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Introduction

High resolution manometry (HRM) is the gold standard for diagnosing esophageal motility disorders

Esophagogastric junction outflow obstruction (EGJOO) identified as an elevated integrated relaxation pressure (IRP) on HRM

EGJOO has a clear management strategy when in line with achalasia and hiatal hernia.

Aim: To compare manometric and clinic features of EGJOO to achalasia and hiatal hernia and see if these measures can help define management strategies

Methods

- Retrospective chart review 2017-2021
- Single tertiary care institution
- EGJOO group refers to those not clearly associated with hiatal hernia or achalasia
- Patients identified using Chicago Classification v3.0
- Comparison: Continuous variables were compared using ANOVA with Turkey post-hoc testing and categorical variables were analyzed with Chi-square tests

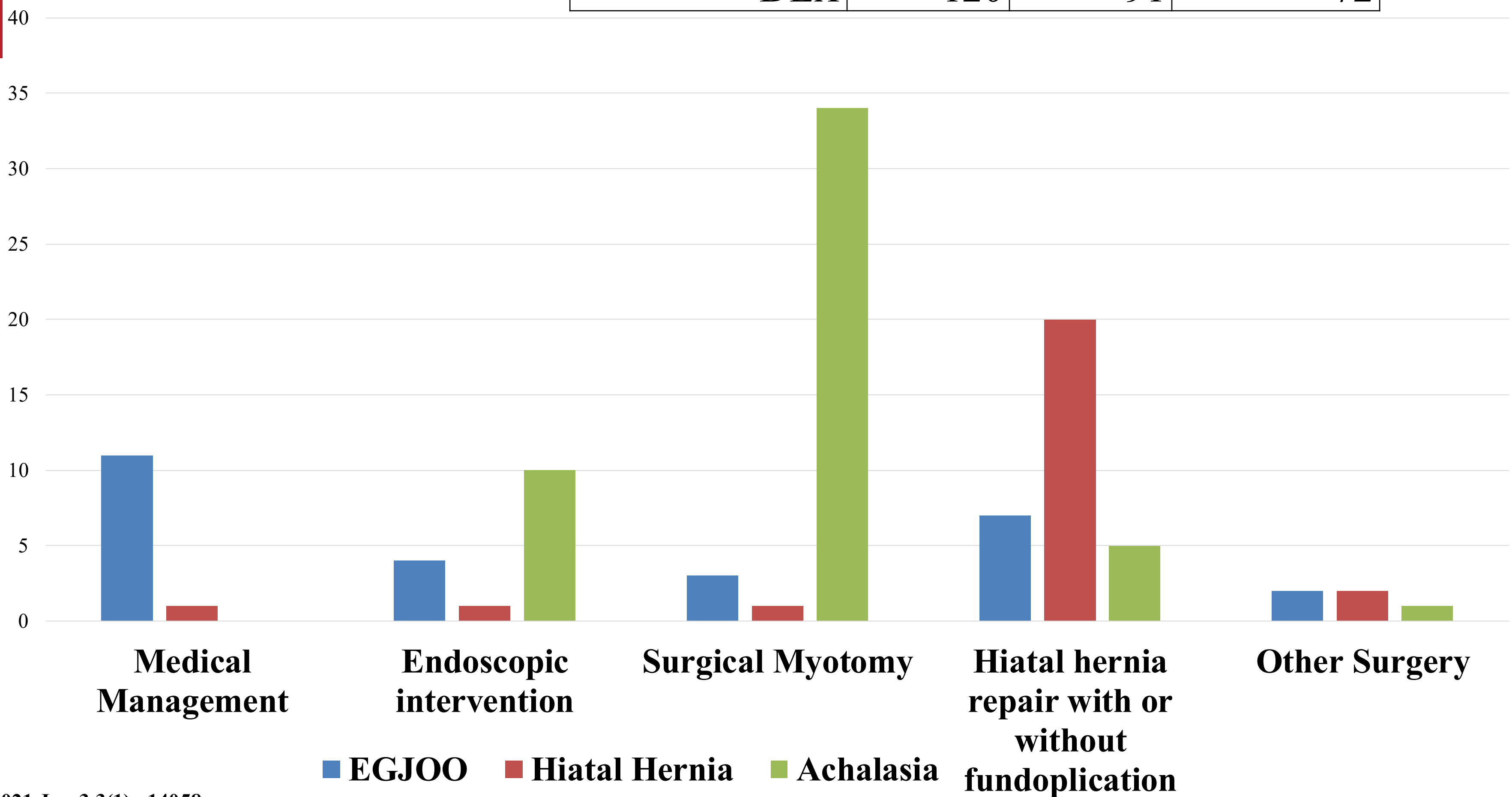
Results

	EGJOO (n= 29)	Hiatal Hernia (n= 23)	Achalasia (n=50)	p-value
BMI	33.15 ± 7.50	29.25 ± 9.86	28.85 ± 5.94	0.06
Age	64.59 ± 12.52	59.74 ± 16.76	61.0 ± 14.06	0.36
Gender				0.03
Female	22	17	25	
Male	7	6	25	
GERD Symptoms	28	22	43	0.19
PPI Use (Yes)	21	12	36	0.2

