beneficial effects of intravenous fat infusions in a child with cystic fibrosis. This disease is so diverse in its effects upon individuals that it is always difficult to be sure whether we are observing natural variations or results of therapy.

It was noteworthy, for instance, that the reduction in sweat sodium concentration was not maintained, despite continued infusions. Similar observations of lowered sweat electrolytes in cystic fibrosis have been attributed to treatment with anabolic steroids (Flensborg, 1970) and clococillin (Griffiths and Bull, 1972).

We question in particular whether the increase in essential fatty acids brought about by soya oil can account for the favourable course of the disease in this patient. The actual serum levels of linoleic and arachidonic acid are not given in the paper. Our own observations confirm that essential fatty acids levels are often below normal in cystic fibrosis, but they do not correlate with the clinical condition of the patient (J. Yassa, R. Prosser, and J. A. Dodge, unpublished).

However, we did encounter frank clinical deficiency in one such infant who had been treated with an artificial diet lacking essential fatty acids, and in that child the characteristic rash, diarrhoea, and anoerxia occurred only when gross deficiency had been reached. Indeed, clinical recovery occurred with treatment before any rise in serum essential fatty acids was observed. At that time the essential fatty acids accounted for only about 4% of total serum fatty acids (Dodge, Salter, and Yassa, 1975). This is in keeping with the observations of Hansen et al. (1963), who found that, though serum dienoic acids always accounted for more than 13% of total fatty acids in infants fed on formulae with an acceptable linoleic acid content, clinical deficiency symptoms occurred at an average blood level of only 5-6%.

It seems unlikely that minor degrees of essential fatty acid deficiency would impair prostaglandin synthesis, or give rise to the usual clinical features of cystic fibrosis. Nonetheless, the suggestion that a disorder of prostaglandin metabolism may underlie the transport abnormalities of cystic fibrosis is one which has obvious attractions, and is currently under investigation both here and elsewhere (Förström, Goldyne, and Winkelmann, 1974).

J. A. DODGE, R. PROSSER, and J. YASSA
Department of Child Health,
Welsh National School of Medicine,
Heath Park, Cardiff CF4 4XW.

REFERENCES


Role of house-dust mites in childhood asthma

Sir,

I should like to make two points in reference to the paper by Sarsfield and his colleagues on mite-sensitive asthma of childhood, published in the September 1974 issue.

Firstly, I agree that studies on asthmatic symptoms are notoriously difficult to control and that many factors apart from allergen exposure may influence symptoms. One very important variable that the authors have failed to control is the attention given to the child by the parents when introducing the rigorous avoidance