

2. JONES, R. F., BURKE, D., MAROSSZEKY, J. E. and GILLIES, J. D.: A New Agent for the Control of Spasticity.

Authors' summary: In a preliminary controlled trial, CIBA 34, 647-Ba, a gamma aminobutyric acid derivative, was found to be more effective than placebo in reducing spasticity due to spinal injuries. In an uncontrolled trial, it also appeared more effective than diazepam. The intensity of spasticity was measured electromyographically by the amplitude of the stretch reflex at various velocities, and the results were correlated with those obtained by clinical assessment. 34, 647-Ba was effective in both complete and incomplete spinal cord lesions and it is suggested that it has an action at the spinal level. No significant side-effects were encountered.

3. LÄTTINEN, L. V. Neurosurgery in Cerebral Palsy.

Summary: This paper summarizes the results of neurosurgery in 58 selected patients with cerebral palsy. Stereotaxic subthalamotomy was performed on 55 patients and gave good results in 65 per cent of the cases. The best results were obtained in the case of rapid involuntary movements or intention tremor, whilst rigidity and spasticity were little affected. Three patients underwent a longitudinal spinal myelotomy, which was effective in relieving spasticity and thus assisting further rehabilitation, although temporary incontinence was observed in two patients and a probable sensory deficit in the third.

It was stressed that reasonable intelligence was an essential prerequisite for neurosurgery. No patients of low intelligence benefitted from the stereotaxic surgery, probably because of their inability to co-operate in post-operative rehabilitation.

- J. Neurosurg.*, 33, 1, July, 1970:

LOESER, J. D.: History of Skeletal Traction in the Treatment of Cervical Spine Injuries.

Summary: An interesting historical survey of various methods of dealing with cervical fractures and fracture-dislocations from 4000 B.C. to the present day.

- J. Physiol.*, 209, 3, Aug. (2) 1970:

NEWSOM DAVIS, J. and SEARS, T. A.: The Proprioceptive Reflex Control of the Intercostal Muscles During their Voluntary Activation.

Summary: The mechanical load on the intercostal muscles was increased or decreased by applying a pressure source to the airway so that respiratory movement could be resisted or assisted.

A "silent period" was observed on sudden unloading, which was thought due to withdrawal of monosynaptic excitation from the muscle spindle.

On loading, it was found that a short inhibitory response was followed by an excitatory response. It is postulated that the inhibitory response is due to autogenic inhibition arising from tendon organs, whilst the excitatory response arises from muscle spindle stimulation. The initial inhibitory response was unexpected, since a servomechanism has been assumed to exist, and the authors propose that it is a result of conditioning in relation to previous experience.

The authors talk of "inspiratory" and "expiratory" intercostal muscles, but add no explanation of these terms.

- J. Physiol.*, 210, 1, Sept., 1970:

REIS, D. J. and WOOTEN, G. F.: The Relationship of Blood Flow to Myoglobin, Capillary Density and Twitch Characteristics in Red and White Skeletal Muscle in a Cat.

Summary: Both blood flow and myoglobin concentration were found to be higher in red muscles than in white, varying directly with each other. Blood flow was, in fact, three times greater in red than in white limb muscles. Contraction time was 2-3 times longer in red than in white muscles, again varying directly with the fractional blood flow. However, the direct linear relationship was lost during sleep or excitement, suggesting that skeletal muscle metabolism is adapted for its activity during quiet alert behaviour.

- Neurol.*, 20, 7, July, 1970:

SCOTT, R. M., BRODY, J. A., SCHWAB, R. S. and COOPER, I. S.: Progression of unilateral tremor and rigidity in Parkinson's disease.

Summary: This survey of a large number of cases which originally presented with unilateral symptoms showed that the majority eventually had bilateral involvement. This was so whether the patients had been treated medically or surgically. Those which remained unilateral tended to have a history of a definite illness or accident preceding the onset of symptoms.

- Physiol. Reviews*, 50, 3, July, 1970:

CATTON, W. T.: Mechanoreceptor Function.

Summary: A very well-documented monograph summarizing types of mechanoreceptors — both cutaneous and proprioceptive — and characteristics of mechanoreceptor function. This monograph is well worth reading by physiotherapists interested in neurophysiology and, more specifically, in techniques based on activation or deactivation of receptors.

