Scintigraphic assessment of SO dysfunction

As diagnosis of sphincter of Oddi (SO) dysfunction may require perendoscopic manometric assessment of the sphincter, which is an invasive technique carrying a significant risk of pancreatitis, non-invasive scintigraphy has been proposed as an alternative diagnostic method. Craig et al (Gut 2003;52:352–7) reported their experience in assessing SO dysfunction in post-cholecystectomy patients with scintigraphy using the hepatic hilum-duodenum transit time (HHDT) of Cicala and colleagues, illustrating in figure 3 of the article by Cicala et al, the scoring system of Sostre and colleagues, and the quantification of SO abnormalities with static images at 2.5 minutes, with a latency of several minutes. In addition, assessment of radiolabelled bile at different sites cannot be performed correctly with a visual method that is significantly delayed in comparison with assessment based on time activity curves (TAC). For example, this methodological error is clearly described and illustrated in figure 3 of the article by Cicala and colleagues, with the original description of the HHDT method where the time period assessed with static images at 2.5 minutes was delayed by 2.5 minutes in comparison with the assessment based on the TAC constructed on 15 second frame timing. Use of a cholecystokinin stimulus to assess HHDT is also questionable as CCK is known to affect hepatic bile secretion and SO motor activity, either accelerating the transit of bile under normal conditions or slowing it in the case of SO paradoxical response. Madacsy and colleagues, comparing measurement of HHDT without any stimulus and after caerulein administration, showed that the 89% sensitivity of the test without the cholecystokinin stimulus decreased to 0% after the cholecystokinin stimulus. In addition, it is not acceptable to derive any conclusions on test sensitivity from a comparison between a scintigraphic assessment performed after a cholecystokinin stimulus and manometric recordings performed in the absence of a stimulus. Craig et al’s study refers to >9 minutes as an abnormal threshold of HHDT, as indicated in the study of Cicala and colleagues. Use of a reference threshold from another centre does not apply when a different technique is used. The technique of Craig et al should be validated with correct reference standards defined in a control group, which was lacking in their study. Several studies have used a variety of non-comparable scintigraphic techniques to assess SO dysfunction by means of the hepatic duodenum transit time or a score (see table 1).

<table>
<thead>
<tr>
<th>Reference No</th>
<th>Stimulus</th>
<th>Frame/t</th>
<th>Analysis</th>
<th>Reproducibility (controls/pts)</th>
<th>Sensitivity (%)</th>
<th>Specificity (%)</th>
<th>Versus manometry (no stimulus)</th>
<th>Versus sphincterotomy (sensitivity)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, 3, 5</td>
<td>None</td>
<td>1 s</td>
<td>TAC</td>
<td>Rel/rel</td>
<td>83</td>
<td>100</td>
<td>93</td>
<td>Not assessed</td>
</tr>
<tr>
<td>3</td>
<td>None</td>
<td>1 min</td>
<td>TAC</td>
<td>Not assessed</td>
<td>89</td>
<td>100</td>
<td>Not assessed</td>
<td>Not assessed</td>
</tr>
<tr>
<td>5</td>
<td>CRL</td>
<td>1 min</td>
<td>Static</td>
<td>Not assessed</td>
<td>0</td>
<td>100</td>
<td>Not assessed</td>
<td>Not assessed</td>
</tr>
<tr>
<td>6</td>
<td>None</td>
<td>1 min</td>
<td>Static</td>
<td>Not assessed</td>
<td>0</td>
<td>100</td>
<td>Not assessed</td>
<td>Not assessed</td>
</tr>
<tr>
<td>Craig et al</td>
<td>CCK-OP</td>
<td>1 min</td>
<td>Static</td>
<td>Not assessed</td>
<td>13</td>
<td>95</td>
<td>Not assessed</td>
<td>Not assessed</td>
</tr>
<tr>
<td>2</td>
<td>CCK-OP</td>
<td>1 min</td>
<td>Static +TAC</td>
<td>Not assessed</td>
<td>100</td>
<td>100</td>
<td>Not assessed</td>
<td>Not assessed</td>
</tr>
<tr>
<td>Craig et al</td>
<td>CCK-OP</td>
<td>1 min</td>
<td>Static +TAC</td>
<td>Not assessed</td>
<td>38</td>
<td>90</td>
<td>Not assessed</td>
<td>Not assessed</td>
</tr>
</tbody>
</table>

CRL, caerulein; CCK-OP, cholecystokinin octapeptide; TAC, time activity curve; Rel, reliable; Pts, patients.

