

Patient's data covering a period of 20 months, starting at 12 months of age when thrombocytopenia developed; CI=continuous infusion, MCV=mean corpuscular volume.

anaemia. On two occasions (at 22 and 25 months of age) the intravenous route was transiently switched to oral treatment at a daily dose of 600 mg/m² (24 mg/kg) given in four or six divided doses. Each time a symptomatic relapse occurred and was corrected when the intravenous route was resumed. Plasma concentrations of zidovudine were measured by high performance liquid chromatography.2 At 150 mg/m²/6 hours (24 mg/kg/day) given orally, the peak plasma concentration one hour after oral dosing was 800 ng/ml and the trough level was undetectable (limit of detection: 12.5 ng/ ml); these levels were similar to those determined in our other HIV positive children, excluding a specific defect of zidovudine absorption in our patient. Steady state concentration was 534 ng/ml during continuous infusion.

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Reporting of vaccine associated mumps meningitis

EDITOR, - Vaccine associated mumps meningitis was one of the conditions reportable to the British Paediatric Surveillance Unit (BPSU) between February 1990 and January 1992 During this two year period, 15 confirmed cases were reported. Eight reports were in children aged 12-24 months resident in England and Wales. Based on the BPSU study the estimated risk of vaccine associated mumps meningitis in this age group was 1.5 per 100 000 vaccinations given. However when the BPSU data were supplemented by laboratory reports, a much higher rate of approximately 10 per 100 000 vaccinations was observed (Dr E Miller, personal communication). This higher rate is consistent with observations in other countries.

The low rate derived from BPSU reports may be due to the fact that paediatricians did not link the illness (which was usually mild) to measles, mumps, rubella vaccination, which had been given up to 28 days previously. This could be avoided by taking a full immunisation history (including dates) on all children at the time of admission. Particular attention should be paid to vaccinations in the previous month.

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- 1 British Paediatric Surveillance Unit. Sixth annual
- report. London: BPSU, 1991.
 Sugiura A, Yamada A. Aseptic meningitis as a complication of mumps vaccination. Pediatr Infect Dis J 1991; 10: 209-13.

Haemorrhagic shock encephalopathy or near miss sudden infant death syndrome?

EDITOR, - Drs Bacon and Hall suggest that haemorrhagic shock encephalopathy syndrome (HSES) is probably a secondary phenomenon after a severe initial insult. We hypothesise that this syndrome may represent the result of acute onset, severe hypoxaemia as may occur in infants who suffer apparent life threatening events (ALTE).2 Many of the features of HSES are similar to those that occur in infants who have suffered ALTE or sudden infant death syndrome (SIDS): median age of 15 weeks, peak onset period at night, slight excess in winter months, mild prodromal illness, found hot and sweaty, and with postmortem pulmonary congestion.

Previous reports on changes after severe 'near miss' SIDS have also shown the presence of metabolic acidosis, cardiovascular instability, acute renal failure, ischaemic colitis and acute neurological dysfunction.3 Some of these infants also showed mild hepatocellular dysfunction and hyponatraemia.

It may be appropriate for infants who have recovered from HSES to be screened for abnormalities in oxygenation. However, as with SIDS, the dilemma is to identify patients at risk of this life threatening illness before symptoms develop.

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Treatment of refractory ulcerative oesophagitis with omegrazole

EDITOR,-We read the paper of Dalzell et al with interest.1 They reported a complete resolution of ulcerative oesophagitis refractory to H₂ blockers by omeprazole in a 7 year old

We recently saw a 4 month old boy who was diagnosed endoscopically to have an ulcerative oesophagitis at the age of 2 months. A two month course of cisapride, cimetidine, and a mucosal protective agent (alginate antacid), together with thickening of the feeds and positioning initially improved his symptoms of crying when drinking milk. While still taking this treatment, however, excessive crying during and after milk feeding reoccurred. Urine analysis was normal. A semielemental diet had already been introduced without obvious benefit. Endoscopy revealed a marked distal oesophagitis. Omeprazole at 3.5 mg (0.5 mg/kg) once a day was given for a period of six weeks. During the first 48 hours of this treatment, the clinical symptoms disappeared spectacularly. Endoscopy five weeks later did not reveal any signs of oesophagitis.

