LETTERS TO THE EDITOR

Campylobacter-like organisms in heterotopic gastric mucosa of the upper oesophagus

Campylobacter-like organisms (CLO) are strongly associated in the stomach with active type B chronic gastritis, and several different studies have suggested a role for CLO in the natural history of the disease. CLO are closely apposed to gastric mucin secreting cells in the stomach, and they can be found in areas of gastric metaplasia in the duodenum where they are supposed to be a key factor in the tendency of duodenal ulcers to relapse.1 CLO can also be observed in Barrett's oesophagus, but their incidence must probably be low, with a minor role in the natural history of the disease.2 We wondered, therefore, whether CLO could be detected in heterotopic gastric mucosa of the upper oesophagus in adults, and what relation, if any, CLO might show to active inflammation in heterotopic gastric mucosa. Heterotopic gastric mucosa is a benign and usually asymptomatic condition, the congenital nature of which has recently been questioned.3 We reviewed 56 cases of heterotopic gastric mucosa from our files; the histological and histochemical aspects of 24 of these cases have already been published.4 The heterotopic gastric mucosa was classified as antral or body type, and signs of inflammation were scored on sections stained with haematoxylin and eosin according to the criteria of Marshall5; grade 0 to 1, normal histological features; grade 2, increase in mononuclear cells; grade 3, increase of mononuclear and polymorphonuclear cells with intrapithelial invasion of polymorphonuclear cells. Modified Giemsa stained slides were used for the detection of CLO.

Six heterotopic gastric mucosa consisted of antral type mucosa, the remaining 50 had body-type glands; 23 showed signs of inflammation—18 cases with grade 2 and 3 cases with grade 3. CLO were observed in three out of the 56 (5.3%) heterotopic gastric mucosa, all three with body-type mucosa, the latter being normal in one case and of grade 3 inflammation in two cases. In addition to heterotopic gastric mucosa, gastric biopsy specimens obtained in 18 of the 56 patients during the same endoscopy, were also examined for inflammation and CLO. Two of the three patients with CLO in their heterotopic gastric mucosa had concomitant gastric biopsy specimens which also showed active chronic gastritis with CLO. Among 16 patients with CLO negative heterotopic gastric mucosa 13 had normal concomitant gastric biopsy specimens without CLO, and three had concomitant CLO associated active chronic gastritis.

Our results show that CLO can be rarely observed in heterotopic gastric mucosa. As Helicobacter pylori has never been cultured from the oropharynx,1 it is likely to be transmitted from the stomach up into the cervical oesophagus from oropharyngeal reflux of contaminated gastric juice. Our results in patients with heterotopic gastric mucosa from whom gastric biopsy specimens were taken would support this hypothesis. Some of our data also suggest that CLO could be responsible for the inflammatory changes which are rarely observed in heterotrophic gastric mucosa. CLO could therefore have a role in the rare complications of heterotrophic gastric mucosa such as inflammation, ulceration, or stenosis, in the same way as it has been shown in duodenal ulcer, and suggested in Barrett's oesophagus.2

4 Superior stain for Helicobacter pylori using toluidine O.
6 Toluidine blue using Sorenson's phosphate buffer.
7 Slater B. King Fahd Armed Forces Hospital, Laboratory Medicine Department, PO Box 9862, Jeddah 21159, Saudi Arabia.

Thrombotic thrombocytopenic purpura (TPP) complicating leprosporiasis: a previously undescribed association

Thrombotic thrombocytopenic purpura is a rare condition which can occur without an identifiable precipitant,1 although it has been described in association with a variety of infective and therapeutic agents.2 It is characterised by a combination of thrombocytopenic purpura, microangiopathic haemolytic anaemia, renal impairment, a neurological deficit and fever. Unlike disseminated intravascular coagulation, there is a minimal disturbance of coagulation, and histology shows characteristic granular hyaline thrombi within small vessels, an appearance not seen in disseminated intravascular coagulation.3
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The organisation of most pharmacology texts is based on organ systems, classes of drugs, or disease states. In this easily readable but detailed book a novel approach is taken. The biological, chemical, and molecular concepts which are the basis of pharmacology and thus underlie the principles of drug action are presented.

