Brain CT of case 1 shows dense symmetric calcifications in the dentate nuclei (1A) and basal ganglia (1B).

were noted. Telangiectasias were present on the face, hands, and palate. The patient complained of pyrosis. Oesophageal manometry showed abnormalities of oesophageal motility. Hand radiography disclosed soft tissue calcifications. Anticentromere antibodies were positive at a 1/1000 dilution. A CREST syndrome was diagnosed and the patient was given buflomedil (600 mg/day) and prednisone (25 mg/day).

One year later she was admitted for the evaluation of recent transient ischaemic attacks (TIAs). During the previous week she had experienced three bouts of expressive aphasia and right hemiplegia, each lasting about 10 minutes. She never smoked and did not have diabetes, hypertension, or dyslipidaemia. The neurological examination was normal. Routine blood chemical tests were normal (serum electrolytes, urea, creatinine) including phosphorus and calcium metabolism (serum parathyroid hormone concentration, blood calcium and phosphorus, 25-hydroxyvitamin D, 1,25-dihydroxyvitamin D, calciuria, and phosphaturia). Cranial CT showed bilateral calcifications of the basal ganglia, and faint calcifications of the dentate nuclei and rubrum nucleus. Moderate cerebral and cerebellar atrophy was noted. Duplex carotid ultrasound and 24 hour ECG recording were normal. Echocardiography showed a normal left ventricle with an ejection fraction of 60%. There was mild calcification and a thickening of the mitral valve leaflets. Aspirin (250 mg daily) was given at hospital discharge. No further TIA occurred during a 5 year follow up and the patient's clinical status has remained unchanged.

Systemic sclerosis is a multisystem disease predominantly affecting the skin, lungs, vascular system, and gastrointestinal tract.¹ Neurological involvement occurs in a few patients (ranging from 0.8 to 18.5%) including cranial nerve abnormalities, peripheral neuropathy, CNS vasculitis, and autonomic peripheral neuropathy. To our knowledge, extensive cerebral calcifications have not yet been reported.

Calcification of the brain is discovered in 0.8 to 1.2% of subjects undergoing routine CT examination, mainly in the globus pallidus. In most cases the deposits are small and involve older patients who remain asymptomatic, leading to the concept of "physiological" senescent basal ganglia calcifications.⁴ On the other hand, basal ganglia calcifications, often associated with dentate nuclei calcifications, have been reported

in more than 30 conditions, including abnormalities of calcium phosphorus metabolism such as pseudohypoparathyroidism.⁵

Systemic sclerosis leads to the formation of calcium deposits in the subcutaneous tissue. Rarely, the calcific process has been shown to involve the spine or pericardium.^{2,3} Recently, Heron *et al* described two cases of cerebral involvement in systemic sclerosis.⁶ In both cases necropsy showed extensive wall calcification of the small arteries and arterioles of the brain. Our two patients have scleroderma and extensive striopallidodentate calcifications and metabolic investigations failed to disclose any specific aetiology in either case. We think that scleroderma should be added to the list of conditions described as occurring with basal ganglia calcification.

The pathogenesis of the formation of calcium deposits in systemic diseases remains poorly understood. However, pathological calcification can be subdivided into metastatic (occurring in undamaged tissues when extracellular calcium and phosphate concentrations are increased) and dystrophic (occurring in injured tissue when extracellular calcium and phosphate concentrations are normal) calcification.⁷ In our patients, as in the patients of Heron *et al*, the brain calcifying process may be related to primary cerebrovascular changes induced by systemic sclerosis.

Routine brain CT examination in systemic sclerosis could help to determine the true incidence of basal ganglia calcifications and their clinical relevance.

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CORRESPONDENCE

All tibial foot: an electrophysiological artifact

Yamashita *et al*¹ claim they have proved an "all tibial foot" for the motor innervation, an anomalous dual innervation of the tibialis anterior muscle by the deep peroneal and posterior tibial nerve, and a sensory coinnervation of the skin between the first and second toes by the tibial and deep peroneal nerve in a patient. To support their view they quote the letters of Linden and Berlit² and of Glocker *et al*,³ ignoring our letter⁴ and that of Magistris and Truffert⁵, both considering the conclusions of Linden and Berlit and Glocker *et al* to be wrong. I point out that the mentioned letter of Linden and Berlit² and our response to it were published in the same issue.

