Cancer in an ileoanal reservoir

Sir,—Dr Appelman (Gut 1990; 31: 1161) has asked us whether we knew that the carcinoma within the rectal cuff surrounding an ileoanal reservoir that we described in our article was a primary one and not a metastatic tumour. If one were only to assess the histology presented then the question would be extremely difficult to answer, as he has pointed out. In standard clinical practice, however, difficult diagnoses such as this are generally made by the clinician and pathologist in concert, considering both clinical and pathological features. Thus, if we do so this case we believe we can defend the argument that we have put forward.

To establish a diagnosis of metastatic cancer we would have to accept that the original cancer which was resected in 1977 metastasised 10 years later in 1987. Moreover, the pattern of metastases would have been a selective transcolonic spread to predominate within the cuff of the new pouch with no evidence of other metastases to the true pelvis or to the remainder of the abdominal cavity. Although this is technically possible, the combination of events would be extraordinarily unlikely.

In favour of a new primary cancer the following evidence can be considered. The tumour predominated grossly within the cuff. Secondly, the original indication for the pouch procedure was for severe dysplasia in the remaining rectal stump.

Although it is not possible to clearly distinguish the two diagnoses on microscopy alone, the weight of evidence is sufficiently compelling in favour of a primary tumour developing in the mucosal fragments of the rectal cuff that we feel justified in submission of the title of this article and its substance.

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Interleukin 1 in ulcerative colitis

Sir,—We read with interest the recent article by Ligumsky et al in which the authors reported a significantly higher interleukin 1 (IL 1) content and release from colonic mucosa of patients with untreated active inflammatory bowel disease, compared with that of control subjects.

We have recently conducted a similar study determining the IL 1 production from fresh and cultured biopsy specimens and its serum concentrations in 15 patients with active ulcerative colitis, 16 with ulcerative colitis in remission, and 13 normal control subjects.

The disease activity was assessed clinically, sigmoidoscopically, and histologically, by using the criteria of Trueove and Richards. 2 IL 1B was measured using ELISA (Cytoscreen Biotechnology). Mucosal biopsy specimens, obtained at colonoscopy, were weighed (weight 10 mg), washed vigorously in 1 ml of 9% sodium chloride solution, and then cultured for 24 hours in 10% fetal calf serum/RPMI.

IL 1B activity was determined in the 1 ml of washing solution and in the medium after the culture.

Only slight IL 1 activity was detected in three plasma samples, all from patients with active disease, confirming IL 1 production is only rarely found in plasma, even in active disease. 3

Fresh and cultured colonic mucosa obtained from patients with ulcerative colitis in remission produced significantly higher values of IL 1 compared with control mucosa (p<0.01). Furthermore, randomised patients with active disease produced significantly more IL 1 than those from patients with disease in remission (p<0.01).

In conclusion, our findings are very much in agreement with those of Ligumsky et al. We also have found a significantly higher IL 1 production in active patients than in those with ulcerative colitis in remission. The determination of IL 1 production from fresh colonic mucosa in the washing solution seems to represent a reliable method.

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Non-steroidal anti-inflammatory drug induced enteropathy

Sir,—We read with interest the article by Bjarnason et al on treatment of non-steroidal anti-inflammatory drug (NSAID) induced enteropathy. 4 We wish to comment on some aspects of their study.

Although the authors set out to study the effect of sulphasalazine on the intestine in arthritic patients on NSAIDs, they have failed to design adequately the study to test their hypothesis. Such a drug study should have been done as a randomised double blind study. Particularly since the main outcome measure was estimation of faecal excretion of 111indium labelled leucocytes. Inaccurate collection represents a potential major source of bias.

The evidence of small intestinal inflammation and subsequent improvement was provided by the above test. However, this test is unable to distinguish between leakage of leucocytes from large or small bowel. There is increasing evidence that NSAIDs produce inflammation in large as well as small intestine. 5

The authors' finding that patients on gold therapy did not show deterioration in leucocyte excretion is interesting. This seems to contradict current evidence which suggests that gold can be acutely toxic to buccal, gastric, and colonic mucosa. 6 These findings in fact suggest that (as with NSAID treatment) initial mucosal membrane damage heals in spite of continuing therapy with development of tolerance?

Further well designed studies should be done to confirm these important findings.

Sir,—We agree that the possible beneficial effects demonstrated by Bjarnason et al before sulphasalazine can be considered as the preferred second line therapy in arthritic patients on indefinite NSAID therapy.

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Reply

Sir,—It is not possible to construct a double blind trial without preliminary studies to show rates and magnitude of change.

Your correspondents fail to grasp the advantage of the 111indium leucocyte technique. The four day faecal excretion of 111indium is an objective and not a subjective measure of intestinal inflammation. Inaccurate faecal collections do not apply to our studies that are carried out in a purpose built metabolic research ward, where there is no access to an open lavatory. All that the patient passes is collected (or spilt and therefore recovered).

Saverymuttu et al are misquoted by your correspondents when they suggest that the 111indium leucocyte technique cannot distinguish between small and large bowel inflammation. The article specifically comments on the accuracy of the technique for localising colonic disease but it may slightly underestimate the extent of small bowel disease.

While we agree that there is increasing evidence that non-steroidal anti-inflammatory drugs (NSAIDs) produce inflammation in the large bowel, the reference to this in a letter describing two patients on a number of drugs capable of damaging the large bowel is hardly appropriate and the association is refuted in a simultaneously published letter. 7 There are two recent comprehensive reviews on the effects of NSAIDs on the large bowel. 7 We scanned all 60 patients in our study and found no evidence of colonic inflammation. Neither did De Vos et al during colonoscopy in more than 200 patients on NSAIDs.

The mucocutaneous reactions to sodium aurothiomalate cited are very rare and tend to be idiosyncratic. No such patients were included.

We never suggested that sulphasalazine should be the preferred second line therapy in rheumatoid arthritis, nor would we contemplate its use in ‘arthritic patients on indefinite NSAID therapy’. There is no evidence whatsoever that the small intestinal mucosa develops tolerance to NSAIDs.

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Interleukin 1 in ulcerative colitis.

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