the others, was normal percentages of type I fibres, rating very high levels (90% or more seen in the other families).

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5 Larach MG. Should we use muscle biopsy to diagnose malignant hyperthermia susceptibility? Anesthesiology 1993;79:1-4.

MATTERS ARISING

Multiple sclerosis in the north Cambridgeshire districts of East Anglia

The north Cambridge survey is a welcome addition to the United Kingdom series of prevalence studies.1 We agree that a multi-centre prevalence study would add to the epidemiological knowledge of multiple sclerosis. However, we cannot agree that the inclusion of “suspect cases” in their prevalence figures. As we have pointed out in a previous paper, the measurement of multiple sclerosis can be distorted by using ill defined criteria for measuring the disease.2 We contend that the Poser criteria alone (which do not contain a suspect category) should be used in measuring the prevalence of multiple sclerosis. For this reason, we used only the Poser criteria in our survey of west Sussex, and deliberately did not include a suspect category.3 As Poser himself says, “for the purposes of prevalence studies only the categories of clinically definite and clinically probable should be used; possible multiple sclerosis should never be included.”

Our concern is that a “suspect” category, which seemed to have been defined differently in the south west of England,2 Cambridge, and Southhampton surveys,4 can lead to confusion in interpreting and comparing prevalence figures. This is because there are no clear criteria of what constitutes so called “suspect” cases, and workers are free to use their own criteria. As Robertson says, the inclusion of a suspect category “introduces noise, and generally obscures the overall picture.”5 We agree with this, and argue that any cases that do not fall into the Poser criteria should be included in the prevalence figures. To do so would introduce some clarity into what we are striving to measure. In our view, future prevalence surveys should use the Poser criteria and not include “suspect” cases.

The Cambridge team suggest that the very presence of a latitudinal gradient within the United Kingdom has only recently been questioned.6 It is, in fact, a decade ago that Williams and McKeran revisited the concept “we find no convincing evidence of a latitudinal effect in the United Kingdom.”7 A mortality study of multiple sclerosis in the United Kingdom found no gradient south of the English border and discussed the possibility that the high, but diminishing, Scottish rates were artefactual.8 The most serious challenge to the latitudinal hypothesis appears to be a letter in the BMJ9 which argues that the hypothesis is consistent with United Kingdom data.

So the challenge to Limburg’s hypothesis is not recent.10 What is recent is that many researchers in the field are at last coming to realise the weakness of the data on which the hypothesis was based.

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CORRECTION


In the table, p223, CT localisation of patient B is Left Frontal.

[Correction notice added on 7 July 1996: No [no apologies]

The first sentence, left hand column p223, should read—Both CT and EE showed abnormalities that were not in accordance with EEG findings.

BOOK REVIEWS

All titles reviewed here are available from the BMJ Bookshop, PO Box 295, London WC1H 9TE. Prices include postage in the United Kingdom and for members of the British Forces Overseas, but overseas customers should add £2 per item for postage and packing. Payment can be made by cheque in sterling drawn on a United Kingdom bank, or by credit card (Mastercard, Visa or American Express) stating card number, expiry date, and your full name.


The third edition of Sophie Levitt’s excellent book will be of interest and indeed is essential reading for anyone involved in the management of the cerebral palsies, including parents. A major theme throughout the book is the importance of collaboration with parents and the detailed section on practical procedures is written with parents as well as therapists in mind. Forwards to the second
and third editions by Mary Sheridan and Brian Neville make clear the prominence that this text should have for all developmental therapists.

In the initial chapters the complex problem of the various motor disorders described, which as cerebral palsy are defined and the variety of treatment approaches that currently exist are reviewed. Research evidence, the limited theoretical grounds for the different approaches and the author's wide clinical experience lead to the development of an eclectic model which is the basis of Sophie Levitt's approach.

Since the first two editions of this book which have been an increase in the eclectic viewpoint in the treatment of children with motor delay and cerebral palsy. The third edition is updated and revised taking into account recent research and experience with this approach. There are also two new chapters which develop the learning principles involved in developing motor function considering how to integrate theoretical and practical knowledge, the intelligence and personality. It is made clear that this assessment should grow out of a collaboration with the child and his parents.

This book is not only immensely readable; it provides a sound knowledge base for anyone working with children with cerebral palsy.

ALISON SALT


John Menkes described kinky hair syndrome and maple syrup urine disease, entities which are memorable enough to make him famous. This book is a tour de force written largely by the man himself and succinctly covering the whole of neurology with a poignant amount of reminisce. Menkes is an experienced and thoughtful physician who brings wisdom and historical perspective to his writing. Like Raymond Adams or Jean Acardi, there is obviously nothing he has not seen.