We have recorded a compound muscle action potential (CMAP) with a negative initial deflection on tibial nerve stimulation in 83% of 50 subjects, using a surface electrode over the extensor digitorum brevis.⁴ In the same subjects no potential was recorded by means of a concentric needle electrode inserted in the extensor digitorum brevis.¹ In our view, this proves that the CMAP recorded by surface electrode over the extensor digitorum brevis on tibial nerve stimulation is a remote potential originated in the plantar muscles (volume conducted potential). Furthermore, we consider that the CMAP recorded over the tibialis anterior muscle by surface electrode on tibial nerve stimulation in the popliteal fossa, as reported by Yamashita *et al*,¹ represents a volume conduction potential originating in the foot and toe flexors. The sensory nerve action potential recorded dorsally in the space between the first and the second toes on tibial nerve stimulation could also be a volume conducted potential originating in the first common plantar digital nerve, as the distance between this nerve and the recording electrode is short. Such volume conduction phenomena are known to occur on surface recordings from the median nerve at the wrist in severe carpal tunnel syndrome, when the forth finger is stimulated. It is unclear why Yamashita *et al* could not record a CMAP over the extensor digitorum brevis bilaterally on deep peroneal nerve stimulation in their young patient who did not have neuropathy. A probable explanation is a bilateral aplasia of the extensor digitorum brevis, comparable with the known aplasia of the thenar.⁶ The

appropriate examination would have been a needle EMG of the extensor digitorum brevis.

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BOOK REVIEWS

Assessment Scales in Old Age Psychiatry. by ALISTAIR BURNS, BRIAN LAWLOR, and SARAH CRAIG. (Pp 302, £29.95). Published by Martin Dunitz, London, 1999. ISBN 1-85317-562-5.

If it moves - measure it. Such is the trend in psychiatry and this has led to a proliferation of assessment scales of variable utility; from the esoteric to the ubiquitous. This book has them all and is, quite genuinely, one of the most useful volumes I have seen for a very long time. It covers everything from the AMTS through the MMSE to the KEW cognitive test. Each scale is presented in full together with a short commentary, critical references and, usefully, an estimated time taken to perform the test together with an address to contact the original author.

The scales presented are divided into those covering depression, neuropsychiatric assessments, activities of daily living, global assessments, visible assessments, delirium, caregiver assessments and scales for memory function. This organisation, together with a useful and functional index, will make the task of selecting an appropriate scale much easier in the future. Some of these scales are covered by patent law and my only quibble is that it would have been useful to know which instruments can be reproduced and for what purpose without fear of being billed for the privilege. Maybe highlighting such information would give unpatented authors a stimulus to visit their lawyer and therefore increase this deplorable practice.

This aside, I cannot recommend this book highly enough. By contrast with books that come highly recommended in diverse reviews but remain pristine on your library shelf, if you are ever fortunate enough to get hold of this volume from your institution library then you will, I guarantee, find it well thumbed. For academics, the book is a prayer answered and will become an essential resource in the

planning and execution of any clinical research. For clinicians, psychologists, occupational therapists, and other members of the multidisciplinary old age psychiatry team, the collection of so many scales covering all aspects of mental health of elderly people should encourage the use of valid and reliable assessment procedures that enhance rather than detract from good clinical practice. My only question is "Why didn't somebody do this before".

SIMON LOVESTONE

Lumbar Disc Herniation. By FRANCO POSTACCHINI. (Pp 623, US\$299.00). Published by Springer-Verlag, Wien, 1999. ISBN 3-211-83118-5.

Professor Franco Postacchini is an orthopaedic surgeon at the University "La Sapienza" in Rome and is a well known widely respected spinal surgeon. He is to be congratulated on the production of this book which is wide ranging, comprehensive, and beautifully illustrated. The management of lumbar disc disease is fraught with uncertainty and there are many diagnostic and therapeutic pitfalls. The author has succeeded in addressing most of these controversies in a clear and logical fashion. He occasionally blurs the distinction between theories and established scientific fact forgetting that the practice of medicine and in particular the management of spinal disorders is full of paradoxes. For example, he states that large extruded disc fragments are unlikely to resolve spontaneously and will usually require surgical treatment. This seems a logical proposition but my experience is that many of these large extrusions undergo complete clinical and radiological resolution within 2 or 3 months. Paradoxically, it is often the smaller contained disc prolapses which fail to improve with conservative measures. Like many orthopaedic surgeons he is persuaded by the alluring theories of discogenic low back pain and worships at the altar of segmental microinstability. However, I agree with much that he has written and differences of emphasis are inevitable in a field that is strong on dogma and short of established truths.

