

# SMALL AND UNUSUAL

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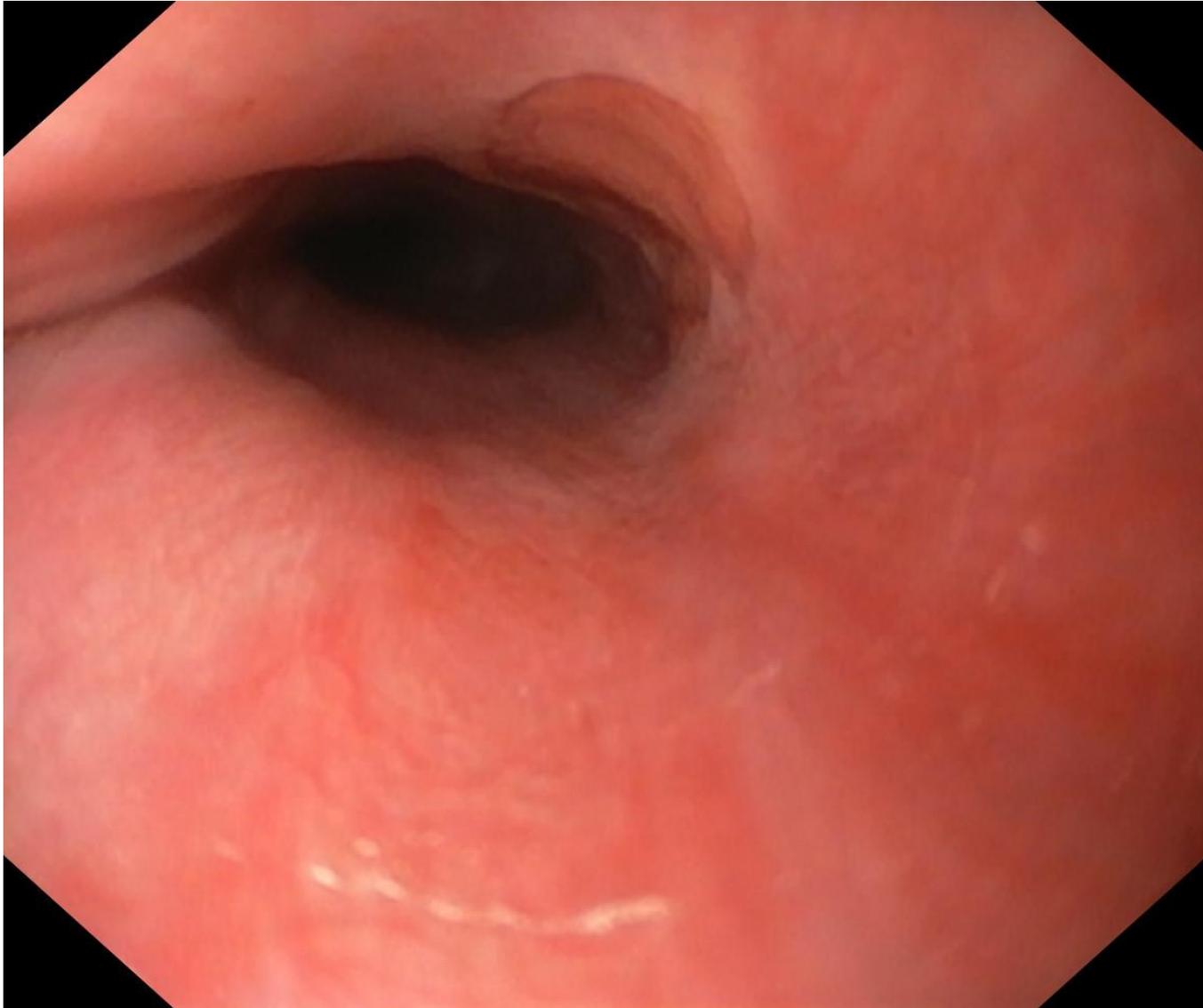
Chani Topf

