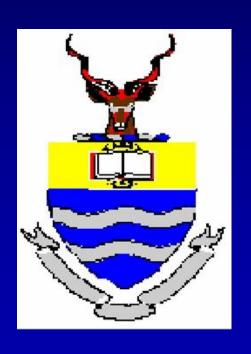
DYSPEPSIA



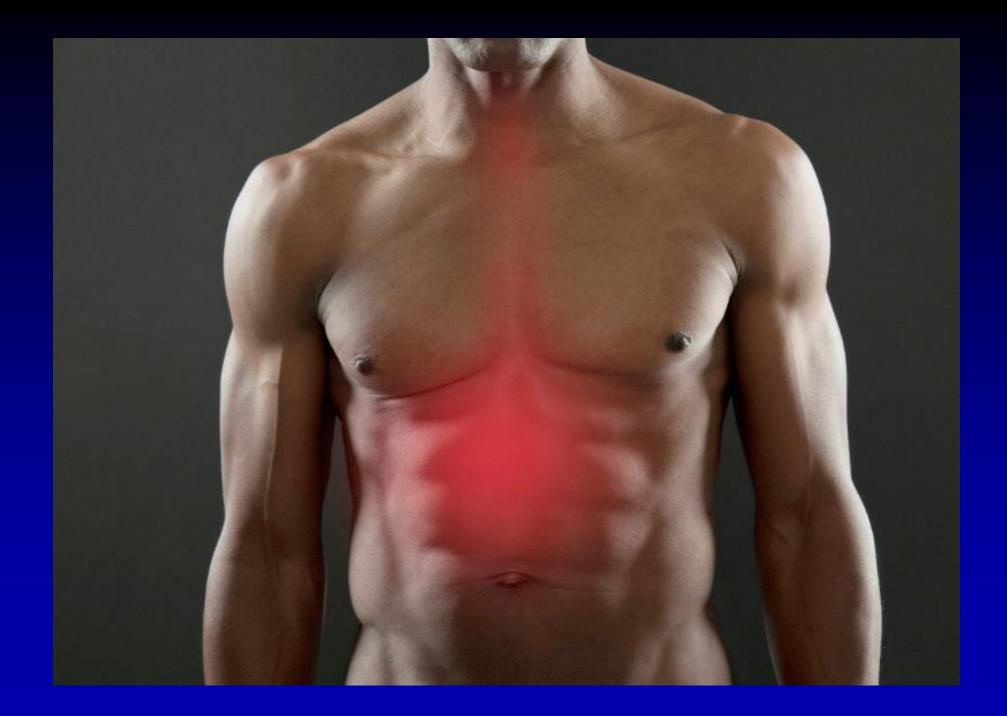
REIDWAAN ALLY 2019

Case

 A 28yr white male, presents with a 1 year history of Epigastric pain (sometimes associated with meals), which is getting worse despite Antacid therapy.



- He is a non smoker, social drinker, family history of coronary artery disease and colon cancer.
- He has occasional heartburn, no nausea, no vomiting, no early satiety, and no alarm S/S.
- He enjoys spicy foods.



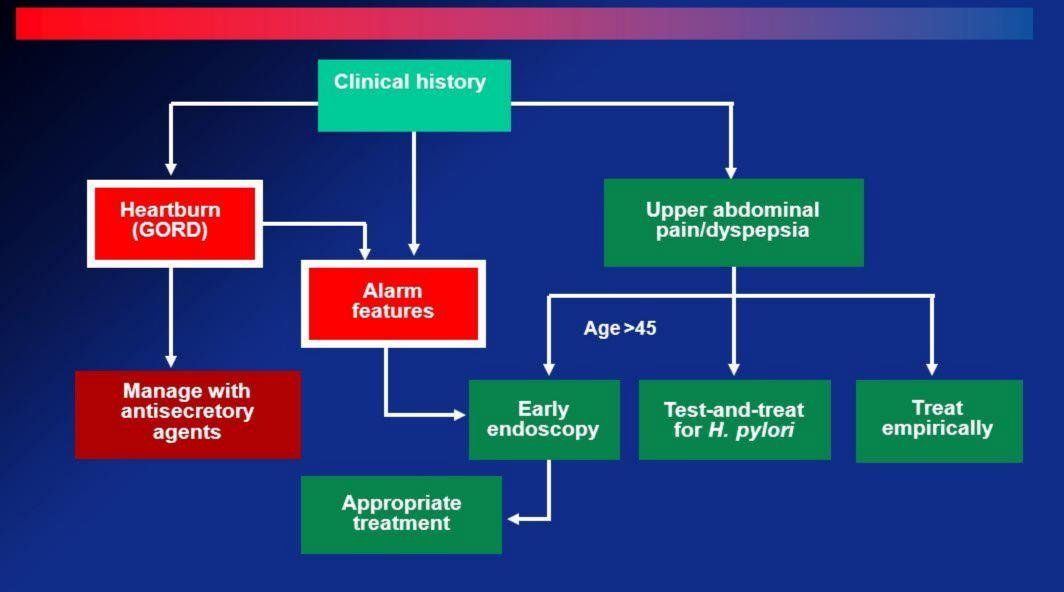
What will you do?

- 1) Endoscope
- 2) Test and Treat for Hp
- 3) Empiric PPI therapy
- 4) Anti Depressants
- 5) Other

Case

• What if the same patient was 50 yrs old?

Management of upper GI symptoms in primary care



Outline

- Definitions-Dyspepsia, Functional, Uninvestigated
- Clusters of Symptoms
- Major Organic causes
- Functional
- Approach to Uninvestigated Dyspepsia
- Management.

GASTROENTEROLOGY 2006;130:1466-1479

Functional Gastroduodenal Disorders

JAN TACK,* NICHOLAS J. TALLEY,* MICHAEL CAMILLERI,* GERALD HOLTMANN,§ PINJIN HU,¶
JUAN-R. MALAGELADA, and VINCENZO STANGHELLINI#

*Department of Gastroenterology, University Hospitals Leuven, Leuven, Belgium; *C.E.N.T.E.R., Mayo Clinic, Rochester, Minnesota; *Royal Adelaide Hospital, Adelaide, Australia; *Department of Gastroenterology of the First Affiliated Hospital, Sun Yat-Sen University, Guangzhou, China; *Department of Gastroenterology, Vall Hebron Hospital, Barcelona, Spain; and *Department of Internal Medicine and Gastroenterology, University of Bologna, Bologna, Italy



Clinical Guidelines | Published: 20 June 2017

ACG and CAG Clinical Guideline: Management of Dyspepsia

Paul M Moayyedi MB, ChB, PhD, MPH, FACG , Brian E Lacy MD, PhD, FACG, Christopher N Andrews MD, Robert A Enns MD, Colin W Howden MD, FACG & Nimish Vakil MD, FACG

