true birth prevalence in any one country should be similar to the collective prevalence in Europe or even that in the USA. The number of cases occurring in a given sample varies randomly around the true population prevalence of the condition: the fact that a screen for a rare condition has been detected as many cases as would be predicted from the population prevalence does not imply that no cases have been missed.

Is hearing really assessed after bacterial meningitis?

EDITOR,—Dr Fortnum and Professor Hull are rightly encouraged by the results of their survey.1 Nearly 90% of paediatricians claim to refer all children who have suffered from bacterial meningitis for formal hearing assessment. The authors hope that these good intentions are translated into clinical practice.

Unfortunately this may not be the case. A recent review of bacterial meningitis at our hospital shows that 31% of survivors had no documented hearing test.

Casenotes of children admitted with bacterial meningitis over the eight years 1984 to 1992 were reviewed. Of the 206 identified 156 were available, excluding tertiary referrals. Of these five children died, and 12 (8% of survivors) were later found to have hearing loss. In 49 casenotes (31%) there was no evidence that a formal hearing test had been carried out. Of these six children were not offered any follow up, 11 did not attend follow up, and two moved to other health districts and were lost to follow up. The remaining 30 (19% of survivors) were seen as outpatients, but had no documented hearing test result.

There was no significant difference in the proportion of children with no hearing test recorded between the first four years of the study period, and the later four years (not significant by χ²). There was also no trend suggesting recent improvement evident over time.

Who should ensure a formal hearing test is performed on children who have had bacterial meningitis? Improved communication between hospital and community services is required. The introduction of a integrated child health service could prove valuable in this respect.

Near fatal haemorrhage from the superior sagittal sinus in Adams-Oliver syndrome

EDITOR,—We wish to emphasise the danger of haemorrhage from the superior sagittal sinus in association with aplasia cutis congenita of the scalp where there is also a skull defect.

Case report

A boy was born at full term after intrauterine growth retardation had been noted on antenatal ultrasonography. The parents were non-consanguineous and there was no history of maternal drug ingestion. Birth weight was 2080 g with head circumference of 30-2 cm (below the 3rd centile).

There was a large (4 × 4 cm) area of scalp aplasia with underlying bony defect (fig 1). The infant also had rudimentary toes and a short left index finger. A diagnosis of Adams-Oliver syndrome was made, and his mother and grandfather were found to have features of the syndrome, which is usually transmitted in an autosomal dominant manner.

The child initially progressed well, but was admitted at age 3 weeks with bleeding from the scalp. When a dressing was removed the eschar ruptured and there was torrential haemorrhage from the superior sagittal sinus, requiring immediate resuscitation. Subsequently, an area of exposed brain 1-5 cm in diameter was noted, with free drainage of cerebrospinal fluid.

A combined neurosurgical and plastics procedure debrided, defined and closed the defect, employing a rotation scalp flap and split skin graft (fig 2). Postoperatively an internal cerebrospinal fluid leakage stopped spontaneously, and prophylactic antibiotics were given for several weeks. His subsequent progress has been uneventful.

Discussion

Scalp/skull defects may be an isolated phenomenon or associated with Adams-Oliver syndrome.1 Twenty per cent of isolated scalp defects have an underlying skull defect, whereas in Adams-Oliver syndrome 75% have scalp involvement and 64% of children have skull defects.2 The complications (infection, bleeding) and management (early closure in cases where the superior sagittal sinus is vulnerable) are similar in both situations.

Neonatal paediatricians should be aware of the potentially life threatening situation when scalp aplasia, underlying skull defect, and secondary infection occur in infants with Adams-Oliver syndrome. Successful closure of the cranial defect can be achieved and a combined neurosurgical and plastics approach is advocated.


Rett syndrome and the 4th metatarsal

EDITOR,—Rett syndrome,3 an intellectually handicapping, probably genetic disorder affects around one in 10000 females4 and is remarkable for the absence of congenital injury, disease or dysmorphism. As early as 1985, one of us (AMK) observed isolated shortening of the 4th metatarsal in some affected girls but not their families. The British Isles Survey for the 'Rett Syndrome' and clinics organised by the UK Rett Syndrome Association have recently provided an opportunity for serial examinations of cases. Among the last 50 classic cases aged over 5 years, we have observed nine with this solitary anomaly (1 in 5–6 cases). It was not observed in family members. Both feet were usually affected.

We are now examining residents and staff at the Royal Scottish National Hospital (Mental Handicap) as well as further consecutive cases of Rett syndrome and their families to compare prevalence in these groups.

