of varices has been a successful temporary measure which may allow the patient to grow before definitive surgery is carried out.

The technique was first described by Lunderquist and Vang in 1974, and has been used quite extensively in adults, but to our knowledge this is the youngest child to be successfully managed in this way.

We thank Dr W S Uttley for permission to report this case, and Dr N Finlayson for advice on management.

References


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Benign paroxysmal torticollis in infancy

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SUMMARY Of 5 infants with benign paroxysmal torticollis, 3 had symptoms of infantile migraine at the same time.

Paroxysmal torticollis (PT) in infancy is a self limited and benign entity, and was first described by Snyder in 1969. It is characterised by recurrent episodes of head tilt (Figure), sometimes accompanied by vomiting, pallor, agitation, and ataxia which subside spontaneously within a few hours or days and entirely disappear within a matter of months or years. It is not widely known and is rarely reported, although diagnostic problems with more serious causes of abnormal head and trunk posture or intermittent dysequilibrium in young children are encountered.

Recent observations of familial occurrence of

Figure (Case 5.) Head tilt in benign paroxysmal torticollis at ages 4 and 18 months.
The early onset in the first months of life, the very frequent and often strikingly regular recurrence, and the tendency to remit spontaneously and to disappear entirely after a few months or years of life make it unlike any other known form of intermittent torticollis. Such attacks occur quite often initially (once or twice a month), last a few hours or days, and gradually disappear or recur after a long interval free of symptoms, eventually to stop completely. In our cases, these attacks stopped when two of the children were aged between 2½ and 3 years (Cases 2 and 5), but in two others they were replaced by episodes of typical migraine.

During the attacks, the head is tilted to one side (rarely always to the same side) and at times is slightly rotated. Some children resent head straightening, appear very unhappy at this manoeuvre, and immediately tilt their head back again. This was observed in only 3 of our patients. Chutorian reported briefly on 5 children with a
syndrome identical with that described by Snyder,1 but in addition he mentioned retrocollis in 2 children and a trunckal postural aberration during the attacks in 4 children. The trunckal posture was also observed by Sanner and Bergström3 and was present in our Case 2. Some children with PT do not appear sick or distressed during the attacks. However, a number of associated clinical symptoms, insisted upon by Snyder1 and evident in most of our cases, is often seen. Such symptoms begin either during the initial attack or during the course of subsequent ones. Pallor, irritability, vomiting, and a general malaise have been recorded. Unsteadiness of gait was present in all our patients from the time they started to walk; this was a major complaint in one child (Case 4), but was less evident although still clearly present in the others in whom there was a tendency to veer to the side of the head tilt. Nystagmus to the left was noted during an attack in one child (Case 4). The children generally wake up in the morning with the head tilt and no specific precipitating factors have been described. Apart from abnormal head posture and instability of gait, the general physical and neurological examinations are normal. Electroencephalograms (both during attacks and between them) and neuroradiological examinations are normal. Results of auditory and vestibular function are conflicting.

Snyder found that ‘ice water applied to the ear canal failed to produce nystagmus’ in 9 of his 12 patients (6 tested during infancy and 6 tested later in childhood). Seven cases tested by audiometry in later life had ‘diminished hearing’. Our Case 4 had a normal audiogram, and normal reactions to rotational and caloric testing under electronystagmographic control. Snyder found no evidence of peripheral vestibular disturbance between attacks nor was there such evidence during an acute attack. Lipson and Robertson’s case1 was also had normal water caloric testing during an attack.

We found a similar disorder in the sibling of one of our patients, a positive history of migraine (maternal) in 3 cases, and clinical features of typical childhood migraine during some attacks or at follow-up in 2 cases. Familial occurrence of PT has been reported in 2 siblings. The father of Sanner and Bergström’s case 1 had also suffered from PT in infancy. Four of the original cases of Snyder have now developed benign paroxysmal vertigo. We have not seen this nor has it been reported by others.

Our oldest child (Case 4) developed classical migraine and 2 others (Cases 1 and 3) complained of headaches with each attack of torticollis as soon as they were old enough to express themselves.