The American Journal of Gastroenterology 112, 988-1013 (2017) | Download Citation

✓

1 An Errata, Corrigenda and Retractions to this article was published on 01 August 2017

Downloaded from http://gut.bmj.com/ on October 5, 2017 - Published by group.bmj.com

Neurogastroenterology

ORIGINAL ARTICLE

Global prevalence of, and risk factors for, uninvestigated dyspepsia: a meta-analysis

Alexander C Ford, ^{1,2} Avantika Marwaha, ³ Ruchit Sood, ^{1,2} Paul Moayyedi³

INTRODUCTION

Rome IV—Functional GI Disorders: Disorders of Gut-Brain Interaction







Douglas A. Drossman

William L. Hasler

Dyspepsia

Definition:

Chronic or recurrent pain or discomfort centered in the upper abdomen

Talley NJ, Vakil N. Practice Parameters Committee of the American College of Gastroenterology. Guidelines for the management of dyspepsia. Am J Gastroenterology 2005

Dyspepsia – ROME III

Definition

Dyspepsia is defined as the presence of 1 or more dyspepsia symptoms that are considered to originate from the gastroduodenal region

One or more of the following symptoms:

- 1. Post prandial fullness
- 2. Early Satiety
- 3. Epigastric pain
- 4. Epigastric Burning

Neurogastroenterology

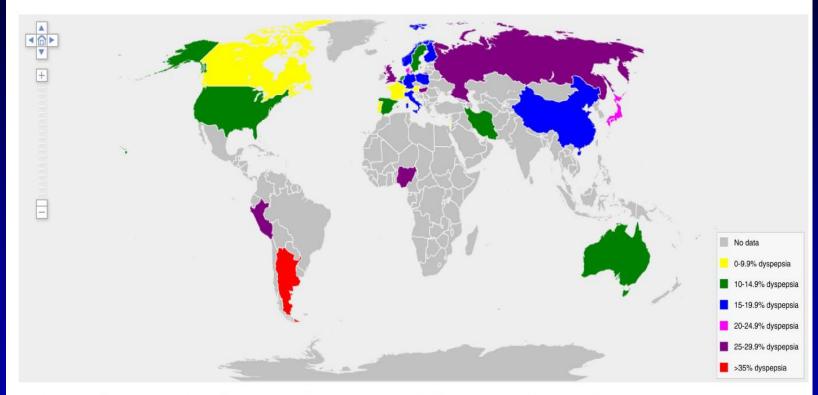
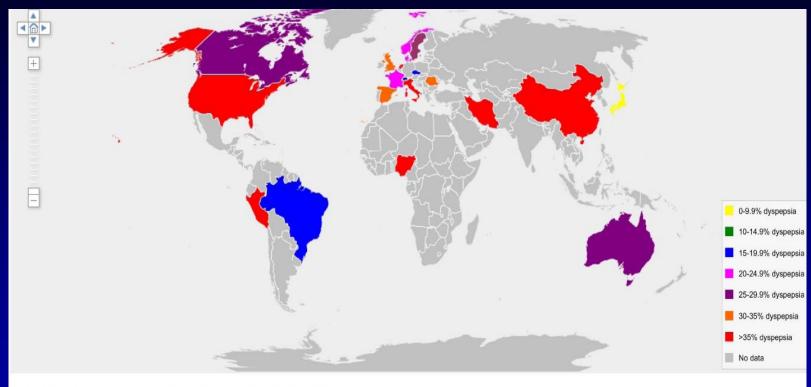


Figure 2 Prevalence of uninvestigated dyspepsia worldwide using upper abdominal or epigastric pain or discomfort.



gure 1 Prevalence of uninvestigated dyspepsia worldwide using a broad definition.

052

Ford AC, et al. Gut 2015;64:1049-1057. doi:10.1136/gutjnl-2014-307

15

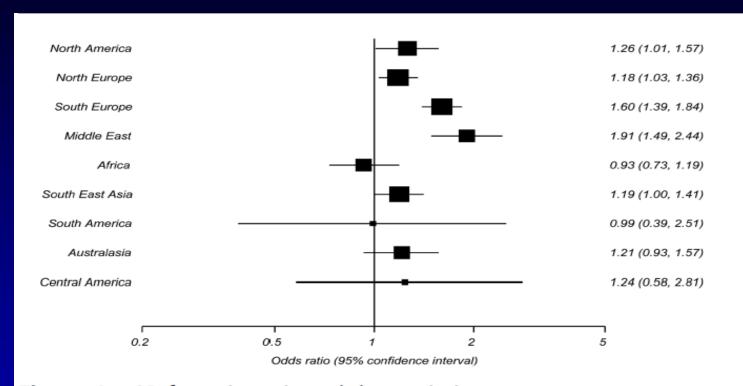
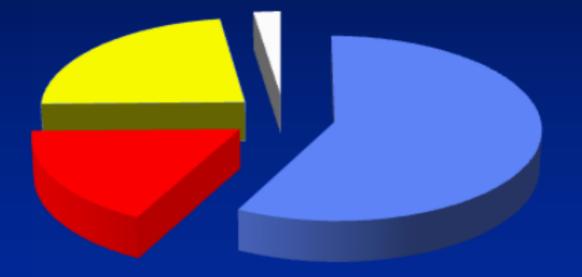


Figure 4 OR for uninvestigated dyspepsia in women versus men according to geographical location.

Common causes of Dyspepsia





- Functional Dyspepsia
- Peptic Ulcer Disease
- GERD

Gastric and Esophageal Malignancy

Peptic Ulcer Disease and Dyspepsia

- 5-15% of patients with dyspepsia
- Declining in prevalence

Risk Factors

- Increasing age
- 2. NSAID use
- H pylori infection

Heartburn or Dyspepsia

 Considerable overlap noted b/w GERD and Dyspepsia

 Up to 27 % of pts with GERD have associated dyspepsia

 Patients suffering from both GERD and Dyspepsia had higher symptom intensity scores

Lee et al: Digestion 2009

Piessevaux et al : Neurogastrenterol Motility 2009

Malignancy and Dyspepsia

 Estimated to be about 1% of dyspeptic pts (gastric and esophageal)

Declining incidence of gastric cancer

Presence of symptoms indicative of advanced disease (32%)

 Alarm features and age limited predictive value

Pancreatic and Biliary Tract

 Cholelithiasis not associated with "classic" dyspepsia symptoms

 Pancreatic disorders may be found in some patients with unexplained dyspepsia

Intolerance to Food or Drugs

 Ingestion of foods such as spices, coffee, alcohol or excess food not associated with dyspepsia (except when it is)

