风暴式医学软程 MOSBY'S CRASH COURSE (原版英文医学教程)

胃肠病学 Gastroenterology

Emma Lam ○ Martin Lombard with Wilfred Yeo Series Editor



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Mosby's Crash Course

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Gastroenterology

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科学出版社

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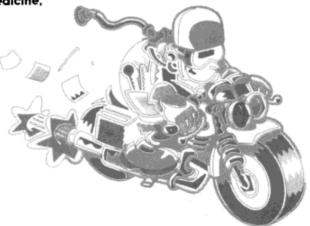
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Series editor Wilfred Yeo

BMedSci, MB, ChB, MD, MRCP Senior Lecturer in Medicine, Medicine/Clinical Pharmacology and Therapeutics, University of Sheffield



Gastroenterology

Emma Lam

BSc (Hons), MB ChB, MRCP (UK) Specialist Registrar Llandough Hospital Cardiff

Martin Lombard

MD, MSc, FRCPi, FRCP (Lond)
Consultant Physician and
Gastroenterologist
Royal Liverpool University
Hospital,
and
Senior Lecturer in Medicine.
University of Liverpool,
Liverpool

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Having recently been through the system of medical school and MRCP (and revising at my desk until the early hours of the morning) I know what an enormous help a concise and well illustrated text can be! This book is primarily aimed at undergraduates who are revising for their exams, but it can serve as an aide-mémoire for house officers and other medically related professionals. Those preparing for MRCP will also find it useful as an overview of gastroenterology. However you use it, enjoy it—if only this book had been around when I was doing my exams!

Emma Lam

Despite their best intentions and notice of timetables, all students find that exams come too soon. Crash Course is written by people who've been there for people who are getting there! The clinical series is largely written by young doctors in training who have recently passed their exams and who know what you need to know to pass and excel in your exam. This book on gastroenterology tells you that, but I hope is comprehensive enough to give you even more—a good grounding in gastroenterology. It may therefore prove useful as a brief reference for forgotten facts even for those not doing exams. It doesn't pretend to give all of the detail required to practice gastroenterology, but should be used as a primer for those starting out in a career in gastroenterology and as a crash course for those coming up to examinations. The illustrations in this book pack in thousands more words than we could in the text and I hope you will enjoy learning from them.

Martin Lombard

So you have an exam in medicine and you don't know where to start? The answer is easy—start with *Crash Course*. Medicine is fun to learn if you can bring it to life with patients who need their problems solving. Conventional medical textbooks are written back-to-front, starting with the diagnosis and then describing the disease. This is because medicine evolved by careful observations and descriptions of individual diseases for which, until this century, there was no treatment. Modern medicine is about problem solving, learning methods to find the right path through the differential diagnosis, and offering treatment promptly.

This series of books has been designed to help you solve common medical problems by starting with the patient and extracting the salient points in the history, examination, and investigations. Part II gives you essential information on the physical examination and investigations as seen through the eyes of practising doctors in their specialty. Once the diagnosis is made, you can refer to Part III to confirm that the diagnosis is correct and get advice regarding treatment.

Throughout the series we have included informative diagrams and hints and tips boxes to simplify your learning. The books are meant as revision tools, but are comprehensive, accurate, and well balanced and should enable you to learn each subject well. To check that you did learn something from the book (rather than just flashing it in front of your eyes!), we have added a self-assessment section in the usual format of most medical exams—multiple-choice and short-answer questions (with answers), and patient management problems for self-directed learning. Good luck!

Wilf Yeo Series Editor (Clinical)

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Dedicated to the memory of my father.

E.L.

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1. Indigestion

'Indigestion' encompasses a vast number of symptoms representing upper digestive problems with which a patient may present. These include:

- Heartburn.
- Fullness.
- Early satiety.
- Upper abdominal pain or ache.
- Flatulence.
- Hiccups.
- Belching.

The generic term that is useful to describe this constellation of symptoms is dyspepsia.

