Malnutrition as a prognostic factor in lymphoblastic leukaemia: a multivariate analysis

Editor.—Borato Viana et al report evidence that malnutrition is an adverse prognostic factor in childhood acute lymphoblastic leukaemia (ALL), suggest that the effect may apply even to moderately undernourished children, and discuss some possible mechanisms. While the relevance of severe malnutrition to the developed world may seem limited, our own evidence indicates that relatively mild undernutrition (weight for height SD score <−0.5) had adverse prognostic significance in children treated for ALL in Glasgow on the UKALL-X protocol. We would also like to add two possible mechanisms which may be worthy of investigation: impairment of immune function by undernutrition and variability in body composition between patients producing variation in drug pharmacokinetics. There are now three studies which indicate the need for further research on the relevance of nutritional status to outcome in ALL, and on the possible mechanisms.

Malnutrition as a prognostic factor in lymphoblastic leukaemia: a multivariate analysis


Reilly JJ, Odame I, McColl JH, McAllister PJ, Gibson B, Wharton BA. Does height for height have prognostic significance in children with acute lymphoblastic leukaemia?


Central nervous system tumours—lack of national studies

Editor.—De Thorne and Foreman, in their letter published in July, point out that children with brain tumours have not been allowed the advantage of participating in national trials because of the lack of such studies and exhibit the Medical Research Council (MRC) UK Children’s Cancer Study Group (UKCCSG) to address this issue.

Their letter unfortunately ignores the fact that the UKCCSG has been working with the International Society of Paediatric Oncology to run clinical trials for children with primitive neuroectodermal tumours since the mid 1980s. The major problem faced by the US National Cancer Institute and the UKCCSG and the International Society for Paediatric Oncology has been a reluctance by the neurosurgical community, to whom most of these patients present in the first instance, to pass their clinical care onto paediatric oncologists. Indeed, at a time when 80% of children with malignant disease are being referred to paediatric oncology centres, only 46% of children with central nervous system tumours are being referred.

The group has recently expanded its area of activities, studies are currently open for the treatment of children with primitive neuro-ectodermal tumour, brain stem glioma, and for the treatment of infants under the age of 3 years. In the near future, protocols will open for the treatment of children with low and high grade astrocytomas and for intracranial germ cell tumours.

The problem therefore lies not with the efforts of the UKCCSG or the MRC to promote such trials, but with the cooperation that we need to receive from our neurosurgical colleagues, and a willingness from the paediatric oncology community to enter these children to randomised clinical studies.

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Audit of neonatal intensive care transport

Editor.—Two articles concerning transport of the critically ill neonate and child appear in the July issue of the journal.

Seventy-five per cent of 56 children transported had adverse clinical events. This is an extremely high rate. A report of complications during transport of 614 patients in North Carolina reported complications in the neonate of 31% and 1% in paediatric patients less than 1 year old. Beyond 1 year no complications were observed. I agree strongly with the authors that inadequate stabilisation before transportation is the principal cause of complications during transfer. We have documented the time taken for stabilisation in 2863 neonatal and paediatric patients. The median stabilisation time for a neonate was 80 minutes and for a paediatric patient was 45 minutes. The time for stabilisation of a neonate reported by the Nottingham group of 75 minutes is comparable with our experience. This time is very well spent. Unfortunately, a common but deplorable approach to transport reflecting an attitude of ‘get that patient on the go’ provides no comfort or safety for patient during transport.

This attitude of so called ‘swoop and scoop’ with inadequate time spent on stabilisation is rarely if ever appropriate in interfacility transfer of sick patients. There are those who claim 75-80 minutes spent stabilising a sick newborn before transfer is unnecessary. The so called (and cynical) ‘stay and play’ philosophy I disagree with. Rather stay and play and be assured a thorough stabilisation than swoop and scoop with serious but avoidable problems during the transfer.

An in-depth, very practical, and helpful revision of the 1986 American Academy of Pediatrics guidelines for air and ground transportation of neonates and paediatric patients has been recently published and is highly recommended for all facilities engaging in paediatric and neonatal transport.

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Familial occurrence of congenital laryngeal clefts

Editor.—In your journal in 1973, in association with the late J G Stocks, we reported two sibships of double first cousins in which six children had congenital laryngeal anomalies.

Three of the children had proved congenital posterior laryngeal clefts, one had subglottic stenosis with a deformed cricoid cartilage, and it is likely that the other two had posterior laryngeal clefts.

Although these occurred in only one generation, we speculated that the mode of inheritance may well have been autosomal dominant. We relied primarily on statistical argument that dominant inheritance was more likely as there were only three unaffected children in the two sibships. Five siblings of the mothers had died in infancy and the sixth had stridor all his life which we took as support for the suggested mode of inheritance.

We have now seen the first child of patient 16 (Lyndal) in that report. He was diagnosed at laryngoscopy and bronchoscopy as having a posterior laryngeal cleft which extended down to the cricoid cartilage. The father of the child was unrelated to the mother. Patient 14 (Judith) has two children, one of whom has laryngomalacia but no cleft and the other has no symptoms of laryngeal disease. The other affected women have no children.

The occurrence of this malformation in the next generation of the sibs we reported supports our hypothesis that in this family congenital laryngeal clefts are inherited as autosomal dominant traits.

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Female genital mutilation

Editor.—Why do we call female genital mutilation, when a similar barbaric operation carried out for equally arcane tribal reasons on male genitalia is called circumcision, and doesn’t seem to worry the child abuse specialist?

Shouldn’t both be banned, both allowed, or examples of both practices referred to...