Correspondence

Protein-losing enteroathopy caused by systemic lupus erythematosus

SIR,—We have read with great interest the recent paper by Wood et al in the September 1984 issue of *Gut* referring to a case of protein losing enteroopathy (PLE) complicating the clinical course of a patient with systemic lupus erythematosus (SLE).

In our opinion, the work contains some errors and omissions which question the originality of this paper. The authors quote only three other cases prior to their description, submitted in October 1983. We disagree with respect to this point. In a recent review by us, 2 dealing with a patient similar to that described by Wood, we have found at least eight other cases in the literature, 3-10 seven of them before 1983. Protein losing enteroathopy as initial manifestation of SLE, however, occurred only in three, including our patient.

Moreover, it is not clear whether the authors have ruled out pericarditis, gastrointestinal malignancies, ulcerations, or other primary enteropathies, known causes of PLE. On the other hand, we think that the patient described by Wood and his colleagues does not fulfill all the criteria for diagnosis of SLE and other collagen diseases have not been clearly excluded: more specifically mixed connective tissue disease (speckled pattern of staining by indirect immunofluorescence; antibodies to RNP and absence of antibodies to DNA). Against these findings, antibodies to DNA (*Crithidia luciliae*) were present in our patient.

Abnormalities in serum cholesterol are also of great interest. Increased concentrations of serum cholesterol and triglycerides were present in some patients. 2,7,9-10 No one to date has emphasized this finding which is very interesting, because it goes against traditional opinion that cholesterol is usually low in PLE. 11

In respect to pathogenesis, the authors postulate increased capillary permeability, presumably because of products of plasma C3 conversion. In our opinion, this is very speculative. Deposits of immune complexes in many extrarenal tissues (including gastrointestinal tract) have been found by several authors in some experimental animal models, 12 13 as well as in studies of patients with SLE. 14 15

Finally, the authors do not comment on the racial origin of their patient. It is very interesting that, in our review, five of nine patients 2,7 8,10 (including ours) 8 had non-Anglo-Saxon origin: three Japanese, one Lebanese and one Spanish. This has led us to consider the possibility that external antigenic factors absorbed through the alimentary tract could explain the occurrence of this complication in SLE.

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Reply

Sir—We would like to thank Castañeda et al for pointing out our apparent omission of five other cases of protein losing enteropathy (PLE) with systemic lupus erythematosus (SLE) previously recorded in the literature. We felt, however, that certain other points which they raised were not entirely valid.

Firstly, although it is true that our patient does not quite fulfil the modified ARA criteria for SLE, clearly she does not have clinical features of any other connective tissue disease and cannot therefore be categorised as mixed connective tissue disease. This is a situation which frequently arises in practice and such patients are therefore best classified within the SLE syndrome. The presence of RNP antibodies and absence of DNA antibodies is quite compatible with a diagnosis of SLE. Secondly, we feel that it is fairly obvious from our list of negative investigations that reasonable steps were taken to exclude the other possible causes of PLE. Thirdly, it is also clearly stated that our comments about the pathogenesis of the oedema are purely speculative and we do indeed refer to the possibility of an immune complex-mediated vasculitis as a possible mechanism. There was, however, no clinical evidence of vasculitis elsewhere.

Finally, our patient is of Anglo-Saxon origin.

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Coeliac disease presenting with intestinal pseudo-obstruction

Sir,—Thank you for the opportunity to comment upon Dr Cluysenaer and Dr van Tongeren’s letter (Gut 1985; 26: 538). Our findings do not support their hypothesis because although we did not measure vitamin E levels, there was no evidence of ceroid deposition in full thickness biopsies of the jejunum, ileum and colon of our patient (Gut 1984; 25: 1003–8).

Ceroid accumulation has long been recognised in association with proven or suspected coeliac disease1–4 but its presence is generally considered to give rise to no symptoms.5 In only one previous case was pseudo-obstruction a reported feature.1 Ceroid deposition has also been recorded in a case of pseudo-obstruction associated with scleroderma.6

As focal muscle atrophy with fibrous replacement can account for the motility disturbance of this condition, however, there seems little need to invoke a role for the ceroid pigment, especially as its presence has not been documented in other reports.7 8 Furthermore, ceroid has also been shown in cystic fibrosis, biliary atresia, and cirrhosis in childhood4 and in chronic pancreatitis in adults,9 all conditions which could result in malabsorption of vitamin E, but which are not associated with pseudo-obstruction. Thus, the presence of ceroid pigment may merely be a reflection of the vitamin E status of a patient rather than be causally related to intestinal motor dysfunction.

A role for vitamin E deficiency per se in pseudo-obstruction still remains a possibility, especially as such deficiency in animals may produce central nervous system effects and nutritional muscular dystrophy.10 The mechanism of vitamin E deficiency is ill-understood, some effects being reversible by antioxidants, others by selenium and yet others responding only to vitamin E replacement.10 Any possible effect of vitamin E on neuromuscular dysfunction in coeliac disease might thus be independent of the finding of ceroid deposition which is thought to accumulate because of the antioxidant deficiency.

The association rediscovered by Cluysenaer and van Tongeren is potentially important, but further studies are required to clarify any relationship between vitamin E deficiency, ceroid deposition, coeliac disease, and pseudo-obstruction. It would thus be important to know, for example, how many of their patients without ileus had ceroid deposition, and whether there was any correlation between this, vitamin E or selenium concentrations, and intestinal transit time.

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