 Effect related to sensorimotor responses to food

 Common side effect of many medications

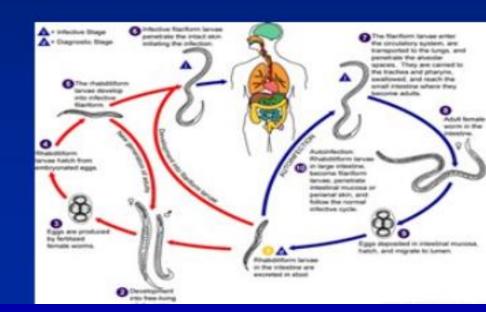
Medications and dyspepsia

- Acarbose
- ASA
- Colchicine
- Digitalis
- Estrogens
- Ethanol
- Gemfibrozil
- Glucocorticoids
- Iron

- Levodopa
- Niacin
- Narcotics
- Nitrates
- Orlistat
- Potassium chloride
- Quinidine
- Sildenafil
- Theophylline

Things to think about

- Infectious (Strongyloides stercoralis, TB, syphilis, fungal)
- Inflammatory Diseases
- Infiltrative Diseases
- Ischemia
- Pregnancy
- Hyperparathyroidism



Functional Dyspepsia

Definition

Dyspepsia is defined as the presence of 1 or more dyspepsia symptoms that are considered to originate from the gastroduodenal region, in the absence of any organic, systemic, or metabolic disease that is likely to explain the symptoms.

Tack J, Talley NJ, Camilleri M, et al. Functional gastroduodenal disorders. Gastroenterology. 2006;130:1466-1479.

B. Gastroduodenal Disorders

B1. Functional dyspepsia

B1a. Postprandial distress syndrome (PDS)

B1b. Epigastric pain syndrome (EPS)

B2. Belching disorders

B2a. Excessive supragastric belching

B2b. Excessive gastric belching

B3. Nausea and vomiting disorders

B3a. Chronic nausea vomiting syndrome (CNVS)

B3b. Cyclic vomiting syndrome (CVS)

B3c. Cannabinoid hyperemesis syndrome (CHS)

B4. Rumination syndrome

Diagnostic Criteria for Functional Dyspepsia and Subgroups (Rome III)

1. One or more:

- a) Bothersome postprandial fullness
- b) Early satiety
- c) Epigastric pain
- d) Epigastric burning

AND

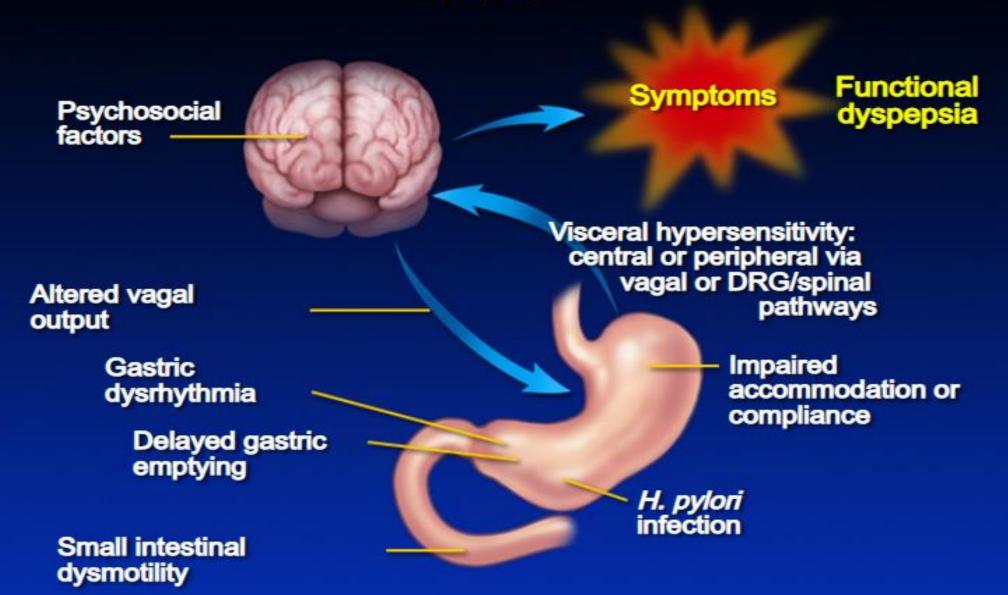
No structural disease to explain symptoms

Postprandial distress syndrome

Epigastric pain syndrome

*All criteria must be fulfilled for the last 3 months with symptom onset at least 6 months before diagnosis

Pathophysiologic Mechanisms in Functional Dyspepsia



Duodenal Sensitivity

 Duodenal perfusion with lipids enhances perception of gastric distention

Ishii et al 2010

- 44 FD / 16 control
- 11 PDS / 9 EPS / 24 PDS and EPS
- Transnasal endoscopy after overnight fast with injection of acid
- Increase in symptom severity scale in FD patients
- Bloating, Early Satiety and Heavy sensation in stomach most commonly reported in FD

Duodenal Sensitivity

- Futagami et al 2011 136 FD patients 20 controls
- 35 PI / 36 EPS /65 PDS
- Duodenal biopsies → elevated Eos/Macrophages
- Degree of involvement was correlated with epigastric pain/burning

Infection and FD

- Mearin et al –Outbreak of Salmonella 271 affected – 335 controls
- Compared development of FD between affected and non affected over the course of 1 year
- 14% developed Post Infectious FD
- Prolonged abdominal pain and vomiting predictive of FD

Psychological Factors and FD

 Frequency of anxiety, depression, somatization, abuse increased in FD pts

 Increased number of stressful life events 6 months prior to development of symptoms

Uninvestigated Dyspepsia

Definition

Dyspeptic symptoms in persons in whom no diagnostic investigations have yet been performed and in whom a specific diagnosis that explains the dyspeptic symptoms has not been determined

History and Physical

- Nature of symptoms
- Chronicity
- Relationship with meals
- Onset (recent infections?)
- Systemic disorders
- Alarm features

- Abdominal pain
- Abdominal mass
- Organomegaly
- Ascites
- •FOB

Alarm features

Unexplained weight loss (>10%)

Overt Bleeding

Anemia

Early satiety

Previous hx of gastric surgery

Jaundice

Progressive

dysphagia

Odynophagia

Persistent vomiting

Previous PUD

Lymphadenopathy

Abdominal Mass

Family hx of UGI malignancy

Alarm Features

- Meta analysis of 15 studies
- 57,363 pts / 458 with malignancy
- 1. Low positive predictive value <10
- 2. High negative predictive value 97%
- 3. Varying thresholds to determine whether alarm feature present

Vakil N, Moayyedi P, Fennerty MB, Talley NJ. Limited value of alarm features in the diagnosis of upper gastrointestinal malignancy: systematic review and meta-analysis. Gastroenterology

