The volume begins with an overview of sur-
factant, the historical background, and takes us for-
ward to a concept of gene cloning. There follows a treatise
on the physical chemistry and physiological activity of pul-
monary surfactants and this chapter is succeeded by one on surfactant proteins, those myeloid en-
terases, at once, fundamental to the function of surfactants while
being unwilling to yield their secrets.

The chapter on surfactant and lung liquid absorption at birth is revealing, at least to the
reviewer, but one wonders if the only function of fetal lung liquid is 'a template for fetal lung growth'.

Alan Jobe takes us through the metabolism of lung surfactants explaining what is known, nudging us towards the unknown, raising questions along this way. One example—it would appear that exogenous surfactant does not impair endogenous surfactant synthesis but isn't this odd in a biofeedback system?

The chapter on immune complexes formed in response to surfactant administration is disturbing. Whereas no clinical effects of such complexes has been described, they may pose problems in the longer term.

The chapter by Bengt Robertson on microscopy both without and with surfactant repla-
cement lends weight to the argument that such treatment improves lung function. Again, he raises problems of lung poor size and protein fluxes which will stir the reader from any intellectual lethargy.

The second half of the book deals with the variety of surfactants so far used in clinical trials. Much of the work has already been pub-
lished so the reader is able to relax more into this section. Again, the authors are at pains not to be catty but to draw attention to some potential disadvantages.

Altogether, I found this book stimulating and well worth reading. My major criticism is that, overall, it may be a little too enthusiastic. I doubt whether surfactant will prove to be a panacea and would have liked to see a dis-
cussion of surfactant failures. My other criticism is that, yet again, little is mentioned of Euro-
pean work (a well common complaint of American books.

G McCLURE
Consultant paediatrician

Paediatric Secrets. Edited by Richard A Polin, Mark F Ditmar. (Pp 447: £35.95 paper-

As medical literature continues to emerge at an overwhemng rite, it is refreshing to find a new book which is original, well presented, and a pleasure to use. The concept is simple: those questions commonly asked by American paediatric residents have been collected and then answered by a group of paediatricians associated with the Children's Hospital of Philadelphia. The areas covered include pathophysiology, clinical management, diagnostic tricks, specific diseases and defini-
tions, useful physiological data, and a few delightful oddities (Ondine's curse is com-
pared with 'intern's curse', mortals who are affected by not sleeping when they breath).

The title is misleading and does not do jus-
tice to the book. It may be useful at the resident (or senior house officer) who needs to have all the answers during a ward round, it has a much wider potential use. Candidates for the MRCP examination will use it for gathering information and paediatricians will find it valuable for teaching sessions, twice a week examinations, and for clinical management information. Each major system of disease has a separate chapter, and each question is followed by succinct, up to date information or advice. The information is presented as a discussion, or in lists and tables. There are a few line drawings and useful flow diagrams.

There is an inevitable American bias, and although some treatment advice is less useful in the UK (for example, the management of acute asthma or immunisation schedules) most information presented is pertinent and valuable. Some areas are particularly well covered, for example the treatment for necrotising enterocolitis and the discussion of Kawasaki disease are very good. It was wonderful to find precise information that is sometimes difficult to track down elsewhere.

There are a few errors and inconsistencies but the scope and accurate detail of the areas covered are remarkably comprehensive.

This is a fascinating, useful book and I would urge all paediatric departments to have a copy. Junior paediatricians can use it to out-
loud their sessions on indicated consultation. We can dip into it at leisure, remind ourselves of the answers to 1819 questions, or use it as a valuable reference for clinical problems.

J STROOANT
Consultant paediatrician

The Parents' Directory. Compiled by Fiona McDonald. (Pp 262: £5.95 paper-

Eight hundred voluntary organisations are listed in this helpful directory for parents. The variety of potential help is enormous. There are five main categories dealing with education, family welfare, handicap, health, and leisure. Finding one's way around this direc-
tory is slightly irksome. The rather incomplete index does mean that the reader has to wade through several categories before finding certain entries. One could quibble about some listings of organisations in the health section. Despite these shortcomings, this book does provide a useful reference source for parents.

Any professionals working with children should have access to a copy.

