The title is honest and true, but will lead you astray. The author; Boris who? maybe you've heard of him. Then the declaration "Translated from the Russian by John K Young" gives you the clue. It is not just a translation of Russian work, but more a synthesis of Russian and western neurophysiology. There are about equal numbers of references to the Russian and to the western literature, the latter quaintly called "English" even though the odd one is in German. The late Professor Kotlyar was at the Department of Physiology of Higher Nervous Activity at Moscow State University and this book, highly acclaimed in Russia was completed in 1986, shortly before his death in 1990.

Most of us in the west are aware that there is a fine tradition of neurophysiological work in Russia and the east but hardly any of us have read any of it in recent years. There are a few Russian journals included in index medicus, but most scientific papers are published in the proceedings of the many regional academies of science within the CIS. There is a Russian abstracting service, The All Union Institute for Scientific Information (INTI) which is probably available in this country through the national lending library, but unless you can read Russian it is not of much help.

It is therefore valuable for us to have a book like this written by an eminent Russian neuro-scientist who has achieved a valuable synthesis of Eastern and Western literature in this book of plasticity. Plasticity is a set of increasingly important processes and phenomena but where do they happen and what makes them happen? Herein lies the value of the book in exploring plasticity from the level of the synapse and sub-synaptic membranes through neurones and reflexes to brains and behaviour. The book does not pretend to be encyclopaedic but each chapter provides a balanced synthesis of Russian and Western work. The influence of I P Pavlov, who died in 1936, is still strong; pavlovian reinforcement, inhibition, association and extinction are still with us but in a modified form more befitting to the age of the micro-electrode. You must remember that Pavlov used a salivary gland for recording nervous activity.

Brain "states" feature prominently. There is no definition of a state but it represents the particular relationship found between sets of neurones from time to time, for instance arousal, attention and drowsiness are all behavioural manifestations of states. States cannot be studied by micro-electrodes. Nevertheless these important concepts are often overlooked in Western neurophysiology. The sections on higher nervous activity bring to mind the works of Edelman and the theory neuronal group selection. One begins to feel that if Edelman knew his Pavlov as well as he knows Darwin then something really exciting might happen. Here perhaps lies a tragedy of the cold war. If Edelman and Kotlyar had been able to engage in a dialogue, a richer synthesis and a deeper understanding of processes might have been forthcoming; but they weren't and it is for future scientists to move along these lines. Kotlyar's thoughtful and scholarly views are nonetheless valuable.

This book draws back the iron curtain for us and allows us to see neuroscience on each side in a new light. The publishers, editors and translators and above all the authors of this and previous volumes are to

be congratulated. It is to be hoped that literature, databases, abstracting and translating services pick up this initiative so that Eastern neuroscience can be assimilated along with that of the west, both sides will be enriched.

EM SEDGWICK

Neurocytopathology. By J M ANDREWS and G B SCHUMANN. 1992. (Pp 325 Illustrated; Price: £96.00). London, Williams & Wilkins Ltd. ISBN 0-683-00227-9.

This is a well thought out, practical and useful book. In a brief introductory chapter, the authors clearly define their aims: to present neurocytopathology in a concise and accessible format to surgical pathologists, cytologists and clinicians, to provide relevant information to enable the practice of the more important techniques and to give further guidance both for the literature and for sources of continuing medical education. The book fulfils these rather ambitious goals remarkably well. One chapter gives a brief overview of the cellular components and histological structures of the nervous system: this hardly amounts to more than a series of short vignettes and is perhaps the weakest part of the book, although it may serve as a guide to the uninitiated. There are no fewer than four chapters dealing with methodology: general aspects of CSF cytopathology, qualitative assessment of and quantitative approach to CSF cytopathology and cytological methods applied to neural tissue biopsies and aspirates. These chapters are full of useful practical information ranging from the actual descriptions of techniques to warning on artefacts.

The backbone of the book is the two chapters which give an account of diseases: one on tumours and related conditions, the other on non-neoplastic disorders. The former covers the more frequent entities and is, by no means, comprehensive. The latter include neurodegenerative, demyelinating, vascular, infectious and inflammatory diseases, leukodystrophies and the non-neoplastic disorders of the eye and orbit. A separate chapter is devoted to pitfalls, medico-legal and diagnostic, listing 10 of the former and 190 of latter. However, the greatest single asset of the book is the collection of more than 200 good quality, colour illustrations. I warmly recommend this book.

PL LANTOS

Pediatric Neuro-oncology /3 New Trends in Clinical Research (Monographs in Clinical Pediatrics Series). Edited by R J PACKER, W A BLEYER and C POCHEDLY. (Pp 320 Illustrated; Price: Not Indicated). 1992. New York, Harwood Academic Publishers. ISBN 3-7186-0524-4.

The purpose of this series is to present in relation to a specific theme—in this case tumours of the CNS in childhood—both authoritative clinical and basic science aspects and to attempt to correlate the two. In this aim the text is successful. The volume is a compilation of some of the topics

covered at the International Symposium on Paediatric Neuro-Oncology held on 3 June 1989 in Seattle.

A strong plea is made in the preface that centralisation of care of children with CNS tumours continues and emphasises that effective management requires contributions from many paediatric sub-specialties including neurosurgery, neurology, oncology, radiotherapy, rehabilitation, psychology, endocrinology and psychiatry. Perhaps added to this list should be educationalists.

The volume covers issues of diagnosis, classification, surgical advances and chemotherapy. Specific clinical problems are discussed. An example would be the treatment of infants with brain tumours where most of what can be stated is particular difficulties rather than reporting advances.

Of particular interest is the discussion and presentation of the pathological data and the manner in which insight into the molecular phenotype of neural cells has improved understanding of the biology of brain tumours and systems of classification. Inadequacies of present systems for tumour classification based on presumed cell of origin and differentiation potential are discussed. There are excellent chapters on the investigation and clinical management of paediatric brain tumours in particular brain stem and spinal cord tumours in childhood and discussion of recent advances in management using hyperfractionated radiotherapy and high dose chemotherapy with autologous bone marrow rescue. For a comprehensive overview of the subject greater emphasis on such important issues as assessing and mitigating adverse effects of treatment would be necessary. Rehabilitation, the functioning of multi-disciplinary management team, family support and audit of an overall service are not covered.

The volume can be recommended for those involved in the day to day management of paediatric brain tumours.

MA CLARKE

Tardive Dyskinesia: A Task Force Report of The American Psychiatric Association. By JOHN KANE (Pp 282; Price: £22.50). 1992. London, The Eurospan Group. ISBN 0-89042-230-3 (H/bk).

Prolonged exposure to neuroleptic drugs causing delayed or tardive dyskinesia has been generally accepted for over 20 years. This was deduced from the observed exacerbation or first appearance of dyskinesia with cessation of treatment, the suppression of dyskinesia with reintroduction of neuroleptic, and the slow improvement in some patients after extended drug withdrawal. However, the culpability of neuroleptics has recently been questioned by growing awareness of involuntary movements indistinguishable from tardive dyskinesia occurring in drug-naïve psychotic patients and the possible involvement of basal ganglia dysfunction in psychosis. The authors of this report on tardive dyskinesia from the American Psychiatric Association state that in their view 'the consensus at the present time is that antipsychotic drugs do play a major role in producing, precipitating, or evoking abnormal involuntary movements'. The evidence is very suggestive but not compelling.