

Matters arising

typically secondary to emotional disorders, and not physicians who treat dyspnoea. Nevertheless, a careful review of the physical conditions that accompany hyperventilation, and conditions that have been shown to be causally related to it are likewise detailed. And, the extensive research and clinical sources cited are overwhelmingly drawn from medical sources.

The statement that "hyperventilation can be diagnosed on the basis of symptoms alone" is, I regret to say, taken out of context. What I said is that hyperventilation can be determined only by examining alveolar PCO₂, but that since this procedure is not available to most practitioners, symptoms will have to suffice. And, I then listed the symptoms commonly acknowledged by, among others, the "Dutch" group.

My "aversion" to the use of the hyperventilation challenge arose from my discovery in the *medical* literature of warnings that it is a hazardous procedure. The sources of these warnings are, of course, cited in the book. Quite correctly, Dr Bass includes coronary heart disease and epilepsy as the two reasons for avoiding it. Stroke has also been

documented. This should give the reader a clue: serious acid-base shifts, blood pressure changes, and both cerebral and peripheral vasospasm have been frequently observed. Since many patients with hyperventilation report chest symptoms, it seems to me imprudent for anyone to employ this technique.

I did not propose the hyperventilation/hypoxia theory of anxiety and panic disorder. I merely cited it and I endorse it.

As for the failure to cite recent work, I would like to point out that the book was issued in January 1987. The reader may note that there are 1986 references in it. The work to which Dr Bass refers, if memory serves me, was not available at that time. It is now, and a revised edition, updating references, is in the works.

The work on PCO₂ biofeedback was aimed at training patients with idiopathic seizures to produce normocapnia, and not to engender a meditative state, contrary to Dr Bass's contention—although in some instances, such a state was indeed reported by them. And, contrary to his statement, at least four publications reporting controlled studies of

the method are cited.

Finally, on a different note, it should be stated in all fairness, that the claim in the foreword, that my book will become a "medical classic," was made by a prominent *physician*, partly based on the thoroughness of my citations of medical physiology. And I hope that Dr Bass did not mean to imply that a psychologist cannot ipso facto contribute to medicine, which is, after all the science and art of healing. Conversely, numerous psychiatrists have contributed to psychology—behavioural medicine is much in favor of this hybrid.

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Book reviews

Application of Lasers in Neurosurgery. By Leonard J Cerullo. (Pp 169; £38.50.) Chicago: Year Book Medical Publishers. UK Distrib: Wolfe Medical, 1988.

The established position of Cerullo in the use of the laser in neurosurgery and the development of Chicago as a training centre has enabled him to bring together adequate contributions on most aspects of lasers in neurosurgery. Physicists contribute the prologue, which is an interesting account of the hesitant beginnings of laser applications in medicine, and also the clear chapter on the delivery of laser power from instrument to tissue. The customary account of laser safety in the context of American regulations is followed by the important consideration of anaesthesia for laser surgery and then comes Cerullo's own chapter on extra-axial tumour removal. This is a fine account of making the entry into the tumour capsule at a point free of other structures (one might add that this can be nicely done with the CO₂ laser sharply focused at 5 watts, and should immediately be followed by tumour biopsy) followed by removal of the contents using initially part-defocused low power laser and suction, and then with increased power density. A sharp focused high power density enables tumour

removal by morcellation, which is a slow but less haemorrhagic alternative to ultrasound aspiration. The tumour capsule is then contracted with the defocused laser to achieve dissection from surrounding structures. Variations of this technique for different tumours is described including the laser dissection of the acoustic neurilemmoma from the facial nerve and internal auditory meatus. It would have been informative if this chapter had included some numerical assessment of results of the neurosurgical laser technique.

The paediatric chapter includes McLone's detailed account of laser excision of spinal cord lipomyelomeningoceles, and is less detailed on the removal of intra-cerebral and intra-spinal tumours.

Kelly's chapter on glial neoplasms begins with an appreciation of the relationship between histology and CT and MRI imaging, based upon 600 stereotactic biopsies; peripheral low density on CT scans, and T2 prolongation on MRI represent brain parenchyma infiltrated by tumour cells, all beyond reasonable tumour excision, whereas CT enhancement represents solid tumour, amenable to resection by laser lobectomy or stereotactic laser excision if deeply placed, the resultant decompression and reduction of tumour burden giving extended survival times to those patients with low-grade gliomas, but making no significant difference

to the length of survival in patients with high grade gliomas. The section by Robertson and Clark on intraspinal tumours gives appropriate detail of the technique of laser microsurgical excision of intramedullary gliomas which is one of the most significant contributions of laser to neurosurgery, but here again analysis of patients treated and follow-up results would have been welcome.

There is a chapter on photochemotherapy followed by one on photoradiation of malignant brain tumours which together present the principles, technique, and initial results of what is more generally known as photodynamic therapy, the future of which rests with the development of more specific glioma sensitisation, the photoactivation being relatively easily achieved.

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Biological Psychiatry. By Michael R Trimble. (Pp 494; £42.50.) Chichester: John Wiley & Sons, 1988.

This is an extremely well made, easily managed, book which deserves to be bought and read by postgraduate students preparing for examinations in psychiatry. It covers an important segment of that subject, in par-