Kaplan Medical Center

# Case presentation:

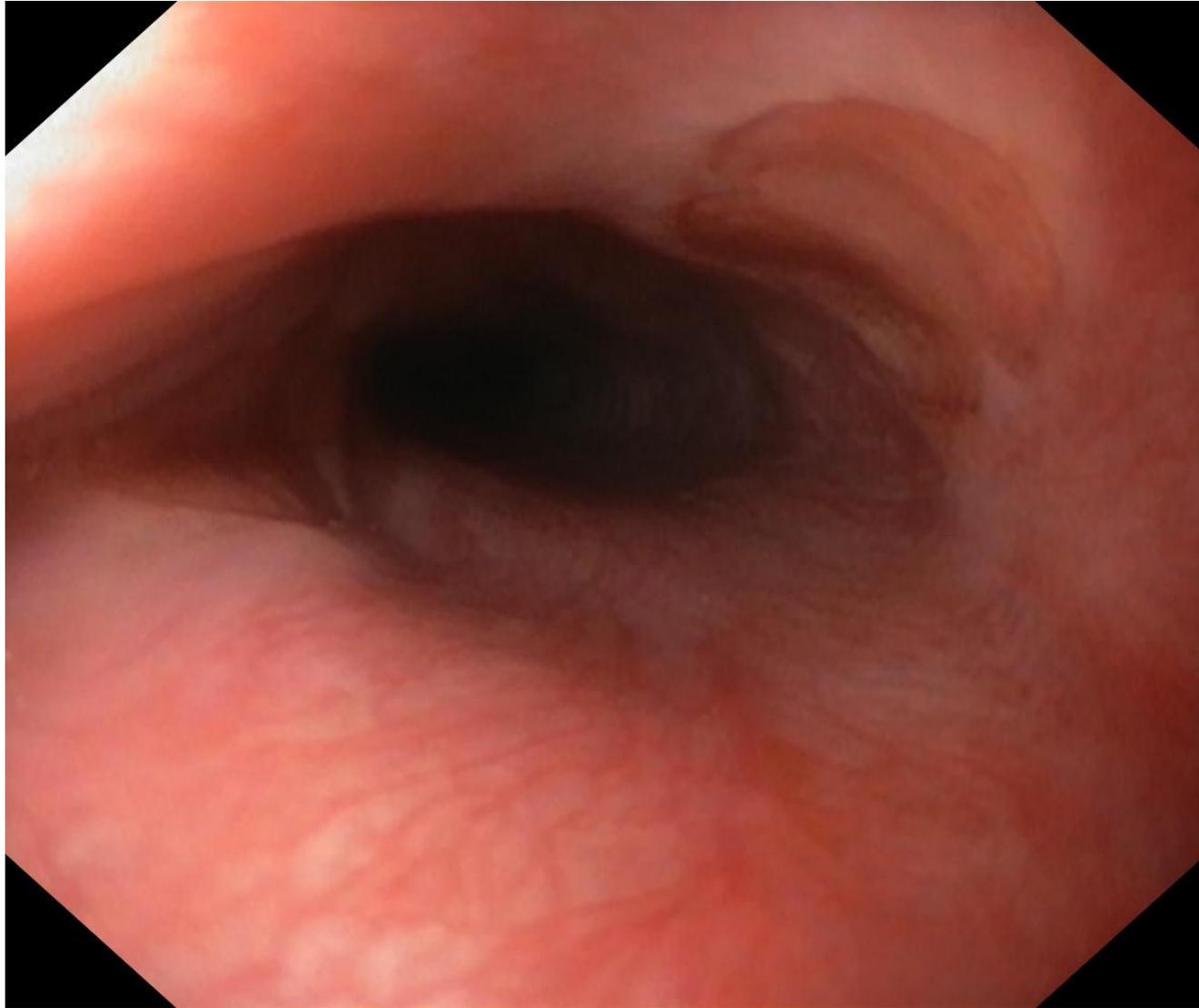
- A healthy 14 year old female
- Referred due to epigastric pain
- Normal physical examination
- Normal initial lab work up

