When is a coeliac a coeliac?

EDITOR,—We read with interest the Science Alert comment by Mäki (Gut 1997;41:565–6) on Dieterich et al’s paper identifying tissue glutamine transaminase (TG) as the antigen for endomyosal antibody (EMA). Unfortunately, Dr Mäki’s comments were somewhat speculative and severely biased towards his own view that gluten somehow (but how?) reveals neoepitopes which, by inducing antibodies to connective tissue, apparently provide the key to the central pathogenic mechanism for gluten sensitivity. It is hardly useful to read that “…coeliac disease is indeed self-perpetuating and irreversible if the environment triggers coeliac disease, is not remembered…” that information has been around since Dicke’s era.

That there have been exciting findings from Solid and colleagues from Oslo regarding in vivo response of cloned (CD4+) mucosal T lymphocytes to gluten and its derivative peptides with the production of interferon γ and other TH1-type cytokines,7 seems to have escaped Dr Mäki’s pen. Moreover, it seems certain that, over the next few years, the Oslo group is set to define the qualitative T lymphocyte responses underlying mucosal damage in gluten sensitivity; and the gliadin peptides which evoke such changes is important to stress that these experiments underpin the drift of clinical research over the years which again has led to the inevitable conclusion that gluten sensitivity depends on T lymphocyte responses and not on B (humoral) immunology.4 That gluten sensitivity with all its clinical and immunopathological findings can occur without demonstrable antibody5 should alarmfully inform Dr Mäki (perhaps?) that a theory of pathogenesis for gluten sensitivity, based solely on antibodies, will not do; that idea has already been dismissed by others.6

More importantly, at present there is no definitive and ample literature about EMA negative patients. It is important to avoid a self-filling prophecy—that is, taking biopsy samples only from EMA positive individuals. A recent editorial (Lancet 1991;337:590) notes the disparity between diagnosis and serology. In most studies, the sensitivity of serological markers has been evaluated in terms of severe (flat) mucosal lesions, or alternatively, a biopsy had only been performed when serological markers were positive.9,10

In contrast, we showed when using TG that sensitivities and specificities for a subgroup of patients fulfilling the ESPGAN criteria with partial villous atrophy at presentation, initially tested by the Berlin group (Dieterich, Schuppan), gave disappointing values of 44% and 88% respectively.

Again, in two independent, prospectively studied groups of coeliac patients,11 the overall sensitivity and specificity of EMA was 50%, and 90–95% respectively. Clearly, EMA is not exclusively positive in every gluten sensitised individual. However, when EMA positivity is related to the severity of the proximal mucosal biopsy, then sensitivity for EMA is about 90% for total villous atrophy, but only 30% for the milder infiltrative-hyperplastic lesions with partial villous atrophy.12 Thus whether the EMA test is positive or not depends entirely on the presence of a severe lesion and possibly on the length of intestine involved. This point needs to be remembered in population studies, especially when a flat, severe lesion is taken as sole manifestation of coeliac disease.

Much more needs to be learned about effective screening for gluten sensitised individuals. Endomyosal antibodies alone fail to predict all such cases and clearly, therefore, do not constitute the universal panacea for this disease as Dr Mäki wants us to believe. Gluten sensitivity is not due exclusively to endomyosal antibody production.

C MULDER
K ROSTAMI
Department of Gastroenterology, Rotterdam Hospital,
PO Box 9555, 6800 TA Arnhem, The Netherlands
M N MARSH
Visiting Professor of Medicine, Department of Medicine,
Dunedin School of Medicine, Dunedin, New Zealand


Gastric bacterial overgrowth is a cause of false positive diagnosis of Helicobacter pylori infection using 13C urea breath test

EDITOR,—We read with interest the paper by Dominguez-Munos et al (Gut 1997;40:459–62) describing an optimal test drink in the 13C-urea breath test (13C UBT) for the diagnosis of Helicobacter pylori infection. In this study all H pylori negative subjects (adults with dyspeptic symptoms) had a negative result with the 13C UBT (specificity 100%) after different meals. In other studies, using the 13C UBT to detect H pylori infection both in adults and children, the sensitivity of the test ranged from 92 to 100% whereas specificity was usually above 92%.1,2 However, no explanation has been given for the occurrence of false positive tests. Here, we report two children with a positive 13C UBT from the presence of urease positive bacteria other than H pylori in the stomach.

