Correspondence

Dr Stählberg comments:
The definition of colic was stated in the introductory lines; the healthy babies had expressed colic of three to 13 hours’ duration daily, only cases 2 and 6 occasionally having had daily colic of shorter duration than three hours; washout periods have no relevance in this context; any food between treatments might produce carry over effect; professional statisticians were consulted about proper statistical methods.

Based on previous reports we decided that one week on each milk preparation should be sufficient for spontaneous recovery. We knew that only in 50% of infants would colic resolve by the age of 3 months, particularly children with severe colic who may have extended duration of the problem.

Cases 2 and 9 provided a slight decline in the overall percentage of symptomatic days. Most days colic was present even during the last treatment. A closer look at the information provided in the Tables shows that two children had their longest daily colic during the first treatment, four during the second treatment, two during the third treatment, and two during the last treatment. Three children had their shortest daily colic during the first treatment, three during the second treatment, one during the third treatment, and three during the last treatment. A systematic error by order of treatment is therefore definitely ruled out.

We are sorry for confusing those who were satisfied with the present knowledge about the aetiology of infantile colic. We feel that colic is not a uniform entity nor that milk is the universal cause of the problem. Unfortunately, formulas free from cow’s milk are now commonly and uncritically given to infants with colic by health professionals and laymen.

References

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Chromosomal defects and caesarian birth

Sirs.

In their interesting article Dr Young et al provided further evidence that infants with trisomy 18 are often born by caesarian section. Chromosomal defects were diagnosed after birth in 19 of 1411 infants weighing 501–2000 g liveborn to Merseyside residents in 1979–1981. Eleven (58%) of the 19 were delivered by caesarian section—five elective and six during labour—compared with 27% of the other infants (p<0-01).

The increased risk of caesarian birth was significant after allowing for birth weight, gestational age, and sex (p<0-05). The risk, however, applied not only to infants with trisomy 18 (five of eight) but also to infants with other chromosomal defects (six of 11 infants). These comprised all infants with monosomy 4p (n=1), trisomy 4p (n=1), ring 13 (n=1), and trisomy 13 (n=1), and two of seven with trisomy 21.

The risk was related to severe growth retardation: the birth weights of nine of the 11 born by caesarian section were below the 5th centile for gestational age compared with two of the eight born vaginally (p<0-05); trisomy 21 was not associated with severe growth retardation as often as the other defects. Infants with chromosomal defects had lower 5- and 10-minute Apgar scores than other infants (p=0-023 and p=0-011, respectively); associated cardiac defects may increase the risk of fetal distress and obstetric intervention.

The authors point out the potential value of a safe means of rapid fetal karyotyping in late pregnancy, when growth retardation or hydramnios raise suspicion of a severe congenital defect. Our low birthweight sample, however, contained 560 growth retarded livebirths (birthweight <10th centile for gestational age) of which only 13 had diagnosed chromosomal defects. Would ultrasonography for cardiac defects help to narrow the field?

References

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Phosphatidylglycerol in tracheal aspirates for diagnosing hyaline membrane disease

Sirs.

In a recent paper, we showed that the simple and rapid determination of phosphatidylglycerol (PG) in tracheal aspirates, for the diagnosis of hyaline membrane disease, was more sensitive (97%) than the lecithin:phosphatidylcholine (L:S) ratio (88%), with a similar specificity (76%). It seems to us, however, that the discrepancy between biochemical tests and clinical diagnosis was observed particularly in the lowest gestational age newborns.

Accordingly, we studied PG and the L:S ratio in 149 newborns with respiratory disease (term, 26 to 42 weeks) to determine whether there was a correlation between the results and the gestational age.

For the L:S ratio, the results did not depend on the gestational age. The sensitivity and specificity of this test were 91% and 74%, respectively. With the determination of PG, however, the results depended on the gestational age. For newborns with a gestational age of 31 weeks or
more, the sensibility and specificity of PG determination of hyaline membrane disease were 100% and 77%, respectively. For newborns with a gestational age of less than 31 weeks, the sensibility was the same by both methods (91%) but the specificity was only 30% with the PG test.

In conclusion, in newborns with the lowest gestational age (less than 31 weeks) estimation of the L:S ratio is preferable to PG determination for the diagnosis of hyaline membrane diseases. As for other newborns, given its simplicity, rapidity, and reliability, PG determination can be regarded as a useful method for the diagnosis of this respiratory disease.

Reference

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Nebulised beclomethasone dipropionate suspension

Sir,

We were interested to read the comments on our two papers1 2 by Dr Clarke3 but consider that he has overemphasised the differences between our two publications.1 2 As he points out, although the paper of Storr et al showed a significant response to treatment with beclomethasone, the study of Webb et al showed similar trends, although these failed to reach significance.1 Secondly, the children studied by Webb et al almost certainly had more severe asthma as one of the entry criteria was a failure to respond satisfactorily to treatment with nebulised sodium cromoglycate.

We agree, however, that beclomethasone dipropionate given as a nebulised suspension to preschool children is less effective than the same drug given by rotahaler or aerosol to schoolchildren with asthma.

Correspondence

References

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Cooperation on developmental assessments

Sir,

I wonder if through your columns I can make a plea for more cooperation between assessment centres attempting to meet the developmental and educational needs of children and research teams from neonatal departments.

I have recently, on several occasions, found it impossible to make any meaningful assessments of children because I discover that within the previous few weeks a research team from the hospital where the child was born has contacted the parents, known of our involvement, but not contacted us before going in and performing various standardised tests, which then cannot be repeated as part of the child’s normal routine assessment for his care. We then do not have any results from this testing and cannot perform our own because of it.

I am perfectly happy, with the parents’ permission, to make results of our assessments available to research teams, but I really feel that it is to the detriment to the child if they insist on working in isolation.

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Phosphatidylglycerols in tracheal aspirated for diagnosing hyaline membrane disease.

J F Magny and J Francoual

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doi: 10.1136/adc.62.6.640-b

Updated information and services can be found at:
http://adc.bmj.com/content/62/6/640.2.citation

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