References


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Proposal for a new histological grading system for post-treatment evaluation of gastric MALT lymphoma

Gastric MALT lymphoma (GML) development is closely associated with Helicobacter pylori infection cases.1 The majority of stage IE GML regresses following H pylori eradication but assessing cure of the disease requires prolonged follow-up. Residual lymphoid infiltrates in post-treatment gastric biopsies can be very difficult to interpret and histological criteria for the diagnosis of minimal residual disease or complete remission are not clearly defined. Molecular follow up by polymerase chain reaction (PCR) for the rearranged immunoglobulin heavy chain variable region shows that persistent monoclonal bands is observed in 44% of cases.2 The significance of ongoing PCR monoclonality in the absence of histological disease is still under investigation.3 Thus histological evaluation of gastric biopsies remains the cornerstone to assess lymphoid tissue lymphoma.

Association with features that suggest a degree of regression. This would imply to the clinician an ongoing response that does not require immediate use of alternative therapies.

To assess the reproducibility of this histological grading system, we selected at random 10 patients with GML enrolled in the GELA clinical trial (seven men and three women; median age 60 years (range 35–74)).4 A total of 45 sets of gastric biopsies stained with H&E were evaluated separately by each histopathologist blind to the clinical follow up data using the new follow up system. Three to six sequential gastric biopsies were analysed for all patients with a mean follow up of 19 months after H pylori eradication therapy. Interobserver agreement evaluated by the weighted kappa value gave excellent results, with values over 0.84, indicating very good agreement among the seven observers.

Assessing the lymphoma remission status is of great importance for clinical practice. Developing tools to evaluate residual disease are needed, not only for clinical practice but also to conduct clinical trials that aim to define therapeutic guidelines. We propose in this study a histological grading system for the evaluation of post-treatment gastric biopsies. Testing of this scheme in a small number of cases within the group developing this scheme has shown it to be highly reproducible. These results encourage further evaluation of this scheme on larger series, as well as investigation of its clinical significance and impact on clinical guidelines.

In combination with molecular studies, this scheme could provide an interesting tool for the evaluation of residual disease in prospective studies on GML.

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References

Remarkable resemblance in the mode of transmission of HCV infection among haemodialysis patients and IVDAs

Hepatitis C virus (HCV) infection is widespread among patients on long term haemodialysis (HD) and among intravenous drug abusers (IVDAs). However, there appear to be striking similarities in the mode of

| Table 1 | GELA histological grading system for post-treatment evaluation of gastric MALT lymphoma |
|-------------------|---------------------------------|-----------------|-----------------|
| Score             | Lymphoid infiltrate | LEL | Stromal changes |
| CR (complete histological remission) | Absent or scattered plasma cells and small lymphoid cells in the LP | Absent | Normal or empty LP and/or fibrosis |
| pM RD (probable minimal residual disease) | Aggregates of lymphoid cells or lymphoid nodules in the LP/MM and/or SM | Absent | Empty LP and/or fibrosis |
| RD (responding residual disease) | Dense, diffuse, or nodular extending around glands in the LP | Focal LEL or absent | Focal empty LP and/or fibrosis |
| NC (no change) | Dense, diffuse, or nodular | Present, “may be absent” | No changes |

MM, muscularis mucosa; LP, lamina propria; SM, submucosa; LEL, lymphoepithelial lesions.
transmission between the two groups as both are at high risk for parenterally transmitted HCV infection.

The indispensable requirement of having a vascular access site possibly adds to the risk of acquiring HCV infection among patients on long term HD through nosocomial transmission, especially in high HCV prevalence units. Preliminary data suggest that among various types of vascular access used for HD, arteriovenous fistula and polytetrafluoroethylene grafts which require extra skillful handling, perhaps play a more significant role in the transmission of HCV than permanent or temporary central venous catheters. Sharing of used dialysis equipment, improper reuse, and the physical proximity of an infected patient during HD are additional important factors incriminated in the transmission of HCV in the busy HD unit. Gilli et al. reported an outbreak of HCV in an Italian HD unit due to sharing of multidose heparin vials. Another recent study from the USA reported an outbreak of HCV occurring when a multidose saline vial was contaminated with blood from a HCV infected patient in a Florida hospital. Breakdown in the implementation of standard infection control safety measures recommended by the CDC is essentially responsible for the rapid rise in HCV infection among HD patients worldwide.