Dyspepsia:

- Is very common and occurs in up to 10% of the adult population. At least half of these 10% seek advice from their family doctor.
- Accounts for 40% of referrals to gastroenterology units.

Dysphagia, or difficulty in swallowing, is dealt with separately.

HISTORY OF THE PATIENT WITH INDIGESTION

When taking a history from a patient with dyspepsia, it is useful to classify the problem according to the group of symptoms present, although this does not always correlate with the pathology. Dyspepsia is characterized as:

- 'Reflux-like', if heartburn or chest pain predominate.
- 'Ulcer-like', if the characteristics convey the impression of peptic ulcer disease. This is confirmed by the presence of Helicobacter pylori in the gastric antrum (see Chapter 19).
- 'Non-ulcer dyspepsia', this describes similar symptoms in the absence of H. pylori.

History of heartburn

Heartburn is the key to differentiating reflux-like dyspepsia from other forms. It is described as a burning

sensation which the patient locates retrosternally (behind the sternum). It is a diffuse and poorly localized sensation, typically worse on lying and leaning forward.

Excess saliva

'Waterbrash' is a specific phenomenon which the patient will describe as a flood of saliva in the mouth. Excess saliva is produced in the mouth and pharynx as a reflex response to acid in the lower oesophagus.

Chest pain

This is a common feature of gastro-oesophageal reflux.

Pain due to heartburn often radiates between the shoulder blades. Oesophageal spasm more commonly causes chest pain, which occurs after a meal but can arise spontaneously. The pain is:

- Typically over the sternum.
- Often severe.
- Sometimes described as 'something squeezing my inside'.

This pain is often confused with cardiac chest pain and, more confusingly, nitrates will relieve both spasm and



Oesophageal spasm tends not to be exercise-related. However, radiation of the pain to the jaw and left shoulder/arm can occur in

severe cases, similar to cardiac pain. Change in severity of the pain in relation to body position is a helpful clue, since reflux symptoms will worsen when lying flat (e.g. in bed) or stooping forward (i.e. to pick something off the floor), and can be relieved when the patient sits or stands upright. Nausea or vomiting is unusual with reflux, but not uncommon with myocardial infarction.



angina, making it a diagnostic conundrum.

Other common causes of oesophageal spasm are:

- Underlying acid reflux.
- Achalasia

A history of either condition should raise suspicion in someone presenting with atypical chest pain.

Other causes of chest pain are usually easy to differentiate. Pain due to pulmonary disease is more often sharp or stabbing like a knife-cut, and is referred to as pleuritic. It is worse when breathing deeply, which does not have an effect on oesophageal pain.

Nocturnal cough/asthma

Some patients with severe acid reflux do not complain of heartburn or chest pain, but develop cough or wheeze during the night when they are lying flat. They often lack symptoms during the daytime.

Characteristically, they will demonstrate a 'morning dip' in their peak-flow recordings (Fig. 1.1). The bronchospasm is thought to be due to microaspiration of acid, but a vagal reflex may also be involved

bronchospasm is ablated by vagotomy.

Asthmatics have a higher than average prevalence of heartburn. Increased intra-abdominal pressure may play a role, but some drugs such as theophylline also lower the sphincter tone.

because experimentally, oesophageal acid-induced

Aggravating and risk factors for reflux

The most important risk factor is increased intraabdominal pressure (Fig. 1.2) which can 'squeeze' the stomach contents upwards and, ultimately, squeeze the stomach itself through the hiatus in the diaphragm (hiatus hernia).

Ask about lifestyle habits and medication as:

- Stooping and bending (occupation or sport) aggravate the problem.
- Certain foods, especially those with a high fat content or that are spicy, often aggravate the problem.
- Alcohol ingestion can result in increased acid output, delayed gastric emptying, and gastritis.
- Cigarettes often make reflux symptoms worse: nicotine causes smooth muscle relaxation in the lower oesophageal sphincter.
- Non-steroidal anti-inflammatory drug (NSAID) ingestion can interfere with prostaglandin cytoprotection.

