Book reviews

Perinatal and Infant Brain Imaging. Role of Ultrasound and Computed Tomography. By C M Rumack and M L Johnson. Pp 248: £43.00 hardback. Year Book Medical (Blackwell Scientific), 1984.

Technological improvements in the early 1970s made accurate in vivo diagnosis of intracranial lesions in the newborn a clinical possibility. Since then much has been learned and published concerning the antecedents and possible aetiology of these lesions, and of their subsequent evolution and importance for neurodevelopmental outcome. Unfortunately these methods (particularly real time ultrasound) have often been used by paediatricians with little basic knowledge of the technology or by radiologists with little knowledge of the nature of the lesions they were observing. With the rapid spread of ultrasound machines, a basic textbook concerning imaging the infant brain is very much needed as most papers on the techniques and lesions are widely scattered throughout paediatric and radiology journals. This book is thus both timely and 'custom made' for all those neonatal units who have just obtained access to an ultrasound machine and want to know what to do with it.

After a brief historical introduction there are two good basic chapters on the technology of ultrasound and computed tomography, and normal appearances of the newborn brain on scans. Useful mention is made of the variety of confusing artefacts easily produced with ultrasound, but rather too little is made of the changes in scan appearances seen with increasing gestational age.

The fourth chapter on fetal intracranial diagnosis is well illustrated with typical scans, and each developmental abnormality is covered by a brief description of its incidence, aetiology, and likely outcome. Again clear guidance on normal appearances and recognition of artefacts is given. The following chapter is similar but deals with cerebral malformations in the newborn. Greater emphasis is given here to the use of computed tomography, although ultrasound appearances are also described.

Although the widest publicity has been given to the use of imaging techniques in the diagnosis of periventricular haemorrhage, the topic is covered here in a single

chapter. It is, however, comprehensive and well illustrated. A brief but useful review of current ideas on aetiology accompanies the descriptions of the scans. Hydrocephalus neoplasms, vascular malformations, and infections are covered in three further sections. The penultimate chapter covers in a rather limited way ischaemia and infarction, and oddly has a section on normal appearances in the preterm brain which would have seemed better placed earlier. The final chapter summarises the comparative usefulness of computed tomography and ultrasound in the diagnosis of the different lesions covered, and amply points out the limitations of these techniques and where newer techniques such as nuclear magnetic resonance imaging may have a useful role to play.

This is a well written, clearly illustrated, and extensively referenced handbook which will be invaluable to experienced or novice 'imager' alike.

R W I COOKE

Manual of Paediatric Gastroenterology. By J H Tripp and D C A Candy. Pp 168: £8.95 paperback. Churchill Livingstone, 1985.

As the title would suggest this is not meant to be a comprehensive textbook on paediatric gastroenterology. It offers a problem orientated manual with clearly laid out lists of differential diagnoses, plans for investigation, and flow diagrams offering an approach to management. In the introduction, the authors support their 'telegraphic' style of text as a means of making the book 'useable.' I would agree that they have been successful in this aim. It is divided into 13 sections, the first of which covers neonatal emergencies and surgery, and the second the acute abdomen. The next eight chapters cover a variety of topics including acute and chronic diarrhoea, failure to thrive, feeding problems, intestinal bleeding, protein losing enteropathy, recurrent abdominal pain, constipation, and soiling. There is a small section on liver diseases, a useful section on nutrition which includes advice on intravenous nutrition, and a section on investigation protocols is included.

Inevitably its approach has led to a number of didactic statements with which some people might take issue. It also has inevitable omissions. Nonetheless I am sure this is a book which both junior and senior paediatric staff will find useful in helping them to approach problems in a logical way. It should be an invaluable aid to more junior members of staff preparing themselves for higher diplomas. Hospital librarians might wish that it did not fit quite so easily into a white coat pocket.

V MILLER

Prostaglandins and leukotrienes. Blood and Vascular Cell Function. (Haematology series, vol 1). By J M Gerrard. Pp 320: \$78.00 hardback. Marcel Dekker, 1985.

This single author book has been written by a paediatric haematologist who describes himself as an 'enquiring physician who has some clinical involvement but who spends most of the time in a laboratory searching for an understanding of basic and fundamental mechanisms of cellular function'. It is an authoritative and detailed review of the haematological aspects of prostaglandins and related fatty acid metabolites. There are three parts. The first covers basic biochemistry, the second the different metabolic pathways in normal blood cells, and the third—the most interesting bit for clinicians—the role of prostaglandins and leukotrienes in various pathological conditions such as thrombosis, inflammation, allergy, and disordered haemopoiesis.

