Book reviews


Reviewing a volume of this series recently I remarked that this great work was drawing to a close. The Editorial Secretary wrote in some surprise, pointing out that 36 volumes are currently being prepared and a few further topics are planned. There is certainly no indication of this in the order form with this volume which invites subscriptions to the complete work without hinting that there are more than the 25 listed. The cost is becoming very serious, not only for individual subscribers but also for hospital unit libraries. In these circumstances, is it justifiable to have colour photographs which add nothing except decoration? This volume has many of them. Indeed, no journal would tolerate the excessive number of tables of useless figures. No statistics can be derived from them as the population at risk is unknown and the criteria for publication. The reader cannot make conclusions for his own practice. Certainly this reviewer would not buy almost 200 pages on neurogenic intermittent claudication consisting largely of very personal formulae. The regular subscriber will not wish to miss any volume. It is, therefore, incumbent on the editors to apply the usual critical criteria. Have the instructions to authors been modified since the reviewer's modest contribution to an earlier volume? If not, do the editors seriously consider that the balance of this volume is correct? It has some excellent contributions, not least on disc syndromes which, like stenosis of the vertebral canal, were unexpected in a volume on spinal tumours. As the editors point out in the Foreword, the spinal canal is scarcely a candidate for a protein gamut of functional derangement. But the opportunity for editorial condensation is missed. How frustrating to have such an excellent work on the shelf which I will never have time to read while in active practice. Is that really what we require?

J. A. SIMPSON


To justify the subtitle Comprehensive Management and Research it is essential that Sir Ludwig Guttmann's Spinal Cord Injuries should keep pace with the rapid advances which have followed in the train of the expanding service for spinal cord injuries stimulated by Sir Ludwig himself. The author has, therefore, to a large extent, brought upon himself the formidable task of revision.

The second edition of this book, which was first published in 1973, remains a comprehensive account of every aspect of spinal cord injury, and it is a monument to the achievement and views of Sir Ludwig. The introductory sections which catalogue the centres for spinal injury and their staff have been expanded and indicate not only the services for paraplegia across the world but the part played by Stoke Mandeville in the training of their staff. There is included a note of the tribute to Sir Ludwig himself by the establishment of a clinical department in Heidelberg 'Ludwig Guttmann-Haus'.

Particular attention has been given to the sections concerned with spinal cord ischaemia: the problem of venous thrombosis, pulmonary embolism, its prophylaxis and treatment with anticoagulants, has been reviewed in the light of new knowledge derived from studies in general surgical procedures: soft tissue calcification has been given special attention with reference to modern work upon its prevention but without putting forward any solution to its prevention. In general, the sections on management of spinal cord paralysis and its complications have been expanded.

Some of the opinions expressed by Sir Ludwig may not be accepted universally. He has, for instance, included in chapter six the view that the director of the unit should be 'entitled' to receive a professorship. Lawyers are unlikely to find flattering his interpretation of the problems associated with litigation.

There has been an increase of over 70 in the already large number of references providing a valuable source of information and a basis for further advances in the management of paraplegia by those of an enquiring mind.

J. B. COOK


The volume of writings and the frequency of meetings about special topics are seldom proportional to the social importance or health service burden of their subjects. Indeed these often focus on subjects so obscure or rare that most of those who are sufficiently knowledgeable to be interested have already been involved in their production. Not so with head injuries, which are so common that they are easily regarded as commonplace – yet they pose many complex and poorly understood problems. There is now evidence that government agencies on both sides of the Atlantic are realising the cost of head injuries in the community, and that attention is being focused on them. In the United States a number of head injury centres have been funded by the National Institutes of Health, following the resolution of a head injury conference in Chicago in 1966. The present book documents the progress made by these centres, in the form of reports of ongoing work given at the 2nd Chicago Symposium on Neural Trauma in 1975.

