Infantile colic and chiropractic spinal manipulation

EDITOR,—We congratulate Olafsdottir et al on their article. The sum of the evidence on spinal manipulative therapy (SMT) in the treatment of infantile colic now is that there are 3 randomised controlled trials (RCTs) on the subject. Two RCTs demonstrated a significant positive effect of SMT, and 1 RCT was unable to demonstrate any treatment effect.

The reasons for this discrepancy are not known, but Olafsdottir et al suggest that their finding of no effect of SMT may be due to the blinding of the infants’ mothers. Another equally likely explanation could be that we are witnessing a dose response phenomenon.

In their trial, Olafsdottir et al used a treatment protocol of a maximum of 3 sessions of SMT, whereas the other 2 RCTs, which used more sessions, did not achieve a positive treatment effect. This more pragmatic approach resulted in 64% of infants receiving up to 6 sessions.

We believe that this dose response problem should be addressed in future trials of SMT for infantile colic.

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Diluted treatment effects

EDITOR,—If my reading of this colic study is correct, it appears that both groups received standard counselling and recommendations for the care of a colicky child. My question to the authors is, if these recommendations are effective in the reduction of colic, does this not raise the possibility that any treatment effect in the SMT group could have been diluted by the introduction of a second active treatment (standard recommendations) in the control group? Put another way, was the placebo intervention an inert intervention or was it a second active intervention?

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Comments.—read with caution!

EDITOR,—The commentary by Lenney correctly points out that clinicians are often slow to apply good research evidence to clinical practice. However, the choice of once daily intravenous gentamicin to illustrate this point is unfortunate. Extended interval aminoglycoside dosing is widely used in paediatric and neonatal practice for the treatment of serious gram negative infections, the treatment of newborn infants with sepsis, and the treatment of chronic Pseudomonas aeruginosa infection in patients with cystic fibrosis.

However, the introduction of extended interval dosing has not been based on the results of appropriately designed trials in children and neonates. The largest meta-analysis of single versus multiple daily dosing of aminoglycosides for the treatment of gram negative sepsis included only 2 paediatric studies. The use of once daily aminoglycosides in children and the newborn is still currently unlicensed. Finally, a recent systematic review of once daily versus multiple daily dosing of aminoglycosides in CP concluded that there was insufficient evidence to recommend a change in practice. This was because most clinical trials were of insufficient quality or were performed in adults and so the results should not be extrapolated to children.

We argue that the presence of evidence from “a number of studies from numerous countries” should not be the basis on which implementations in practice should be founded. Instead, quality of evidence should be of paramount importance, even if there is little of it.

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Acloops are not responsible for acute paediatric attendances with alcohol intoxication

EDITOR,—We were interested to read Dr Robson’s leading article regarding alcohol misuse and the reference to acute alcohol admissions to Alder Hey in Liverpool, UK. We too are concerned by the increasing number of these problems that we see in hospital paediatric practice.

We carried out a retrospective case note review of all the children seen in the Paediatric Emergency department in Sunderland between November 1999 and October 2000. One hundred children (57 girls and 43 boys) were admitted for 106 attendances with acute alcohol intoxication (2 children attended twice and 2 three times). The notes of 97 attendances were available for review. Most children were aged 13 to 15 (%), range 10–16 years. As might be expected, the majority presented during the weekend (66%) and in the evening or at night (84% between 19:00 and 01:00).

Half had been drinking with friends in a public place, although precise details were not recorded in many cases. Sixty one children (65%) were brought in by emergency ambulance and 48 (49%) were admitted. Thirty (31%) were documented to have been drinking vodka, 21 cider (22%), 12 (12%) beer or lager, 11 (11%) other alcohol drinks, 8 (8%) wine and 8 (8%) a combination of these. The type of alcohol was not recorded in 7 (7%) cases. In no cases were acloops thought to be the beverage responsible for the acute attendance, and the beverages consumed are comparable with Alder Hey figures from 1996.