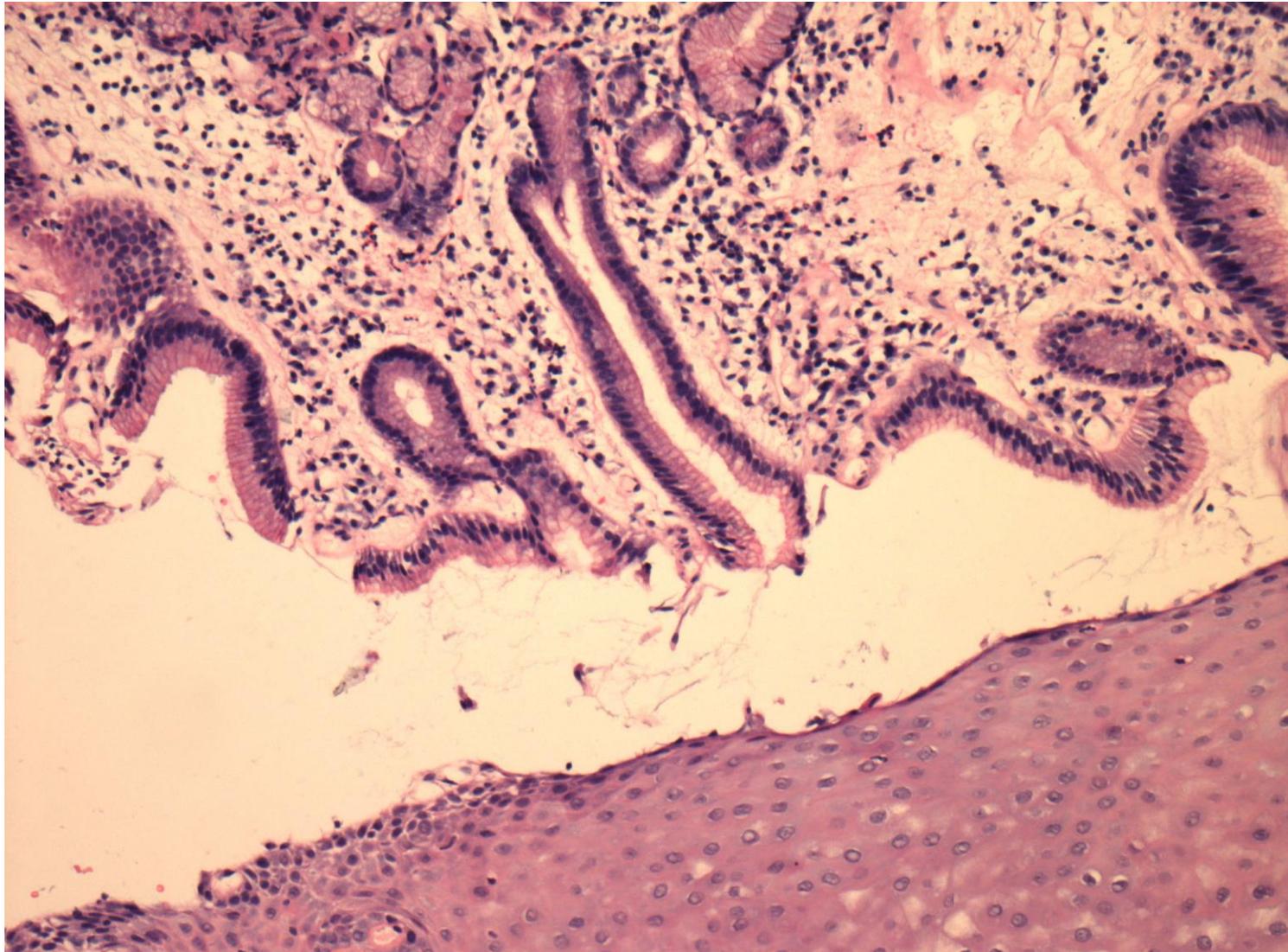
EGD – 28.04.2015



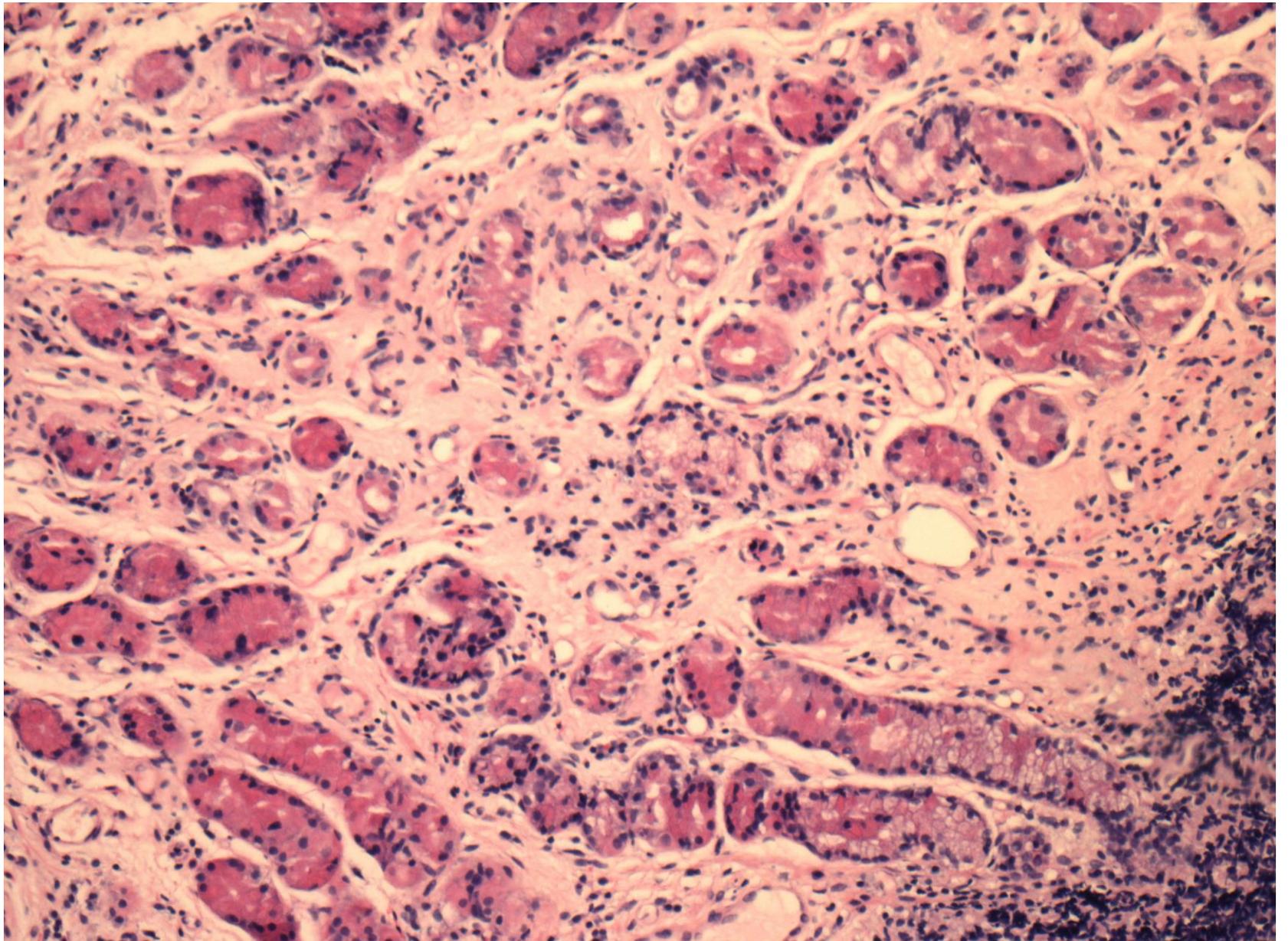


EGD 02.09.2015





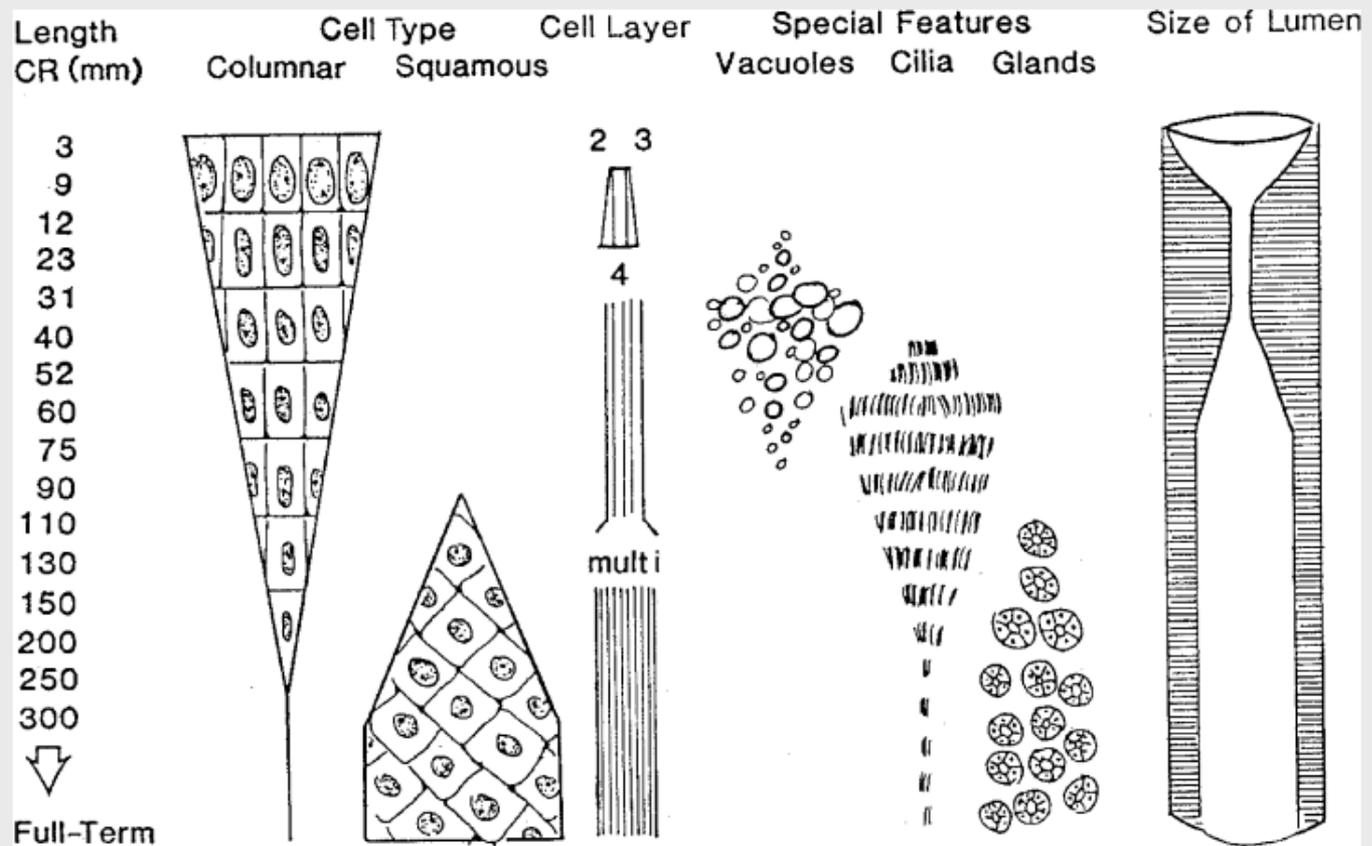
"gastric type mucosa with focal chronic inflammation and foveolar hyperplasia"



# Gastric heterotopia of esophagus

- An area of heterotopic gastric mucosa located just distal to UES
- Salmon colored, round or oval well defined patch
- Mainly a single lesion ranging 3-25mm in diameter.





# Clinico-pathological classification

Category	Description	Symptoms/findings	Frequency
I	Asymptomatic	None	Common
II	Symptomatic	Laryngopharyngeal reflux	Common
III	Symptomatic with benign complications	Strictures/ webs/ fistula/ bleeding * Polyps	Uncommon
IV	Intra-epithelial dysplasia	None/ non-specific	Uncommon
V	Malignant transformation	Asymptomatic/ dysphagia	Reported
<i>Suffix</i>			
a	inlet patch (macroscopically visible patch of HGMP/CIP)		
b	microscopic foci (only microscopically visible HGMP/CIP)		

