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Notices

Tenth International Symposium on Cerebral Blood Flow and Metabolism June 19–24, 1981 (amended date) St Louis, Missouri, USA.

Address for enquiries:
Michel M. Ter-Pogossian,
The Edward Mallinckrodt Institute of Radiology,
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The Casey Holter Memorial Prize. This prize of £250 will be awarded in 1981 for the best essay reporting original work bearing on the pathogenesis or treatment of spina bifida or hydrocephalus. Entries should be submitted before 30th April 1981 to: Mr D G Young, Royal Hospital for Sick Children, York Hill, Glasgow G3 8SJ.

Book reviews

Ergot drugs have been a treasure chest for pharmacologists. Their investigation led to some of the adventures in physiology of Sir Henry Dale and more recently has served as a powerful tool to study the monoamine nervous system. This well edited and presented volume reviews the many pharmacological actions and clinical uses of ergot derivatives. Thirty-nine chapters contain papers by 111 authors presented at a New York symposium in 1979. The index is good, the type clear and the illustrations informative.
There are five main sections. The first contains an excellent review of the diverse pharmacology of ergots by Berde, followed by the presentation of new research findings using techniques such as ibotenic acid lesions of the striatum to remove interneurones but leave extrinsic terminals intact. However, since ergot alkaloids may act at six or more distinct monoamine receptors in the brain, the analysis of these results is sometimes difficult. The book then reviews the use of ergots in endocrine disorders, Parkinsonism, dyskinesias and old age. These sections draw on the vast experience and publications of many authors and form a useful compendium of present practice in the management of hyperprolactinaemia, acromegaly and extrapyramidal disorders.
Although I enjoyed the book as a whole, there are a number of drawbacks. The first section is complementary to the encyclopaedic handbook on experimental pharmacology of ergot alkaloids and related compounds edited by Berde and Schild and published by Springer-Verlag in 1978. This is three times more expensive than the present volume but an essential reference work. Many of the clinical results are duplicated in both volumes. The necessary decision by Sandoz to stop production and investigation of isyergic acid dideethylamide and analogues in the 1960's following widespread abuse unfortunately curtailed the study of the psychotomimetic properties of ergot derivatives in man. This most interesting effect and also the vascular physiology of ergots are well reviewed in the handbook but not in the present volume. This however forms an excellent introduction to many of the different actions of ergot in animals and man.

This book is based on a satellite symposium of the 5th International Congress on Hormonal Steroids held at Varanasi, India, in November 1978. The authors of the 28 chapters were specifically asked to review their particular field, placing their own results in a broad context. This approach has been so successful that the editors have virtually produced a textbook rather than a collection of papers of limited interest. The content is chiefly experimental with a single chapter by Professor Rees directly relevant to the clinical management of Cushings syndrome, but other authors consider such topics as adrenocortical function in psychiatric disorders and the possible role of steroids in foetal development and in hypertension. Notwithstanding the emphasis on laboratory work it is frequently stimulating to relate the results to clinical situations. In a chapter on behavioural effects of neuropeptides for example, Bohus points out that certain behavioural deficits after hypophysectomy in animals are only corrected by replacement therapy with ACTH and endorphins. Professor Edwardson in his contribution suggests a relationship between pituitary peptides and obesity. Perhaps the clinical impression of a change of personality and a tendency to gain weight in patients after hypophysectomy has foundation in hormonal deficiency.
A number of the chapters deal with the regulation of ACTH release and the mechanism of feed back exerted by circulating steroids. Of particular interest to neurologists is the chapter by Gann and his co-workers who have explored the afferent neuronal pathways originating in the medulla which influence hypothalamic production of a corticotrophin releasing factor (CRF). Their technique involves hormonal measurement acting as the index of response to electrical stimulation of neurones. The neuroendocrine approach by Scapagnini et al to noradrenergic inhibition of CRF production has also provided an elegant demonstration of denervation supersensitivity.
The relationship between endocrine and nervous systems is further emphasized by chapters dealing with the role of neuro-transmitters in the control of hormone secretion. Professor Hodges for example, describes the inhibitory effects of acetylcholine and serotonin on CRF production.
Many other contributions illustrate the growing awareness of neuroendocrinology as a subject of clinical relevance. Indeed ACTH and related peptides seem likely to achieve importance as neuro-transmitters equal to that achieved in their role as hormones. The book is well produced, well illustrated and can be recommended as a source of reference for the general reader as well as the specialist.

Harper's monograph on myotonic dystrophy is excellent. The previous standard reference of Caukey and
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### Index to Volume 43, 1980

Page numbers preceded by ‘(L)’ refer to Letters.