Acloops and designer drinks appeal to young people, particularly 14–16 year olds, and there has been criticism that marketing may be aimed at this age group. Consumption of acloops has been associated with drinking in less controlled environments, heavier drinking, and greater self reported drunkenness. However, our data do not suggest that they are a problem in relation to acute intoxication presenting to Accident and Emergency. We support the statement that children will mimic adults in their use and misuse of alcohol, and consider that it is society’s changing attitude to alcohol and not the type of alcohol available that is of concern.

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Other implications of disposable nappies

EDITOR,—Partsch, Aukamp, and Sippell propose that increased testicular temperature in early childhood might affect later spermatogenesis. They suggest that disposable nappies could contribute to this and demonstrate a significant difference between the scrotal temperature recorded in infants using disposable nappies and washable cotton nappies. They mention in their introductory paragraph that other environmental factors may be important in the deterioration seen in male reproductive health over recent years, but do not relate any of these factors to disposable nappies.

There are many concerns about the use of disposable nappies in addition to increasing scrotal temperature that may impact on fertility and general health. The disposable nappy consists of a plastic outer layer, a layer of superabsorbent chemicals and inner liner. Nappies are not subject to government controls or independent testing and disposable nappy manufacturers do not need to disclose the contents.

Recently, concern has been raised about the presence of Tributyl Tin (TBT) in disposable nappies. Greenpeace and Women’s Environmental Network have commissioned research which showed that there were significant levels of TBT in many brands of disposable nappies, including those on sale in the UK. TBT may be in contact with skin for up to 3.6 times the WHO’s estimated tolerable daily intake. TBT is an environmental pollutant which is used in anti-fouling ship paint. It is known to disrupt the endocrine and immune systems and is linked to neurological and reproductive disorders. There are international plans to phase out its use.

There are superabsorbent chemicals used in disposable nappies to form a gel in contact with urine. This gel can be seen on the skin in contact with it and it has been shown that it is the length of contact of urine with the skin that is most important in the development of nappy rash and it may be that an infant in a disposable has more chance of developing nappy rash as they are often changed less frequently than an infant in washable nappies. In addition, there are cost savings both to individuals and organisations using washable nappies, and there have been several successful hospital projects using washable nappies on postnatal wards.

As paediatricians committed to the health of children, we should be aware of the issues raised by the use of disposable nappies, the alternatives that exist, and sources of information and support for parents who are concerned about ensuring a safe and sustainable future for their children.

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4 Greenpeace. Greenpeace calls on parents to return contaminated nappies to producers: new tests show that TBT-free nappies are a rarity. Press Release 19th May 2000 www.greenpeace.org.

Dexamethasone, survival, and neurological impairment

EDITOR,—Professor Pharaoh questions whether the increased rate of cerebral palsy among newborn infants who were randomly allocated early postnatal dexamethasone therapy in the trial by Shinwell et al might be because dexamethasone increased survival of infants who were impaired before birth, and not because dexamethasone caused cerebral impairment.

However, two recent systematic reviews of randomised trials of postnatal dexamethasone therapy in infants at risk of chronic lung disease do not support this hypothesis. Halliday and Ehrenkranz found no difference in survival in trials of dexamethasone given within 96 hours of birth. Doyle and Davis found no difference in survival, overall or in any subgroups, in trials of dexamethasone therapy at any time after birth. Both reviews concluded that postnatal dexamethasone may cause neurological dysfunction and called for further trials with appropriate follow up.

Professor Doyle is currently co-ordinating such a trial in infants under 1000 g or less than 29 weeks who are ventilated after 7 days from birth (the DART study, Dexamethasone in tiny infants—a Randomised Trial). Those interested in participating in this important study are very welcome to contact him at l.doyle@obgyn-rwh.unimelb.edu.au.

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NOTICE

Notice of duplicate publication

Rushforth H, Bliss A, Burge D, Glasper E.


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The same data, resulting from a single pilot study were reported in the two above papers. The authors have apologised, explaining that they had not intended to flout accepted academic standards, rather that they wished to bring their findings to the attention of two separate readerships—namely paediatricians and nurses. However, we would not wish compilers of systematic reviews to include these data twice and therefore we give notice of duplicate publication and withdraw the article published in Archives of Disease in Childhood.
Other implications of disposable nappies

C HEAL and C COOPER

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