I would have no hesitation in recommending the text to trainees as the book is very readable and makes a good introduction to the management of lumbar disc disease. Nearly all aspects of diagnosis and treatment are covered but I was disappointed with the chapter discussing results of surgery. There is no mention of the use of objective validated disability and quality of life instruments in the assessment of outcome. For a text that aims to be comprehensive this constitutes a serious omission. It is because practitioners have failed to use objective outcome measures to establish the natural history of lumbar disc disease and the effects of therapeutic interventions that there remains so much uncertainty about management. These uncertainties cover (among others) physiotherapy, manipulation, timing of radiology, timing of surgery, whether spinal fusion is ever indicated, and what treatments are clinically and cost effective. Despite these drawbacks, surgeons who manage lumbar disc disorders will want to have a copy of this book, either on their own or their departmental library's shelf.

RODNEY LAING

Chronic Fatigue and its Syndromes. By SIMON WESSELY, MATTHEW HOTOPF, and MICHAEL SHARPE. (Pp 428, £29.50). Published by Oxford University Press, Oxford, 1998. ISBN 0-19-263046-6.

My first sensation is that such a book is long overdue. There is a paucity of books written by clinicians on this subject compared with the many gloom and doom tracts written by sufferers who have apparently been ill with CFS/PVS/ME for 20 years and which depress the hell out of the patients that I see. Why this lack? Undoubtedly because relatively few doctors want to put their heads above the parapet and profess to a great expertise or desire to see patients with it. It is a condition for which there is no objective test, no objective monitoring of progress, whose symptoms are so vague that they repeatedly defy classification and can only be catalogued. Among those patients with a genuine postinfectious fatigue (who mainly get better relatively quickly) there is a large body of those with hospital records measured by the kilogram who arrive with sheaves of self compiled additional notes and occupy huge periods in the clinic to little effect other than frustration for both doctor and patient. Why they do this is a different story.

So what about the book? Firstly I must say it comes armoured against criticism with a pack of glowing references from ennobled and famous physicians on the back. Presumably the authors chose these referees whose major feature in common is distinction in fields other than chronic fatigue syndrome. So, for whatever reason they were chosen the result is also to make this a poisoned chalice to review if one has the temerity to disagree with such a company.

Chronic fatigue and its Syndromes is written by three psychiatrists. That in itself is a little odd as although psychiatric illness is quite common in the chronic fatigue syndrome group, most patients with chronic fatigue syndrome are very reluctant to be seen on first presentation by psychiatrists. One usually has to reassure them that one is not dismissing their symptoms as psychiatric if one does suggest such a referral. What proportion of patients I wonder go to psychiatrists as their first hospital referral? I would guess very few.

The book is very comprehensive. As a source of references on the subject of fatigue it is encyclopaedic. It begins with a nice history of the syndrome. Of a 428 page book only 44 pages cover assessment of the patient and a very telling paltry 14 are devoted to treatment. What is all the rest? The answer is that the authors have attempted to deal with every fatigue associated subject including: aetiology of chronic fatigue syndrome (summary - not known) and in a move which Sir Humphrey Appleby might have described as "courageous" they have ventured way outside their own areas of expertise into subjects such as viruses and immunity. The result is a collection of comprehensively referenced and uncritically selected facts from the literature, many of which are very useful, such as the collected data on enteroviruses and chronic fatigue syndrome but much of which is of uncertain value—for example, "divorced and separated women have higher titres of EBV-VCA antibodies" quoted out of context but not unrepresentatively. To glean interesting and important information from this book requires a fair degree of skill in distinguishing timber from forest.

When in their own field of psychiatry there is, unsurprisingly, a much more confident and informative air to the book. It is