It is not a clinical text and does not offer any practical treatment advice but will help those who feel bewildered by what is undoubtedly a burgeoning field. Not surprisingly, terminology is confusing for the non-expert, a difficulty compounded by synonyms—cyclo-oxygenase and prostacyclin are the same as prostaglandin endoperoxide synthase and PGI₂, for example. Nonetheless, the author carefully provides explanations where needed concerning derivation of names, and has made a generally successful attempt to keep an essentially complex and incompletely understood subject comprehensible.

The book has seemingly been written primarily for general haematologists, but the jacket also boldly proclaims that it will be invaluable to a wide range of other specialists including pathologists, biochemists, immunologists, paediatricians, and even undergraduates. In truth it is most likely to appeal to those already interested in prostaglandin research rather than those seeking to broaden their knowledge, but paediatricians who like to keep abreast of the times might profitably scan at least section 3 if they can borrow a copy.

JOHN LILLEYMAN

The Epilepsy Reference Book. By P M Jeavons and A Aspinall. Pp 121: £3.95 paperback. Harper and Row, 1985.

For most lay people epilepsy is equated with generalised tonic-clonic seizures which induce responses of panic and helplessness in their observers. The *Epilepsy Reference Book* is designed to improve non-professional understanding. It consists of a series of answers to queries raised by patients, their relatives, and friends. The authors have spent their professional lives caring for people with seizure disorders. In particular, having worked closely with the advisory services of the British Epilepsy Association, they are well versed in the type of question asked. Their experience in providing answers is probably unrivalled and most of the statements in the book are masterfully uncontroversial.

The introduction contains a list of where to find answers to queries classified in relation to seizures, causes of epilepsy, diagnosis, investigations, treatment and outlook, first aid, living with epilepsy, help available, restrictions, employment, and fears and misunderstandings about epilepsy. This admirably supplements the conventional list of contents and the index. It is characteristic of the authors' approach that the largest sections are those on living with epilepsy, and fears and misunder-

standings. The information on employment is particularly well presented. In other areas there are answers which are not easily comprehensible in isolation and tendencies to use medical terms without adequate explanation. For example 'photosensitivity' is used in six places, but only explained in one, and 'idiopathic' and 'primary generalised epilepsy' are undefined. A glossary of medical terms would be helpful.

Although most of the text is probably comprehensible to the non-medical reader, the authors might find it useful to go through the book with the parents of a child newly diagnosed as having epilepsy before bringing out a second edition.

SHEILA WALLACE

My Child Won't Sleep. By J Douglas and N Richman. Pp 123: £1.75 paperback. Penguin Books, 1984.

This book is written for parents. In an inexpensive text of 123 pages, the authors have managed to describe the common patterns of sleep disturbances in childhood, and offer practical advice on their management.

An initial description of normal sleep patterns is followed by chapters on sleep in infancy, family factors in sleep disturbance, settling problems, night waking, early morning waking, and sleep in the handicapped child. The authors make the important point that lack of sleep does not harm children physically. Considering poor sleeping as a social nuisance rather than as an illness, they go on to describe simple behaviour modification techniques to redirect the unwanted behaviour. The advice given is straightforward; I would think that a well motivated parent could understand and follow it, but it does require a degree of insight on the part of the parent. The theoretical points made are illustrated by short case histories, which bring the book alive to the reader.

The text is unusually well referenced, a

feature which will make it additionally attractive to health visitors and doctors.

K N PEARL

Chronic Childhood Disorders. A Handbook of Medical Care in the Community. By G P Hosking and R Powell. Pp 280: £17.50 hardback. Wright, 1985.

This compact book contains an impressive amount of information, clearly presented, on various chronic disorders. The chapters, by various experts, include basic definitions and clinical details together with current investigatory patterns, treatment regimens, and prognosis. At the conclusion of each group of disorders there are basic practice points, references, and lists of additional information sources. The technical details are augmented by consideration of statutory and voluntary facilities, and management aspects of daily living for the patient and family.

No book of this size can expect to be comprehensive but the addition of a chapter on chronic skin disorders would be helpful. The failure to recognise the valuable role of good playgroups in the crucial preschool years in assisting development, improving the quality of life, and aiding social integration of children with chronic disorders and their families is to be regretted.

The information in this book should be of considerable interest and value to doctors in training (for all child health work), in alerting primary care doctors to the possible presence of a chronic disorder in patients, the interpretation of hospital reports, monitoring case progress, and communicating effectively with parents and colleagues, teachers and social workers.

The use of 'community' has been avoided as hopefully books such as this highlight and confirm the need for unification of child health case management when the terms 'hospital' and 'community' can be used without division.

ANN RAMES