Menkes' father practiced medicine in the foothills of the Austrian Alps at the turn of the century. He had studied with the pathologist who necropayed Ludwig van Beethoven and he remained ever sceptical that bacteria could cause disease. Perhaps it is John Menkes' intimate appreciation of how fast things have moved, coupled with his respect for his received wisdoms that bring such depth and range to this book.

He does not restrict himself to the modern American literature, but quotes widely in geographical and historical terms. In comparing epileptic and non-epileptic convulsions Menkes turns to Gowers for an account. Similarly Menkes' choice is defined in full by its original author with a fascinating recommendation for treatment: "Take of Black-cherry-water one Ounce, of Langius's Epilipick-water three Drachms, of old Venice-Treacle one Scraping. Liquid Laudanum eight Drops; make a draught" Menkes is erudite, interesting and up to date. He gives good sensible clinical advice and avoids the difficulties of technology and tests. He writes well and although he makes extensive use of the literature, he cuts through the detail, and provides us with clear conclusions. A comprehensive bibliog-raphy is available at the end of each chapter. The book is in one volume, but everything is there that any normal neurologist is likely to need, and it is well organised, extensively cross-referenced, and helpfully indexed. It might have benefited from conversion tables so that Europeans could more easily interpret the American units, and in places a more symptom-based approach might have made its way through. However, what we are seeking is a diagnosis. But these are minor criticisms. REBECCA AYLWARD

**Motor Activity and Movement Disorders.** Edited by PAUL R SANBERG, KLAUS-PETER OSENNKOPF and MARTIN KAVA-


This book sets out to review the experimental approaches to the assessment of motor activities primarily in rats and how this has been applied to certain neuropsychiatric conditions such as Tourette's syndrome and schizophrenia. It is therefore a book that will be of interest to both experimental neurologists rather than neurologists or psychiatrists as only the last two chapters are concerned with human studies.

Each chapter sets out to combine theory with practical details and goes on to discuss some relevant experimental studies. This is an admirable approach and indeed succeeds in some places—for example, the chapter by Schwarting et al on automated video-image analysis of behavioural asymmetries. However, despite the attractive format, the chapters in practice often fail to achieve the right balance for a number of reasons. In the first instance the chapter topics are too spe-
cialist, for example chapter 1 is entitled "Long-term habitation of theta-related activity components of albino rats in the Lat maze". Furthermore in this chapter there are difficul-
ties with the presentation of experimental data, in that the graphs are poorly labelled in contrast to chapter 3 where the text and graphs are too widely separated to be complementariness.

Apart from the chapter topics being too specialised, the discussion in each chapter is limited and relies too much on the authors' own work, presumably as a result of the spe-
cialist chapter topics. Whilst this can be use-
ful, especially from a practical point of view, it leads inevitably to unbalanced accounts with reference often to unpublished work. For example, in the chapter by Bracha and Gilger on measuring spontaneous turning behaviours in children and adults, there are at least 10 references to the authors' own work of which three are unpublished. This is frustrating as a critical evaluation of the data is difficult when conclusions based on unpublished work are made. Furthermore, not only is this an eclectic use of some studies but there is a further complication by the extrapolations that have been put upon these studies—for example, Gallup and Rager discuss the relev-
ance of experimentation with non-human primates to the clinical situation. It is a difficult task to present a chapter on circling behaviour of rats there is little discussion on the mechanisms underly-
ing this behavioural effect. In particular there is no consideration given to the impor-
tance of striatal integrity and cortical affer-
ent inputs in the mediation of spontaneous and drug induced rotation. Indeed this lack of discussion on mechanism of effect is in each chapter greatly limits its appeal. It is therefore a book that is hard to recommend to anyone other than the dedicated student of experimental psychology.

ROGER BARKER


This is the third edition of a popular and useful book. It is emphatically not a text-
book on epilepsy, but a collection of 100 guiding principles—almost aphorisms—which lie at the heart of the successful clinical management of epilepsy, which account for the generally concise and appre-
site. The 100 principles are divided into 18 sections, starting with "Approach to the patient"—the first aphorism being "The brain is just another organ" (X. P. Allen please note) and the second "Assume that every patient with epilepsy wants to get well" (Dostoevski please note). The next sections are perhaps more conventionally written on a variety of subjects including etiology, prevention, diagnosis, polyphar-
sis and therapy, the last few concerned with