

Search strategy

A comprehensive, computerized research study was performed on PubMed (National Library of Medicine, Bethesda, MD), as published from the 1950s to March 1, 2020 using the keywords (“Myotomy” OR “Myotomies”) AND (“Esopha-

gus” OR “Esophageal” OR “Zenker” OR “Zenker’s” OR “epiphrenic”) AND (“Zenker Diverticulum”[Mesh] OR “Diverticulum”[Mesh] OR “Diverticulum, Esophageal”[Mesh] OR “Diverticulum” OR “Diverticulus”)), in order to search for relevant articles without any language limitations.

Supplementary Table 1. Demographic Data of Patients with Esophageal Diverticulum in Literature Review

Study	Number of subject	Age	Gender	Comorbidity	S/S	Durations after onset (yr)	Location (size, cms)	Etiology	Intervention group	Complication	Δ Eckardt score
Sato et al. (2015) ⁶	1	84	F	N/A	D	30	Thoracic	Idiopathic	S-POEM	N/A	N/A
Chai et al. (2016) ¹³	1	53	F	N/A	N/A	N/A	Epiphrenic (6.1)	Idiopathic	D-POEM	N/A	N/A
Sato et al. (2016) ¹⁴	1	63	F	N/A	D	3	Epiphrenic	Idiopathic	S-POEM	N/A	N/A
Mou et al. (2016) ¹⁵	2	75	F	N/A	D+CT	11	Thoracic	Idiopathic	D-POEM	N/A	6
Otani et al. (2017) ¹²	1	72	F	N/A	D+AR+CT	5	Epiphrenic	Other motility disorders	POEM	N/A	10
Pimentel et al. (2018) ⁷	1	76	F	N/A	D+CT	N/A	Epiphrenic (5.7)	Idiopathic	POEM	N/A	N/A
Wu et al. (2018) ⁸	1	79	F	N/A	D+CT	20	Epiphrenic	Idiopathic	D-POEM	N/A	N/A
Conrado et al. (2018) ⁹	1	52	M	N/A	D+AR	34	Epiphrenic	Other motility disorders	D-POEM	Left pleural effusion + Subcutaneous emphysema	N/A
Nabi et al. (2018) ¹⁰	1	55	M	N/A	D+AR	6	Epiphrenic	Achalasia	POEM	N/A	N/A
Demeter et al. (2018) ¹¹	1	72	F	N/A	D+AR+CT+BWL	N/A	Epiphrenic (9)	Achalasia	POEM	Submucosal leakage	7
Nabi et al. (2019) ⁶	1	75	M	N/A	D+AR	N/A	Epiphrenic	Achalasia	D-POEM	N/A	N/A
Beyna et al. (2019) ⁵	1	63	F	N/A	D+AR+CT+BWL	N/A	Epiphrenic	Achalasia	D-POEM + POEM	N/A	8
Orlandini et al. (2020) ⁴	4	74	F	DM + Horton's disease	D+CT+BWL	4	Epiphrenic (3)	Idiopathic	POEM	Pneumoperitoneum	8
		72	F	DM+HTN+MI	D+CT+BWL	N/A	Epiphrenic (6)	Achalasia	POEM	Pneumoperitoneum + Subcutaneous emphysema	4

Supplementary Table 1. Continued

Study	Number of subject	Age	Gender	Comorbidity	S/S	Durations after onset (yr)	Location (size, cms)	Etiology	Intervention group	Complication	Δ Eckardt score
Rio-Tinto et al. (2020) ³	1	77	M	CKD	D+AR+CT	N/A	Epiphrenic (6)	Idiopathic	POEM	Aspiration pneumonia	6
Kinoshita et al. (2020) ²	14	65	F	N/A	D+AR+CT	N/A	Thoracic (6)	Idiopathic	D-POEM	N/A	3
(median [range])		59	F	N/A	D	10	Epiphrenic	Achalasia	D-POEM + POEM	N/A	8
Bhalla et al. (2020) ¹	1	93	M	N/A	D+AR	2	Epiphrenic	Achalasia	D-POEM + POEM	N/A	N/A
Present case	1	59	F	Asthma + DM	D+AR+CT+BWL	2	Epiphrenic (8)	Idiopathic	D-POEM + POEM	Parapneumonic effusion + Tension pneumothorax	9
Total	34	71	38% M 62% F		100% D 31% AR 38% CT 16% BWL	8 (2–34)	12% Thoracic 88% Epiphrenic 4.0 (2.7–9)	32% Idiopathic 62% Achalasia 6% Others	12% D-POEM + POEM 21% D-POEM 6% S-POEM 61% POEM	21%	

AR, acid regurgitation; BWL, body weight loss; CKD, chronic kidney disease; CT, chest tightness; D, dysphagia; DM, diabetes mellitus; D-POEM, diverticular peroral endoscopic myotomy; HTN, hypertension; MI, myocardial infarction; N/A, not available; POEM, peroral endoscopic myotomy; S-POEM, salvage peroral endoscopic myotomy; S/S, symptoms/signs.

SUPPLEMENTARY REFERENCES

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