The opening chapters cover the molecular basis of drug specificity, and this is one of the few general pharmacology books to include information on the influence of chirality and stereoselectivity on the interaction between the drug molecule and its site of action. Many examples in which an unusual response to a drug may be precipitated by hereditary factors are given in the chapter on pharmacogenetics. This book also covers the areas of carcinogenesis, mutagenesis, and teratogenesis in addition to drug metabolism, allergy, resistance, tolerance, and physical dependence.

There have been tremendous advances in the understanding of drug action in the 16 years since the last edition of this textbook and, with the advent of new technology that knowledge is still evolving. My major criticism is that textbooks which include state-of-the-art research in a rapidly advancing area will quickly become out of date. It is to be hoped that we do not have to wait another 16 years for the next revision. There is a definite need for a frequently updated text of this kind available at a reasonable price.

In short, this is a book which will help not only the pharmacologist, but also the biological scientist, chemist, and clinician to understand the factors which regulate and determine drug action.

I LENNARD


The arrival of an "Aids to MRCPath" book has been long awaited by histopathology trainees such as myself for whom the final exam looms large on the horizon. Advanced Histopathology admirably fills this gap in the market. Contrary to what its title may suggest, this is not a conventional textbook of pathology; rather, it is a trainee's vade-mecum aimed specifically at how to pass the MRCPath.

The book is divided into sections covering all aspects of the examination including the written paper, post mortem, practical, and viva voce. The largest section of the book (242 pages) is devoted to the written exam. Papers have been reviewed back to 1969 and specimen answers are illustrated. About one quarter of the answers are in the form of essay plans, the remainder as explanatory paragraphs. The post mortem and practical sections are reviewed in slightly less detail, although this is inevitable given the variability of the exam from centre to centre.

The style of the book is informal rather than didactic and I found it very readable. One minor criticism is that for many candidates at this stage of their career, much of the information is superfluous: how many of us need to be reminded to take an extra pen to the exam in case the one we're using runs out? This aside, the book is helpful and informative and will, I believe, help most candidates optimise their approach to this formidable exam.

P DOMIZIO

NOTICES

Association of Clinical Pathologists
Junior Membership

Junior membership of the Association is available to medical practitioners who have been engaged in the practice of pathology for a period of less than four years. Junior members are able to remain in this category for a maximum of six years or on the attainment of consultant status. The annual subscription is £24 for those resident in the United Kingdom and £55 for those overseas. The annual subscription may be claimed against tax.

Junior members receive the Journal of Clinical Pathology each month. Other benefits are reduced registration fees to attend ACP scientific meetings, all the documents regularly sent to full members of the Association including ACP News, which has a regular column for juniors, and the twice yearly summary of pathology courses included in the ACP programme of postgraduate education. Junior members have their own representative body, the Junior Members' Group, which has a direct input to Council.

For Junior Membership apply to: The Honorary Secretary, Association of Clinical Pathologists, School of Biological Sciences, Falmer, Brighton, BNI 9QQ. (0273) 678435.

ACP Locum Bureau
The Association of Clinical Pathologists runs a locum bureau for consultant pathologists.

Applicants with the MRCPath who would like to do locums and anyone requiring a locum should contact The General Secretary, School of Biological Sciences, Falmer, Brighton, BNI 9QQ. Tel and Fax: 0273 678435.

Corrections

We are indebted to Dr Hatchierian of Fresnes for pointing out some errors in units given in the article "Thrombotic thrombocytopenic purpura (TTP) complicating leprospirosis" (1990;43:961). The fibrinogen concentration should have been expressed as g/l throughout (not g/dl as it was in one instance), and the bilirubin should have been indicated to be 101 μmol not 101 mmol. The editors try to be vigilant about such things, but slips-UPS occur occasionally and we are grateful to the readers who keep us on our toes.

An error appeared in the paper, Importance of sampling method in DNA analysis of lung cancer (1990;43:820-3): in the second to last line of the abstract tumour selection should have been printed rather than turnover selection.