Age

"Age threshold should be assessed locally based on known regional correlation between age and incidence of upper GI malignancies"

Breslin et al - retrospective study of 3634 pts

- Less than 45 yrs old with no alarm features
- 3 gastric cancers, 10 Barrett's, 1 moderate dysplasia
- Prevalence 1.05 / 1000

Liou JM et al – retrospective study of 17894 pts with dyspepsia

225 (Gastric Cancer), 111 (alarm symptoms), 11 (age
 45) (9.9%)

Breslin et al: Gut 2000

Liou et al: Gastrointest Endos 2005

ACG Dyspepsia management

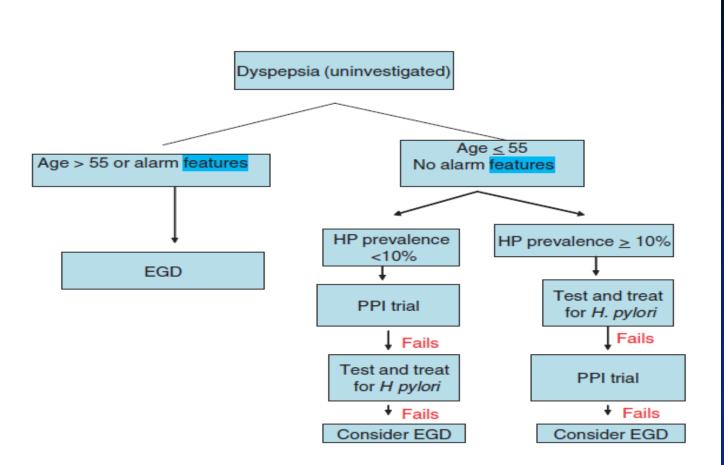


Figure 1. Algorithm for the management of uninvestigated dyspepsia

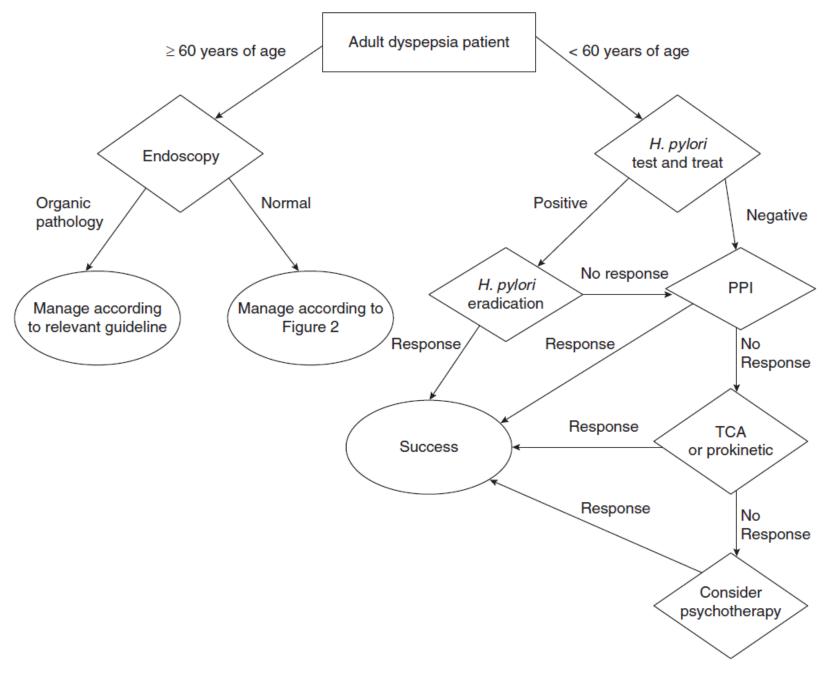


Figure 1. Algorithm for the management of undiagnosed dyspepsia.

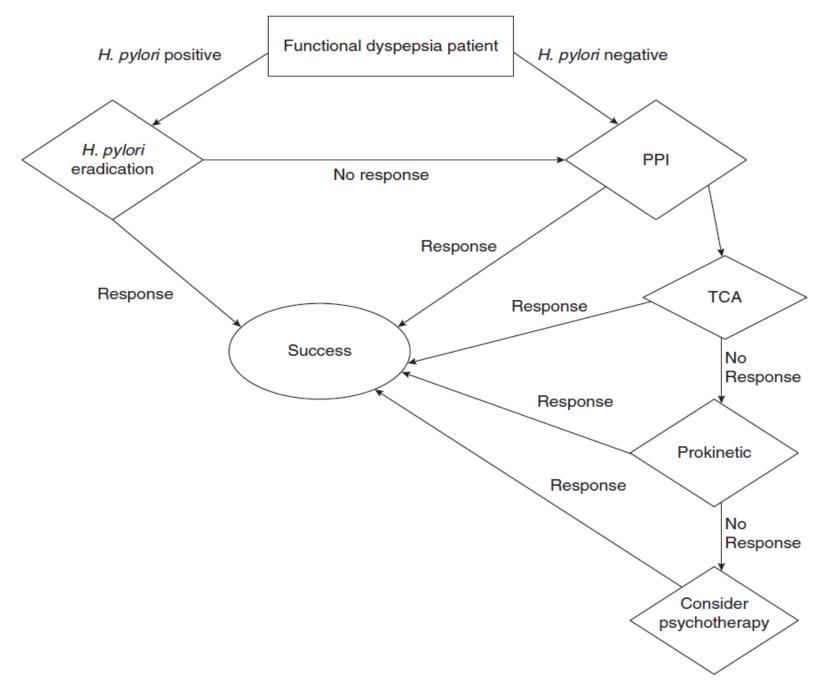


Figure 2. Algorithm for the treatment of functional dyspepsia.

Prompt Endoscopy

- FIRST CHOICE Delaney et al
- 1) Significant improvement in symptom scores
- 2) 48% reduction in PPI use
- 3) Reduced further investigations.