A 14 month old girl operated on just after birth for a congenital diaphragmatic hernia and presenting with severe gastrooesophageal reflux associated with oesophageal dilatation and swallowing dysfunction was referred because of gastro-oesophageal haemorrhage. Endoscopy revealed oesophageal dilatation, severe oesophagitis and a gastric stasis. The gastric and duodenal mucosa appeared normal. She was treated for two months with H2 receptor antagonists. Antral and fundal biopsy samples (n=5) showed mild gastritis and were negative for Campylobacter and H pylori (Giems staining). Direct examination and culture of gastric biopsy specimens were both negative for H pylori. Serum specific antibodies against H pylori (ELISA) were also negative.3,4 13C UBT was abnormal (5.63%; normal values <3%). Cultures of gastric secretions revealed gastric bacterial overgrowth with colibacteria known to have urease activity (that is, Proteus mirabilis). An 8 year old boy operated on just after birth for gastroschisis was referred because of a six month history of abdominal pain. Physical examination was normal. Endoscopy revealed moderate gastric stasis. Examination and culture of both antral and fundic biopsy specimens (n=5) were negative for H pylori as were serum specific antibodies against H pylori (ELISA).5 13C UBT was slightly abnormal (3.25%; normal values <3%). Culture of gastric secretions revealed gastric bacterial overgrowth with species, including micrococcus, with urease activity.

These two cases demonstrate that hydrolysis of urea as a result of bacterial urease may occur in the presence of H pylori negative subjects, and that 13C-urea can be hydrolysed in the presence of urease from bacterial species other than H pylori. Several bacteria—for example, P mirabilis, Escherichia coli, Yersinia enterocolitica, Klebsiella pneumoniae, Staphylococcus aureus, have urease activity, but they do not usually colonise the stomach. Gastric bacterial overgrowth was probably favoured by prolonged antisecretory treatment in the first case and by gastric emptying abnormalities in the second (intestinal malrotation associated with gastroschisis). Urease activity associated with H pylori infection usually causes greater excretion of 13CO2 measured by breath test as observed in our two patients (5.6 and 3.25%, respectively). As the cut off value of 3.00% has been validated in both adults and children2 and no technical bias occurred, false positive results can be ruled out in our patients.

In summary, the 13C UBT is a sensitive and specific method for the non-invasive detection of H pylori infection, but gastric bacterial overgrowth may lead to a false positive
The Maastricht Consensus Report

Treating young dyspeptic patients

Editor,—The Maastricht Consensus Report (Gut 1997;41:8–13) is a welcome benchmark summarising current opinion and scientific evidence regarding the role of Helicobacter pylori in gastroduodenal disorders. Whereas the management of peptic ulcer disease is no longer controversial and is very evidence-based the same is not yet true for the syndrome of non-ulcer dyspepsia and the management of the uninvestigated dyspeptic patient. The recommendation of the Maastricht Report reflects this uncertainty. They recommend that at the specialist level, eradication therapy should be offered to Helicobacter pylori infected patients. Aspects quantitatifs et interét diagnostique chez l’enfant [abstract]. Gastronomie Clin Biol 1997;21:A71.

