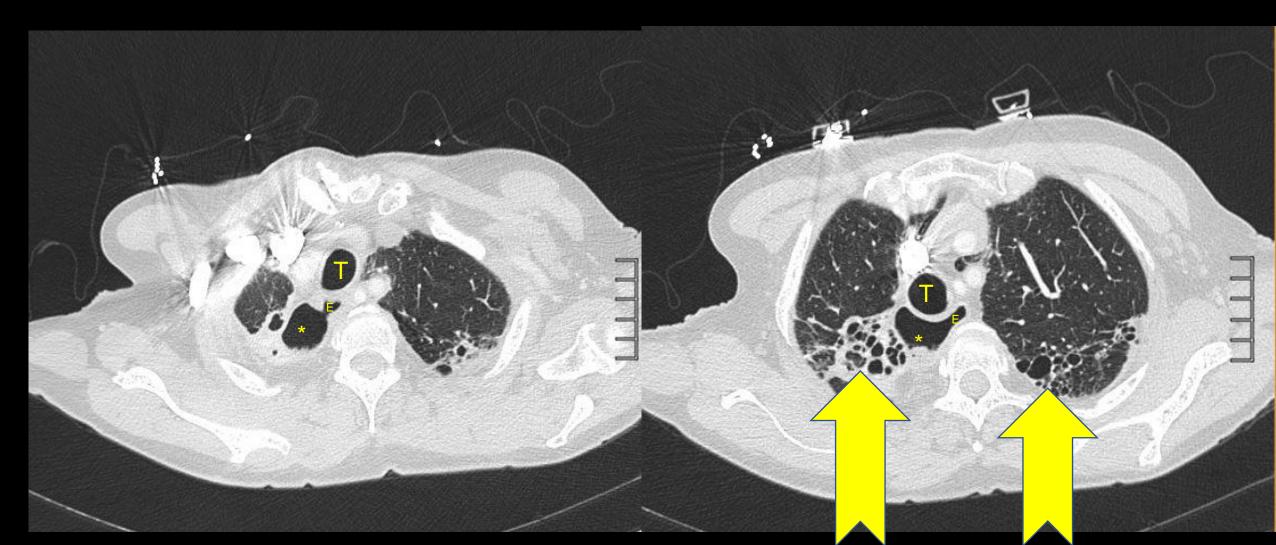


Previous CT



Findings

Outpouching/diverticulum (*) off of the tracheal esophagus (E) related to fibrotic changes in the upper lobes (arrows), presumably from old granulomatous disease. Note the midline trachea (T)



Final Dx:

Traction Diverticulum



Case Discussion

- Diverticulum formed by pulling force of contracting bands of adhesion
- Often a result from tuberculosis or mediastinal lymphadenitis
- Patients often present with dysphagia or recurrent aspiration
- Increased risk of ulceration and fistulation
- Depending on severity of symptoms, main treatment would be surgical with a potential follow up esophageal myotomy



References:

NCBI: Ballehaninna UK, Shaw JP, Brichkov I. Traction esophageal diverticulum: a rare cause of gastro-intestinal bleeding. *SpringerPlus*. 2012;1(1):50. doi:10.1186/2193-1801-1-50.

ACR Appropriateness Criteria: https://acsearch.acr.org/docs/69495/Narrative/

Clinical Radiology: The Essentials. Dr. Richard H. Daffner, Dr. Matthew Hartman, Fourth Edition.