| ABBOTT, R. J., BROWNING, M. C. K., and DAVIDSON, D. L. W. | Serum prolactin and cortisol concentrations after grand mal seizures, 163 |
| ABDALLAT, A., DAVIS, S. M., FARRAGE, A., ADAMS, R. N. | Age, effects 115 |
| AEBELHOLT-KRABBE, I. | Allonby, 730 |
| ADAMS, P. | Amnesia, post traumatic, 182 |
| ADDISON’S disease, hyperkalaemic paralysis, neuropathy, persistent motor neuron discharges at rest, in, 818 |
| ADRENAL response, 879 |
| ADDISON’S disease, hyperkalaemic paralysis, neuropathy, persistent motor neuron discharges at rest, in, 818 |
| ADRENAL response, 879 |
| AFFERENT conduction times, central, in multiple sclerosis, 948 |
| Age, effects on surgical mortality in an aneurysm population, 879 |
| Age, effects on touch detection, finger, relationship with histology, 730 |
| Age, indoleamine metabolism and, 438 |
| Air embolism, arterial, causing Brown-Sequard syndrome (L), 1153 |
| Alcoholic neuropathy, quantitative electrophysiological study, 427 |
| α-neuraminidase deficiency, cherry-red spot myeloclonus syndrome and, 934 |
| Alpha pattern coma, neurophysiological assessment, 63 |
| 4-aminopyridine, Eaton-Lambert syndrome, treatment, 438 |
| Amnesia, post traumatic, measuring the duration of, 377 |
| Amnesia, transient global, possible hippocampal phenomenon, 285 |
| Amplitude, sensory evoked potentials, wrist, left-handed subjects, 182 |
| Anal sphincter muscle, external, increased motor unit fibre density, in ano-rectal incontinence, single fibre EMG study, 343 |
| ANDERSON, G. M. | See Young, S. N., Gauthier, S., et al. |
| ANDERSON-FABRY disease, basilar artery aneurysm, and, 85 |
| ANDREassen, S., and ROSEnFalck, A. | Regulation of the firing pattern of single motor units, 879 |
| ANDREassen, S. | See ROSEnFalck, A., and ANDREassen, S. |
| ANEURYSMS, basilar artery, Anderson-Fabry disease and, 85 |
| Aneurysms, giant, carotid system, presenting as visual field defect, 1053 |
| Aneurysms, subarachnoid haemorrhage, computed tomography in, 522 |
| Aneurysms, subarachnoid haemorrhage, fibrinolytic activity monitoring in cerebrospinal fluid after, 175 |
| Aneurysms, surgery for, treatment of raised intracranial pressure following, 957 |
| Aneurysms, surgical mortality after treatment for, effects of age, hypertension, and preoperative neurological state, 879 |
| ANGEL, R. W., WAXMAN, S. G., and KOCSIS, J. D. | Myoelectric silence following unopposed passive stretch in normal man, 705 |
| Ano-rectal incontinence, increased motor unit fibre density, external anal sphincter muscle in, single fibre EMG study, 343 |
| Anodally blocking, large nerve fibres, chronically implanted electrodes, 1083 |
| Anomia, colour, left visual hemifield, after splenial disconnection, 719 |
| Anterior tibial compartment syndrome, acute bilateral, in diabetes, after Caesarean section, 86 |
| ANTHONY, M. | See LANCE, I. W., and ANTHONY, M. |
| Anti-acetylcholine receptor antibodies, in myasthenia gravis, 590 |
| Anti-acetylcholine receptor antibody patterns, patient-specific, in myasthenia gravis, 316 |
| Anti-acetylcholine receptor antibody titres, in serum, in myasthenia gravis treated with plasma exchange combined with immunosuppressive therapy, 397 |
| Antibodies, acetylcholine receptor, in myasthenia gravis, 568 |
| Antibodies, anti-acetylcholine receptor, in myasthenia gravis, 590 |
| Antibody patterns, anti-acetylcholine receptor, patient-specific, in myasthenia gravis, 316 |
| Antibody titres, anti-acetylcholine receptor, in serum, in myasthenia gravis treated with plasma exchange combined with immunosuppressive therapy, 397 |
| Anticonvulsant drugs, effect on 5-hydroxytryptamine metabolism, 438 |
| Antiserotonin agents, pizotifen, effect on platelet aggregability in migraine, 1138 |
| ANTONI, E. | See Stålberg, E., and ANTONI, L. |
| Aphasias, sound recognition in relation to aural language comprehension in, 71 |
| Apraxia, ideomotor, left hemisphere damage and, CAT correlation, 118 |
Arachidonate and linoleate levels in erythrocytes, in multiple sclerosis, compared with control subjects, 106
Arms, mirror movements of left arm following peripheral damage to preferred right arm, 768
Arms, motor involvement in syringomyelia, single fibre EMG study, 150
Armstrong, D. See Jankovic, J., Derman, H., et al.
Arterial ataxia, causing Brown-Sequard syndrome (L), 372
Arterial hypotension and hypertension, effects on cerebrospinal fluid pulse pressure and intracranial volume-pressure relationships, 222
Arterial spasm, cerebral, hypercalcaemia and, causing cerebral infarction, 464
Arteriovenous malformations, cerebral, neuropathology of, in children, 380
Artiola i Fortuny, L., Adams, C. B. T., and Briggs, M.: Surgical mortality in an aneurysm population: effects of age, blood pressure and preoperative neurological state, 879
Artiola i Fortuny, L., Briggs, M., Newcombe, F., Ratcliff, G., and Thomas, C.: Measuring the duration of post traumatic amnesia, 377
Aruffo, C. See Escobar, A., and Aruffo, C.
Astrocytic differentiation, medulloblastoma, 1041
Ataxia, choline chloride in, 452
Ataxia, Friedreich's, lecithin in, effects on disability and plasma free-choline levels, 843
Ataxia, Friedreich's, lipids and lipoproteins in, 111
Ataxia, Friedreich's, peripheral and central somato-sensory nerve conduction defects in, 495
Auditory brainstem responses, assessment of brainstem damage by, in acute severe head injury, 1005
Aural language comprehension, sound recognition, relationship between, in aphasia, 71
Australia, endemic neurological disorder in tribal aborigines, 661
Autoantibodies, myasthenia gravis, clinical and immunological associations, 967
Autoimmune experimental myasthenia gravis, 634
Autoimmune responses, in myasthenia gravis, experimental, 568
Autonomic control, cardiovascular reflexes, in narcolepsy, 535
Autosomal dominant hereditary muscle carnitine palmitoyltransferase and carnitine partial deficiency, 679
Autosomal recessive hereditary motor and sensory neuropathy, 669
Avanzini, G. See Franceschetti, S., Uziel, G., et al.
Avezat, C. J. J., Van Eijndhoven, J. H. M., and Wyper, D. J.: Effects of hypercapnia and arterial hypotension and hypertension on cerebrospinal fluid pulse pressure and intracranial volume-pressure relationships, 222
Axonal refractory period, single short toe extensor motor units, 917
Axonal transport, blockage, by graded compression of the vagus nerve, 690
Baclofen, DS103–282, and placebo, spasticity, suppression of, double-blind comparison, 1133
Bajada, S., Mastaglia, F. L., Black, J. L., and Collins, D. W. K.: Effects of induced hyperthermia on visual evoked potentials and saccade parameters in normal subjects and multiple sclerosis patients, 849
Balancing, clinical test in differential diagnosis of sensory-motor disorders, 407
Ballantine, J. P. See Weir, A. I., Hansen, S., et al.
Barber, S. G., and Garvan, N.: Is 'benign intracranial hypertension' really benign, 136
Barnard, R. O., and Pambakian: Astrocytic differentiation in medulloblastoma, 1041
Barolat-Romana, G., and Davis, R.: Neuropsychological mechanisms in abnormal reflex activities in cerebral palsy and spinal spasticity, 333
Bartfeld, D. See Fuchs, S., Bartfeld, D., et al.
Basal ganglia calcification, bilateral, CT scan of, 403
Basal ganglia calcification, idiopathic familial, associated with juvenile hypertension (L), 288
Basilar artery aneurysm, Anderson-Fabry disease and, 85
Basso, A., Luzzatti, C., and Spinnler, H.: Is ideomotor apraxia the outcome of damage to well-defined regions of the left hemisphere? Neuropsychological study of CAT correlation, 118
Bathien, N., Bondot, R., and Toma, S.: Inhibition and synchronisation of tremor induced by a muscle twitch, 713
Becker, L. E. See Takashima, S., and Becker, L. E.
Behan, P. O.: Immune disease and HLA associations with myasthenia gravis, 618
Behan, P. O. See Savage-Marengo, T., Harrison, R., et al.
Behçet's disease, multiple sclerosis, clinical comparative study, 210
Bell, B. A., Kendall, B. E., and Symon, L.: Computed tomography in aneurysmal subarachnoid haemorrhage, 522
Berry, R. J. See Lecky, B. R. F., Murray, N. M. F., et al.
Bites, human, causing accessory nerve palsy, 744
Black, J. L. See Bajada, S., Mastaglia, F. L., et al.
Blood flow, cerebral, after surgery for subarachnoid haemorrhage, 214
Blumbergs, P. C., and Byrne, E.: Hypotensive central infarction of the spinal cord, 751
Book reviews:
Adachi, M., Schneck, L., and Volk, B., eds: Sphin-golipidoses and Allied Disorders, (1979), 374
Albert, M. L., and Obler, L. K.: The Bilingual Brain. (Neuropsychological and Neurolinguistic Aspects of Bilingualism), (1979), 851
Index