Functional dyspepsia in the young


The University of Sydney, Concord Hospital, Concord 2139, Sydney, Australia


Functional dyspepsia in the young


The University of Sydney, Concord Hospital, Concord 2139, Sydney, Australia


Functional dyspepsia in the young


The University of Sydney, Concord Hospital, Concord 2139, Sydney, Australia


Functional dyspepsia in the young


The University of Sydney, Concord Hospital, Concord 2139, Sydney, Australia


Functional dyspepsia in the young


The University of Sydney, Concord Hospital, Concord 2139, Sydney, Australia


Functional dyspepsia in the young


The University of Sydney, Concord Hospital, Concord 2139, Sydney, Australia


Functional dyspepsia in the young


The University of Sydney, Concord Hospital, Concord 2139, Sydney, Australia


Functional dyspepsia in the young


In the light of the above, it will perhaps come as no surprise that the conclusions recommend widespread testing of dyspepsia under the age of 45 years for *Helicobacter pylori* and subsequent treatment in primary care, supported by no evidence-base whatsoever. The other major conclusion, that proton pump inhibitor based treatment regimens should usually be used is perhaps also understandable in the light of the conference's financial support. Indeed, the conclusions are not even supported by data quoted by these authors themselves, which includes a number of studies with various proton pump based triple therapies which, on an "intention to treat" basis have eradication rates less than the stated ideal of at least 80%.

It appears that you have either been seriously misled or made a grave error of judgement in publishing this paper. Its contents are confused and misleading, its conclusions restrictive and its appearance in a print repetitive, and it does little to guide any of us in the management of *H pylori* infections in Europe, or indeed the world, today.

Furthermore, its publication does little to enhance the reputation of Gut internationally.

R V HEATLEY
School of Medicine, Division of Clinical Medicine, Level 7, Clinical Sciences Building, St James' University Hospital, Leeds LS9 7TF UK

---

**Reply**

**Editor**—We expected that controversy and criticism would follow our attempt to propose European guidelines for the management of a disease as complex as *Helicobacter pylori* infection. Dr Heatley's letter however goes beyond this and can be only regarded as an example of destructive and uninformed criticism. Dr Heatley incorrectly reports aspects of both the structure and the nature of the Maastricht meeting.

The allocation of dual publication, and to castigate both the authors and the editor, is unfair and misleading. An abstract was published in the *European Journal of Gastroenterology and Hepatology*, but the complete report with a detailed description of the meeting structure and outcome, including references supporting the various conclusions, was published in Gut. The Consensus Report is not original work but is of educational value and was intended to be disseminated widely.

The group was not self appointed. The Maastricht Conference gathered together an expert faculty from various medical disciplines, the European *Helicobacter pylori* Study Group, and national representatives, who were nominated by their national gastroenterology societies from 19 European countries. Our aim was to produce management guidelines in this very complex field.

The *European Helicobacter pylori* Study Group, since its foundation in 1987, has been involved in the organisation of educational and scientific meetings both in and beyond Europe initially at a time when *H pylori* was not widely accepted as a cause of gastric disease and presently when there is increasing demand for guidance in treating the infection.

To blame the organisers for seeking support from industry, which was given in the form of an unrestricted educational grant, is unfair. Representatives from the major pharmaceutical companies with an interest in the treatment of peptic ulcer disease, such as Astra, Byk Gulden, Glaxo Wellcome, and Takeda, were invited and did in fact attend the meeting.

With regard to medical aspects of Dr Heatley's letter we would like to remind him that treating *H pylori* positive dyspeptic patients under 45 years of age, without alarm symptoms, with eradication therapy in primary care is not uncommon in the UK. In the absence of evidence, the best available knowledge and experience should be taken into account in guiding clinical practice. At the Maastricht conference we suggested that general practitioners, gastroenterologists and microbiologists should form an interactive network to implement and sustain our recommendations.

The firm recommendation for the PPI containing regimen at a standard dose given twice daily in combination with amoxicillin, clarithromycin or metronidazole was based on the clinical trials available at that time which showed that this treatment was the most suitable in terms of efficacy, compliance and side effects.

We never intended that the Consensus Report should be the final word on the management of *H pylori* infection but rather that it was a starting point and would prompt discussion over the next few years. Certainly, it had enough impact to serve as a model and to inspire other important consensus conferences that have recently taken place in North America, Japan and in the Asia-Pacific region.

P MALFERTHEINER
F MEGRAUD
C O’MORAIN
on behalf of the European *Helicobacter pylori* Study Group

---

**Efficacy of ranitidine bismuth citrate (RBC) dual and triple therapies for the eradication of Helicobacter pylori**

**Editor**—We write in response to the leading article “Current European concepts in the management of *Helicobacter pylori* infection: The Maastricht Consensus Report” recently published (Gut 1997;41:8–13).

