A computed tomography scan showed hilar, splenic, paracaval and paracaval lymphadenopathy suggestive of lymphoma. No lymphomatous infiltration was seen on bone marrow examination, but there was noticeable dyserythropoiesis and abnormal megakaryocytes as well as 39\(^{\circ}\) myeloblasts and 21\(^{\circ}\) lymphocytes. Ringed sideroblasts were not found. The blasts were myelomonocytic; Sudan black and naphthol acetate esterase positivity confirmed a diagnosis of acute myelomonocytic leukaemia (FAB; M4).

Chromosome analysis of the bone marrow showed 66\(^{\circ}\) abnormal mitoses with hyperdiploidy, 47-48 or more chromosomes, breakages and translocations. Although haemoglobin electrophoresis was normal, haemoglobin H inclusions were detected after incubation with Brilliant cresyl blue.

Immunofluorescence studies of the bone marrow showed that the blasts were positive for the myeloid markers CD13, 14, and 33. In the mononuclear layer 52\(^{\circ}\), of cells were positive for lymphoid markers—that is, CD19 (B cell) 26\(^{\circ}\), CD2 (T cell) 26\(^{\circ}\), of which 29\(^{\circ}\) were CD4\(^{+}\), and 29\(^{\circ}\), CD8\(^{+}\). Immunoperoxidase studies on the skin biopsy specimens showed CD4 positivity at the epidermal-dermal junction, characteristic of mycosis fungoides. CD13 and 14 positive cells were also present in the dermis. These probably represented blast cells as morphologically recognisable neutrophils and monocytes were scarce.

One week after diagnosis myeloblasts were seen in the blood in rapidly increasing numbers. Remission induction was attempted with a standard seven day regimen (daunorubicin, cytosine, arabinoside and thioguanine). He had a succession of infective episodes and died suddenly after completing chemotherapy; a post mortem examination showed fungal pneumonia.

Follicular mucinosis, mycosis fungoides, and acute myeloid leukaemia

Follicular mucinosis is a skin condition characterised by papulo-follicular lesions and histologically by mucinous degeneration of the hair follicles. Alopecia and lymphoma may occur, and often mycosis fungoides may develop subsequently. In published series, totalling 153 patients, progression to lymphoma occurred in 29\(^{\circ}\).\(^{\text{1}}\)

**Case report**

A 60 year old man was admitted with an itchy papulo-nodular rash, multiple follicular abscesses, and alopecia totalis. Small lymph nodes were palpated in the neck only and there was no hepatosplenomegaly. Previous medical history included alcohol abuse and pulmonary tuberculosis. Investigations showed haemoglobin at 9.8 g/1, white cell count of 4.2 \times 10^9/l with normal white cell proportions, and a platelet count of 202 \times 10^9/l. Red cells were dimorphic, with normocytic and hypochromic forms. Skin biopsy specimens showed mucinous degeneration around hair follicles characteristic of follicular mucinosis. Atypical lymphoid cells were also seen in the dermis and infiltrating the epidermis (figure), with a lymphoid infiltrate also seen at the epidermal-dermal junction, as found in mycosis fungoides.

**Comments**

This patient had follicular mucinosis, mycosis fungoides, and acute myeloid leukaemia. The association between the two skin disorders is well recognised,\(^{1,2}\) but there is only one report\(^{3}\) linking dysmyelopoiesis with the Sézary syndrome. More generally, an association between lymphoproliferative and myeloproliferative disorders is now recognised.\(^{4}\)

In this patient the presence of H inclusions in the red cells indicated leukemic transformation of an early progenitor or stem cell. It seems unlikely that the skin and marrow disorders were unconnected. Primitive myeloid cells were present in the dermis; in the bone marrow the normal predominance of CD8 compared with CD4 lymphocytes\(^{1}\) was replaced by a CD4:8 ratio of 11:1. This suggests that an abnormal lymphoid proliferation was present in the bone marrow in addition to acute myeloid leukaemia.

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**Fecal leucocytosis in Escherichia coli 0157:H7 enteritis**

The cases and histopathology described by Hunt et al continue to broaden the disease spectrum which we believe is associated with *Escherichia coli* 0157:H7.\(^{1}\)

Our prospective studies, however, contrast with their suggestion that absence of neutrophils in the stool may help distinguish the haemorrhagic colitis associated with *E coli* 0157:H7 from bacterial dysentery or inflammatory bowel disease.

We examined the stools of 33 children that yielded *E coli* 0157:H7 on culture when obtained over a 10 day period. Twelve of eight patients had diarrhoea alone and five had already progressed to haemolytic uraemic syndrome. Sool smears were fixed in methanol and stained with methylene blue. Polymorphonuclear leucocyte counts greater than or equal to 5 per high power field (1000 \times\) in at least four fields were considered positive.

Sixteen of 35 (45\(^{\circ}\)) stool specimens obtained over one to 10 days after onset of illness were positive. All 16 positive stools contained blood and mucus macroscopically. Stools which were non-bloody or semiformal did not contain clinically important numbers of fecal leucocytes. Within one to two days, three to four days, or more than five days of onset of symptoms, six of 14, nine of 14, and one of seven specimens were positive respectively.

Although the incidence of positive examinations for fecal leucocytes should vary according to microscopic criteria and timing of stool specimens, our findings propose an incidence approach that seen in other bacterial diarrhoeas secondary to *Campylobacter*, *Salmonella*, and *Shigella*. While the predictive values for *E coli* 0157:H7 enteritis of a stool which is positive or negative for fecal leucocytes would not be very high, the presence of fecal leucocytes certainly does not favour other bacterial diarrhoeas or inflammatory bowel disease. Rather, *E coli* 0157:H7 enteritis in its advanced form should be regarded as a subset of the bacterial diarrheas.

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