Figure 1. Patient Characteristics

	EGJOO	Hiatal Hernia	Achalasia
LESP	31	30	48
Median IRP	17	25	34
Median DCI	3337	1524	2475
DEA	120	91	72

Figure 3. Management



- EGJOO trended toward higher BMI
- EGJOO demonstrated preserved peristalsis with higher distal esophageal amplitude and lower IRP’s
- EGJOO was most often managed medically, followed by hiatal hernia repair and endoscopic. Myotomy was least likely intervention.

Figure 4

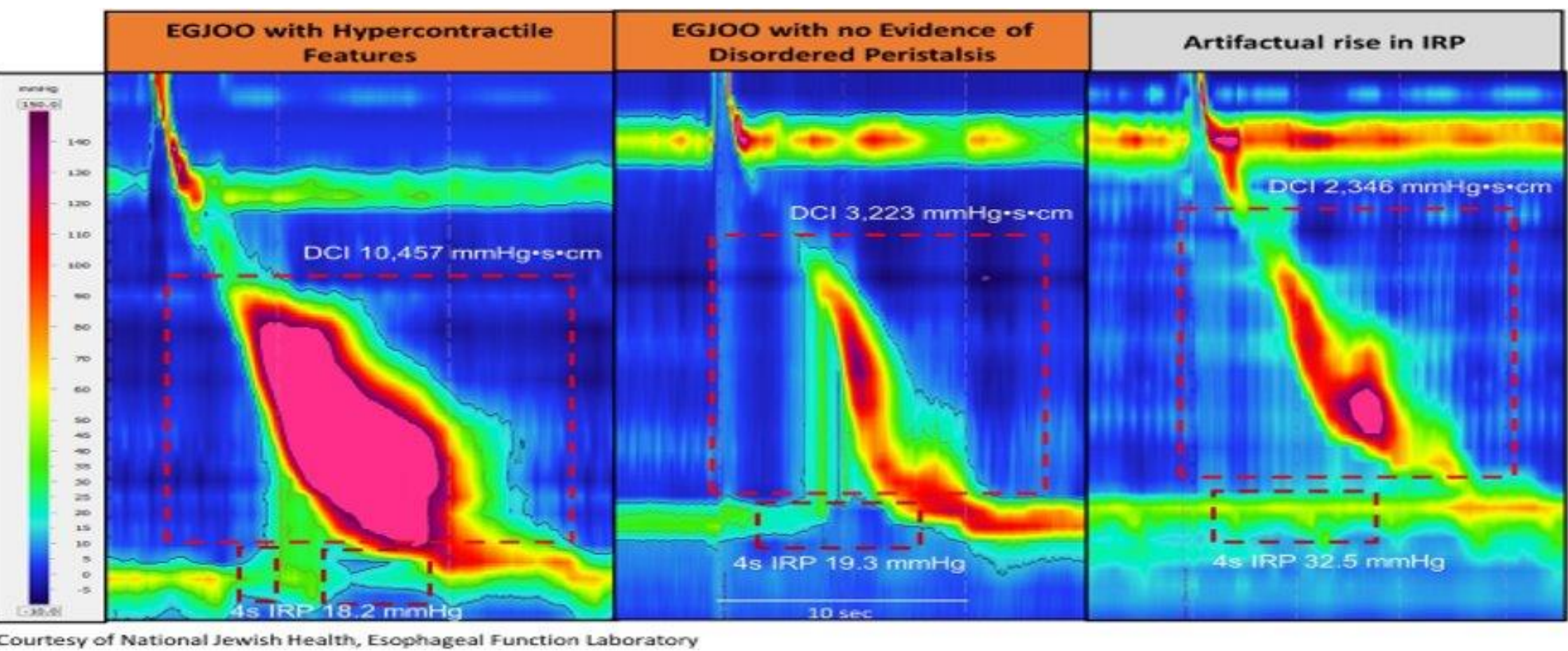


Figure 2. Manometric Findings

Conclusion

- EGJOO manometrically is on a spectrum between achalasia and hiatal hernia with more preserved esophageal function.
- Intervention is unclear in this group and many still managed medically
- Manometry of EGJOO more closely resembles hiatal hernia in terms of LESP and Median IRP and management is reflected with these findings
- EGJOO remains a challenging diagnosis to determine the most effective intervention.