Correspondence

Reference


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*Dr Robinson has confirmed that each of the babies was receiving oral xanthine at the start of the necrotising enterocolitis. Editor*

Superfecundation

Sir,

In a recent article by James1 it was suggested that the relationship between birthweight and the gestational age of dizygous twins, as assessed by the Dubowitz method, could be explained by superfecundation. If this hypothesis is valid, there should be no consistent difference in the Dubowitz scores of monzygous twins.

During a study of 66 twin pairs2 we carefully examined all placentas at birth. Monozygous twins were diagnosed if their placentas were monochorionic and demonstrated vascular anastomoses. Unlike-sexed twins were regarded as dizygotic. In the study sample there were 12 monozygous and 30 dizygous pairs of twins. In the monozygous pairs the heaviest twin had the highest total Dubowitz score on 10 occasions while the lightest twin had the highest score on only 2 occasions. In the dizygous pairs, 21 heavier and 9 lighter twins had the highest score.

We conclude that the heavier twin scores higher than the lighter twin in both monozygous and dizygous twins. This suggests that birthweight and not superfecundation is responsible for the Dubowitz method giving a higher scored gestational age to the heavier twin.

References


D L WOODS AND A F MALAN
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Dr James comments:

On average the Dubowitz scoring system estimates a higher gestational age in respect of the heavier member of a twin pair. The data presented here by Woods and Malan show that this occurs when the system is applied both to dizygous and monozygous pairs which suggests strongly that there is a flaw in the system, as claimed by these authors. However, I think they overstate their case when they suggest that their data rule out the possibility that in some dizygous cases superfecundation (and not the admitted flaw) may be the basis for such a result. After all, superfecundation does occur (admittedly with unknown frequency), and it seems entirely plausible to suppose that at confinement the first-conceived twin should weigh more than the second-conceived twin.

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