- Caffeine and theophylline cause relaxation of the lower oesophageal sphincter.
- Neuroleptic drugs have an anticholinergic action which also lowers oesophageal tone.

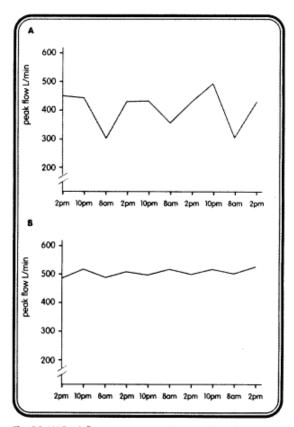


Fig. 1.1 (A) Peak flow measurement in an asthmatic demonstrating 'morning dip' due to acid reflux. (B) This was ablated when the patient took antisecretory medication before going to bed.

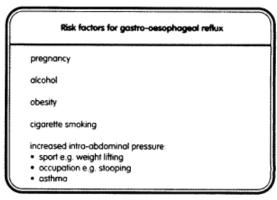


Fig. 1.2 Risk factors for gastro-oesophageal reflux





A long history of heartburn followed by difficulty in swallowing (dysphagia), but improvement in the heartburn may herald a

fibrotic stricture in the lower oesophagus.

Most patients that present with heartburn/reflux symptoms will have tried antacids at some point; these will often provide some form of relief.

All of these dyspeptic symptoms constitute 'gastrooesophageal reflux disease' sometimes abbreviated as GORD.

Epigastric pain

Epigastric pain is not a feature of GORD, but characterizes dyspepsia as 'ulcer-like'. It is a very common presenting complaint, but:

- The history is often vague.
- Sometimes patients have difficulty ascribing the term 'pain' to what they feel. The pain is often described as 'gnawing' or a dull ache which never goes away.

Pain due to:

- Peptic ulcer disease is occasionally more easily localized. The patient may point to a spot with one finger, although this is not a reliable sign.
- A gastric ulcer is often worse immediately after eating.

Duodenal ulcer pain is:

- Commonly relieved by antacids.
- Worse at night or in the fasted state, so the patient will often eat or drink milk before going to bed at night.

A family history is common. Find out about lifestyle habits such as smoking and drinking; these are important because they may contribute to gastritis.



Peptic ulcers associated with NSAID use are usually painless and often present with occult bleeding. Medication such as NSAIDs can also cause gastritis, erosions, and ulcers.

Epigastric pain presenting with weight loss may indicate gastric carcinoma and warrants urgent investigation.

Flatulence, belching, bloating, early satiety

These symptoms are characteristically more vague. The term 'non-ulcer dyspepsia' is used to account for symptoms that occur in the absence of demonstrable acid reflux or Helicobacter-related disease (duodenal and gastric ulcer; duodenitis and gastritis).

Non-ulcer dyspepsia and peptic ulcer pain can be difficult to differentiate from other causes of acute and chronic abdominal pain, discussed in Chapters 3 and 4. Non-ulcer dyspepsia is thought to be due to abnormal motility or abnormal sensitivity of the upper GI structures to distension.



Weight loss or anaemia is never due to dyspepsia alone. The presence of vomiting more typically occurs with other causes of abdominal pain.

EXAMINING THE PATIENT WITH INDIGESTION

Check for:

- Obesity or pregnancy—these may support a diagnosis of GORD.
- More subtle signs, such as tar staining on fingers and features of iron deficiency anaemia—these may also be consistent with GORD but not exclusively so.
- Chronic GI blood loss and iron deficiency—these may be caused by ulceration of the oesophageal mucosa and may indicate chronic severe acid reflux.
- Tooth erosion by acid—this may be a sign of very severe reflux.

Often, physical examination is normal for patients with reflux disease. Examination is also unremarkable in the case of oesophageal spasm.