# Clinical significance

Ref.	Symptoms reported	Prevalence of LPR symptoms		P value
		HGMPE (+ve)	HGMPE (-ve)	
Chong et al	Overall LPR symptoms	73.1%	25.9%	< 0.001
	Chronic cough	29.2%	10.6%	< 0.01
	Sore throat/hoarseness	54.2%	11.7%	< 0.01
	Globus	23.1%	7.1%	< 0.01
	Regurgitation	42.3%	13.1%	< 0.01
	Heartburn	50.0%	22.5%	< 0.01
Akbayir et al	Upper esophageal and laryngopharyngeal symptoms	45%	21.5%	= 0.07
Baudet et al	Dysphagia	21%	4.0%	< 0.001
Poyrazoglu et al	Dysphagia	39.4%	0%	< 0.05
Alagozlu et al	Globus	78.6%	0%	< 0.05
	Dyspepsia	88.2%	97.8%	NS
<a href="#">1</a> Neumann et al	Dysphagia/odynophagia	20.8%	16.4%	< 0.001
	Upper respiratory symptoms	2.5%	0.9%	< 0.001
	Globus	1.6%	0.3%	< 0.001
Weickert et al	Recurrent hoarseness	9.1%	5.6%	= 0.5
	Dysphagia (any grade upper and lower)	15.2%	9.4%	NS
	Heartburn (any grade upper and lower)	15.2%	9.4%	NS

## **A rare association of inlet patch with laryngospasm: a report of two children and literature review.**

di Palma E<sup>1</sup>, Cazzato S, Tursini S, Salfi NC, Mazzotta A, Di Silverio Carulli C, Lima M, Bergamaschi R, Bernardi F, Cicoqnani A.

### **Heterotopic gastric mucosa of the proximal oesophagus (inlet patch): endoscopic prevalence, histological and clinical characteristics in paediatric patients**

Rodríguez-Martínez, Alejandro; Salazar-Quero, José C.; Tutau-Gómez, Carlos; Espín-Jaime, Beatriz; Rubio-Murillo, María;

# Inlet Patch: Clinical Presentation and Outcome in Children

TABLE 1

Patient no.	Underlying disease	Medical history	Symptoms	
			Digestive	Respiratory and ENT
1	Lissencephaly	0	Dysphagia, food impaction, vomiting	Aspiration, cough
2	Familial adenomatous polyposis	0	0	0
3	0	GERD	Dysphagia, odynophagia, food impaction, vomiting	Drooling halitosis
4	Diaphragmatic hernia	GERD, airway hyperresponsiveness	Dysphagia, food impaction	0
5	0	GERD, atopic dermatitis, ENT infections	Dysphagia, food impaction, gastric pain, vomiting	0
6	Esophageal atresia	GERD, asthma, ENT infections	Dysphagia, food impaction	Aspiration, cough, dyspnea
7	0	GERD	Dysphagia, odynophagia, food impaction, pyrosis	0
8	0	GERD	Dysphagia, food impaction, pyrosis, vomiting	0
9	Esophageal atresia	GERD	Dysphagia, food impaction, pyrosis	Drooling, halitosis
10	0	Asthma, ENT infections	Gastric pain, vomiting	Cough, dyspnea
11	0	Allergic rhinitis	Gastric pain, vomiting	0
12	Diabetes mellitus	0	Pyrosis	Cough
	Celiac disease		Dysphagia, food impaction, vomiting	Cough
13	Esophageal atresia	GERD, asthma, undernutrition	Dysphagia, food impaction	Drooling, halitosis
14	Esophageal atresia	GERD	Dysphagia, food impaction	0
15	Esophageal atresia	Allergic asthma	Dysphagia, food impaction	0

# Inlet Patch: Clinical Presentation and Outcome in Children

TABLE 3. Treatment modalities and outcomes

Patient no.	Treatment		
	Type	Duration (mo)	Efficacy
1	PPI	In process (>6)	Symptoms disappeared
2	PPI	6	No symptoms
3	PPI	In process (>11)	Symptoms disappeared
4	PPI	2 mo	ND*
5	PPI	Lost to follow-up	
6	0	0	Cough and hyperresponsiveness persisted
7	PPI	In process (to 6)	Symptoms disappeared
8	PPI	12	Symptoms disappeared after fundoplication (at 10.5 years)
9	PPI	In process (>8)	Symptoms disappeared
10	PPI	In process (>1)	Symptoms improved
11	PPI	Lost to follow-up	
12	PPI	2 mo	Symptoms improved
13	PPI	In process (>2.5)	ND*
14	PPI	In process (>1)	Symptoms improved
15	PPI	In process (>2)	Symptoms disappeared

## Symptomatic gastric inlet patches in children treated with argon plasma coagulation: a case series

- 5 children age 5-16
- Persistent dysphagia and cough/ asthma
- Complete resolution of symptoms after ablation