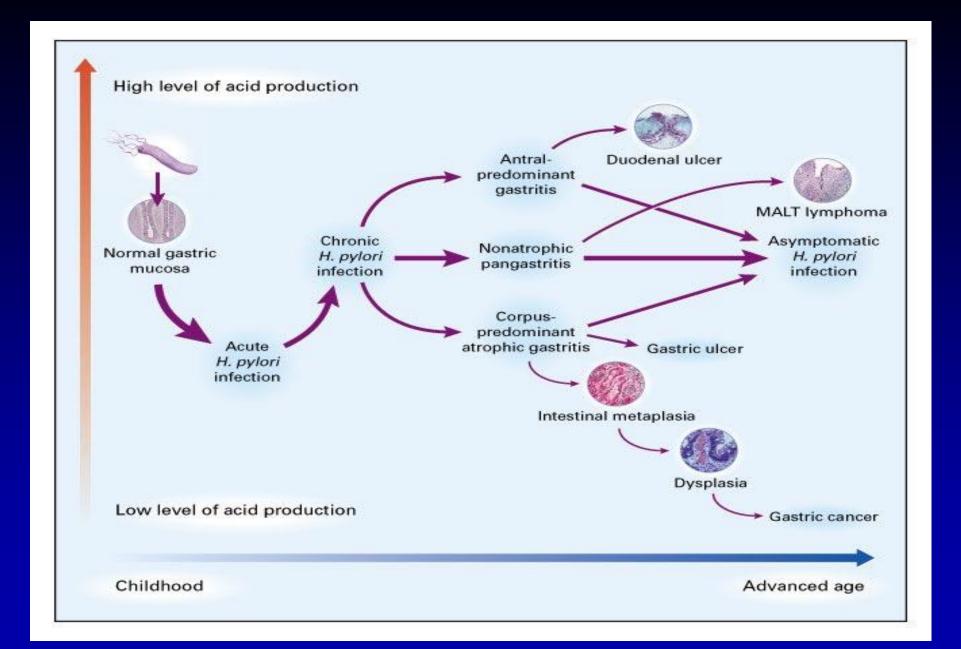
Delaney , Cochrane Library , Volume 4 , 2008

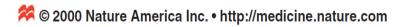
Disadvantages - Endoscopy

- Invasive procedure with inherent risks
- Young pts without warning symptoms unlikely to have organic disease
- Most common finding is esophagitis
- Expensive

Test and Treat vs Endoscopy

- Ford et al Meta analysis 1924 patients
- 1. The relative risk of remaining symptomatic after 1 year was reduced with endoscopy compared with "test and treat" (RR = 0.95)
- 2. Endoscopy Not cost effective
- Cochrane review, 2008
- 1. Test and treat reduced EGD by 66%
- 2. Test and treat more cost effective





ARTICLES

Concurrent enteric helminth infection modulates inflammation and gastric immune responses and reduces helicobacter-induced gastric atrophy

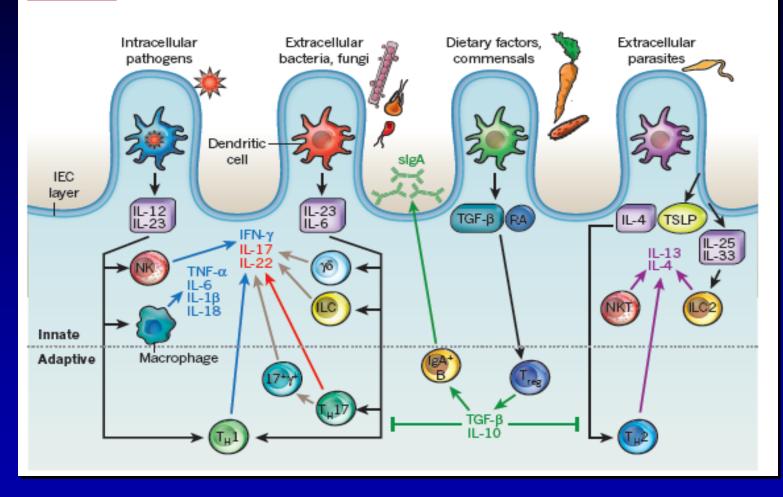
JAMES G. FOX¹, PAUL BECK³, CHARLES A. DANGLER¹, MARK T. WHARY¹, TIMOTHY C. WANG³, HAI NING SHI² & CATHRYN NAGLER-ANDERSON²

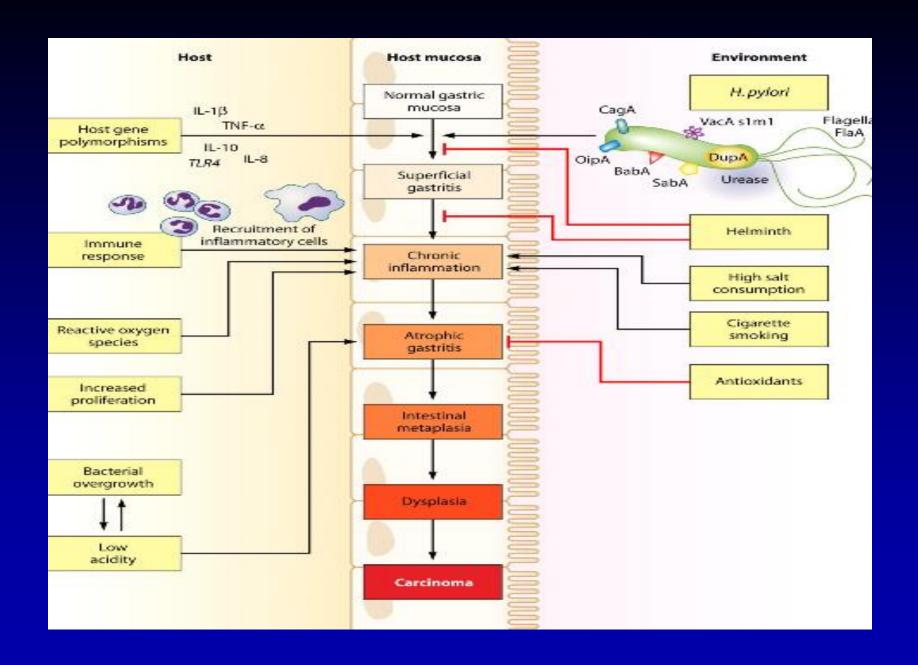
NATURE MEDICINE • VOLUME 6 • NUMBER 5 • MAY 2000

HOST

- Developed Countries: HP → Th1 → mucosal damage
 Developing Countries: HP → Th2 → mucosal protecting
- Fox: Pretreated animal –
 protozoal response to
 Helicobacter infection shifted
 from Th1 → Th2