Cerebellar ataxia, choline chloride in, 452
Cerebral arteriovenous malformations, neuropathology of, in children, 380
Cerebral asymmetries, computer tomography evaluation of, 873
Cerebral atrophy, white matter low attenuation in, 139
Cerebral blood flow, after surgery for subarachnoid haemorrhage, 214
Cerebral contingent negative variation, evoked potentials and, during treatment of multiple sclerosis with spinal cord stimulation, 15
Cerebral damage, after open-heart surgery, 127
Cerebral dysfunctions, cause or effect of enzyme reduction (L), 1146
Cerebral hydridosis, case reports, 91
Cerebral infarction, hypercalcaemia and cerebral vasospasm causing, 464
Cerebral palsy, abnormal reflex activities in, neurophysiological mechanisms, 333
Cerebral systemic lupus erythematosus, case report, 357
Cerebral vasospasm, hypercalcaemia and, causing cerebral infarction, 464
Cerebrospinal fluid, elevated protein levels in motor neurone disease, 390
Cerebrospinal fluid, fibrinolytic activity monitoring after aneurysmal subarachnoid haemorrhage, rebleeding risks, 175
Cerebrospinal fluid, 5-hydroxyindoleacetic acid levels, effects of dialysis in advanced renal disease, 739
Cerebrospinal fluid, hydrolyse cofactor levels, in neurological disease, 735
Cerebrospinal fluid, low grade humoral immune response in, and multiple sclerosis, 102
Cerebrospinal fluid, pulse pressure, effects of hypercapnia and arterial hypertension and hypertension, 222
Cerebrospinal fluid, tryptophan, 5-hydroxyindoleacetic acid in, interrelationships, 438
Cerebrospinal fluid, tryptophan, levels, effects of dialysis in advanced renal disease, 739
Cervical somatosensory evoked potentials, in cervical spondylosis, 683
Challa, V. R., and Marx, R. S.: Pathology of Yersinia enterocolitica meningitis, 455
Charcot-Marie-Tooth disease, vascular reflexes, abnormal, in, 348
Cherry-red spot myoclonus syndrome, a-neuraminidase deficiency and, 934
Children, carpal tunnel syndrome combined with trigger finger in (L), 1148
Children, cerebral arteriovenous malformations, neuropathology of, 380
Children, epileptic, folic acid and neuropsychiatric disturbances in, 1030
Children, neurometabolic and hypoponere syndrome in, 888
Choline, effects in myasthenic syndrome, 483
Choline, free-, plasma levels, Friedreich's ataxia, effects of lecithin, 843
Choline chloride, ataxia, 452
Choroid plexus, lateral ventricle, symptomatic cyst (L), 555
Chui, H. C., and Damasio, A. R.: Human cerebral asymmetries evaluated by computed tomography, 873
Chui, H. C., See Damasio, A. R., Chui, H. C., et al.
Cinca, I., Dumitrescu, T., Onaca, P., Serbanescu, A., and Nestorescu, B.: Accidental ethyl mercury poisoning with nervous system, skeletal muscle, and myocardial damage, 143
Circulating factor, tests for, in myasthenic syndrome, 469
Clomipramine, cataplexy treatment, 171
Clonus, central nervous system mechanisms, role in, 321
Coakham, H. B. See Maurice-Williams, R. S., et al.
Cognitive sequelae, severe blunt head injury, relationship to brain damage indices, 529
Colour anoma, left visual hemifield, after splenic disconnection, 719
Colours, flight of, compared with visually evoked responses, in multiple sclerosis, 550
Cona, alpha pattern, neurophysiological assessment, 63
Compound action potential amplitudes, sensory nerve, variation with sex and finger circumference, 925
Compression, acute, graded, inducing changes in nerve function and fibre structure, 1070
Computed axial tomography, aneurysmal subarachnoid haemorrhage, 522
Computed axial tomography, bilateral basal ganglia calcifications, visualised on, 403
Computed axial tomography, demonstrating unsuspected organic disease in chronic schizophrenia, 1065
Computed axial tomography, diagnostic performance, vascular lesions of the vertebrobasilar territory, 193
Computed axial tomography, evaluating cerebral asymmetries, 873
Computed axial tomography, intracranial meningiomas, diagnosis of, difficulties, 1022
Conduction times, brain and spinal cord, evaluated by somatosensory evoked potentials and F and H responses, 1103
Conduction times, central afferent, in multiple sclerosis, 948
Conduction times, somatosensory, in cervical spondylosis, 683
Confabulation, frontal lobe dysfunction and, 461
Conley, F. K. See Helie, T. L., and Conley, F. K.
Connective tissue, mixed, initial manifestation, trigeminal sensory neuropathy and bilateral carpal tunnel syndrome, 458
Corns, A. See Decaux, G., Sayer, M., et al.
Corpus callosum, posterior, section, in a non-epileptic patient, 351
Cortical laterality, lateral asymmetry, Hoffman reflex, relationship between, 831
Cortical somatosensory evoked potentials, in cervical spondylosis, 683
Cortisol, serum levels, after grand mal seizures, 163
Cos, J. A. See Maisey, D. N., and Cos, J. A.
Coughlan, A. K. See Kapur, N., and Coughlan, A. K.
Coughlan, A. K. See Stallone, T., and Coughlan, A. K.
Craigs, M. D. See Brindley, G. S., and Craigs, M. D.
Craniotomy, meningiomas, diagnosis of, difficulties, 1022
Cricopharyngeal myotomy, for motor neurone disease, 42
Crowther, A. See Luxon, L. M., Crowther, A., et al.
Croxson, M. See McMenamin, J., and Croxson, M.
Index

Enzymes, cerebral, measurable reduction, cause or effect of cerebral dysfunction (L), 1146
Epilepsy, attempted suicide, association between, 168
Epilepsy, children, folic acid and neuropsychiatric disturbances in, 1030
Epilepsy, following ECT, incidence, 1098
Epilepsy, grand mal seizures, serum prolactin and cortisol levels after, 163
Epilepsy, indoleamine metabolism and, 438
Epilepsy, monoamine oxidase, platelet, activity in, 68
Epilepsy, phenobarbitone in previously untreated, 365
Epilepsy, seizures, self-induction by eyelid closure, 386
Epilepsy, smooth-pursuit eye movements in, compared with healthy subjects, 1120
Epilepsy, temporal lobe, Huglings Jackson's Dr Z, 758
Erythrocyte-unsaturated fatty acid mobility test, multiple sclerosis diagnosis, evaluation, 995
Erythrocytes, linoleate and arachidonate levels in multiple sclerosis, compared with control subjects, 106
Ethyl mercury poisoning, nervous system, skeletal muscle, and myocardium injury, 143
Evoked potentials, cerebral contingent negative variation and, during treatment of multiple sclerosis with spinal cord stimulation, 15
Evoked potentials, sensory amplitude, at wrist, left-handed subjects, ratio between hands, 182
Evoked potentials, somatosensory, brain and spinal cord conduction times, estimated by, 1103
Evoked potentials, somatosensory, effect of hand muscle vibration, possible interaction between lemniscal and spino-cerebellar inputs, 433
Evoked potentials, somatosensory, in multiple sclerosis, 948
Evoked potentials, somatosensory, peripheral, cerebral, cortical, in cervical spondylosis, 683
Evoked potentials, somatosensory, spinal, in transient radiation myelopathy, following incidental cord exposure during radiotherapy, 747
Evoked potentials, somatosensory, spinal cord, in traumatic paraplegia and quadriplegia, 823
Evoked potentials, visual, effects of induced, in multiple sclerosis, compared with normal subjects, 849
Eye movements, smooth-pursuit, in epilepsy, compared with healthy subjects, 1120
Eyelid closure, self-induction of epileptic seizures by, 386