OTHER ARTICLES OF INTEREST

- Amer. J. Occup. Ther.* 24, 5, July-Aug. 1970:

DEVORE, G. and SMITH, H.: A New Method for Measuring Motion of Flexor Tendon Grafts.

WERNER, J. L. and OMER, G. E.: Evaluating Cutaneous Pressure Sensation of the Hand.

- Scientific American*, July, 1970:

DEAN, G.: The multiple Sclerosis Problem.

- S.A. Med. J.* 44, p.1011, 1970:

KAPLAN, I.: The Management of Hand Injuries.

- S.A. Med. J.* 44, p.1028, 1970:

LIPMAN, L.: Management of the Autistic Child.

- S.A. Med. J.* 44, p.1054, 1970:

VAN DER MERWE, G. W. and VAN ROOYEN, R. J.: Anatomiese en Fisiologiese Eienskappe van die Vrou van Belang by Sport.

- J. Neurophysiol.*, 33, 4, July, 1970:

THATCH, W. T.: Discharge of Cerebellar neurons related to two maintained postures and two prompt movements, I Nuclear cell output.

Discharge of cerebellar neurons related to two maintained postures and two prompt movements II Purkinje cell output and input.

- Ned. Tijdschrift voor Fysiotherapie*, 587-591, 1970:

MOL, W.: Het meten van de spierkracht.

- Ibid.*, 592-594, 1970:

VAN DER REE, M.: Fysiotherapie bij patiënten met reumatoïds artritis.

- Ibid.*, 599-603:

VIS, A. J. J.: Ortopedisch zwemmen.

BOOK REVIEW

PERIPHERAL MANIPULATION by G. D. Maitland, A.U.A., Associate of the University of Adelaide; Member of the Chartered Society of Physiotherapy and the Australian Physiotherapy Association; Part-time tutor in Physiotherapy, University of Adelaide. Obtainable from Butterworth & Co. (S.A.) (Pty.) Ltd., P.O. Box 792, Durban. Price R6.00.

This book is of very great value as a complement to his book *Vertebral Manipulation*, and also as there is the present interest in mobilisation and manipulation. The procedures of passive movements in the past did not respect pain sufficiently, and combined often with poorly performed techniques, they fell into disuse. Now Mr. Maitland uses very carefully graded oscillatory movements frequently in the painless part of the range. His approach is so much more scientific and his careful examination of the joints, whether spinal or peripheral, makes this particular aspect of Physiotherapy very interesting and rewarding.

Physiotherapists should find this book very helpful in every aspect of Mr. Maitland's techniques. I like his chapter on Examination which stresses the importance of a thorough subjective and objective examination, which at the first session may take a long time, but is rewarded by the results of being able to give an accurate treatment afterwards. His description of the accessory movements in the joints is very interesting, and in the subsequent chapters he gives the details of how to examine for these movements.

In this first chapter I am very pleased to see that Movement Diagrams have been explained so fully. Mr. Maitland says that their value is as a teaching aid and as a means of communication in technical discussion. I think that they help one to understand what one is looking for in the examination of a joint. They should be carefully studied by the Physiotherapists attending Mr. Maitland's course in May.

It is not easy to fully understand from a book how to do the techniques of the treatments, but they are so detailed, and Mr. Maitland has done an excellent diagram for every procedure described, that they can be followed step by step. The grades of oscillatory treatment movements are clearly set out but like most techniques need practice and practical tuition.

The chapter on the shoulder girdle is very good and should be of great help to Physiotherapists who have to treat this complicated and often difficult region. All the other joints are equally well done and of invaluable assistance in treating them.

The way in which Mr. Maitland divides his patients into five groups according to their different combinations of symptoms and signs for treatment purposes is very explicit, and I like his discussion of the treatments.

These two books, Peripheral Manipulation and Spinal Manipulation, will, I hope, stimulate Physiotherapists to follow these techniques which I have found so rewarding since I did the course in Australia. There are times when it is sufficient to apply ice and give active movements but there are the times when a little nudge at the extreme range of a movement or to loosen an accessory movement will make all the difference. We are very fortunate that Mr. Maitland is putting forward his views on these very important subjects of Mobilization and Manipulation of Joints.

Joan Whittaker.