INSIGHT REVIEW



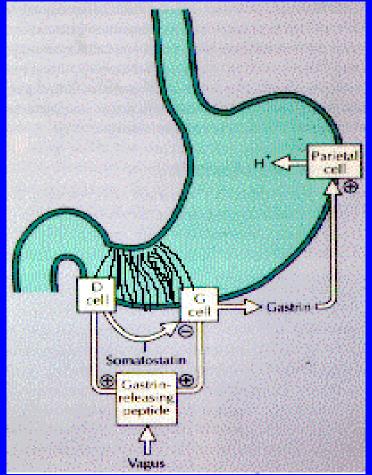


H.Pylori - Soweto

Acid- H.Pylori - A.Lee/MacColl

Antral Predominant Gastritis

- → ↑ Gastrin
- $\rightarrow \uparrow$ Acid
- → Ulcer



H.Pylori - Soweto

Acid - H.Pylori

Corpus

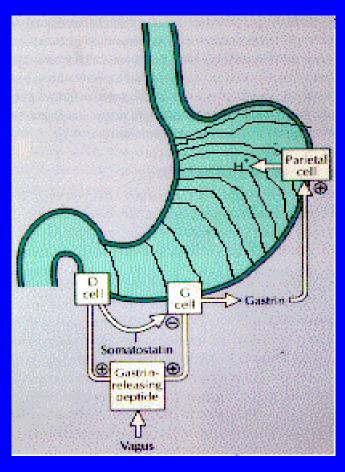
Predominant/Pangastritis

- → Low Gastrin
- → Low Acid
- → Atrophy
- \rightarrow I.M.
- → Cancer

Acid ≡ Gastrin; Pepsinogen A/C Ratio

PGA < 70ng/m

PGA/PGC < 3



$$=$$
 Atrophy



Kyoto global consensus report on *Helicobacter pylori* gastritis

Kentaro Sugano, ¹ Jan Tack, ² Ernst J Kuipers, ³ David Y Graham, ⁴ Emad M El-Omar, ⁵ Soichiro Miura, ⁶ Ken Haruma, ⁷ Masahiro Asaka, ⁸ Naomi Uemura, ⁹ Peter Malfertheiner, ¹⁰ on behalf of faculty members of Kyoto Global Consensus Conference

BMJ

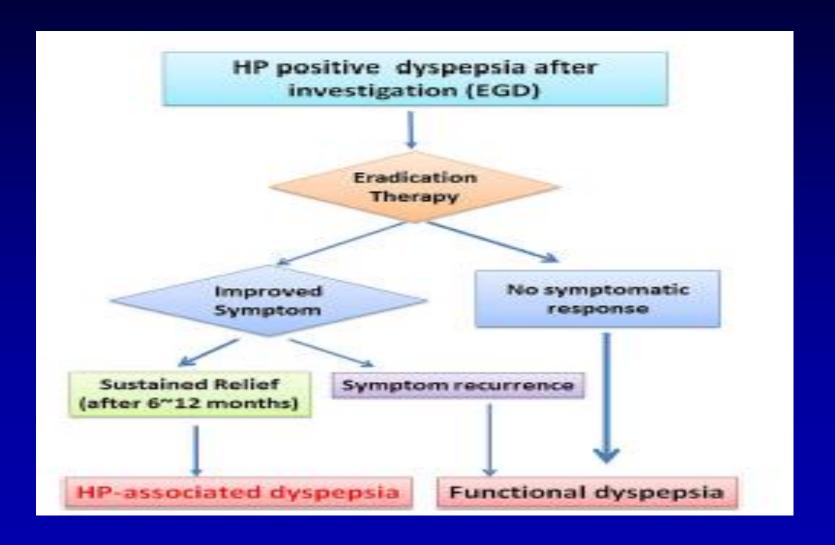
Sugano K, et al. Gut 2015;64:1–15. doi:10.1136/gutjnl-2015-309252

bsg

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Pepsinogens better than Histology

KYOTO CONSENSUS



Test and Treat vs Endoscopy

- Several studies which show no difference in symptomatic outcomes
- Decreased rates of further evaluations via EGD

Lassen et al. Lancet 2000 McColl et al. BMJ 2002 Jones et al. Int J Clin Pract 1999

Test and Treat Disadvantages

- Only leads to a small percentage of patients improving symptomatically
- Complications of therapy
- False-positive test results
- Delays endoscopy

Empiric Antisecretory Therapy

 May provide symptomatic benefit in 1/3 of FD pts

PPI more effective than H2 blockers

 Usually respond within 2 weeks of therapy

Test and Treat vs Empiric AS

 Consider in recent immigrants from developing countries

Ford et al - Meta analysis 1547 pts

- No difference in symptom cure at 12 months
- No significant trend towards cost saving with test and treat vs empiric acid supp

Ford et al : Alimentary Pharmacology & Therapeutics

Volume 28, Issue 5, pages 534–544, September 2008

Management Functional Dyspepsia

- Reassurance and education
- Impact of dietary interventions not well studied
- Avoiding meals with high fat content advisable
- Treatment of coexisting anxiety should be considered

Tack et al : Current Opinion Gastroenterology 2011

Tack et al: Gastroenterology 2004

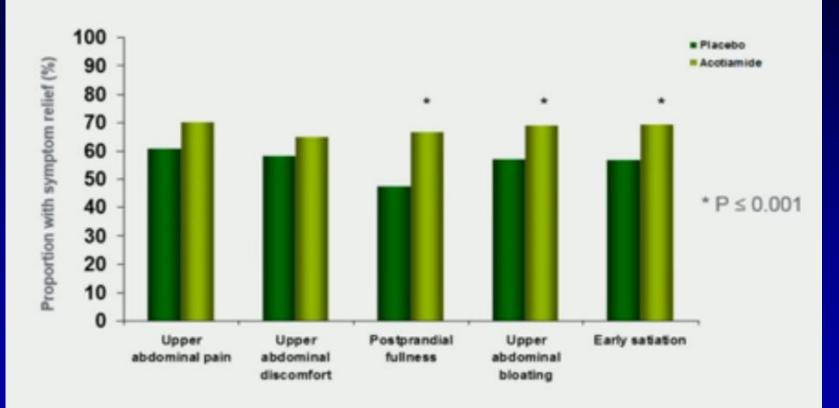
Prokinetic Agents

- Moayyedi et al Meta-analysis of 24 RCTs
 - Compared Cisapride / Domperidone/Reglan
 - Response rates vs placebo (57% v. 43%)
 - Publication bias

Reglan – Black box warning- tardive dyskinesia Cisapride – withdrawn due to cardiotoxicity Domperidone – not FDA approved

- Recent studies have not demonstrated clinical benefit of prokinetic agents
- Moayadi, et al, Pharmacologic interventions for non-ulcer dyspepsia, Cochrane Database of Systematic Reviews, 2006

Effect of Acotiamide on Individual Symptoms of Functional Dyspepsia



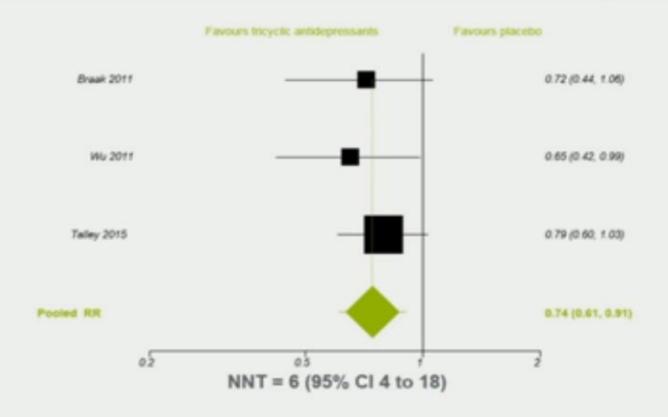
Matsueda et al. Gut 2012;61:821-8

Antidepressants

- Available trials small and of poor quality
- Evidence for efficacy is limited
- Should be used for patients with psychological comorbidities or long persistent symptoms that failed conventional therapy