F responses, brain and spinal cord conduction times, estimated by, 1103
Fab fragments, human myasthenic IgG, protection of mouse endplates by, in passively transferred myasthenia gravis, 836
FABIANI, A., TREBINI, F., and TORTA, R.: Brain hydatidosis: report of two cases, 91
FAHN, S. See BURKE, R. E., FAHN, S., et al.
FAVALE, E. See ABBRUZZESE, G., ABBRUZZESE, M., et al.
FEARNSIDE, M. R., and ADAMS, C. B. T.: The treatment of raised intracranial pressure following aneurysm surgery, 957
FEELY, M., O'CALLAGHAN, M., DUGGAN, B., and CALLAGHAN, N.: Phenobarbitone in previously untreated epilepsy, 365
FENSKE, A. See MAURER, K., FENSKE, A., et al.
FERRER, M. T. See CRUZ MARTÍNEZ, A., PEREZ CONDE, M. C., et al.
Fibrinolytic activity, cerebrospinal fluid, monitoring after aneurysmal subarachnoid haemorrhage, rebleeding risks, 175
Finger, circumference, sensory nerve compound action potential, variation with, 925
Finger, relationship between tactile thresholds and histology, 235
Firing pattern, single motor units, impaired regulation, in spasticity, 907
Firing pattern, single motor units, regulation, 897
FISHER, M. A.: Relative changes with contraction in the central excitability state of the tibialis anterior and calf muscles, 243
FISHER, M. A. See GARCIA, H. A., and MILNER-BROWN, H. S.
Flight of colours, compared with visually evoked responses, in multiple sclerosis, 550
Fluvoxamine, cataplexy treatment, 171
Folic acid, neuropsychiatric disturbances and, in children with epilepsy, 1030
FOSTER, J. B. See NEWMAN, P. K., CUMMING, W. J. K., et al.
FRANCESCHETTI, S., UZIEL, G., DI DONATO, S., CAMI, L., and AVANZINI, G.: Cherry-red spot myoclonus syndrome and s-neuraminidase deficiency: neurophysiological, pharmacological and biochemical study in an adult, 934
Friedreich's ataxia, leucinohin, in effects on disability and plasma free-choline levels, 843
Friedreich's ataxia, lipids and lipoproteins in, 111
Friedreich's ataxia, peripheral and central somatosensory nerve conduction defects in, 495
Frontal lobe atrophy, catatonia and, 185
Frontal lobe dysfunction, confabulation and, 461
GANES, T.: Somatosensory conduction times and peripheral, cerebral, and cortical evoked potentials in patients with cervical spondylosis, 683
GANES, T.: Somatosensory evoked potentials and central afferent conduction times in patients with multiple sclerosis, 948
GARVAN, J. See BARBER, S. G., and GARVAN, N.
Geniculate herpetic zoster (L), 1105
GEORGE, R. J. See GUILOF, R. J., GEORGE, R. J., et al.
GERLACH, J. See CASEY, D. E., and GERLACH, J.
GLENN, S. See GOODE, D. J., GLENN, S., et al.

Glycolytic muscle fibres, Trichinella spiralis larvae in, 281

GOBERNADO, J. M., GOLALVEZ, M., CORTINA, C., LOUSA, M., RIVA, C., and GIMENO, A.: Mitochondrial functions in chronic spinal muscular atrophy, 546

GOEDWIN-AUSTEN, A. P. See GODWIN-AUSTEN, A. P.

GOEDWIN, R. G.

GORDON, L. R. See GORDON, L. R.

GORDON, M. S. See GORDON, M. S.

GOFF, A. P. See BURKE, R. E., FAIN, S., et al.


GORDON, Y. B. See MAURICE-WILLIAMS, R. S., GORDON, Y. B., et al.

GOSALVEZ, G. See GOSALVEZ, G.


Groote Eylant/Arnhem Land, Australia, endemic neurological disorder in tribal aborigines, 661

Guanethidine regional infusion, pain relief, 446

Guillain-Barré syndrome, plasma exchange and (L), 1147

GUILLOFF, R. J., GEORGE, R. J., and MARSDEN, C. D.: Reversible supranuclear ophthalmoplegia associated with Parkinsonism, 552

GUILLOFF, R. J., Mcgregor, B., THOMPSON, E., BLACKWOOD, W., and PAUL, E.: Motor neuron disease with elevated cerebrospinal fluid protein, 390

GUIDI, G. M. See PAYNE, J. K., HIGENBOTTAM, T., et al.

GUTMANN, L. See CRUTCHFIELD, C. A., and GUTMANN, C. A.

H responses, brain and spinal cord conduction times, estimated by, 1103

HAASS, A. See RICKER, K., HAASS, A., et al.

Haemorrhage, associated with meningoima, 725

Haemorrhage, CNS, complicating multiple sclerosis, 76

Haemorrhage, subarachnoid, aneurysmal, computed tomography in, 523

Haemorrhage, subarachnoid, aneurysmal, monitoring fibrinolytic activity in cerebrospinal fluid after, 175

Haemorrhage, subarachnoid, surgery for, cerebral blood flow, after, 214

HAGBARTH, K.-E. See YOUNG, R. R., and HAGBARTH, K.-E.

Hair pigmentation, disordered, spastic paraparesis and peripheral neuropathy, new familial neuromuscular syndrome, 962


Hand muscle vibration, effect on somatosensory evoked potentials, possible interaction between lemniscal and spino-cerebellar inputs, 433


HANSEN, S. See BALLANTYNE, J. P., HANSEN, S., et al.

HANSEN, S. See WEIR, A. I., HANSEN, S., et al.

HARDING, A. E., and THOMAS, P. K.: Autosomal recessive forms of hereditary motor and sensory neuropathy, 669

HARMAN, D. J. See PEDLEY, J. C., HARMAN, D. J., et al.


HARRISON, R. See CARTER, B., HARRISON, R., et al.

HARRISON, R. See SAVAGE-MARENGO, T., HARRISON, R., et al.

HASSAN, N., and MCLLEAN, D. L.: Double-blind comparison of DS03-182, bacoalen, and placebo for suppression of spasticity, 1133

HAWSON, K., FAGG, J., and MARSH, P.: Association between epilepsy and attempted suicide, 168

HAZELTON, R. A., REID, A. C., and ROONEY, P. J.: Cerebral systemic lupus erythematosus: a case report and evaluation of diagnostic tests, 357

Head, sudden turning of, neck pain and tongue numbness after, 97

Head injury, severe, acute, assessment of brainstem damage by auditory brainstem response, 1005

Head injury, severe, blunt, cognitive sequelae, relationship to brain damage indices, 529

Head injury, severe, social recovery during the year following, 798

Head injury, severe, treatment, 289

Head injury, training characteristics after, 525

Hearing loss, brainstem disorders, 510


HEILMAN, K. M., and HOWELL, G. J.: Seizure-induced neglect, 1035

HEILMAN, K. M., HOWELL, G., VALENSTEIN, E., and ROTH, L.: Mirror-reading and writing in association with right-left spatial disorientation, 774


HERON, J. R. See PATTERSON, V. H., and HERON, J. R.

Hereditary autosomal dominant muscle carnitine palmitoyltransferase and carnitine partial deficiency, 679

Hereditary motor and sensory neuropathy, autosomal recessive, 669

Herpes zoster, crural, (L), 1146

Heston, L. L.: Dementia associated with Parkinson's disease: a genetic study, 846


Histocompatibility antigens, in myasthenia gravis, 611

Histogram, finger, relationship with tactile thresholds, 235

Histology, finger, relationship with touch detection, effect of age, 730

Hoffman reflex, lateral asymmetry, relation to cortical laterality, 831

Holmes-Adie syndrome (L), 1147


HOWELL, G. J. See HEILMAN, K. M., and HOWELL, G. J.

HUG, G. See IONASCECVU, V., HUG, G., et al.

Hughings Jackson, J., Dr Z., paradigm of temporal lobe epilepsy, 758

HUMPHREY, M. See ODDY, M., and HUMPHREY, M.

HUMPHREY, P. R. D. See MERVY, J., THOMAS, D. J., et al.

