Hepatitis E acquired in the UK

We can confirm the finding of McCrudden et al (Gut 2000;46:732–3), that acute infection with hepatitis E virus (HEV) can be acquired in the UK. A 61 year old man presented in March 1999 after a two week illness with fever, malaise, and nausea, followed by cholestatic jaundice and a palpable spleen. Results of tests included alkaline phosphatase 277 IU/L, alanine aminotransferase 2118 IU/L, bilirubin 244 umol/L and INR 1.7. He had no risk factors for liver disease and did not swim in the sea. He had not travelled outside the UK for four years and had never been to an area where hepatitis E was endemic. Serology was negative for acute markers of hepatitis A and EBV and for any evidence of hepatitis B or CMV. Clinical recovery was uneventful and four months later, liver function tests had returned to normal. Serum was taken from the patient at presentation and at one, two, three, and eight months. All specimens were examined by enzyme immunoassay for total anti HEV antibody (HEVEIA, Abbott, Maidenhead, Berks, UK) and IgM anti HEV antibody (HEV IgM ELISA, Genelabs Diagnostics PTE Ltd, Singapore). The first sample was positive in the total and IgM anti HEV antibodies. Over the following months the IgM reacted weakly and then became negative while the total antibody test remained positive. Blood samples from close contacts (including a friend who had been to India four years earlier) were tested at eight months and were all negative for total anti HEV antibody.

We believe that our patient too had UK community acquired hepatitis E, although the source of his infection remains obscure. One possibility is consumption of imported food contaminated with HEV. This mechanism has been responsible for cases of hepatitis A. It is difficult to identify a particular imported food as the patient’s infection, as his dietary habits were not unusual and had not changed. Another hypothesis is that HEV may be a zoonotic infection. HEV has been demonstrated in pigs in several countries, including the US. Two human HEV cases acquired in the US involved a virus similar to HEV isolated from a patient with hepatitis E virus in pigs from countries where hepatitis E is common or rare in the human population. J Med Virol 1999;59:297–302.

Acid suppression and upper GI cancer diagnosis

Eorton,—Bramble et al have recently suggested that the long recognised lack of impact of open access gastroscopy on the detection of earlier upper GI cancer1 may be due in part to the masking of cancer by prior acid suppressive therapy. This is based on a higher rate of undiagnosed cancer at index gastroscopy in their group of patients who had received acid suppressive therapy within the six months before that gastroscopy. They conclude that clinical guidelines and endoscopy waiting times should take account of this. However, there are some serious flaws in their case series which preclude the drawing of such conclusions.

Firstly, their study is retrospective. Without prospective randomisation, one cannot ensure that their two groups are comparable. The patients who were not prescribed antisecretory therapy while others had. This is based on a higher rate of undiagnosed cancer at index gastroscopy in their group of patients who had received acid suppressive therapy within the six months before that gastroscopy. They conclude that clinical guidelines and endoscopy waiting times should take account of this. However, there are some serious flaws in their case series which preclude the drawing of such conclusions.

Secondly, their conclusion is based on a lack of gastric ulcer like symptoms suggesting underlying cancer. Because such symptoms occur in more advanced cancer, the cancer is not surprisingly more likely to be readily detectable. By contrast, the group who were treated with antisecretory medication are more likely to have uncomplicated dyspepsia and thus less advanced and less readily diagnosable tumours at the time initially investigated. Were the two groups comparable with respect to sinister symptoms at the time of presentation?

Finally, we are not proposing any changes which would have “huge resource implications” or result in “major changes in clinical practice”. Our message is that proton pump inhibitors should not be prescribed to patients with dyspepsia over the age of 45 years without a gastroscopy. It follows, therefore, that patients should not have to wait an unnecessarily long time for this simple investigation.

Letter is randomised, controlled trial clinical practice with huge resource implications should be made. Unfortunately, this report does not provide evidence to justify the conclusions made.

Derek Gillen
Kenneth E L McColl
Division of Gastroenterology, Department of Medicine & Therapeutics, University of Glasgow Western Infirmary, Glasgow G11 6NT.

Gut: first published as 10.1136/gut.47.5.741a on 1 November 2000. Downloaded from http://gut.bmj.com/ on September 15, 2023 by guest. Protected by copyright.
really needed to confirm that this is good clinical practice?

M G BRAMBLE
Z SUVAKOVIC
A P S HUNGIN
Centre for Health Studies, University of Durham, 32 Old Elvet, Durham DH1 3HN
C.H.S Office@durham.ac.uk


Re-epithelialisation of Barrett’s oesophagus

EDITOR—We were interested to read the case report by Van Laethem and colleagues of a carcinoma arising under a re-epithelialised segment of Barrett’s oesophagus (Gut 2000;46:574–577). This raises issues in the debate over ablation of Barrett’s epithelium. There has been interest in ablating the columnar epithelium to encourage squamous regrowth which may reduce the risk of progression to adenocarcinoma. However, there have been numerous reports of buried glands under the regenerated mucosa.

