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BACKGROUND

- Gastric heterotopia or Inlet Patch (IP) are raise salmon-colored patches in the cervical esoph
- IPs are thought to be embryologic in nature, v is known that Barrett's Esophagus (BE) result acid reflux.
- Though IP has been associated with BE in sev studies, their relationship is not well defined.

AIM

• The aim of this study is to assess endoscopic prevalence, demographic risk factors, and fund endoscopic testing via High resolution Esopha Manometry (HREM) and Esophageal pH-Impe (EpHI) associations between IP and BE.

METHODS

- All endoscopic, HREM and EpHI data for patier ≥ 18 years who had EGD from January 2010 to December 2020 at a single high-volume center reviewed.
- Age, sex, BMI, race, alcohol use and tobacco were recorded
- Patients were grouped by presence or absence and/or BE on EGD.
- ANOVA and t-test were used to calculate difference in HREM and EpHI testing.
- A multivariate regression model was constructe identify independent variables associated with presence of IP and BE.

Association of Inlet Patch to Barrett's Esophagus

	RESULTS									
_	Table 1:	Pati	ents with B	E alone	Pat	ients with IP alone		Pati	E and IP	
sed,	Factors	OR	95% CI	p-Value	OR	95% CI	p-Value	OR	95% CI	p-Value
while it	Age DMI	1.02	1.02-1.03	<0.001	1.04	1.04-1.05	<0.001	1.05	1.05-1.06	<0.001
ts from	DIVII	1.20	1.20-1.21	<0.001	1.02	1.01-1.02	<0.001	1.11	1.09-1.11	<0.001
veral	Sex Female Male Race	Ref 2.22	- 1.96-2.51	- <0.001	- 1.47	- 1.16-1.85	- <0.001	- 1.30	- 1.29-1.31	- <0.001
	Black Hispanic Caucasian	Ref 1.17 1.87	- 1.01- 1.37 1.64- 2.15	- <0.001 <0.001	- 1.65 2.51	- 1.19 -2.29 1.86- 3.39	- <0.001 <0.001	- 1.12 1.68	- 1.11-1.14 1.67-1.70	- <0.001 <0.001
otional	Asian Smoking Status	0.66	0.40- 1.09	0.11	0.33	0.22-0.45	0.17	0.89	0.75-0.92	0.54
ageal edance	Non-Smoker Current Smoker	Ref 1.02	- 1.02-1.03	- <0.001	- 1.12	- 1.11-1.13	- <0.001	- 1.08	- 1.07-1.10	- <0.001
	Alcohol Status Non-Drinker	Ref	_	_	_	_	_	_	_	_
	Current Drinker	0.46	0.28-0.76	<0.001	0.83	0.65-1.05	0.12	0.82	0.88-1.05	0.55
nts age ว r were	 ⁶⁰ Figure 1: Differences in Mean High Resolution Esophageal Manometry (HREM) and Esophageal pH-Impedance (EpHI) Testing 50 									
use	40									
e of IP	30									
rences	20									
ed to	10									
	0 Mean HREM Chicago Mean LES Residual Pressure pH-Impedance Classification (% Mean AET Proximal (% No Classification (% Normal) 0 (mmHg) Normal)									
	Patients Without BE or IP Patients With BE Only Patients With IP Only Patients With Both IP and BE									



- f 27,598 unique eligible patients who underwent EGD uring the study period, 1,294 (4.7%) had endoscopic vidence of BE
- 62 (1.3%) had IP, of whom 62 (17.1%) had both IP nd BE (p< 0.001)[Table 1]
- 'atients with BE alone, IP alone, and both BE and IP vere older and had higher BMI than those without ither finding (p < 0.001).
- atients with IP and/or BE had less normal HREM than atients without any finding. Mean LES pressure was ower in patients with BE and/or IP when compared to nose without either
- pHI testing was less normal in patients with IP and/or E. Mean AET was higher in patients with BE and/or IP nan those without (p< 0.001) [Figure 1]
- In multivariate regression analysis, patients with only E, only IP, and both IP and BE were all independently ssociated with increasing age and BMI, male sex, aucasian race, Hispanic ethnicity, and current moking
- E was seen in 4.7% and IP in 1.3% of patients ndergoing EGD. 17% of IP patients had BE
- atients with BE alone, IP alone, and both IP and BE were ound to be older, have higher BMI, lower LES residual ressure, and higher AET when compared to those vithout either endoscopic finding
- actors such as male sex, BMI, Caucasian race, active moking status were independently associated with BE lone, IP alone, and IP and BE findings
- ndoscopic testing and risk factor analysis in individuals ith these risk factors should be performed with careful sophageal inspection for both BE and IP



RESULTS

CONCLUSIONS