

Portal Gastropathy and Gastric Antral Vascular Ectasia

Bilal Bobat Liver unit WDGMC



Patient-centred. Independent. Academic.







Progressive medicine, exceptional care.



Portal Hypertensive Gastropathy (PHG) Introduction

- Endoscopic diagnosis
- 20-80% of patients with Portal hypertension have PHG
- Similar lesions can be present throughout the GIT
 - Portal enteropathy
 - Portal Colopathy

Portal Hypertensive Gastropathy (PHG) Pathophysiology

- Correlated with Hepatic Venous Wedge Pressure
- Increased Cardiac output and lower Vascular resistance
- Local factors such as Ischaemia and Nitric Oxide







Classification

North Italian Endoscopic Club

Mosaic like pattern

Mild – diffusely pink areola

Moderate – flat red spot in centre of pink areola

Severe – diffusely red areola

Red marks

Red lesions of variable diameter, flat or slightly protruding

Discrete or confluent





Alimentary Pharmacology & Therapeutics, Volume: 40, Issue: 4, Pages: 354-362, First published: 02 June 2014, DOI: (10.1111/apt.12824)

Portal Gastropathy and Colopathy

Features	es Portal Hypertensive Gastropathy	
	Dilated capillaries and venules	Edema and
Pathology	No inflammation	lymphocyte
Endoscopic Characteristics	Classic mosaic pattern and red spots	Vascı
		nonspecific
Differential Diagnosis	GAVE	Idiopathic
	Inflammatory gastritis	nonspeci
	nonspecific inflammation	
Treatment	Iron replacement therapy	(≛) Iron rep
	Transfusions	Tra
	Portal pressure reducing pharmacologic agents	Portal pressure redu
		APC, sclero
Salvage Treatment	TIPS/Shunt surgery	TIPS/S
	APC	
	Liver transplantation	Liver tr

ensive Colopathy
apillary dilatation,
s and plasma cells
lar ectasias
mucosal changes
vascular ectasia,
ic inflammation
acement therapy
nsfusions
cing pharmacologic agents
therapy, ligation
nunt surgery
urgery
ansplantation







Gastric Antral Vascular Ectasia

- 4% of all GI bleeding
- Severe form of Gastritis with marked ventcapillary ectasia
- More commonly associated with Connective tissue disorders
- 30% of GAVE is associated with cirrhosis



Gastric Antral Vascular Ectasia



Types

- Linear
- Honeycomb -
- Nodular
- Giant Folds
- Mixed



Diagnosis

Histological score system for GAVE.

GAVE score (range (5)	0-		
	Gilliam's score (range 0-4)		
SCORE	THROMBUS OF FIBRIN AND / OR VASCULAR ECTASIA	FIBROMUSCULAR HYPERTROPHY	
0	Both Absents	Absent	
1	One Present	Increased	
2	Both Presents	Much Increased	

Score of >3 = GAVE



FIBRO-HYALINOSIS

Absent Present



- Unknown
- Inflammatory mediators thought to play a major role
- Gastrin and Prostaglandin E act as vaso-mediators driving dilatation
- Portal hypertension is not thought to be a driving factor

Pathophysiology

- Surgery 50% 30 day mortality rate
- Medical management
 - Estrogen No difference in transfusion rates

 - Thalidomide- Rise in Haemaglobin
 - Small series
 - Bevazicumab Single dose with good response
 - Some may need further dosing

Treatment

• Octreotide - No difference in transfusion rates but a decrease in overt bleeding episodes noted

Treatment - Endoscopic APC



- Endos the ma
- APC
- Easy to
- Cheap
- Moder







Treatment - Endoscopic RFA

- More Expensive
- Quicker and can treat a wider area

GAVE



Treatment - Endoscopic El

- Easy to use
- Low to moderate in cos
- Effective





Treatment EBL vs APC



11/5	RESULTS: 10 Studies invo	lving 476 s	subjects	
VAY.		EBL	APC	
153	GAVE pooled eradication rate	88.6% [CI 79.9-81.5; I2=13.5%]	57.9% [Cl 43.7-71; l2= 59%]	RR 1.52 [1 I2=72%; p
Argon Plasma	Bleeding recurrence	6.6% [CI 3.4-12.5; I2=0%]	39.7% [CI 26.9-54.15; I2=55%]	RR 0.21 [0 I2=0%; p<
Coagulation	GAVE recurrence	7.3% [CI 3.8-13.6; I2=0%]	38.5% [Cl 24.4-54.9; l2=64%]	RR 0.22 [0 I2= 0%; p<



PHG vs GAVE



FEATURE	PHG	GAVE	
Relation with PH	Causal	Coincidental	
Distribution in stomach	Mainly proximal	Mainly distal	
Mosaic pattern	Present	Absent	
Red color signs	Present	Present	
Pathology			
Thrombi		+++	
Spindle cell proliferation	+	++	
Fibrohyalinosis		+++	
Treatment	β -adrenergic blockers TIPS/shunt surgery	Endoscopic Antrectomy and Billroth I Liver transplantation	

PH: portal hypertension, TIPS: transjugular intrahepatic portosystemic shunt.





https://www.wjgnet.com/1948-5182/full/v8/i4/231.htm







http://gastrolah fi/1g/ni-04 htm



Portal Gastropathy and Gastric Antral Vascular Ectasia

Bilal Bobat Liver unit WDGMC



Patient-centred. Independent. Academic.







Progressive medicine, exceptional care.

