ders. Each covers the clinical neurology, investigations, pathology, pathogenesis, and (where there is some) the treatment before depicting the imaging characteristics.

The magnetic resonance images and computerised tomography are of exceptional quality but this is more than just a picture book or a manual for radiologists. The illustrations have such impact that the topography and tissue selectivity of all the conditions under discussion are immediately apparent. Many of the disorders described by van der Knaap and Valk are rare; some present in childhood and others typically affect adults. Lack of familiarity is all the more reason for wanting to have this book to hand, used either as a source of information on provisional diagnoses made in the clinic, or to match bizarre imaging appearances to their possible clinical substrates.

The penultimate chapter is structured as a radiology conference of difficult cases. The opening four chapters deal with the biology of glia and myelination and classifications of white matter disease together with a fabulous series of magnetic resonance images depicting normal myelination in development. Since demyelinating disease is common, and the neurological conditions treated here are often rare, it is good to have so much material concisely presented and beautifully illustrated in one text.

ALASTAIR COMPSTON

The Neurological Side of Neuropsychology. By RICHARD E CYTOWIC. (Pp 529; price £46.50.) 1996. Published by The MIT Press, London. ISBN 0-262-03231-7.

Dr Cytowic provides us with a book in three parts. The second part is a pleasing attempt to characterise the nature of clinical assessment and provides the target audience of junior doctors and neurologically inclined psychologists with a useful first reference. Part 3 deals with specific neuropsychological topics and provides a *pot pourri* of signs, symptoms and syndromes which will again, I suspect, appeal to the audience for whom it was written. I found both sections useful, having often craved a basic text that could provide quick reference to areas of neurology that are unfamiliar to me. Some issues are dealt with a little too briefly, dyscalculia for example receives scant attention and is not discussed in terms of those deficits that might lead to calculation difficulties (visuospatial difficulty, aphasia, anarithmetria, etc.). However, comprehensive coverage in a single volume is clearly a tall order and the author gives us clear signposts to more detailed resources. Dr Cytowic's book is clearly not just a text designed to provide these resources, as the inclusion of a first part entitled "Conceptualisation" betrays, a section that covers, often controversially, a number of contemporary issues in neuroscience.

For example, Dr Cytowic is plainly unsympathetic to the notion that brain function is in any sense usefully analogous to computer function. His objections to the computational metaphor are "mechanical and moral". Unfortunately, the book never addresses the issues in sufficient detail for the reader to evaluate these objections. Dr Cytowic clearly enjoys pointing out the Emperor's lack of clothes and asks to be allowed a little hyperbole. Nowhere in the book is this more evident than in his attack

on "the traditional, linear and hierarchical" model of brain function. He is, of course, correct to suppose that current conceptualisations of brain function are likely to prove inadequate and he raises the importance of a number of additional perspectives. Amongst these are considerable food for thought—for example, the primacy of emotions, microgenesis, volume transmission, but what is absent is any discussion of the merits of the contrary view.

Whilst direct, experimental support for notions such as volume transmission is fairly scant, Dr Cytowic does us a service by making a robust case for their importance and uses his book as an opportunity to raise a number of interesting and provocative ideas. This is a book I enjoyed and one that will be of appeal to the audience at whom it is targeted, an audience that should guard against being overly influenced by the authors' views.

JOHN HARRISON

Pharmacological Management of Chronic Psychiatric Disorders. Baillière's Clinical Psychiatry. Edited by R J ANCILL and M H LADER. (Pp 707; price £30.00.) 1995. Published by Baillière Tindall, London. ISBN 0-7020-1984-4.

The idea that the pharmacological treatment of the chronic mental disorders is conceptually separable from that of the acute states is, as this volume shows, interesting and defensible. But it is also ambiguous for the clinician soon realises that "chronicity" may refer both to a feature of the disease ("refractoriness" to treatment) and to long-term maintenance treatment and side effects thereof. Both interpretations are of clinical importance and neurobiologically linked. Contributors to this issue write on the latter.

The results are impressive. Schizophrenia and neuroleptics (old and new) are dealt with in separate papers, followed by mood disorders, chronic anxiety, obsessive compulsive disorder, insomnia, Alzheimer's, and "dysfunctional behaviour" in dementia, epilepsy and mental retardation. There is enough in each chapter from the basic sciences to make the clinical understand why one ought to be careful, and yet adequate guidelines have been included to teach one how to do the job.

