an aid in the diagnosis, understanding and management of common disorders. Examiners also support this method. This monograph is designed to help the house officer with common neurological problems.

Fifty two brief case histories are given, some illustrated with an anatomical, radiological or histological clue. After each, there are some questions on diagnosis and management and then the answers. These are followed by brief paragraphs entitled “pearls” and “pitfalls” emphasising important points in relation to each study. There are also a few important references for the topic. Twelve very brief case histories entitled “clinical problems” are given at the end.

This little book contains a wealth of useful information although by its nature it has to be sought out. It makes easy reading and if all the facts given were retained by the readers, they would enlarge their knowledge of neurology. It is produced as a paperback at reasonable cost and clearly type-written. Some of the CT scan pictures, as in study 45, have lost definition. Better use of tables could perhaps have been made in drawing attention to common causes. Not all UK neurologists would believe necessary non-invasive investigation of the carotid arteries and CSF examination in a man of 65 presenting with a single generalised seizure.

Botulism is certainly a very rare condition in the United Kingdom. I should also query an incidence of 40–50% given for seizures in patients with head injury and loss of consciousness for more than 24 hours.

These are minor criticisms and overall I commend the authors on this study. For those who like to learn in this way, this will prove a useful work, offering much information that is easily assimilated.

T FOWLER


This volume fills very adequately a growing need in the field of positron tomography (PET). It takes stock of the work of the last six to eight years, reviews achievements and brings together didactic descriptions of the contributions of the various scientific disciplines which participate in making regional measurements of function in vivo in man. To the readers of this journal, suffice it to say that only three of the 11 chapters are not directly related to the study of the brain. The reader is taken through from physiology to consideration of the principles of measurement of such functions using tracer methods. Receptor assays are also excellently covered. The similarity in principle and mutual support of autoradiography and PET are next dealt with in a technical chapter on the principles of single and multiple radionuclide autoradiography. This, like all the technical chapters is written in understandable, conceptual terms which, through maybe less sophisticated to the professional, conveys all the ideas and a not inconsiderable number of the nuances and limitations of the discipline described. This means that a clinician can get a first hand feeling for the principles of the basic science contributions to successful PET, and also appreciate the respective contributions of each component of the multidisciplinary expert necessary to bring tracer methods into clinical measurement in practice. It is in this endeavour that the book is most successful, placing PET in the context of scientific and clinical measurement. The book firmly dispels the misconceptions that PET is an imaging modality comparable to the visualisation of structure by other tomographic methods. The idea that one can “see” dysfunction in a manner analogous to seeing a gloma on a CT scan is naive, and the reasons for that become quite obvious on reading this book.

The authors are mostly from the UCLA school which has pioneered many technical and methodological innovations in PET. This homogeneity of purpose gives the book a feeling of coherence and integrity based on experience, which makes it the more enjoyable to read. The review of clinical applications on the brain is exhaustive though a slightly surprising deficiency is the little text spent on studies of neurotransmitter storage and uptake especially in relation to the dopaminergic system. The chapters are all very up to date, with obvious additions of references and text in proof stage to incorporate recent exciting advances such as the measurement of neuroreceptor numbers and affinities in the basal ganglia using the D2 receptor ligand raclopride by the group from the Karolinska. Referring is generally excellent and illustrations have been drawn from most of the major centres studying cerebral function with PET. Some of the most dramatic illustrations relate to the advances in resolution that have resulted from technical progress in camera design over the last five years.

I would recommend the book to anyone interested in PET and the measurement of cerebral function in man. It is indispensable to anyone contemplating working directly or indirectly with PET techniques, for an appreciation of the great variety of functions which can be studied, as well as an understanding of practical problems and limitations essential to formulating reasonable clinical research questions amenable to study. The authors have succeeded in making available to a general audience the principles and ideas of what might at first glance be considered an esoteric endeavour. It is in reality an exciting and rapidly advancing multidisciplinary field in neuroscience yielding many opportunities for the investigation of the function of the normal and diseased human brain.

RSJ FRACKOWIAK

Book reviews


Most of the 14 chapters cover pharmaco-logical topics in relation to depression; there are also chapters on clinical and endocrine aspects of depression. The chapters are written clearly and as such are accessible to non-specialists. Unfortunately their simplicity is achieved by a selective presentation of evidence in support of the views of several of the authors. There are better books on the subject.

STUART CHECKLEY

Cerebral Blood Flow and Metabolism Measurement. Edited by A Hartmann and S Hoyer. (Pp 640; DM188.00.) Heidelberg: Springer-Verlag, 1985.

This is very much a book for the specialist. Through 600 pages almost 300 contributors with the aid of 320 figures give an exhaustive account of the methodology of measurement of regional cerebral blood flow (rCBF) and metabolism. The book is planned histori-cally, beginning with contributions on the original intra-arterial xenon 133 technique introduced in the 1960s by Lassen and Ingvar. This is succeeded by papers on non-invasive two-dimensional rCBF techniques
followed in turn by three-dimensional methods popularly known as SPECT. Single photon emission, the use of cold xenon and finally positron emission (PET) complete this aspect of the picture. Four contributions on nuclear magnetic resonance and a section on Doppler sonography round off the story.