Likewise, sharing of contaminated equipment (needles and syringes) among IVDAs is also the primary concern attributed to the continuous increase in HCV infection. However, in a recent report from Kolkata, India, dissemination of HCV accelerated, paradoxically from a baseline prevalence rate of 17% in 1996 to 66% in 2002 and to 80% during the next year, regardless of the supply of fresh needles and syringes on a daily basis, under the supervision of trained field workers, with the equipment being taken away from IVDAs on the next day after use. Most of the IVDAs did not share their syringes or needles, none the less, they shared the multidose vials of the drugs. Indirectly sharing of the drug ampoules suggested contaminated body fluids/blood being the means of transmission of HCV through direct access to the blood circulation, including the needle sticks, transmitted virus was also suspected to occur from sharing of a small pot containing water that some IVDAs used to clean the syringes and needles before using them again.

With strict implementation of standard infection control precautions and probably isolation of anti-HCV positive patients, it may be possible to effectively control the spread of HCV infection among patients on long term HD. However, promiscuous sexual behavior, lack of personal and community hygiene, and absolute disregard for life, prevalent among IVDAs, are the major practical problems preventing implementation of interventional measures for the control of the spread of HCV in this high risk group.

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Author’s reply
I thank Dr Beales for his comments. Clearly, it is always easy to be wise in retrospect. However, we teach students to make a diagnosis by listing the positive findings and linking these to build a coherent diagnosis.

In case No 1, the house officer noted aspirin ingestion, melena, a hard liver edge, and thrombocytopenia. He suspected cancer of the gut with hepatic metastases. This was reasonable enough even though it did not include thrombocytopenia.

The next logical step might have been scanning of the upper abdomen in which case splenomegaly would have been added to the list and from there it was only a short step to hepatic cirrhosis and possible reinterpretation of the erythematous/exudative gastritis.

We also teach that patients be told the risk-benefit ratio of any procedure. Frank melena is a rare presentation of cancer of the colon and the risk of colonoscopy is perhaps 0.2%.

I leave the reader to decide if the present day gastroenterologist should concentrate on honing specialist technical skills to gather information or should develop as a consultant who weighs the evidence as it unfolds.

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References
1 Saxena AK, Panthotra BR, Sundaram DS. The role the vascular access plays in the transmission of hepatitis C virus in a high prevalence hemodialysis unit. J Vasc Access 2002;3:1-63.

Physician-technician
I have every sympathy with Dr Neale’s opinion and feel he is entirely correct in worrying about the apparently overwhelming tendency for technological investigation and expertise instead of a more considered diagnostic and management approach (Gut 2003;52:770-1). I would also agree with his view of the aspirations of many gastroenterological specialist registrars, apparent from talking to many of them. He has highlighted the potential problems of such a technical dictum and not even mentioned what might happen when further advances in imaging obviate the need particularly for diagnostic colonoscopy.

What will all the technicians do?
However, Dr Neale has perhaps been a little over cautious in condemning colonoscopy. In both cases the potential problems of such a technical outcome may be rather unpleasant but that is not based on any statistical significance. Nevertheless, it was possible to perform oesophagogastroduodenoscopy and colonoscopy in these days of great service pressures not based on any statistical significance.”

CORRECTION
In the paper by Nikolau et al. (Gut 2002;52:1286-90, “Interferon ß-1a in ulcerative colitis: a placebo controlled, randomised, dose escalating study”) an exploratory study in 17 patients is reported. In the paper a p value for the comparison between remission in the IFN group (3/10) and the placebo group (0/7) is quoted with 0.023. This is an error and should be 0.23. The conclusions (“Patients treated with escalating doses of IFN-ß-1a tended to show higher clinical response and remission rates than those receiving placebo, although the differences between the groups did not reach statistical significance”) remain correct, as they were not based on any statistical significance.