The phrase “Additionally, no recommendation can be made regarding the role of RBC until more convincing data are available” is somewhat at variance with the conclusion agreed at the meeting in Maastricht in September 1996 which was sponsored by Astra-Hässle.

The data on RBC reviewed at the Maastricht meeting was based on conclusions drawn from limited information on clinical trials which did not have the eradication of *H pylori* as the primary endpoint. The actual conclusion at the end of the meeting was that “more data are needed to define the role of RBC”.

This was disseminated widely in the form of a document handed out at the 5th United European Gastroenterology Week in Paris in November 1996, and in the summary of the Maastricht conclusions printed in January 1997.

In the year since this meeting took place, results from several clinical trials on RBC dual and triple therapy have been reported. The phase III study of RBC 400 mg twice daily with clarithromycin 500 mg twice daily for 14 days (nine treatment arms from nine clinical studies; six double blind) gave a pooled observed eradication rate in 946 of 1037 patients (89.9%), and the eradication rates were comparable in patients with or without an extra 14 days of RBC 400 mg twice daily added to ensure duodenal ulcer healing. A clinical study evaluating RBC with clarithromycin dual therapy showing a per protocol eradication rate of 95.9% in a large, double blind, randomised study was published in February 1997.

Results of the first two head-to-head, double blind, randomised clinical studies showed that therapy with RBC and clarithromycin gave significantly better eradication results than omeprazole or either omeprazole plus either amoxicillin or clarithromycin.

For those wishing to use three drugs in place of two, triple therapy of RBC 400 mg twice daily with clarithromycin twice daily and a nitromidazole for seven days (nine treatment arms from eight clinical studies; three double blind) gave a pooled intention to treat eradication in 659 of 751 patients (87.2%). Triple therapy of RBC 400 mg twice daily with clarithromycin 500 mg twice daily and amoxicillin 1000 mg twice daily for seven days (eight treatment arms from seven clinical studies; two double blind) gave a pooled intention to treat eradication in 348 of 417 patients (83.5%). Both these treatment regimens were as effective as a proton pump inhibitor with the same antibiotics.

The latest information available from clinical trials with RBC—antibiotic combinations show that either a 14 day dual therapy of RBC with clarithromycin or a seven day triple therapy of RBC with two antibiotics achieves >80% eradication of *H pylori* assessed on an
intention to treat basis. Each of these regimens therefore meet the “Maastricht criteria” of simple and effective eradication therapies.

A DUGGAN
R WILLIAMSON
Observers at the Maastricht Consensus Meeting
Department of Gastroenterology, Glaxo Wellcome plc,
Stockley Park West, Uxbridge UB11 1BT, Middlesex, UK

1 Malfertheiner P, Megraud F, O’Morain C. Current European concepts in the management of Helicobacter pylori infection—The Maastricht Consensus Report. The European Helico-

Reply
EDITOR—While it is true that Astra Hässle provided the grant to the European Helico-
bacter pylori Study Group (EHPSG), it is also true that Drs Duggan and Williamson from Glaxo Wellcome were invited to and took part in the Maastricht meeting.

It was the firm intention of the organisers to collect all available information from clini-
tical trials on H pylori with the aim of producing comprehensive guidelines for the management of H pylori infection. At that time however (September 1996) there were not sufficient data on RBC-based treat-
ment for it to be recommended in the Consensus Report. New data are now available. At the recent EHPSG meeting in Lisbon further data were presented on the efficacy of RBC based treatment and it now meets the criteria agreed at Maastricht.