While we accept that columnar glands may persist under the squamous epithelium and that this may represent a continuing carcinoma risk, this is difficult to quantify. Indeed, this is the first report of such a malignant change. It may be that as any buried glands are no longer exposed to potential carcino-ma risk, this is di...

C KELTY
R ACKROYD
University Department of Surgery, K Floor Royal Hallamshire Hospital, Glossop Road, Sheffield S10 2JF, UK
clive.kelty@bigfoot.com

Gastric cancer in patients with benign dyspepsia

EDITOR—There is an ongoing debate regarding the value of endoscopy in younger patients presenting with dyspepsia. One important consideration is the likelihood of detecting an underlying cancer which might be cured by early treatment. The large retrospective study by Breslin and colleagues in the January issue of Gut (Gut 2000;46:93–97) indicates that underlying cancer will be diagnosed in about 1 in 1000 patients presenting with uncomplicated dyspepsia under 45 years of age. However, the calculated 95% confidence intervals for this are wide (1 in 2963 to 1 in 300).

An important question in considering the significance of this finding is whether the prevalence of cancer in these patients with benign dyspepsia is any different from that in the general population. In our own country, Scotland, the chance of a patient presenting with gastro-oesophageal cancer before the age of 50 is 1 in 909 (ISD Scotland Cancer Statistics). These figures suggest that the prevalence of underlying cancer in patients presenting with uncomplicated dyspepsia may not be different from that in the general population. Consequently, offering endoscopy to patients with simple uncomplicated dyspepsia to detect cancer may merely repre...

K E L MCCOLL
J N H B
D GILLEN
Department of Medicine and Therapeutics, University of Glasgow, Gardner Institute, Western Infirmary, Glasgow G11 6YN, UK
Correspondence to: Professor K E L McColl.
K.E.L.McColl@clmmed.gla.ac.uk


BOOK REVIEW


I was taught as a medical student that the major function of the colon was that of a storage organ. Since then, premises about the colon have evolved and the complexities of colon function is much better understood, as described by Gibson and Roberfroid’s multi-authored book Colonic Microbiota, Nutrition and Health.

Although the authors state that the pur-pose of the book is to overview current knowledge of the activities and functions of the gut microflora, the scope goes beyond these boundaries and takes us on an ecologi-cal journey into the exciting life of gut microflora and their impact on colon function in health and disease, and the intimate critical relationship between diet, bacteria, and quality of life.

Gastroenterologists are still recovering from the impact that a bacterium, Helicobacter pylori, has had on upper gastrointestinal tract pathology. In this context, it is interesting to note that the large bowel is the most heavily colonised part of the gastrointestinal tract yielding up to 10^{10} bacteria per gram of intestinal contents in healthy human subjects. It is a complex ecosystem in which the numerous...
and different species of bacteria degrade and ferment substrates that have escaped digestion in the small bowel. Major genera include bacteriae, bifidobacteria, lactobacilli, clostridia, and enterobacteria, and the main products of bacterial fermentation of the substrate that reaches the colon are short chain fatty acids (SCFA) and gases including hydrogen, carbon dioxide, and, in some individuals, methane. The relevance of SCFA, is that they act as a source of energy for intestinal mucosal cells and reduce the pH of colonic contents. One particular SCFA, butyrate, may be important in protecting against colorectal cancer. The relevance of fermentation to human metabolism can be gauged from the fact that the energy equivalent of 15–40 g of carbohydrate is metabolised by the large bowel.

The book outlines the technological revolution that has occurred in understanding the natural microbial world. Molecular biology has invaded gut microbiology, with the limitations of enrichment cultural techniques being integrated into techniques based upon the detection of the genomic DNA or the analysis of rRNA. A fascinating aspect of the book that concerns and affects all of us are the chapters on food. With the craze of low carbohydrate diets in order to counter obesity that are sweeping the US, it is refreshing to realise the importance of carbohydrates and the concept of functional food. These foods target specific functional foods in the body in a positive way due to the presence of health enhancing ingredients. Colonic foods are an example of such functional foods that target the large intestine. These are foods that contain an ingredient that does not undergo significant modification during transit through the small intestine, but reach the colon where they are utilised by the resident bacteria producing metabolites that influence the physiological and biochemical processes in a beneficial manner. Dietary fibre is the best known of the “colon foods” and is divided into soluble and insoluble fibre. Soluble fibres include pectin, guar gum, β-glucan, and psyllium and result in modest reductions in blood lipids, affecting the total and LDL cholesterol fractions. Insoluble fibres (cellulose and lignin) are mainly responsible for faecal bulking. Dietary fibre may play a protective role in diverticulase disease and colorectal cancer. Other functional foods are the fructans and resistant starch which, in animal models, affect the triglyceride rich fractions. A novel and potentially important approach to prevention and therapy of colonic diseases is the concept of prebiotics and probiotics. The probiotic approach involves adding live microorganisms to the gastrointestinal tract while prebiotics enhance certain components of the existing flora. Probiotics have potential in the prevention and treatment of rotavirus infections, lactose malabsorption, and food allergy. Tentative claims for benefits of prebiotics include reduction in obesity, improved control of non-insulin dependent diabetes, reduction in the risk of atherosclerotic cardiovascular disease, and prophylaxis of acute gastroenteritis.

