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C difficile induced pneumatosis intestinalis in a neutropenic child

A 4 year old boy presented with a 24 hour history of fever, cramping central abdominal pain with distension, and bloody diarrhoeal stools. He had developed acute myeloblastic leukaemia at the age of 1. He eventually required a matched unrelated graft which engrafted successfully but acidosis and portal gas are associated with a poor outcome.

Temperature was 38.5°C, pulse 150/min; he had abdominal distension and tenderness but no ascites.

An abdominal film (fig 1) revealed dilatation of the colon with gaseous linear tramlining of the bowel wall consistent with pneumatosis intestinalis (PI). PI resolved with antibiotic therapy. PI resolved with metronidazole but he later died of bowel rest, intravenous fluids, meropenem, Clostridium difficile enterotoxin A. PI resolved with oral metronidazole, which was replaced by a divided intravenous dose of meropenem. The patient was neutropenic. The bowel was tender but without peritoneal signs.

An abdominal film showing dilatation of the colon and PI.

We would like to acknowledge an error that was made in our article previously published in the Journal of Pediatric Gastroenterology and Nutrition (2000;30:96–8).

The absolute amount of grams consumed per day for the figures presented in the article were incorrect. An error was made in calculating the mean intake when the age groups (11–14 and 15–18) were combined. The corrected amounts are listed in the following table. This error does not change the trends or interpretation of results previously reported. A Maria Siega-Riz and B Popkin apologise for this unfortunate circumstance.

References


CORRECTION

Please see the Archives website (www.archdischild.com) to view the corrected figures.
C difficile induced pneumatosis intestinalis in a neutropenic child

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Problems involved with the use of comforters

While I share many of the concerns expressed by Gill in his diatribe on dummies there are a number of points requiring further amplification or correction. The first patent on the India rubber nipple resembling the present day dummy was recorded in 1845 and was described in use in its present form in London in 1927. Unfortunately by this time the practice of dapping the dummy in a variety of sweetening agents to make it a more effective pacifier had become established and this habit was noted to be associated with the early onset of dental caries. No doubt the loss of primary incisors mentioned by Gill is due to their destruction by rampant dental caries associated with the persistent use of sweetened pacifiers and their subsequent extraction due to spreading infection, pain, and loss of sleep. The association of dummy sucking with malocclusion is more complex than stated. While there is a general agreement on the effect of prolonged dummy sucking producing malocclusions in the primary dentition, these abnormalities are mainly self corrective on cessation of the habit which is usually before 5 years of age.1

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References
1 Gill D. A diatribe on dummies. Arch Dis Child 2002; 86:222

Cataplexy in the Prader–Willi syndrome

We report cataplexy, sudden atonic episodes provoked by emotion, in three patients with Prader–Willi syndrome (PWS) and suggest that cataplexy may be relatively common in this condition.

Detailed questioning of the mother of an 18 year old woman who had PWS elicited a history of recurrent attacks, apparently induced by laughter, with sudden loss of power in all the patient’s limbs. If standing, she would slump to the floor but recover completely after a few seconds. She had no history of the sleep paralysis or hypnagogic hallucinations and there was no family history of cataplexy, narcolepsy, or epilepsy. Her EEG was unremarkable. Episodes of cataplexy and of narcolepsy, despite excellent weight control, have been reported by two other patients with PWS who attend this hospital, an 8 year old girl and a 10 year old boy. Only one of the three patients possesses the HLA DR15 (DR2) DQB1*0602 haplotype that is strongly associated with the narcolepsy–cataplexy syndrome.

Cataplexy is usually precipitated by emotion provoking laughter, anger, or joy. The affected individual often falls to the ground without losing consciousness and the phenomenon is often mistaken for an epileptic or cardiac event. It can occur in isolation as a dominantly inherited trait or in association with a number of other conditions (table 1). The association between PWS and cataplexy, though described previously,2,3 is not widely recognised. Suspected episodes of cataplexy have been reported in eight of 35; four of 25; and three of 17 patients with PWS. However, cataplectic manifestations are often “difficult to prove”, requiring a detailed history that is perhaps seldom available or elicited. We suggest that cataplexy may be relatively common in PWS and enquiries regarding its signs should always be made, especially in any patient with a past diagnosis of paroxysmal events.