P MALFERTHEINER
F MEGRAUD
C O’MORAIN
on behalf of the European Helicobacter pylori Study Group

BOOK REVIEWS


In preface to my review of Dr Caprilli’s interesting book I must declare a bias, as I am the author of a volume of similar size and title, also published in 1997. I hope that this has not influenced my comments too much, as the style and objectives of the two books are quite different and potentially complemen-
tary. Although it has a strongly topical slant, my book is much more a general overview of inflammatory bowel disease and bears the strengths and weaknesses of single author-
ship. In contrast, Dr Caprilli has gathered together the material of all contributors to a conference held in 1996. Many of the names are well known, representing major centres in Europe (including Israel) and North America, with a perhaps understandable leaning to the latter contributors (the authors). It seemed at first a little odd that there were no British contributors, but rather than encour-
aging collective xenophobic paranoia this may just as well represent a reason for commending the dedication of my colleagues to their national society, given that the British Society of Gastroenterology was meeting simultaneously, and in Manchester compared with Caprilli at that! The book is arranged into six main sections, and in addition to the themes implied by its subtitle, there are pieces on disease stratification, postoperative recur-
pence, pouchitis, and the place (or otherwise) of the ileoceleal valve, as definitive therapy for ulcerative colitis. It is probably a reflection of the passage of time that, although there is a chapter on family studies, there is no focused section on genetics. It is less clear why the meases hypothesis is not included in the section on predisposing and trigger factors—perhaps because Professor Ekbom was recruited to write instead about cancer! Meases does not make it into the index, but in fact is there a reasoned argument of its potential importance in a wide-ranging chapter on paediatric inflammatory bowel disease.

A FORBES


This is an earnest and well meaning book written by mainly Japanese and American authors. Although entitled Medical and Surgical Management of Hepatobiliary, Pancreatic and Spleenic Disease in Children, this book concentrates on surgical management of selected topics and cannot be considered a comprehen-
sive guide to the medical management of paediatric liver disease.

Nevertheless the book has many strengths. There are five chapters on basic morphology and physiology of the liver which include an excellent summary of the embryology of the liver and bile ducts in this rapidly developing field, and details of the development of the pancreas, including the normal and variant anatomy, which would be helpful to both sur-
geons and endoscopists. This was followed by a fascinating chapter on the functional develop-
ment of the liver which explains many of the difficulties experienced by neonates with liver disease. There are very detailed chapters on cirrhosis and biliary tract maldevelopment which explore the basis for neonatal jaundice and inborn errors of bile salt metabolism. The next series of chapters are devoted to the investigation of the child with liver disease. I found the chapter on the role of liver biopsy disappointing as it contains a number of factually errors (for example, Wilson’s disease does not present with neonatal cholestasis) and does not discuss the difficulties of making an early histological diagnosis of biliary atresia, which is an important practical problem in the 1990s.

The chapters on the role of imaging with ultrasound and hepatosonography are more detailed than would be required and although clinical and histological considerations are discussed, the guidelines are not obvious, particularly as scintigraphy is now rarely used. In contrast the chapter on the use of magnetic resonance imaging and computed tomography scanning is brief and well written and relevant.

The chapters devoted to the use of percutaneous transhepatic cholangiography and endoscopic cholangiopancreato-digestive are brief and many important indications for these techniques are not included (for example, sclerosing cholangitis, post-transplant complications).

In the clinical section of the book, the chapter on neonatal cholestasis provides a good practical guide to the management of these infants, but no other medical liver diseases are included with the exception of cystic fibrosis.

Given the importance of biliary atresia to the Japanese community, it is not surprising that this disease is over represented in this book. There is a long and detailed chapter concentrating on the surgical aspects of hepaticoportoenterostomy which duplicates information in earlier chapters.

The surgical highlights include an up to date and relevant chapter on the medical and surgical aspects of portal hypertension by Professor Howard, and a excellent chapter on liver trauma which will be of considerable help to both paediatricians and surgeons car-
ing for children with abdominal trauma.

No book on liver disease would be complete without a chapter on or chapters on liver transplantation. Transplantation from both cadaveric and living donors is discussed with the emphasis very firmly on the surgical approach and management. There is little attempt to provide information on quality of life and survival.