Sleisenger and Fordtrans Gastrointestinal and Liver disease Tack et al . Functional Dyspepsia J Gastroenterology 2008

Effect of Tricyclic Antidepressants on Functional Dyspepsia



Ford et al. Gut 2016;doi:10.1136/gutjnl-2015-310721

Psychological Interventions

- Group Support
- Cognitive Therapy
- Psychotherapy
- Hypnotherapy
- Relaxation therapy

Soo et al — insufficient evidence to support use as therapy

Soo, et al. Psychological Interventions for non-ulcer dyspepsia.
 Cochrane Library, 2008; 4

SUMMARY

- Define Dyspepsia
- Have an approach to Uninvestigated Dyspepsia
- Understand Functional Dyspepsia
- Rationalize the benefits vs harm

Endoscopy
Test and Treat
Empiric PPI
Antidepressants
Prokinetics
Psychotherapy

. THANK YOU

A patient with dyspeptic symptoms undergoes endoscopy which yields no remarkable findings. Physical exam, routine blood tests, and abdominal ultrasonography are unremarkable. She has not yet been given a trial of any medications. At this point, what is the best initial choice of empiric therapy for this patient?

- A. Proton pump inhibitor
- B. Alonsetron
- C. Ondansetron
- D. Tegaserod
- E. Sumatriptan

- The recommended response is A.
- A subset of patients with non-ulcer dyspepsia (NUD) may
 actually have acid hypersensitivity or GERD, which can
 present in an atypical fashion. Acid inhibitory therapy with
 proton pump inhibitors may lead to complete symptom
 resolution in 25% to 50% of NUD patients. Efficacy of 5HT3 antagonists (alonsetron, granisetron and
 ondansetron) or the 5-HT4 antagonist tegaserod, in NUD
 has not yet been clearly demonstrated. Clinical studies of
 5-HTI agonists (sumatriptan, buspirone) demonstrate
 improved gastric accommodation in NUD patients.
 However, due to significant side effects these agents are
 not currently recommended as first line therapy for NUD.

Groskreutz JL, Kim CH. Schatzki's ring: Long-term results following dilation. Gastrointest Endosc 1990;36:479.

- A 66-year-old black male with a 6-month history of dyspepsia presents for evaluation. His symptoms previously responded well to antacids and over-thecounter H2-receptor antagonists, but have not been relieved by these treatments in the past two months. He does not have dysphagia or weight loss. Physical examination and blood counts are normal. Which of the following is most appropriate as the next step in the management of this patient?
- A. Treatment for Helicobacter pylori
- B. CT scan
- C. Upper endoscopy
- D. Gastric motility testing
- E. Proton pump inhibitor

The recommended response is C.

- An important early decision in the evaluation and management of patients with dyspepsia is to determine whether presenting symptoms and signs are of sufficient concern to suggest the possibility of gastric malignancy or an ulcer complication (e.g., alarm symptoms). These would be new onset of symptoms after age 50 (as in this case), anorexia, dysphagia, gross or occult gastrointestinal bleeding, unexplained anemia, weight loss, significant vomiting or an upper gastrointestinal barium study suspicious for cancer. The presence of these features are indications for early endoscopy.
- Groskreutz JL, Kim CH. Schatzki's ring: Long-term results following dilation. Gastrointest Endosc

Dyspepsia Questions

25 y/o Chinese graduate student with a 6 month hx of dyspepsia is referred for your evaluation by her laboratory supervisor. Her symptoms previously responded well to antacids and over the counter H2RA, but have not been relived by these treatments in the past 2 months. She does not have typical acid reflux symptoms and takes no other prescription or over the counter medications. Physical examination and blood counts are normal. Which of the following is the most appropriate as the next step in the management of this patient?

Dyspepsia Questions

- A. Upper Endoscopy
- B. PPI
- C. CT Scan of the abdomen and pelvis
- D. Testing for HP
- E. RUQ US

Dyspepsia Questions

Answer – D

An important early decision in the evaluation and management of patients with dyspepsia is to determine whether presenting symptoms and signs are of sufficient concern to suggest the possibility of gastric malignancy or an ulcer complication. In the absence of alarm features, testing for H pylori is advisable as the initial step in management, particularly in populations of high HP prevalence.

Table 2. Dyspeptic symptoms and their definitions

Symptom	Definition				
Epigastric pain	Epigastric refers to the region between the umbilicus and lower end of the sternum, and marked by the midclavicular lines. Pain refers to a subjective, unpleasant sensation; some patients may feel that tissue damage is occurring. Other symptoms may be extremely bothersome without being interpreted by the patient as pain.				
Epigastric burning	Epigastric refers to the region between the umbilicus and lower end of the sternum, and marked by the midclavicular lines. Burning refers to an unpleasant subjective sensation of heat.				
Postprandial fullness	An unpleasant sensation like the prolonged persistence of food in the stomach				
Early satiation	A feeling that the stomach is overfilled soon after starting to eat, out of proportion to the size of the meal being eaten, so that the meal cannot be finished. Previously, the term "early satiety" was used, but satiation is the correct term for the disappearance of the sensation of appetite during food ingestion.				

Epidemiology

- Difficult to assess given variability in definition
- Fairly common ranging between 10-45 % of general population
- Estimated prevalence of 25% in the United States
- Annual incidence of 1% 6%
- Slightly higher frequency in women than men

Organic Causes

- 1. Peptic Ulcer Disease
- 2. GERD
- 3. Intolerance to food or drugs
- 4. Gastric and Esophageal Cancer
- 5. Pancreatic and Biliary Tract Disorders
- 6. Other

GERD and Dyspepsia

- Approximately 20% of dyspeptic pts
- 15-20% of patients with dyspepsia have erosive esophagitis
- 20% of patients have endoscopy negative GERD (i.e., NERD)
- 40% of patients with Barrett's had no symptoms

Risk Factors

Gastric Cancer

- 1. Male
- 2. Age greater than 50
- 3. Tobacco/ETOH
- 4. H pylori (60%)
- 5. Atrophic gastritis
- 6. Inherited syndromes
- 7. Prior partial gastrectomy

Esophageal Adenocarcinoma

- 1. Male > Female
- 2. Tobacco
- 3. **ETOH**
- 4. Long standing history of heartburn (Barrett's esophagus)

Malignancy and Dyspepsia

Metastasis to stomach is rare (1%)

Sites

- 1. Breast
- 2. Lung
- 3. Melanoma
- 4. Ovarian
- 5. Cervical
- 6. Pancreatic
- 7. Hepatocellular

Symptoms

- 1. Melena
- 2. Epigastric Pain
- 3. Anemia

Journal of Gastroenterology and Hepatology

Development and Evaluation of a Modified Frequency Scale for the Symptoms of Gastroesophageal Reflux Disease to Distinguish Functional Dyspepsia From Nonerosive Reflux Disease

Motoyasu Kusano; Hiroko Hosaka; Akiyo Kawada; Shikou Kuribayashi; Yasuyuki Shimoyama; Osamu Kawamura Fumitaka Moki

Disclosures

J Gastroenterol Hepatol. 2012;27(7):1187-1191.