How does the above affect individuals? It seems that we should include the following foods in our diet: garlic, onions, asparagus, chicory, dandelion, artichokes, soy beans, leeks, Jerusalem artichokes, wheat, bananas, and rye. Quite a tall order!

The authors have made an important contribution to the concept of the local and systemic effects of the colon, and outlined the benefits of a healthy colon and the evolution of the idea that functional foods have prophylactic and therapeutic properties. A minor criticism is that there is a repetition of ideas in certain chapters. I would highly recommend this excellent work for gastroenterologists as a seminal study. Gastroenterologists, primary care physicians, and nutritionists will find this book a useful guide, but it will also provide a basic understanding for all health workers.

I SEGAL

NOTES

Sir Francis Avery Jones British Society of Gastroenterology Research Award 2001

Applications are invited by the Education Committee of the British Society of Gastroenterology who will recommend to Council the recipient of the 2001 Award. Applications (TWENTY COPIES) should include:

- A manuscript (2 A4 pages ONLY) describing the work conducted
- A bibliography of relevant personal publications
- An outline of the proposed content of the lecture, including title
- A written statement confirming that all or a substantial part of the work has been personally conducted in the UK or Eire.

Entrants must be 40 years old or less on 31 December 2000 but need not be a member of the Society. The recipient will be required to deliver a 30 minute lecture at the Annual meeting of the Society in Glasgow in March 2001. Applications (TWENTY COPIES) should be made to the Endoscopy Section Secretary, British Society of Gastroenterology, 3 St Andrews Place, London NW1 4LB by 1 December 2000.

3rd European Federation of Autonomic Societies (EFAS)

The third European Federation of Autonomic Societies (EFAS) meeting in conjunction with the annual meeting of the sections “Autonomic nervous system” of the German Neurological Society, “Diabetes and Nervous System” of the German Neurological Society, and “Autonomic Nervous System” at the University of Erlangen-Nuremberg, Germany, will be held in Erlangen, Germany on 26–28 April 2001. Abstract deadline: 20 December 2000. Further information: Professor Dr M J Hilz, Department of Neurology, University or Erlangen-Nuremberg, Schwabachanlage 6, D-91054 Erlangen, Germany. Tel: +49 0131 8534444, fax: +49 9131 8534328; website: www.neurologie.med.uni-erlangen.de/oeffentliche_Veranstaltungen.htm

Cleveland Clinic Florida’s Gastroenterology Update 2001

Cleveland Clinic Florida will be sponsoring a postgraduate course entitled “Gastroenterology Update 2001” to be held on 10–11 February 2001 in Fort Lauderdale, Florida, USA. Further information: Sally Jagelman, Manager of Continuing Medical Education, Cleveland Clinic Florida, 3000 West Cypress Creek Road, Fort Lauderdale, FL 33309, USA. Tel: +1 954 978 5539; fax: +1 954 978 5056; email: jagelms@ccf.org

GI malignancies can be prevented and treated: from the bench to the bedside

This international meeting will be held on 14–17 February 2001 in Jerusalem and the Dead Sea, Israel. Further information: Mari-lyne Katz, Secretariat, GI Malignancies, Target Tours, PO Box 29041, Tel Aviv 61290, Israel. Tel: +972 3 5175150; fax: +972 3 5175155; email: gi@targetconf.com

Gastroenterology and Endotherapy: XIXth European Workshop

This course, to introduce the experienced gastroenterologist to the growing field of therapeutic endoscopy, will be held on 18–20 June 2001 in Brussels, Belgium. Further information: Mrs Nancy Beaufrez, Gastroenterology Department, Erasme Hospital, Route de Lennik 808, B-1070 Brussels. Tel: +32 02 555 49 00; fax: +32 02 555 49 01; email: beaufrez@ulb.ac.be