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Discussion

A number of epidemiological and clinical observations suggest that KD may be caused by an infectious agent. These include geographic clustering of outbreaks, often with a seasonal predominance and the acute self limited nature of the illness. Many of the clinical features of KD are similar to those of other infectious diseases, for example, adenoviral infection and scarlet fever. Staphylococci, streptococci, and Epstein–Barr virus are some of the infectious agents implicated in KD.3,4 An unusual degree of immune activation caused by viral and bacterial protein toxins acting as superantigens is currently considered to be the basis of pathology in KD.56 We believe that our case shows the possibility that a meningococcal toxin could act as a superantigen to cause KD. We were unable to find any published record of such an association in the literature. The currently proposed hypothesis to explain the pathogenesis is that a genetically susceptible host becomes colonised on the mucous membranes of the gastrointestinal tract by an organism that produces a toxin which behaves as a superantigen. We propose that a toxin producing meningococcus could cause KD in the same fashion as toxic shock syndrome toxin producing Staphylococcus aureus. It is possible that our patient coincidentally had both illnesses at around the same time. Understanding the aetiology of KD remains a major unresolved issue in paediatrics. Although there is no conclusive data to support the superantigen induced disease theory for KD, evidence suggesting that superantigens may mediate KD is growing.

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References
Creased alkaline phosphatase, but normal conjugated hyperbilirubinaemia, greatly findings to those previously reported, with >1000. Liver investigations revealed similar an N-acetylglucosamine:creatinine ratio of gated hyperbilirubinaemia within two days. within a few hours of birth and severe conjugated hyperbilirubinaemia within two days. Renal tubular acidosis was manifest by generalised aminoaciduria, phosphaturia, and an N-acetylglycosamine:creatinine ratio of >1000. Liver investigations revealed similar findings to those previously reported, with conjugated hyperbilirubinaemia, greatly increased alkaline phosphatase, but normal γ glutamyltransferase. Plasma and urinary bile acids were normal. Histology of the patient’s liver revealed the presence of normal numbers of bile duct and no lipofuscin deposition or inflammatory changes. No giant cells were present.

Recurrent episodes of necrotising enterocolitis occurred during the first two months of life (no organisms were identified in either the blood or faeces at the time of the original or recurrent episodes). Repeated episodes of septicaemia occurred later. Marked failure to thrive persisted despite high calorie enteral feeds and correction of acidosis. The patient died at the age of 10 months. This patient differs in two ways from previous reported cases. Firstly, liver histology varies from that reported by Eastham and colleagues, in whose patients the liver biopsy specimens all showed giant cell transformation. It may be possible that the histology did not show typical features due to early timing of the biopsy. It is however possible that our case represents a phenotypic variant of the same disorder.

Secondly, we believe our case to be the first reported to have necrotising enterocolitis. No immunodeficiency has been identified in our patient, unlike others in the literature. It was noteworthy that the patient was receiving hyperosmolar formula feeds at the time of the first episode. The occurrence of necrotising enterocolitis should warn clinicians of the potential risk of hyperosmolar feeds in severely growth retarded infants with acidosis, even when born at or after term.

References

Echocardiography on the neonatal unit
Two dimensional, M mode and Doppler echocardiography is widely used by paediatric cardiologists to evaluate cardiac structure and function in neonates, infants, and older children. Anecdotally, it is also being used increasingly by neonatologists in the early newborn period. 1,4 We have recently undertaken a postal questionnaire survey of 38 neonatologists working in referral centres to review current UK practice. Thirty seven neonatologists responded to the questionnaire. Nineteen units performed more than 15 echocardiograms per month, six performed 10–15/month, and 12 performed less than 10/month. Echocardiograms were usually performed by paediatric cardiologists and/or neonatologists, but also occasionally by echocardiographic technicians. Neonatologists performed echocardiograms in two thirds of responding units. The commonest indications for echocardiography were: diagnosis/exclusion of congenital heart disease, assessment of ductal patency and haemodynamics, assessment of myocardial function, and assessment of pulmonary hypertension.

Only 12 (32%) units had 24 hour access to paediatric cardiology service on site; of those who did not, 18 units usually had access to these services on an on-call basis. Babies were transferred out of the neonatal unit for echocardiography in 13 (35%) responding units. Indomethacin was used to treat a symptomatic persistent ductus arteriosus (PDA) following a purely clinical diagnosis in 15 (41%) units.

This survey shows that echocardiography on the neonatal unit is often performed by a neonatologist rather than a cardiologist, presumably reflecting the (lack of) availability of 24 hour on-site paediatric cardiology services, even in neonatal referral centres. In a considerable number of units babies are either transferred out of the neonatal unit for echocardiographic assessment or receive treatment for PDA without prior echocardiographic confirmation. Such situations are undesirable and reflect the need for greater access to echocardiography on the neonatal unit, a service that is likely to be provided increasingly by neonatologists themselves in the future.

Although several paediatric echocardiography courses are available, currently there is no formal accreditation process for neonatologists. We believe there is a need to evaluate the reliability of echocardiography in the hands of neonatologists in a systematic way and are currently conducting such a study.

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CORRECTION

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