570 Correspondence

References

P R DONALD
Department of Paediatrics and Child Health, University of Stellenbosch, South Africa

M A KIBEL
Institute of Child Health, University of Cape Town, South Africa

Correspondence now closed.

Management of children with head injuries in district general hospitals

Sir,

In his paper on the ‘management of children with head injuries in district general hospitals’ Mr Hayward expresses the view that the primary responsibility for children with head injury should be undertaken by paediatricians.1 We agree with this opinion but would like to highlight that this does not appear to be current practice.

We have just completed a survey of all children who were admitted with or who died from a head injury in the Northern Region between the years 1979 and 1987. In this period there were 25 152 such children of whom 258 (1%) died. Thirty three children died at the site of the accident and a further 106 died on their way to hospital.

Altogether 25 009 children were admitted to hospital; 10 561 (42%) of these children were admitted under the care of specialists other than a paediatrician or neurosurgeon. The number of children admitted to a regional hospital with expertise in both paediatrics and neurosurgery was 7179, and 6246 (87%) of these children were cared for by either a paediatrician or a neurosurgeon or there was shared care. The number of children admitted to a district general hospital was 17 830, of whom 8202 (46%) were cared for by a paediatrician; 9628 (54%) of the children admitted to the district general hospitals were cared for by other specialists, primarily general or orthopaedic surgeons.

Of the 116 children admitted to hospital and who subsequently died, 33 (28%) died at a district general hospital. Twenty seven of these 33 children died under the care of a general or orthopaedic surgeon. Twenty four of these 33 children survived more than six hours and could therefore have been transferred to a specialist centre.

Head injury is the most common cause of death and acquired disability in childhood, yet there is no general agreement as to the most effective approach to either acute management or to rehabilitation. The relative paucity of research into specific aspects of the management of children with head injury may in part reflect the present wide spread dispersal of the care of these children among different specialties.

We agree with Mr Hayward that the high incidence of learning and behavioural difficulties which may follow even mild head injury2 emphasises the importance of paediatric involvement in the acute and long term care of all head injured children even those with mild head injury.

We believe that there is an urgent need for paediatricians to revise the facilities offered to children with head injury to ensure that they receive the highest standard of care. Furthermore, research is needed in both the acute management of children after head injury and their rehabilitation in an attempt to reduce the high mortality and morbidity.

References

P M SHARPLES, A AYNESLEY-GREEN, and J A EYRE
Department of Child Health, University of Newcastle upon Tyne

Tight nuchal cord and neonatal hypovolaemic shock

Sir,

Dr Vanhaesebrouck and his colleagues do well to warn of the danger of the hypovolaemic shock that may follow clamping and division of a nuchal umbilical cord.1 During studies in Bristol (1963-5), it was observed that there was normally a shift in blood volume from the fetus to the placenta during the second stage of labour. This ‘fetoplacental transfusion’ was attributed to the more ready compression of the soft walled, low pressure umbilical vein than the firm, high pressure umbilical arteries, between the body of the fetus and the wall of the birth canal. When the umbilical cord was clamped at the moment of birth, as much as 30-40% of the normal fetal blood volume might be trapped within the placental vasculature rendering the placental congested, tense, bulky, and more likely to be retained.

On the other hand the newly born infant often exhibited transient signs of hypovolaemic shock with hypotension, tachycardia, and pallor due to peripheral vasoconstriction. While this insult was tolerated remarkably well by most healthy term infants, it was capable of causing resuscitative and adaptive problems among those that were preterm,
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P M Sharples, A Aynsley-Green and J A Eyre

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