According to individual subject and preference, the reader is bound to find gaps. The ones difficult to justify (unless not inclusion is the editors' way of saying that such disorders should not be treated with long term pharmacology) are personality disorders, eating disorders, post-traumatic stress disorder (although a future issue will be dedicated to the last), conditions of chronic comorbidity; the latter amongst which the clinician may want to include the psychiatric complications of a number of neurological diseases (of which the excellent paper on "dysfunctional behaviour" in epilepsy is an example). Other gaps difficult to justify include where, how, and by whom is long-term pharmacology to be delivered and how can this interact with pharmacokinetics and ethical and medico-legal aspects of such treatments.

But such gaps can always be made good in the future, and should not be allowed to overshadow what is already in hand. This volume is informative, practical, and an essential read for all those involved in the care of the long-term mentally ill.

GERMAN BERRIOS

Intraoperative Neuroprotection. By RUSSELL J ANDREWS. (Pp 535; price £120.00.) 1996. Published by Waverly Europe Ltd, London. ISBN 0-683-00228-7.

This book seeks to bring together information on the basic mechanisms involved in neuronal injury, along with a description of techniques that have been used in the operating room to limit such injury in clinical practice. The breadth of information provided is large; 26 chapters by 43 authors are organised into four sections. The first of these addresses the problem of intraoperative nervous system injury, including basic mechanisms of neuronal injury, the second anaesthetic neuroprotection, the third intraoperative monitoring, and the last surgical issues of relevance to the topic.

Several chapters stand out as excellent summaries of the topic they address, but some are marred by an arbitrary choice of topics chosen for discussion and by omissions and factual errors. The chapter on anaesthetic agents for neuroprotection covers volatile agents in some detail, but omits mention of the effects of volatile agents on evoked potential. The chapter on non-anaesthetic neuroprotective agents is useful, but the suggestion that sodium nitroprusside may increase peripheral resistance is clearly misleading. The chapter on hypothermia provides an excellent account of the use of deep and mild hypothermia for neurosurgical procedures at a single centre in the context of the available literature on the subject. It is disappointing however, that the authors devote little or no space to hypothermic cardiopulmonary bypass, which is arguably the most common use of hypothermia for possible neuroprotection. The chapter on positioning addresses the issues of fiberoptic intubation and the sitting position clearly and in some detail, but says little about the bulk of neurosurgical procedures, which involves the anterior cranial fossa, and issues of local anaesthetic toxicity during topical anaesthesia for awake intubation are ignored.

The chapters on intraoperative neuroprotection monitoring are generally useful, and cover general EEG monitoring, with separate sections on electrophysiological monitoring for cranial, spinal, and peripheral nerve surgery. Further chapters on evoked potential monitoring and cortical stimulation mapping complete a comprehensive coverage of electrophysiological monitoring. I thought that the chapter on functional magnetic resonance imaging was a useful introduction to the topic, but was disappointed to find little clinical data, specially in the area of preoperative localisation for epilepsy surgery. These issues were better covered in the chapter on magnetic source localisation. Chapters on transcranial Doppler and microvascular Doppler, intraoperative angiography, intraoperative ultrasound, laser Doppler flowmetry, and thermal diffusion cerebral blood flow measurement were useful starting points for further reading, but the relative naive reader would find it hard to distinguish between established and potential clinical indications for the last two techniques, which are still in an investigational stage. The emerging area of intraoperative image guided operative localisation is covered well in the context of two chapters on spinal and cranial surgery.

Surgical intraoperative neuroprotection is covered in five chapters. The chapter on brain retraction is excellent, and probably

the best in the book. The chapters on technique for exposure in open neurosurgery, neuroendoscopy, and stereotactic neurosurgery provide useful overviews in these areas, but the rapidly evolving field of neuroendoscopy means that it is difficult for such a chapter not to miss important new developments by the time it reaches the bookshops.

The reader who approaches this volume expecting comprehensive and exhaustively referenced coverage of those areas conventionally covered by the title is likely to be disappointed. Many chapters, including the one on mechanisms of CNS injury are under referenced for a book of this type, and would not provide full access to the literature directly. However, the major achievement of this book lies in its diversity and its success in bringing together techniques and approaches that are of importance in neuroprotection but are not conventionally discussed in this context. I would recommend this book as a useful addition to departmental and personal libraries, and as a starting point for further reading.

DAVID MENON

Drug-Induced Neurological Disorders.

By K K JAIN. (Pp 389; price £79.00.) 1996. Published by Hogrefe and Huber. Publishers, Kirkland. ISBN 0-88937-154-7.