B M MACARDEL
Consultant paediatrician (community child health


This book draws together in a compact work the increasing volume of information on this the second commonest cause of mental retar-
dation after Down's syndrome. The fragile X syndrome, recognisable cytogentically under certain conditions by a gap (fragile site) at Xq27 on the X chromosome, is unusual among X linked disorders in that in as many as one third of obligate carrier females are men-
tally retarded. Even more fascinating is the fact that the condition may be transmitted through clinically and cytogentically normal males.

Five authors, distinguished in their respec-
tive fields, cover the important aspects of the clinical manifestations, epidemiology, beha-
vior and treatment, and DNA and cyto-
genetic studies.

Paediatricians and clinical geneticists alike will find Jean-Pierre Fryns' clinical descrip-
tions and accompanying photographs useful; the classical clinical trial of moderate mental retardation, long face with large everted ears and macro-orchidism often seen in the post-
pubertal fragile X male is less evident in the prepubertal male in whom relative macro-
cephaly is more striking and macro-orchidism is uncommon. Randi Hagerman emphasises the important correlation of the fragile X syn-
drome with autism and describes the charac-
teristic behavioural patterns of affected individuals, which not only provide important clues for the diagnosis but also allow appropri-
ate treatment and educational programmes to be devised. Useful comments are included on seeking and treating associated problems, such as pes planus, strabismus, hernia, scoliosis and mitral valve prolapse, which is said to affect as many as 50% of males. Treatment with folic acid is perhaps a more con-
traversial issue than the author suggests.

The syndrome occurs in all ethnic groups and Tessa Webb's chapter on epidemiology emphasises the need to define the populations for which prevalence figures are being derived.

At the molecular level, a number of theories have been proposed by various authors to explain the basis of this unique disorder; these are lucidly summarised by Ted Brown. The gene itself is proving to be elusive and it has not been difficult to identify DNA markers which are consistently close to the fragile X locus. Ted Brown describes, however, how in some families, use of flanking DNA markers may help in carrier detection studies.

Neil Tommerup highlights the cyogenic 'catch 22'; males and females with non-
specific mental retardation ideally should be tested cyogenetically for fragile X, but this adds a heavy workload to the labo-
atories, as many cells need to be screened (only a proportion express the fragile X marker) and special culture conditions must be met.

One minor criticism is that most of the authors refer to the 'female heterozygote' without defining whether this refers to oblig-
ate carriers on pedigree grounds or those who manifest the fragile X marker, or both. One small point of omission is that no specific men-
tion is made of the fact that, unlike in other X linked disorders, most heterozygotes (boy with fragile X are thought to be carriers.

This book will be of great value in promot-
ing awareness and understanding of this important disorder among paediatricians, who may well wish to purchase their own copy. The genetic idiociesnarcisys of the disorder (for example, only 50% of obligate carrier females express the fragile X marker) highlight the need for referral to a clinical geneticist for carrier detection studies in females (and males) at risk, and for prenatal diagnosis coun-
selling. Clinical geneticists themselves will find the book useful; Neilis Tommerup's check list for prenatal diagnosis being an example. Cytogenetists and molecular gene-
icists will also find a helpful 'state of the art' summary of the fragile X syndrome.

B M THOMPSON
Consultant geneticist


In contrast to the recent preoccupation with the role of suffocation in the sudden infant death syn-
drome (SIDS), there has been a relatively sparse literature on the aetiology of this condition.

The editorial team draws together an international panel of experts in the field, to discuss the current epidemiological, social, clinical and basic science evidence. Each of the 22 chapters is well referenced, and the reference list is comprehensive.

To understand the tremendous contribution this book makes, one should appreciate the paucity of scientific data available on the subject. It is clear that any discussion of the SIDS syndrome will soon be largely useless, as the popular media and the public in general have, in the last few years, become aware of the danger SIDS poses to their children, and have taken action to prevent it.

This book does an excellent job in providing an up to date, well referenced review of the available information on SIDS. It will be a valuable resource for child health professionals, especially for those involved in the assessment and management of families, and also for families themselves. The book is reasonably priced for such a comprehensive review. It is a must for anyone involved in the care of children at risk for SIDS.