Hydrocephalus, communicating, dementia paralytica and (L), 191

Hydrocephalus, tuberculous meningitis, and, in adults, 188
Index

5-hydroxyindoleacetic acid, CSF levels, effects of dialysis in advanced renal disease, 739
5-hydroxyindoleacetic acid, indoleacetic acid, and tryptophan in cerebrospinal fluid, interrelationships, 438
Hydroxylase cofactor, CSF levels, in neurological disease, 735
Hypercalcemia, cerebral vasospasm and, causing cerebral infarction, 464
Hypercapnia, effects on cerebrospinal fluid pulse pressure and intracranial volume-pressure relationships, 446
Hyperkalaemic paralysis, induced, 751
Hyperparathyroidism, thyrotopin-secreting pituitary tumours causing, 1142
Hypotension, arterial, effects on cerebrospinal fluid pulse pressure and intracranial volume-pressure relationships, 222
Hypotension, benign intracranial, adrenal response in, 136
Hypotension, benign intracranial, hypothalamic-hypophysal insufficiency in, 136
Hypotension, effects on surgical mortality in an aneurysm population, 879
Hypertension, juvenile, associated with idiopathic familial basal ganglia calcification (L), 288
Hyperthermia, induced, effects on visual evoked potentials and saccade reaction time and velocity in multiple sclerosis, compared with normal subjects, 849
Hyperthyroid Graves' disease, motor neurone disease, possible chance association, 46
Hyperthyroidism, thyrotropin-secreting pituitary tumours causing, 1142
Hypotension, arterial, effects on cerebrospinal fluid pulse pressure and intracranial volume-pressure relationships, 222
Hypotension, infarction, spinal cord central grey matter following, 751
Hypothalamic-hypophysal insufficiency, in benign intracranial hypertension, 136

Ileodoinotor apraxia, left hemisphere damage and, CAT correlation, 118
Immune response, low-grade humoral, cerebrospinal fluid, and benign course of multiple sclerosis, 102
Immunity, cell-mediated, myasthenia, clinical and immunological associations, 971
Immunoglobulin G human myasthenic, Fab fragments, protection of mouse endplates by, in passively transferred myasthenia gravis, 836
Immunosuppressive therapy, plasma exchange and, treatment of myasthenia gravis, anti-aceicholine receptor antibody titre in serum in, 397
Incontinence, ano-rectal, increased motor unit fibre density, external anal sphincter muscle in, single fibre EMG study
Indoleacetic acid, 5-hydroxyindoleacetic and tryptophan in cerebrospinal fluid, interrelationships, 438
Infarction, central grey matter, spinal cord, following hypotension, 751
Influenza A virus, Reye's syndrome, association, in adults, 516
Interfascicular neurolysis, for ulnar nerve lesions at the elbow, 272
Intracranial hypertension, benign, adrenal response in, 136
Intracranial hypertension, benign, hypothalamic-hypophysal insufficiency in, 136