Despite some minor differences in symptoms and course, the children described here share many features in common with those reported in the literature; this seems to confirm Snyder’s observation of a separate and new clinical syndrome. The recurring abnormality of head posture is most probably a compensatory torticollis for a functional vestibular disturbance. This is suggested by many aspects of the syndrome. The associated pallor, vomiting, unsteadiness of gait with a tendency to veer to one side, and at times nystagmus, all favour this possibility. Snyder1 postulated a peripheral vestibular disorder (a possible form of labyrinthitis) because of the lack of vestibular responses to caloric testing in 9 of his patients, with decreased hearing in some of them. We, like Sanner and Bergström,3 have found normal vestibular responses with electronystagmographic control both between attacks and during them.

No abnormality of hearing was noted in their cases or in ours. As Sanner and Bergström3 stated there is no proof of a peripheral vestibular disorder in this syndrome, and a paroxysmal dysfunction of central vestibular structures or their connections seems more probable. The positive family history of PT recently reported, the family history of PT and migraine in 3 of our cases, the concurrence of typical migrainous symptoms associated with torticollis in our Cases 1 and 3 and the fact that Case 4 later developed classical migraine are circumstantial arguments for a migrainous aetiology in a number of instances. A transient vascular disturbance in the brain stem territory, as in basilar migraine might be responsible.3 Although torticollis has not been reported in cases of basilar migraine in children,3 it is possible (as suggested by Sanner and Bergström3) that the manifestation of the same basic disorder at an earlier age has a different impact on immature postural reflex mechanisms. On the other hand, migraine has also been implicated in the aetiology of some cases of benign paroxysmal vertigo8 which did in fact follow PT in 4 cases of Dunn and Snyder.6 A family history of PT and migraine should be sought and such children should be followed up and reported for a long period.

References
Postural deformities in congenital nephrotic syndrome

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SUMMARY Six successive cases of congenital nephrotic syndrome are described. Each one showed flexion deformities of the knees and hips, widely open anterior and posterior fontanelles, and wide separation of the skull sutures. These abnormalities were present not only in cases in which the renal histology was of the microcystic Finnish type of congenital nephrotic syndrome, but also in those in which the histological picture was one of the variants associated with congenital nephrotic syndrome. It is suggested that such abnormalities are postural deformities, possibly produced by the large placenta.

In congenital nephrotic syndrome (CNS) heavy proteinuria and hypoalbuminaemia are present at birth. Affected babies may be hydropic, but more commonly oedema only develops in the first few days of life. Occasionally, the appearance of oedema may be delayed for weeks or months. CNS is generally familial and idiopathic, but may be secondary either to infection or to renal vein thrombosis although this is rare.1

The Finnish type of CNS is inherited as an autosomal recessive.1 In this syndrome the placenta is always large, generally at least 25% of the birthweight. Preterm delivery and birth asphyxia are common, and the baby is usually of low birthweight. Typically, the baby has a small, low-bridged nose, the anterior and posterior fontanelles are widely open, and the skull sutures widely separated. Calcanevolar deformities of the ankles are common.1 Other histological types of congenital and familial nephrotic syndrome occur. The two most common variants are diffuse mesangial sclerosis and focal glomerular sclerosis.1

The 6 patients with CNS described in this report showed all these abnormalities and they had other skeletal and articular abnormalities too. Two of them did not have the Finnish type of CNS.

Case reports

Details of the 6 cases are given in the Table. In 4 cases the placental weight was recorded and was between 40 and 52% of the birthweight, in a fifth case the placenta had been noted to be ‘very large’. Each baby developed oedema within one week of birth. The diagnosis of nephrotic syndrome was confirmed by demonstrating hypoalbuminaemia (serum albumin 8–20 g/l) and heavy proteinuria (urine protein 80–180 mg/h per m2).

Large anterior and posterior fontanelles with widely separated sutures were present in all 6 patients, as were flexion deformities of the hips and knees.

Table  Summary of patients

<table>
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<th>Case</th>
<th>1</th>
<th>2</th>
<th>3</th>
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