 Table 1
 Modified frequency scale for the symptoms of gastroesophageal reflux disease (GERD)

Question		Circle the appropriate response					
		Never	Occasionally	Sometimes	Often	Always	
1	Do you get heartburn?	0	1	2	3	4	
2	Does your stomach get bloated?	0	1	2	3	4	
3	Does your stomach ever feel heavy after meals?	0	1	2	3	4	
4	Do you sometimes subconsciously rub your chest with your hand?	0	1	2	3	4	
5	Do you ever feel sick after meals?	0	1	2	3	4	
6	Do you get heartburn after meals?	0	1	2	3	4	
7	Do you have an unusual (e.g. burning) sensation in your throat?	0	1	2	3	4	
8	Do you feel full while eating meals?	0	1	2	3	4	
9	Do some things get stuck when you swallow?	0	1	2	3	4	
10	Do you get bitter liquid (acid) coming up into your throat?	0	1	2	3	4	
11	Do you burp a lot?	0	1	2	3	4	
12	Do you get heartburn if you bend over?	0	1	2	3	4	
13	Do you get epigastric pain (burning) after meals?	0	1	2	3	4	
14	Do you get epigastric pain (burning) before meals?	0	1	2	3	4	

Functional Dyspepsia

- Accounts for 50-60% of all dyspepsia
- 40 to 60 % of patients with dyspepsia evaluated via EGD will have normal findings
- Often chronic and intermittent symptoms
- > 75% of patients have aggravation of symptoms after meals

Talley NJ, Silverstein MD, Agreus L, Nyren O, SonnenbergA, Holtman G. AGA technical review: evaluation of dyspepsia. Gastroenterology 1998

Diagnostic Criteria for Functional Dyspepsia and Subgroups (Rome III)

Postprandial Distress Syndrome

One or both:

- Bothersome postprandial fullness, occurring after ordinary size meals, at least several times a week
- Early satiety, preventing finishing a regular meal that occurs at least several times a week

Epigastric Pain Syndrome

All of the following:

- Pain/burning in epigastrium of moderate severity at least once a week
- Pain is intermittent
- Not generalized or localized to other abdominal or chest regions
- Not relieved by defecation or passage of flatus
- Not fulfilling criteria for gallbladder or Sphincter of Oddi disorders



Clinical Guidelines | Published: 20 June 2017

ACG and CAG Clinical Guideline: Management of Dyspepsia

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1 An Errata, Corrigenda and Retractions to this article was published on 01 August 2017

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Table 2. PICO statements evaluated in the dyspepsia guideline											
Informal Question		Method									
	Population	Intervention(s)	Comparator	Outcome							
What is the most appropriate initial evaluation for patients ≥60 years of age with dyspepsia?	Adult uninvestigated dyspepsia patients stratified by age	Endoscopy	Symptomatic management	Upper GI cancers detected Early upper GI cancers detected Rates of upper GI malignancy by age Adverse events	Observational data						

STATEMENT 1. WE SUGGEST DYSPEPSIA PATIENTS AGED 60 OR OVER HAVE AN ENDOSCOPY TO EXCLUDE UPPER GASTROINTESTINAL NEOPLASIA

Conditional recommendation, very low quality evidence

STATEMENT 2. WE DO NOT SUGGEST ENDOSCOPY TO INVESTIGATE ALARM FEATURES FOR DYSPEPSIA PATIENTS UNDER THE AGE OF 60 TO EXCLUDE UPPER GI NEOPLASIA

Conditional recommendation, moderate quality evidence

Disadvantages of Empiric Antisecretory therapy

- Rapid relapse of symptoms after cessation of therapy
- Delays diagnostic testing
- Concern that PUD is inadequately treated
- Long term therapy that is not required

Test and Treat

" Small but significant therapeutic gain achieved with H pylori eradication in functional dyspepsia

McNamara et al – RCT 100 patients

- 5 year followup symptom questionaire
- Sustained remission of symptoms with TT

Moayyedi et al: Cochrane database 20 Talley et al: American Journal of Gastro 200

Management Functional Dyspepsia

Acid suppressive therapy

Moayyedi et al – Meta analysis of 8 RCT

- 1. PPI superior to placebo (NNT 9)
- No difference in PPI dosing regimens
- Most effective when dyspepsia and reflux
- PPI with better response rate vs H2RB (31 to 21 %)(p <0.05)

Own Bias – ERADICATION

- Endoscopically diagnosed PUD/Complicated
- Dyspepsia Uninvestigated (Test and Treat) NO Serological Markers Pep I,II
- Endoscopic Gastritis NO(Kyoto HP associated)
 Serological Markers

 - Histology

Family Members / Malt Lymphoma

OTHERS: Long Term PPI – Reflux Disease (Hp +) **NSAID** initiation

Viceral Hypersensitivty

- Up to 30% Visceral hypersensitivity
- Abnormally enhanced perception to visceral stimuli
- Not related to gastric acid secretion, accommodation, compliance or emptying

Impaired fundic accomodation

- 40% of FD patients
- Increased intra gastric pressure which leads to activation of mechanoreceptors in the abdominal wall, inducing symptoms

Delayed Gastric Emptying

- 25 45% of all FD pts
- Waldron et al Meta analysis 17 studies- 868 dyspeptic pts/397 controls

40% significant delay of gastric emptying

 Failed to find correlation between symptoms and DGE

Tack J, Bisschops R, Sarnelli G. Pathophysiology and Treatment of Functional Dyspepsia. Gastroenterology 2004

H pylori and FD

- Role remains controversial
- No consistent differences in symptom patterns for H pylori + vs negative pts
- Dyspepsia improved with tx
- Ang et al 31% of patients treated had complete resolution of symptoms at 1 year

Folk et al. J Gastroenetrology. 2011 Ang et al. J. Gastroenterology. 2006 Moayyedi et al . AmJ Gastroenterology. 2003