One section dealt with prognosis and includes laboratory data on intracranial pressure, evoked potentials, biochemical values, and various combinations of...
clinical observations. Another concern respiratory physiology but a discussant expressed uncertainty about how valid it is to apply the findings of experimental work in this field to injured man, and also about whether the pulmonary function changes associated with brain damage in man are specific rather than a reflection of a general state of serious illness. Current laboratory work on the blood brain barrier and on the cerebral circulation were interestingly reviewed; the application of these findings to human head trauma was by extrapolation rather than by observation. The concluding section on intracranial pressure/volume relationships reported current animal studies supported by good clinical observations which left no doubt about the relevance of these laboratory findings to injured patients.

This was an interesting conference and the book includes an edited version of the discussion. Its content reflects the bias of American medicine towards laboratory based studies, whether of experimental animals or of patients. European neurosurgeons would have expected some papers about alternative methods of management, perhaps touching also on the logistic problem of how best to deal with the large numbers of mild injuries with which all acute hospitals have to deal. Perhaps these issues are too politically sensitive in a country which is so suspicious of organised medical care – and someone might ask what influence neurosurgeons actually have on the outcome after head injury. The EMI scan has now changed the scene quite radically, because the skills of the angiographer (be he neurosurgeon or radiologist) are no longer needed, and the whole matter of head injury management needs reappraisal. This conference leaves no trace of how American neurosurgeons really thought in strategic terms about these matters in 1975. It would have been interesting to know.

BRYAN JENNITT


The relatively well known transmitter amines occur in the mammalian brain at concentrations of 0.5 μ g/g and upwards. Recent advances in methodology are revealing many other amines at concentrations at least an order of magnitude lower. Interest in these substances focuses on their central activity and on whether they are transmitters. Some may be formed in traces in tracts containing more well-authenticated transmitters because the enzymes synthesising them do not have absolute specificity. Octopamine and tryptamine are made in this way. These substances, though not necessarily important in the normal brain, may well be centrally active in pathological or pharmacological situations. Thus octopamine accumulates in the brain in hepatic coma and may deplete it of catecholamines, while the tryptamine which accumulates when triyophan is given together with a monoamineoxidase inhibitor may have behavioural effects. Adrenaline, on the other hand, though its concentration in the rat brain is much below that of noradrenaline, occurs in specific tracts which contain enzymic machinery specifically able to make it. If, as seems quite likely, it is the third catecholamine transmitter we could be at the start of an era comparable to that which began with the recognition of dopamine as a transmitter. The present book is the first to be published on trace amines in the brain and contains 11 chapters, mostly by pioneers of the field, which make up a useful and authoritative short text on a topic of great interest. It has been produced directly from scripts in various typesfaces submitted by the authors. I thought this was an economical method of book production—apparently it is not.

G. CURZON


This short book reviews the physiological background to muscular exercise and discusses the response to exercise in connection with rehabilitation and the assessment of cardiac function. As such it is very much to be welcomed since there are few satisfactory sources of information in this important field. The six chapters are each contributed by a separate author, the earlier sections dealing with the physiology and biochemistry of muscle contraction, the later chapters with the physiological response to exercise and its applications.

The authors, particularly in the earlier sections, assume a considerable background knowledge of anatomy and physiology on behalf of the reader. This must limit its value to readers other than advanced students and research workers, and it is to be hoped that in future editions the physiology of muscular contraction and its control might receive fuller treatment. In the later sections more might be said regarding the place of exercise therapy in the rehabilitation of patients with neuromuscular disease. Nevertheless, the book contains a substantial amount of information providing both a comprehensive yet concise review of the subject and a useful source of references.

J. A. R. LENMAN


This small monograph is a useful contribution to the literature on cerebral venous anatomy. Its merits are that the authors have clinical interests, write from personal experience of some 950 specimens processed by modern techniques, and are always concerned to give an objective account of their own observations rather than refute those of their predecessors. Throughout there is a marked and useful emphasis on embryology.

Particularly good are the chapters on the superior sagittal sinus since they include their own observations on the segments of a vascular mesh in the mid-dorsal dura mater relating to this and other major sinuses. They also present original observations on a hyperplasia of the Pacchionian granules which are smooth pearly grey structures present in 68 of their specimens. Both observations are intriguing to those who interest themselves in resorption of the cerebrospinal fluid.

The quality of the black and white photography is high and the Vinylite casts show up clearly in the illustrations.

E. C. HUTCHINSON
Head Injuries

Bryan Jennett

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