Intracranial meningiomas, diagnosis, by computed tomography, difficulties, 1022
Intracranial pressure, raised, following aneurysm surgery, treatment for, 957
Intracranial volume-pressure relationships, effects of hypercapnia and arterial hypotension and hypertension, 222
Intramedullary abscess, complicating spinal dysraphism, 1045
INEAN, V., HUG, G., and HOPPEL, C.: Combined partial deficiency of muscle carnitine palmitoyltransferase and carnitine with autosomal dominant inheritance, 679
Ischaemic neuropathy, lumbosacral plexus, after intragluteal injection, 489
ISON, J. R. See SANES, J. N., and ISON, J. R.
Jaw-jerk response, effect of stimulus strength, 699
JENNITT, B., TEASDALE, G., FRY, J., BRAAKMAN, R., MINDERHOUD, J., HEIDEN, and KURZE, T.: Treatment for severe head injury, 289
JONES, P. See BROOKS, D. N., AUGHTON, M. E., et al.
JONES, S. J., BARAITSER, M., and HALLIDAY, A. M.: Peripheral and central somatosensory nerve conduction defects in Friedreich's ataxia, 495
KAISER, L. See SACHS, C., and KAISER, L.
KAPLAN, P. E.: Electrodiagnostic confirmation of long thoracic nerve palsy, 50
KAPUR, N., and COULHAN, A. K.: Confabulation and frontal lobe dysfunction, 461
KARTHAUS, P. P. M. See VANNESTE, J. A. L., KARThAUS, P. P. M., et al.
KATAYAMA, Y. See TSUBOKAWA, T., NISHIMOTO, H., et al.
KILKENNY, B. See CHAMBERLAIN, S., ROBINSON, N., et al.
KILLOH, L. G., LEThLEAN, A. K., MORGAN, G., CwTTE, J. E., and HARRIS, M.: An endemic neurological disorder in tribal Australian aborigines, 661
KITAMURA, M. See TSUBOKAWA, T., NISHIMOTO, H., et al.
KOCIS, J. D. See ANGeL, R. W., WAXMAN, S. G., et al.
KORNFELD, M. See DAVIS, L. E., and KORNFELD, M.
KRUZ, Z. L., MOFFETT, A., and SCOTT, D. F.: Platelet monoamine oxidase activity in epilepsy, 68
KUTOIWA, Y. See MOTOMURA, S., TABIRA, T., et al.
Laminectomy, lumbar disc lesion, pseudotabetic pain after, 283
LANCE, J. W., AND ANTHONY, M.: Neck-tongue syndrome on sudden turning of the head, 97
Language comprehension, aural, sound recognition, relationship between, in aphasia, 71
Laryngeal electromyography, surface electrode for (L), 853
Late responses, diagnostic aids in peripheral neuropathy, 156
Lateral asymmetry, Hoffmann reflex, relation to cortical laterality, 831
LAWRENCE, C. M., MILLAC, P., STOUT, G. S., AND WARD, J. W.: The use of choline chloride in ataxic disorders, 452
LAWTON, N. F., AND MACDERMOT, J.: Abnormal regulation of prolactin release in idiopathic Parkinson’s disease, 1012
Learning, after head injury, 525
Lecithin, Friedreich’s ataxia, effects on disability and plasma free-choline levels in, 843
LECKY, B.: Acute bilateral anterior tibial compartment syndrome after Caesarian section in a diabetic, 88
LECKY, B. R. F., MURRAY, N. M. F., AND BERRY, R. J.: Transient radiation myelopathy: spinal somatosensory evoked responses following incidental cord exposure during radiotherapy, 747
Left arm, mirror movements, following peripheral damage to the preferred right arm, 768
Left-handed subjects, amplitude of sensory evoked potentials at wrist, ratio between hands, 182
Left hemisphere damage, ideomotor apraxia and, CAT correlation
Left visual hemifield, colour anomia, after splenial disconnection, 719
Lemniscal and spino-cerebellar inputs, possible interaction based on the effect of hand muscle vibration on the somatosensory evoked potential, 433
Leprosy, peripheral nerves, Nepal, histopathological findings, 198
Levodopa, response fluctuations to, in Parkinsonism, use of deprenyl, 1016
Limb displacement, in Parkinsonism, oscilatory electromyographic responses to, 419
Limbs, upper, mirror movements of left arm following peripheral damage to preferred right arm, 768
Limbs, upper, motor involvement in syringomyelia, single fibre EMG study, 150
LINDSTROM, J.: Experimental autoimmune myasthenia gravis, 568
LINK, H. See STENDAHL-BRODIN, L., AND LINK, H.
Linoleate and arachidonate levels in erythrocytes, in multiple sclerosis, compared with control subjects, 105
Lipids, Friedreich’s ataxia, 111
Lipoproteins, Friedreich’s ataxia, 111
Long thoracic nerve palsy, electrodiagnosis, 50
LOWENADLER, B. See TOYKA, K. V., LOWENADLER, B., et al.
Lumbar disc lesion, laminectomy for, pseudotabetic pain after, 283
Lumbosacral plexus, ischaemic neuropathy of, after intralugal injection, 489
Lupus erythematosus, systemic, cerebral, case report, 357
LUTHER, P., VRBOVÁ, G., AND WARD, K. M.: Effects of slow frequency electrical stimulation on muscles of dystrophic mice, 803
LUXON, L. M.: Hearing loss in brainstem disorders, 510
Lymphocytes, thymus-dependent, sensitised, role in pathogenesis of multiple sclerosis, 305
MACDERMOT, J. See LAWTON, N. F., AND MACDERMOT, J.
MCDougALL, A. C. See PEDLEY, J. C., HARMAN, D. J., et al.
MCGREGOR, B. See GUILLOFF, R. J., MCGREGOR, B., et al.
MCKENNA, P., AND WARRINGTON, E. K.: Testing for nominal dysphasia, 781
MCELLELLAN, D. L. See HASSAN, N., AND MCELLELLAN, D. L.
Macro EMG, 475
MAISEY, D. N., AND COSH, J. A.: Basilar artery aneurysm and Anderson-Fabry disease, 85
MANNING, A. A. See GOODE, D. J., GLENN, S., et al.
MARSACK, F. See HAWTON, K., FOGG, J., et al.
MARSDEN, C. D. Preface to Festschrift for Professor J. A. Simpson, 563
MARSDEN, C. D. See GUILOFF, R. J., GEORGE, R. J., et al.
MARSDEN, C. D. See LEIGH, P. N., ROTHWELL, J. C., et al.
MARSH, S. M. See TAYLOR, D. C., AND MARSH, S. M.
MARTIN, G.: Recurrent pain of a pseudotabetic variety after laminectomy for lumbar disc lesion, 283
MARTIN, J-J. See MERCERES, R., DEMESTER, J., et al.
MARTINELLI, P., MONTAGNA, P., AND GABELLINI, A. S.: Holmes-Adie syndrome (L), 1147
MARX, R. S. See CHALLA, V. R., AND MARX, R. S.
MAUSER, K., FENSKE, A., AND SAMII, M.: Carpal tunnel syndrome combined with trigger finger in early childhood (L), 1148
MAURICE-WILLIAMS, R. S., GORDON, Y. B., AND SYKES, A.: Monitoring fibrinolytic activity in the cerebrospinal fluid after aneurysmal subarachnoid haemorrhage: a guide to the risk of rebleeding, 175
Neuropathology, cerebral arteriovenous malformations in children, 380
Neuropathy, alcoholic, quantitative electrophysiological study, 427
Neuropathy, hereditary motor and sensory, autosomal recessive, 669
Neuropathy, hyperkalaemic paralysis, persistent motor neuron discharges at rest, an Addison’s disease, 818
Neuropathy, ischaemic, lumbar sacral plexus, after intragluteal injection, 489
Neuropathy, peripheral, late responses as diagnostic aids in, 156
Neuropathy, peripheral, spastic paraparesis, and disordered pigmentation, new familial neurocutaneous syndrome, 962
Neuropathy, trigeminal sensory, bilateral carpal tunnel syndrome and, initial manifestation of mixed connective tissue disease
Neuropathological mechanisms, in abnormal reflex activities in cerebral palsy and spinal spasticity, 333
Neuropsychiatric disturbances, folic acid and, in children with epilepsy, 1030
NEWLAND, A. See RAIL, D., STARK, R., et al.
NEWMAN, P. K., CUMMING, W. J. K., and FOSTER, J. B.: Hydrocephalus and tuberculous meningitis in adults, 188
NEWSOM-DAVIES, J. See VINCENT, A., and NEWSOM-DAVIES, J.
NIELSEN, V. K., Ogaard, O., and TROJABORG, W.: Interfascicular neurolysis in chronic ulnar nerve lesions at the elbow; an electrophysiological study, 272
NISHIMOTO, H. See TSUBOKAWA, T., NISHIMOTO, et al.
Nominal dysphasia, testing for, 781
NORDSTROM, C. See RYDEVIK, B., and NORDSTROM, C.
NOVICK, D. See Fuchs, S., BARTFELD, D., et al.
OCHOA, J., and PALLIS, C.: Trichinella thrive in both oxidative and glycolytic human muscle fibres, 281
ODDY, M., and HUMPHREY, M.: Social recovery during the year following severe head injury, 798
OLESEN, J. See TPELT-HANSEN, P., OLESEN, J., et al.
ONACA, P. See CINCA, I., DUMITRESCU, I., et al.
Open-heart surgery, cerebral damage and neurological outcome after, 127
Open-heart surgery, EEG follow-up, 941
Ophthalmoagipy, supranuclear, reversible, associated with Parkinsonism, 552
Orbicularis oculi muscles, silent period, 504
Organic disease, unsuspected, in chronic schizophrenia, demonstrated by computed tomography, 1065
Oscillatory electromyographic responses to limb displacement in Parkinsonism, 419
Oxidative muscle fibres, Trichinella spiralis larvae in, 281
Oxygentifline, Parkinsonism, double-blind trial, 360
Oxyperomide, in tardive dyskinesia, 264