BOOKS TO BE REVIEWED LATER

PHYSICAL THERAPY EXAMINATION REVIEW BOOK

Vof. 2. Clinical Application. Edited by Ronald A. Hershey, B.A., M.A., R.P.T., Associate Professor of Physical Therapy, School of Health Related Problems, Loma Linda University, Loma Linda, California. Price \$7.00. Published by Medical Examination Publishing Co. Inc., 65-36 Fresh Meadow Lane, Flushing, N.Y. 11365.

MOVEMENT ACTIVITIES, MOTOR ABILITY AND THE EDUCATION OF CHILDREN by Cratty, Ikeda, Martin, Jennett and Morris. Published by Charles C. Thomas, Publisher, 301-327 East Lawrence Avenue, Springfield, Illinois, U.S.A. Price \$9.75.

PHYSICAL THERAPY PROCEDURES. Selected Techniques by Downer. Published by Charles C. Thomas, 301-327 East Lawrence Avenue, Springfield, Illinois, U.S.A. Price \$7.95.

CHRISTMAS GREETINGS

Christmas Greetings were received from the following: The Physiotherapy Associations of: Australia, Austria, Belgium, Canada, Chile, Denmark, Finland, France, Great Britain, Israel, Mexico, Netherlands, New Zealand, Norway, Rhodesia, U.S.A., Western Germany, Iceland.

Miss Doreen Moore, President, W.C.P.T., Miss Elizabeth McKay, Secretary-General, W.C.P.T., Miss Joyce Neilson, retired Secretary-General, W.C.P.T., Miss Alison Munro, Australia, Mr. Bob Williams, Great Britain.

Mrs. Angela Deacon, Miss Marjory Catt, Mrs. Anne

Hodges, Miss Susie Oosthuizen, Mr. and Mrs. Fred Rothberg.

All the Branches of the S.A.S.P.

Miss Anne Savin, Miss Yvonne Spitz, Miss Marylen Sternweiler.

The Pretoria Physiotherapy College, The S.A. Association of Occupational Therapists, The S.A. Medical and Dental Council and The National Council for the Welfare of the Aged.

MANIPULATION OF THE SPINE POST-GRADUATE COURSE 1971 AUSTRALIAN PHYSIOTHERAPY ASSOCIATION

The next twelve-week full-time course will be conducted in Adelaide from Monday, September 27, to Saturday, December 18, 1971, if sufficient suitable applications are received. This course has been carefully designed to provide an advanced training in manipulative techniques and their application in treatment. Lectures covering anatomy, physiology, pathology, radiology and examination procedures will be given by competent medical lecturers. Techniques and clinical application will be taught and supervised by physiotherapists and a physical medicine specialist. The course is open to all members of the South African Society of Physiotherapy, but preference will be given to those who have had more than one year of experience. Members of the Medical Profession may apply for the course or they may attend certain sections of the course at a fee. Participants will be expected to sit for examinations at the completion of the course. Total cost for each successful applicant will be \$A350.

PROSPECTUS and APPLICATION FORMS are available from:—

Secretary,
Australian Physiotherapy Association (S.A. Branch) Inc.,
97 Palmer Place, North Adelaide, South Australia, 5006.
Applications close, May 11, 1971.

BRANCH NEWS

SOUTHERN TRANSVAAL BRANCH

Lectures

January 26: Miss S. Cussel, Honary President of the Johannesburg Branch of the National Council for Women and Miss S. Oosthuizen, Branch President of the N.C.W., gave us a very interesting talk entitled "The National Council and what it stands for". This was illustrated with slides.

News of Members

Contratulations to the following members on their recent marriages: Jill Baron to Mr. Powter, Ruth Zelicon to Dr. P. Stern, Ethne Eva to Mr. J. Dodd.

Our congratulations too, to Jeanette Clark on her engagement to Mr. Graham Mitchell and to Mrs. Marie Croucamp on the arrival of another daughter.

Travel News

Miss M. Murphy has returned from Australia where she attended the Maitland Course on Manipulations.

Back, too, from Europe are Mrs. Marianne Strein and Miss Jean Hayse-Gregson. Mrs. Stewart will be going overseas in April.

New Members

The following members have joined our branch: Miss A. Bloom, Miss D. Stigling, Mrs. J. Mehl, Mrs. K. Bennetts and Miss S. Pasvol.

Reunion Cocktail Party

A cocktail party is to be held on March 26 to mark the 25th Anniversary of the appointment of Miss Jean Blair to the staff of the University of the Witwatersrand, to which all Wits. graduates are invited.