Pancreatic disease in childhood is rare and one the strengths of this book is to explore the management of pancreatic endocrine disease, pancreatic trauma and of pancreatic tumours. A whole section is devoted to diseases of the spleen—for example, trauma and multi-
system involvement, which is unusual but it was fascinating to discover the entity of the wandering spleen. Although the technique of spleenectomy is discussed, the indications for this usually unnecessary procedure are not included.

In summary, this is a rather patchy book with strengths in basic physiology and morphology and sound on surgical technique and detail. I am sure that it will provide a useful reference book for young surgeons but will disappoint paediatricians looking for comprehensive medical management of hepatobiliary disease.

D A KELLY


This latest volume on colorectal disease represents an attempt to bridge the Atlantic gap.
by bringing together the expertise of authors from both sides of the water, emphasising this by appointing distinguished joint editors from the UK and the USA. The publishers thereby have attempted to widen their potential audience. The place of such a textbook needs to be defined with the knowledge that within the American and the UK markets there are already two respected volumes covering the same subject. The publishers obviously still feel that there is a continuing market for such a text book in a world where the potential purchaser is becoming increasingly computer literate.

Some of the problems with multi-author textbooks include presentation and repetition. I think there is a contrast between the UK and the American style in writing and the American flavour in clinical practice is particularly evident in the chapter on the consulting room set-up and the range of procedures done, with suggestions that the expensive flexible sigmoidoscope will replace the much cheaper and more easily available rigid sigmoidoscope. Repetition may not be such a problem if any approach is from a different angle but—for example, in chapters 5 and 10 there is much repetition and in the chapter on haemorrhoids, perianal haematoma appears on both pages 214 and 230 with much overlapping content. There is also a repeat discussion on pages 352 and 371 on the adenoma-carcinoma sequence. Better editing is required for the next edition.

The authors have attempted a very wide coverage of their subject while at the same time publishing in one volume. This has produced a heavy volume to hold while reading and at the same time in order to accommodate all the data the print type is small and not easy to read for any period of time.

Having initially perhaps been rather negative this is a very comprehensive book with the included chapters having been written by a number of eminent contributors and I have no doubt that it will stand healthily alongside its competitors. I would suggest that this book will find its role as an excellent reference book rather than perhaps being a volume that students of coloproctology, be they undergraduates, potential postgraduates or consultants, will read as their initial introduction to the subject.

R GRACE

NOTES

6th Southeast European Congress of Paediatric Surgery: Short Bowel Syndrome

The 6th Southeast European Congress of Paediatric Surgery: Short Bowel Syndrome will be held in Graz, Austria, on 22–23 May 1998. Further information from: Dr Günther Schmal, Department of Paediatric Surgery, Auenbruggerplatz 34, A-8036 LKH Graz, Austria. Tel: +43 316 385 3762; Fax: +43 316 385 3775.

9th British Association of Day Surgery Annual Scientific Meeting

The 9th British Association of Day Surgery Annual Scientific Meeting and Exhibition will be held at the Harrogate International Centre, Harrogate, UK, on 4–6 June 1998. Further information from: Kite Communications, The Silk Mill House, 196 Huddersfield Road, Meltham, West Yorkshire HD7 3AP, UK. Tel: 01484 854575; Fax: 01484 854 576; email: info@kitecomms.co.uk.

9th International Symposium on Cells of the Hepatic Sinusoid

The 9th International Symposium on Cells of the Hepatic Sinusoid will be held in Christchurch, New Zealand, from 27 September to 1 October 1998. Further information from: Professor Robin Fraser, I.S.C.H.S., Christchurch School of Medicine, PO Box 4345, Christchurch 8001, New Zealand. Tel: +64 3 3640 587; Fax: +64 3 3640 593; email: grogers@chmeds.ac.nz.

Growth Factors and Nutrients in Intestinal Health and Disease

An International Symposium on Growth Factors and Nutrients in Intestinal Health and Disease will be held at the Riha Royal Hotel, Osaka, Japan, from 31 October to 3 November 1998. Further information from: Kinya Sando, MD, Department of Pediatric Surgery, Osaka University Medical School, 2-2 Yamadoaka, Suita, Osaka 565, Japan. Tel: +81 6 879 3753; Fax: +81 6 879 3759; email: gut@pedsurg.med.osaka-u.ac.jp.