Pain, pseudotabetic, after laminectomy for lumbar disc lesion, 283
Pain, regional guanethidine infusion for, 446
Paint thinner intoxication, chronic, case study, 986
Palmqvist, L., and Partanen, J.: Biting palsy of the accessory nerve, 744
Pallis, C. See ochoa, J., and pallis, C.
Palsy, accessory nerve, caused by biting, 744
Palsy, cerebral, abnormal reflex activities in, neurophysiological mechanisms, 333
Palsy, long thoracic nerve, electrodeagnosis, 50
Pambakian, H. See Barnard, R. O., and Pambakian, H.
Pampillon, D. See Maurice-Williams, R. S., et al.
Paralysis, hyperkalaemic, neuropathy, persistent motor neuron discharge at rest, in Addison's Disease, 818
Paralysis, vocal cord, with distal spinal muscular atrophy, hereditary, 413
Paralyticoplegia congenita, muscle stiffness and weakness in, treatment with tocainide, 268
Paraparesis, spastic, peripheral neuropathy, and disordered pigmentation, new familial neurocutaneous syndrome, 962
Paraplegia, traumatic, spinal cord somatosensory evoked potentials in, 823
Parapinal muscles, reflex responses to, tapping, 1113
Parkes, J. D. See Schachter, M., and Parkes, J.D.
Parkinsonism, action tremor in, 257
Parkinsonism, dementia and, genetic study, 846
Parkinsonism, idiopathic, abnormal regulation of prolactin release in, 1012
Parkinsonism, levodopa, response fluctuations to, use of dephenyl, 1016
Parkinsonism, limb displacement in, oscillatory electromyographic responses to, 419
Parkinsonism, oxygentifline in, double-blind trial, 360
Parkinsonism, reversible supranuclear ophthalmoplegia associated with, 552
Paroxysmal symptoms, first manifestations of multiple sclerosis, 296
Partanen, J. See Palmqvist, L., and partanen, J.
Passive stretch, unopposed, myoelectric silence following, 705
Patterson, V. H., and heron, J. R.: Visual field abnormalities in multiple sclerosis, 205
Payne, J. K., Higgenbottom, T., and Guindi, G. M.: A surface electrode for laryngeal electromyography (L), 853
Peiris, J. B., and Ross Russell, R. W.: Giant aneurysms of the carotid system presenting as visual field defect, 1053
Pérez Conde, M. C. See Cruz Martínez, A., Pérez Conde, M. C., et al.
Peripheral damage, preferred right arm, mirror movements of left arm following, 768
Peripheral Nerve Study Group, 4th Meeting, 11–14 July 1979, 373
Peripheral nerves, leprosy in, Nepal, histopathological findings, 198
Peripheral nervous system, ethyl mercury poisoning, 143
Peripheral nervous system, multiple sclerosis as, evidence from motor unit potential abnormalities, 999
Peripheral neuropathy, late responses as diagnostic aids in, 156
Peripheral neuropathy, spastic paraparesis, and disordered pigmentation, new familial neurocutaneous syndrome, 962
Peripheral somatosensory evoked potentials, in cervical spondylosis, 683
Peripheral somatosensory nerve conduction defects in Friedreich's ataxia, 495
Perucca, E., and Richens, A.: Reversal by phentoin of carbamazepine-induced water intoxication: a pharmacokinetic interaction, 540
Phenobarbitone, epilepsy, previously untreated, 365
Phenytin, reversal of carbamazepine-induced water intoxication, pharmacokinetics, 540
Physiological evaluation, neuromuscular disorders, "turns" analysis in, 1091
Physiological tremor, increased amplitude, effects of changes in segmental stretch reflex, 248
Pigmentation, skin and hair, disordered, spastic paraparesis and peripheral neuropathy, new familial neurocutaneous syndrome, 962
Pituitary tumours, thyrotropin-secreting, causing hyperthyroidism, 1142
Pizotifen, antiserotonin agent, effect on platelet aggregability in migraine, 1138
Plasma, exchange, immunosuppressive therapy and, treatment of myasthenia gravis, anti-acetylcholine receptor antibody titres in serum in, 397
Plasma, exchange, polyneuropathy and (L), 1147
Plasma, free-choline levels, Friedreich's ataxia, effects of lecithin, 843
Plasma, tryptophan levels, effects of dialysis in advanced renal disease, 739
Plasmapheresis, effects in myasthenic syndrome, 483
Platelet aggregability, in migraine, effect of antiserotonin agent, pizotifen, 1138
Platelet monoamine oxidase activity in epilepsy, 68
Pogacar, S.: Dementia paralytica and communicating hydrocephalus (L), 191
Polyneuropathy, acute, post-infectious, plasma exchange and (L), 1147
Post traumatic amnesia, measuring the duration of, 377
Prolactin, release, abnormal, in idiopathic Parkinsonism, 1012
Prolactin, serum levels, after grand mal seizures, 163
Protein, cerebrospinal fluid, elevated, in motor neurone disease, 390
Pullicino, P., Kendall, B. E., and Jakubowski, J.: Difficulties in diagnosis of intracranial meningiomas by computed tomography, 1022
Puvanendran, K., and Wong, F. K.: Idiopathic familial basal ganglia calcification associated with juvenile hypertension (L), 288
Quadriplegia, traumatic, spinal cord somatosensory evoked potentials in, 823
RACHMILEWITZ, E. A. See MAZAL, S., and RACHMILEWITZ, E. A.

Radial nerve, superficial, evaluation techniques, 929
Radiotherapy, incidental spinal cord exposure during, spinal somatosensory evoked responses following, 747
Radiation myelopathy, transient, following incidental cord exposure during radiotherapy, 747

RAIL, D., STARK, R., SWASH, M., and NEWLAND, A.: Plasma exchange and polynuropathy (L), 1147
RATCLIFF, G. See ARTIOLA I FORTUNY, L., BRIGGS, M., et al.
RATTO, S. See ABBRZZESE, G., ABBRZZESE, M., et al.


Reading and writing, mirror, associated with right-left spatial disorientation, 778

REDDemann, H. See CUyERS, J., and REDDemann, H.

Reflex myoclonus, muscle rigidity and, jerking stiff-man syndrome, 1126

Reflex responses, paraspinous muscles, to tapping, 1113

Reflexes, abnormal, in cerebral palsy and spinal spasticity, neurophysiological mechanisms, 333

Refractory period, axonal, single short toe extensor motor units, 917

Renal disease, advanced, plasma and CSF tryptophan and CSF 5-hydroxyindoleacetic acid levels in, effects of dialysis, 739

Reye's syndrome, adult, following influenza A virus infection, 516


RICHENS, A. See PERUCCA, E., and RICHENS, A.


Right arm, preferred, mirror movements of left arm following peripheral damage to, 768

Right-left spatial disorientation, mirror reading and writing, associated with, 778

Rise time, measurement, averaged muscle action potential, in myopathy compared with normal subjects, 56


Rizvi, S. See BROOKS, D. N., AUGHTON, M. E., et al.

ROBINSON, N. See CHAMBERLAIN, S., ROBINSON, N., et al.

ROBINson, N. See Walker, J., Chamberlain, S., et al.


RANDOT, P. See BATHIEN, N., RANDOT, P., et al.


ROSENFALCK, A., and ANDREASSEN, S.: Impaired regulation of force and firing pattern of single motor units in patients with spasticity, 907

ROSENFALCK, A. See ANDREASSEN, S., and ROSENFALCK, A.


ROSS RUSSELL, R. W. See PETRIS, J. B., and ROSS RUSSELL, R. W.


ROWLAND, L. P.: Controversies about the treatment of myasthenia gravis, 644


RUFF, R. L., and RUSSKOFF, L. M.: Catatonia with frontal lobe atrophy, 185

RUSSKOFF, L. M. See RUFF, R. L., and RUSSKOFF, L. M.

RYDEVik, B., and NORDborg, C.: Changes in nerve function and nerve fibre structure by acute graded compression of the rabbit vagus nerve, 690

Saccade reaction time and velocity, effects of induced hyperthermia, in multiple sclerosis, compared with normal subjects, 849

Sachs, C., and KAUSER, L.: Autonomic control of cardiovascular reflexes in narcolepsy, 535

Sacral myeloradiculitis, acute urinary retention in, 954

Sagar, H. J., Davies-Jones, G. A. B., and Allonby, J. D.: Clinical and immunological associations in myasthenia gravis 2.: cell-mediated immunity, 971


Sanes, J. N., and JOSN, J. R.: A silent period in orbicularis oculi muscles of humans, 504

Savage-Marengo, T., Harrison, R., Lunt, G. G., and Behan, P. O.: Patient-specific anti-acetylcholine receptor antibody patterns in myasthenia gravis, 316

Scapuloparoneal syndrome, neurogenic, in children, 888


Schachter, M., and PARKES, J. D.: Fluvoxamine and clonipramine in the treatment of catlepsy, 171

Schizophrenia, chronic, organic disease in, demonstrated by computed tomography, 1065

Schott, G. D.: Mirror movements of the left arm following peripheral damage to the preferred right arm, 768


Sclerosis, multiple, benign course and, low-grade humoral immune response in cerebrospinal fluid, 102

Sclerosis, multiple, depression as symptom of, 861

Sclerosis, multiple, diagnosis, erythrocyte-unsaturated fatty acid mobility test, evaluation, 995

Sclerosis, multiple, flight of colours compared with visually evoked responses in, 550

Sclerosis, multiple, haemorrhagic complications of, 76

Sclerosis, multiple, induced hyperthermia, effects on visual evoked potentials and saccade reaction time and velocity compared with normal subjects, 849

Sclerosis, multiple, lineolate and arachidonate levels in erythrocytes, compared with control subjects, 106

Sclerosis, multiple, motor unit potential abnormalities in, peripheral nervous system defect, evidence for, 999