So often it is difficult to be sure about whether a drug is really the cause of a neurological disorder. The sole evidence for an adverse reaction frequently consists of a mere handful of reported cases. A disproportionate number of these are derived from the early vigilance occurring during clinical trials and initial introduction of a drug. The putative neurological side effect may not have been evaluated by a specialist neurologist, and so incidental conditions unrelated to the drug may be wrongly classified as adverse reactions. Later on, when reporting of more cases would add weight to the notion of a drug induced adverse reaction, neurologists aware of these cases may be inhibited from further reporting by discovering that this particular side effect no longer provides the novelty value required for publication.

Dr Jain has undertaken the burdensome task of guiding us through this morass. In W G Bradley's forward to the book, we hear of Dr Jain's credentials to undertake such a task: "... a neurosurgeon and neurologist who, for many years, has been a medical advisor to the pharmaceutical industry". The chapters cover neurological syndromes such as seizures, peripheral neuropathy,

aseptic meningitis, and intracranial hypotension. Early in each chapter there is a list of drugs which have been associated with the particular syndrome in question; this makes for easy reference. The evidence incriminating most of these drugs is discussed in the subsequent text with liberal citation. The author's nuance tends to imply how robust he considers the relationship between drug and adverse reaction to be. There is some particularly useful information for everyday clinical practice. For instance which antidepressants are associated with the lowest risk of precipitating seizures? To begin with I was surprised to find a whole chapter devoted to drug induced Guillain-Barré syndrome, since this is an unusual diagnostic consideration in such patients. However, it was illuminating to read Dr Jain's account of how gangliosides, various vaccinations, and the immunomodulatory effects of the chemically related drugs penicillamine and captopril have caused this disease. This is a most useful reference book. We should be grateful to Dr Jain for compiling it and admire his great persistence and industry in assembling such a complete array of factual information.

MICHAEL DONAGHY

Guide to Clinical Neurology. Edited by JAY P MOHR and J C GAUTIER. (Pp 784; price £75.00.) 1995. Published by Churchill Livingstone, Edinburgh. ISBN 0443089272.

This text book sets out to provide a basic introduction to clinical neurology as well as sufficient detail and reference to provide an information source to those more experienced clinicians. It is the lifetime experience of two well versed neurologists whose admiration for the art as well of the science of neurology is well reflected in its pages. It manages to combine the clinical styles from both sides of the Atlantic and has an emphasis on the importance of examination skills and clinical signs. They have conventionally provided well written and to the point contemporary summaries of basic pathophysiology, investigative techniques and neurological diseases which are easily digestible. The section on investigation and differential diagnosis of clinical syndromes provided concise and practical information with a particularly useful chapter on neurological emergencies. One of the most impressive features of this book was the quality of illustrations from the hand drawn pictures by Robert Demarest (some of which are reminiscent of "Aids to Examination of the Peripheral Nervous System") to the

beautiful colour plates of some of the newer types of investigations with anatomical aide memoirs.

When a new comprehensive textbook on clinical neurology emerges in the medical press in the face of stiff competition from old favourites I find myself asking how it compares as a working reference book across the grades in a general neurology ward. There is no doubt that it provided well received information to all who explored its pages over the six month period we used it and I would recommend it to anyone starting out in neurology wishing to acquire a basic textbook. This is also not a book that will age quickly because of its emphasis on the clinical art of neurology and therefore represents one of the better investments for books of its kind.

NEIL ROBERTSON

Management of Neurological Disorders.

Edited by C M WILES. (Pp 341; price £24.95.) 1995. Published by BMJ Publishing Group, London. ISBN 0-7279-0903-7.

It is the editor's intention that the "JNNP should be on the personal bookshelf of every neurologist, neurosurgeon, and psychiatrist". At the cheapest an annual personal subscription is £96 (compared with £68 for *Brain*, published bimonthly, and \$240 for the *Annals of Neurology*). That is expensive, unless, of course, the JNNP becomes an indispensable reference in daily clinical practice. If anything does, the monthly review will make it so. These are commissioned in series, such as the current series on neuroepidemiology. This book, like *Neurological Emergencies* before it, binds such a series together. Here we have reviews from national authorities on the current management of common adult neurological disorders such as epilepsy, headache, multiple sclerosis, motor neuron disease, and Parkinson's disease. Common conditions that are not included are disc disease and peripheral nerve disease. But these omissions are well compensated for by chapters on head injury and meningitis, important problems not always routinely managed by United Kingdom neurologists. There are two especially imaginative inclusions to the collection. The first is a practical survey of the usefulness of molecular genetics in clinical neurology. The second is an analysis of the resources and facilities available in the United Kingdom for the diagnosis and management of neurological diseases. Make space on your bookshelf.

ALASTAIR COLES