XXXth Annual Meeting of the European Pancreatic Club

The XXXth Annual Meeting of the European Pancreatic Club will be held in Thessaloniki, Greece, from 10 to 13 June 1998. Further information from: Diastasi, Congress Secretariat, 30 Katsimichou Street, Thessaloniki 54639, Greece. Tel: 30 31 938 203 or 905 110; Fax: 30 31 909 269.

XXIIIth International Update on Liver Disease

The XXIIIth International Update on Liver Disease will be held at the Royal Free Hospital School of Medicine, London, UK, from 16 to 19 July 1998. Further information from: Professor Neil McIntyre, University Department of Medicine, Royal Free Hospital, Pond Street, London NW3 2QG, UK. Tel: 0171 794 0500 ext 3969; Fax: 0171 830 2321.

Hong Kong Academy of Medicine—First International Congress

The Hong Kong Academy of Medicine will be hosting its First International Congress from 26 to 29 November 1998 in commemoration of the grand opening on its new building. Further information from: Ms Colour Lee, Conference Manager or Miss Phoebe Wong, Administrative Assistant, Hong Kong Academy of Medicine, 9/F, Multicentre Block A, Pamela Youde Nethersole Eastern Hospital, 3 Lok Man Road, Chai Wan, Hong Kong. Tel: 852 2515 5755; Fax: 852 2505 3149; Email: hkam@hkam.org.hk.

Hepatic and Splanchnic Circulation in Health and Disease

An International Conference on Hepatic and Splanchnic Circulation in Health and Disease will be held in Inverness, Scotland, from 20 to 23 June 1999. The conference is designed to provide an international forum of discussion among those interested in the circulatory control of the liver and splanchnic region. Free communication (including keynotes and lectures) and poster sessions will cover physiological control, endothelial function, innervation, ischaemia-reperfusion injury, inflammation, portal hypertension, transplantation. Abstract deadline: 1 November 1998. Further information from: Dr Robert T Mathie, Department of Gastrointestinal Surgery, Imperial College School of Medicine, Hammersmith Hospital, London, UK. Tel: Fax: 0181 383 2267; Email: rmmathie@rpmc.ac.uk; Internet: http://www.otago.ac.nz/inverness.

Falk Symposia and Workshops

The Symposium on Innovative Concepts in Inflammatory Bowel Diseases will be held in Rostock, Germany, from 30 April to 2 May 1998.

The Symposium on New Aspects in Hepatology and Gastroenterology will be held in Tbilisi, Georgia, on 29 and 30 May 1998.

The Symposium on Advances in Inflammatory Bowel Diseases will be held in Brussels, Belgium, on 18–20 June 1998.

The Symposium on Diseases of the Liver and the Bile Ducts—New Aspects and Clinical Implications will be held in Prague, Czech Republic, on 12 and 13 June 1998.

The XV International Bile Acid Meeting: Bile Acids in Cholestasis will be held in Titisee, Germany, on 12 and 13 October 1998.

The Symposium on Colorectal Cancer: Molecular Mechanisms, Premalignant State and its Prevention will be held in Titisee, Germany, on 14 and 15 October 1998.

The Symposium on Intestinal Mucosa and its Diseases—Pathophysiology and Clinics will be held in Titisee, Germany, on 16 and 17 October 1998.

For further information on any of these symposia, please contact: Falk Foundation e.V.—Congress Division, Leinenwebestr. 5, PO Box 6529, D-79041 Freiburg, Germany. Tel: +49 761 130 340; Fax: +49 761 130 3459.

Clinical Training and Research Opportunities in Gastroenterology in Italy

The Società Italiana di Gastroenterologia (SIGE) have produced a booklet on clinical training and research opportunities in gastroenterology in Italy. Further information and a copy of the booklet are available from: SIGE Società Italiana di Gastroenterologia, Via Salvatore di Giacomo 66, 00142 Rome, Italy. Email: roma@sige@uni.net.