In adults, omeprazole, a substituted benzimidazole with strong, prolonged 24 hour inhibition of gastric acid secretion by blocking H⁺/K⁺-ATPase in parietal cells, is very effective in treating severe oesophagitis refractory to treatment with H2 receptor antagonists. Rare side effects such as myopathy, epidermal necrosis, and endocrine adverse effects have been described.24 In infants and children, however, there is lack of experience and cautious use is warranted. Our report is to our knowledge the first to describe a beneficial effect of omeprazole on refractory oesophagitis in a voung infant. Like Dalzell et al we suggest that omeprazole should be considered as an alternative treatment for ulcerative oesophagitis resistant to traditional treatment.

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- l Dalzell AM, Searle JW, Patrick MK. ment of refractory ulcerative oesophagitis with omeprazole. Arch Dis Child 1992; 67: 641-2.
- 2 Garotte FJ, Lacambra C, Del Ser Subacute myopathy during Subacute myopathy during therapy. Lancet 1992; 340: 672. ox NH. Acute disseminated omeprazole
- necrosis due to omeprazole. Lancet 1992; 340: 857. 3 Cox
- 4 Lindquist M, Edwards IR. Endocrine adverse effects of omeprazole. BMJ 1992; 305: 451-2.

Recurrent parotitis

EDITOR, - We were interested to read that the cause of recurrent parotitis in children 'has of yet not been satisfactorily explained'.1

Over 10 years ago we were able, in six consecutive cases, to demonstrate a deficiency in salivary (secretory) IgA. This deficiency did not relate necessarily to low serum IgA concentrations. In these cases sialectasis was not demonstrated and, indeed, appears to be very rare in early well treated disease. It appears to be secondary to recurrent infection. The last child we saw who required parotidectomy was seen in 1960.

In our practice recurrent parotitis has become much less common; this may reflect a change in the pattern of referrals. We recommend that the secretory IgA concentrations are estimated in cases of 'idiopathic' recurrent parotitis. Once the low IgA value is demonstrated, low dose antibiotic cover or prophylactic administration early in an attack is logical and advisable, if damage to the parotid is to be avoided.

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 Cohen HA, Gross S, Nussinovitch M, Frydman M, Varsano I. Recurrent parotitis. Arch Dis Child 1992; 67: 1036-7.

Paediatric outpatient utilisation in a district general hospital

EDITOR, -In their article on paediatric out-

patient utilisation in a district general hospital, MacFaul and Long cited my own research in this field which was presented to the British Paediatric Association in 1989. My data included detailed information on the referral process and outcome in addition to utilisation data. Those wishing to compare the studies will find my results reported in full in *Public Health*.²

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MacFaul R, Long R. Paediatric outpatient utilisation in a district general hospital. Arch Dis Child 1992; 67: 1068-72.
 Ni Bhrolchain CM. A district survey of the control of th

2 Ni Bhrolchain CM. A district survey of paediatric outpatient referrals. *Public Health* 1992; 106: 429-36. This child had a plaster of Paris splint on the right leg from knee to toes as she was receiving treatment for talipes equinovarus. The child fulfilled the criteria for the diagnosis of Kawasaki disease² and responded to intravenous immunoglobulin and aspirin treatment. During her stay in the ward her plaster was removed at the conclusion of her orthopaedic treatment and we were surprised to find no skin lesions beneath the plaster, though there were linear macular lesions at the edge of the cast where friction had occurred.

This finding suggests that the rash of

This finding suggests that the rash of Kawasaki disease acts as a Koebner or isomorphic phenomenon, with a tendency for the rash to develop at sites of skin trauma or friction. We are unaware of any previous report suggesting this mechanism.

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Kawasaki disease

EDITOR,—We would like to report the possibility of a Koebner phenomenon in Kawasaki disease. We recently admitted a 20 month old girl with a history of fever for 10 days, cervical lymphadenopathy, bulbar conjunctivitis, and dry fissured lips. She developed an erythematous, polymorphic eruption on the face, limbs, and trunk, and subsequently peeling of the finger tips.

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