Several disorders involving widespread malformations may include shortening of the 4th metatarsal and an increased incidence of minor malformations is generally expected among the intellectually handicapped population. Ray and Haldane in 1965 observed this solitary abnormality in three out of 2500 in a general male population. From their study of 61 pedigrees, they proposed dominant inheritance with 27% penetrance.1

Expression of a local growth anomaly might be attributed to the general growth disorder or to hyperventilation (usual in Rett syndrome and associated with reduced peripheral circula-
tion.' The anomaly, however, seems likely to relate to the genetic origins of Rett syndrome. If we suspect it is peculiarly associated with the Rett syndrome this will be a helpful, although not pathognomonic sign. More importantly it may provide a clue to the location of the genetic defect and the timing or nature of the developmental insult to the brain.

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3 Ray A, Hadland J. The genetics of a common 
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Drug abuse in children and adolescents: an update

EDITOR,—I read with interest the annotation by H Swadi, which was a most helpful overview of drug abuse in children and adolescents. Although illicit drugs are one of the main sources of substance abuse, iatrogenic sources also form a significant proportion. Abuse of prescribed pressurised aerosols (anasthesia inhalers) by young children and adolescents is little known and possibly underestimated. Young asthmatics are at risk of this form of drug abuse and may manifest acute psychiatric symptoms. Addiction is probably a function of the fluorinated hydrocarbons used as propellants, rather than the active substance itself.

The medical profession, primarily general practitioners, must be made aware of this unwarranted course of drug abuse, especially by any young asthmatics presenting with bizarre behaviour.

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2 Prasher VP, Corbett JA. Aerosol addiction. Br J 

What do parents know about vitamins?

EDITOR,—‘Health professionals should also aim, and be reminded, to improve supervision of vitamin supplementation’, say Dr Ko and colleagues.1 I would draw a different conclusion: stop recommending routine vitamins, except to high risk groups. Parents are clearly indicating their lack of enthusiasm for this practice, and surely hard pressed health visitors have better things to do than the value of vitamins for all babies is questionable. Fluoride supplements, yes — but health profes-

sionals would be better advised to devote their energies to pressing for water fluoridation, than reminding parents to do their duty.

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1 Ko MLB, Ramsell N, Wilson JA. What do parents 
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S P R I N G  B O O K S

Titillating book reviews

Why are first editions collected when second editions are rarer and better? If you are still reading this page I have achieved the first objective of a book reviewer, which is to entice the reader to start reading the piece. We ask our reviewers to provide a sparking first paragraph but perhaps we should encourage them to use the device of the literary supplements where irrelevant but titillating trash is used to ensnare the reader. Recent revelations that in these august periodicals are often compiled by close associates of the authors is in contrast with our policy of choosing a reviewer who is not known personally to the author. The book review section is the only part of the journal that is not peer reviewed and it is difficult to see how we could achieve that objective. We try to select a reviewer of appropriate experience but subjectivity is inevitably introduced, for example, an undergraduate textbook may be reviewed by a clinical tutor or an undergraduate.

We tend to avoid reviewing conference proceedings as the material is often published several years after presentation and long after the definitive peer reviewed paper has been published. The late Clifford Hawkins wrote reviews of new editions comparing them with the previous edition in the BMJ. This journal could carry a similar section if there was a demand. Paediatric orthopaedic surgeons seem to produce a new book every few months and there must be a limit to the number of reviews of new books on this subject that will attract our readers. Book reviews should be entertaining as well as informative. Have you any tips that may help the editors to achieve this goal?

BERNARD VALMAN
Editor

Fetal and Infant Origins of Adult Disease. 
Edited by D J P Barker. (Pp 343; £24.95 

There can be few British paediatricians unaware of the work currently proceeding in Southampton University regarding the early origins of adult disease, but probably not many have been able to study the full reports, or to have formed a view of the importance of the work. All this is provided in this volume, which includes 31 relevant articles from a large number of different journals, and is prefaced

by a very readable and balanced critique by Roger Robinson.

The work by David Barker and his group was initiated by the observation that geographical areas that had had high infant mortality rates in the early years of the century were now those with high rates of adult ischaemic heart disease. This prompted a search for obstetric and infant health records dating from that time, and the follow up and examination of the health of the individuals for whom these data were available, as well as the use of data from two of the national longitudinal studies. The description of the ingenious methodology used itself warrants the purchase of the book. But the subsequent studies that relate placental weight and fetal and infant growth rate to adult blood pressure, risk of ischaemic heart disease and stroke, and to the risk of non-insulin dependent diabetes read like a series of detective stories, and can be recommended for holiday reading.

The results have lead to a series of very plausible and sometimes complex hypotheses that raise basic and very important questions regarding influences on intrauterine growth and coping mechanisms when uterine nutritional supplies are constrained. The work also introduces the readers to the earlier parts of the book. But the subsequent studies that relate placental weight and fetal and infant growth rate to adult blood pressure, risk of ischaemic heart disease and stroke, and to the risk of non-insulin dependent diabetes read like a series of detective stories, and can be recommended for holiday reading.