Inevitably in a production of this kind, which comprises communications to an international symposium held in Heidelberg in 1983, the contributions vary in quality. Nevertheless, the book is a valuable compendium of the methodology of measurement of rCBF and metabolism and as such will be a useful reference source for workers in this field.

J MARSHALL

Recent Advances in Clinical Psychiatry—5.
Edited by Kenneth Granville-Grossman.

This 5th edition is as welcome as its predecessors. The series aims to provide discerning and critical accounts of recent developments in psychiatry, written by acknowledged experts and this volume will be of interest not only to those practising psychiatry but to others in related specialities. The title is perhaps a little misleading in that relatively few chapters reflect actual advances, but the others are valuable distillations of current knowledge in a particular area or “state of the art” descriptions of techniques or investigations. Volumes of this sort manage to combine a close approximation to the immediacy achieved by a “Year Book”, with the much more considered approach possible in a lengthy and detailed review article. As with all reviews readers must remember that it is impossible to be impartial. The exhaustive lists of references are a bonus.

Chapters which could be considered as describing recent advances include those on the new brain imaging techniques and on neuropeptides. The first of these provides a clear review of previous techniques, including CT scans, and the relevant findings, followed by descriptions of the exciting developments which may allow us to study brain function, rather than structure, safely, in vivo. Some of the preliminary results of studies of cerebral blood flow are presented and the possible contribution of positron emission tomography and magnetic resonance imaging to the exploration of the biological basis of psychiatric illness are anticipated. The chapter on neuropeptides emphasises that their discovery means the taking of a very different, and much more complex view of brain function than before. These substances represent a large new generation of brain transmitters whose role in communication extends beyond typical neurotransmission, through neuromodulation to neuroendocrine activity. Much of the information which could be useful to psychiatry is not yet available and the author cautions against the development of a neuropeptide “bandwagon”.

Chapters which could be described as distillations of current knowledge include those on psychosocial aspects of drug abuse, emotional aspects of physical illness, psychiatric aspects of cancer, culture-bound syndromes, benzodiazepines, drug treatments in child psychiatry and the sequelae of head injury. Each is written by one or more enthusiasts and represents a very informative and full account of the present state of knowledge. It is difficult to select particular chapters for comment, and each reader will find some more useful than others. To take just one, the chapter on head injury makes some very interesting comments on the late sequelae of head injury not accompanied by unconsciousness. It appears that evidence now exists to suggest that Miller’s views on compensation have disadvantaged many sufferers.

The subject matter of the third group of chapters, those describing the “state of the art” includes cognitive therapy, family treatment in schizophrenia and biological markers in depression. The styles of these chapters are very different, from a very clear and balanced account of cognitive therapy in its current context, to a very enthusiastic and persuasive account of family therapy in schizophrenia, to a concise description of the place of biological markers in the understanding of depressive illness.

Books which bring such detailed analysis quickly to their readers must be very hard to edit and Dr Granville-Grossman is to be congratulated again for the general standard of “readability” of the contents. If such a volume were to run a second edition, then the chapters on head injury, and particularly on the culture-bound syndrome could be clarified with benefit, and one could wish for authors to be more critical in their use of classifications of depressive illness. There are, however, small criticisms of an otherwise very useful addition to the series.

ISOBEL R CARD


The literature on acute stroke is replete with the proceedings of scientific meetings and it is refreshing to read a book that is not a multi-author monstrosity but a carefully constructed monograph by two authors. Drs Hachinski and Norris worked together for several years at the Acute Stroke Unit in Toronto and the book is based on this experience. It is intended to be a guide for physicians dealing with acute stroke and gives definite guidelines on clinical assessment, investigations, management and treatment. Others who are intimately involved in cerebrovascular research are certain to challenge certain points, but generally the advice given is in keeping with modern thinking. There is an extensive reference list provided, but with books of this nature there is inevitably some delay before publication. Some recent references are omitted including those of the Cerebral Embolism Study Group on the dangers of anticoagulation following emboli of cardiac origin.

There are a few inconsistencies, possibly between the two authors. At one point they state that acute stroke units do not affect the early mortality rate and elsewhere that the reduction in mortality might produce an increased morbidity.

Generally, my quibbles are only minor and I think this book should be very useful as a guide to all physicians, who have to deal with patients who have suffered a recent stroke.

DJ THOMAS


These volumes are the outcome of a conference on Dementia held in London in 1983. The papers collected cover a wide range of research on dementia.

Part I is divided into sections covering aetiological and genetic aspects, immunological factors, advances in histopathology and neurotransmitter metabolism. Unfortunately, the format as well as the quality of the papers varies, and only some attempt an overall synthesis or perspective, while many

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