Sir Francis Avery Jones British Society of Gastroenterology Research Award 2004
Applications are invited by the Education Committee of the British Society of Gastroenterology who will recommend to Council the recipient of the 2004 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.

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British Society of Gastroenterology Hopkins Endoscopy Prize 2004

Applications are invited by the Endoscopy Committee of the British Society of Gastroenterology who will recommend to the Council the recipient of the 2004 Award. Applications (TEN 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.

An applicant need not be a member of the Society. The recipient will be required to deliver a 20 minute lecture at the Annual meeting of the Society in Glasgow in March 2004. Applications (TWENTY COPIES) should be made to the Honorary Secretary, British Society of Gastroenterology, 3 St Andrews Place, London NW1 4LB by 1 December 2003.

British Society of Gastroenterology Paul Brown Travel Fellowships

The Paul Brown Travel Fellowships are awarded by the Endoscopy Committee of the BSG. They are intended to assist trainee gastroenterologists and established consultants in visits to units outside the United Kingdom for specialist experience and training in endoscopy.

Specialist registrars who have not achieved their CCST are expected to have the approval of their Postgraduate Dean and their Regional Training Director when they apply for a Travel Fellowship. Applicants are expected to provide confirmation that they have been accepted for training in the unit that they wish to visit.

Successful applicants will be expected to provide a brief written report to the Endoscopy Committee of the outcome of their visit.

Application forms are available from the British Society of Gastroenterology Office, 3 St Andrew's Place, London NW1 4LB. Email: bsg@mailbox.ulcc.ac.uk

3rd Congress of the European Chapter of the American College of Nutrition

This meeting will be held on 14–15 November 2003 in Göttingen, Germany. Abstract deadline: 01 October 2003. Main topics: Metabolic Syndrome, Plant-genomics, Treatment of Obesity, Hormonal Regulation of the Body Weight, Pediatric Nutrition, Malnutrition, Food-induced Diseases, Food and Allergy. Further details: G Schickedanz, Congress Secretary, Department of Gastroenterology and Endocrinology, University of Göttingen, Robert-Koch-Str. 40, 37075 Göttingen, Germany. Tel +49 551 396326; fax: +49 551 3919125; email: nutrition2003@med.uni-goettingen.de; website: www.nutrition-europe.org

European Course on Laparoscopic Endoscopy

This course will be held on 18–21 November 2003 in Brussels, Belgium. Further details: Secretary to Professor Cadière, Service de Chirurgie Digestive, Rue Haute 322, Brussels 1000, Belgium. Tel: +32 (0)2 648 07 60; fax: +32 (0)2 647 86 94; email: straeb.asmb@proximedia.be; website: www.straeb-asmb.com

Hong Kong-Shanghai International Liver Congress 2004

This conference will be held on 14–17 February 2004 in Hong Kong. The topic of the conference is “Liver Diseases in the Post-Genomic Era”. Further details: Ms Kristie Leung, Room 102–105 School of General Nursing, Queen Mary Hospital, 102 Pokfulam Road, Hong Kong. Tel: +852 2818 4300/8101 2442; fax: +852 2818 4030; email: kristieleung@hepa2004.org; website: www.hepa2004.org

PET/CT and SPECT/CT Imaging in Medical, Radiation, Surgical and Nuclear Oncology

This continuing medical education programme will take place on 19–20 March 2004 at Johns Hopkins University School of Medicine, Baltimore, Maryland, USA. Further details: Office of Continuing Medical Education, Johns Hopkins University School of Medicine, Turner 20, 720 Rutland Avenue, Baltimore, Maryland 21205-2195. Tel: +1 410 955 2959; fax: +1 410 955 0807; email: cmnet@jhmi.edu; website: www.hopkinscme.org

39th Annual Meeting of the European Association for the Study of the Liver

This meeting will be held on 15–19 April 2004 in Berlin, Germany. Further details: Secretariat, c/o Kones International, 17 rue du Cendrier, PO Box 1726, CH-1211 Geneva, Switzerland. Tel: +41 22 908 0488; fax: +41 22 732 2850; email: info@easl.ch; website: www.easl.org/easl2004

- Deadline for receipt of abstracts: 16 November 2003
- Deadline for early registration 10 February 2004