Sclerosis, multiple, neuro-Bechter's disease, clinical comparative study, 210

Sclerosis, multiple, north-east Scotland, prevalence study, 310

Sclerosis, multiple, paroxysmal symptoms as first manifestations of, 296
Index

Sclerosis, multiple somatosensory evoked potentials and central afferent conduction times in, 948
Sclerosis, multiple, spinal cord stimulation in, 1
Sclerosis, multiple, spinal cord stimulation treatment of, evoked potentials and contingent negative variation, 48
Sclerosis, multiple, T-lymphocytes, sensitised, role in pathogenesis of, 305
Sclerosis, multiple, visual field abnormalities in, 205
Scoliosis, north-east, multiple sclerosis, prevalence study, 310
Segmental stretch reflex changes in, effects on physiological tremor amplitude, 248
Seizures, unilateral neglect after, 1035
Sensory and motor neuropathy, hereditary autosomal recessive, 669
Sensory evoked potentials, amplitude, at wrist, left-handed subjects ratio between hands, 182
Sensory-motor disorders, differential diagnosis, balancing as clinical test in, 407
Sensory nerves, compound action potential amplitude, variation with sex and finger circumference, 925
Serbanescu, A. See Cinca, I., Dumitrescu, I., et al.
Serum anti-acetylcholine receptor antibody titres, in myasthenia gravis treated with plasma exchange combined with immunosuppressive therapy, 397
Serum prolactin and cortisol levels, after grand mal seizures, 163
Sex, indoleamine metabolism and, 438
Sex, sensory nerve compound action potential amplitude, variation with, 925
Shahani, B. T. See Lachman, T., Shahani, B. T., et al.
Shallace, T., and Coughlan, A. K.: Modality specific word comprehension deficits in deep dyslexia, 866
Shenoy, K. T., Saha, P. K., and Ravindran, M.: Carpal tunnel syndrome: an unusual presentation of brachial hypertrophy, 82
Shepherd, D. I., and Downie, A. W.: A further prevalence study of multiple sclerosis in north-east Scotland, 310
Shuangshoti, S.: Melanotic mucin-producing neuro-epithelial neoplasm of mesencephalon with consideration of similar tumours in other locations, 810
Sivola, J.: Estimation of the brain and spinal cord conduction time in man by means of the somatosensory evoked potential and F and H responses, 1103
Silent period, myoelectric, following unopposed passive muscle stretch, 705
Silent period, orbicularis oculi muscles, 504
Simons, A. J.: Measurement of rise time of averaged muscle action potential in normal subjects and patients with myopathy, 56
Simpson, Professor J. A., appreciations, 564, 566
Simpson, Professor, J. A., Festschrift, 561
Sinclair, D. C. See Bruce, M. F., and Sinclair, D. C.
Sinusoidal waveform forces, square waveform forces, compared as measures of muscle tone in decerebrate rigidity, 25
Siskind, M. M. See Whitlock, F. A., and Siskind, M. M.
Skeletal muscle, ethyl mercury poisoning, 143
Skin pigmentation, disordered, spastic paraparesis, and peripheral neuropathy, new familial neurocutaneous syndrome, 962
Slow frequency electrical stimulation, effects on muscles in muscular dystrophy, 803
Smooth-pursuit eye movements, in epilepsy, compared with healthy subjects, 1120
Social recovery, during the year following severe head injury, 798
Somatosensory conduction times in cervical spondylosis, 683
Somatosensory evoked potentials, brain and spinal cord conduction times, estimated by, 1103
Somatosensory evoked potentials, effect of hand muscle vibration, possible interaction between lemniscal and spino-cerebellar inputs, 433
Somatosensory evoked potentials, multiple sclerosis, 948
Somatosensory evoked potentials, peripheral, cervical, cortical, in cervical spondylosis, 683
Somatosensory evoked potentials, spinal, in transient radiation myelopathy, following incidental cord exposure during radiotherapy, 747
Somatosensory evoked potentials, spinal cord, in traumatic paraplegia and quadriplegia, 823
Somatosensory nerve conduction defects, peripheral and central, in Friedreich's ataxia, 495
Sotaniemi, K. A.: Brain damage and neurological outcome after open-heart surgery, 127
Sotaniemi, K. A.: Clinical and prognostic correlates in open-heart surgery patients, 941
Sound recognition, aural language comprehension, relationship between, in aphasia, 71
Spastic paraparesis, peripheral neuropathy and disordered pigmentation, new familial neurocutaneous syndrome, 962
Spasticity, single motor units in, impaired regulation of force and firing pattern, 907
Spasticity, spinal, abnormal reflex activities in, neurophysiological mechanisms, 333
Spasticity, suppression of, DS103–282, baclofen, and placebo in, double-blind comparison, 1133
Spatial disorientation, right-left, mirror reading and writing, associated with, 778
Spencer, W. A. See Dimitrijevic, M. R., Gregoric, M. R.
Sphincter muscle, anal, external, increased motor unit fibre density, in ano-rectal incontinence, single fibre EMG study, 343
Spinal cord, central grey matter, infarction, following hypertension, 751
Spinal cord, conduction times, estimated by somatosensory evoked potentials and F and H responses, 1103
Spinal cord, exposure, incidental, during radiotherapy, spinal somatosensory evoked responses following, 747
Spinal cord, stimulation, multiple sclerosis treatment, evoked potentials and contingent negative variation in, 15
Index

Training after head injury, 525
TREBANI, F. See FABIANI, A., TREBINI, F., et al.
Tremor, action, in Parkinsonism, 257
Tremor, induced by muscle twitch, inhibition and synchronisation of, 713
Tremor, physiological, increased amplitude, effects of changes in segmental stretch reflex, 248
Trichinella spiralis, larvae, muscle fibre types, no prediction for, 281
Trigeminal sensory neuropathy, bilateral carpal tunnel syndrome and, initial manifestation of mixed connective tissue disease, 458
Trigger finger, carpal tunnel syndrome and, in childhood (L), 1148
TROJABORG, W. See NIELSEN, V. K., OSGAARD, O., et al.
Tryptophan, 5-hydroxyindoleacetic acid, and indoleacetic acid in cerebrospinal fluid, interrelationships, 438
Tryptophan, plasma and CSF levels, effects of dialysis in advanced renal disease, 739
TSUBOKAWA, T., NISHIMOTO, H., YAMAMOTO, T., KITAMURA, M., KATAKAMA, Y., and MORIYASU, N.: Assessment of brainstem damage by the auditory brainstem response in acute severe head injury, 1005
Tuberculous meningitis, and hydrocephalus, in adults, 188
Tumours, melanotic, neuroepithelial, mesencephalic, mucin-producing, 810
“Turns” analysis, physiological evaluation, neuro muscular disorders, 1091
Two-point discrimination, finger, relationship with histology, 235
TWOMEY, J. A., and ESPIR, M. L. E.: Paroxysmal symptoms as the first manifestations of multiple sclerosis, 296

Ulnar-median nerve communications, hereditary aspects, 53
Ulnar nerve lesions, elbow, interfascicular neurolysis for, 272
Unilateral neglect, seizure-induced, 1035
Urinary retention, acute, sacral myeloradicularitis in, 954
UZIEL, G. See FRANCESCHETTI, S., UZIEL, G., et al.

Vagus nerve, graded compression, inducing axonal transport blockade, 690
VALENTE, A. R., MOSELEY, I. F., and KENDALL, B. E.: White matter abnormality in cerebral atrophy: clinicoradiological correlations, 139
VAN HOUZEN, R. N. See VINCENT, F. M., and VAN HOUZEN, R. N.
VAQUERO, J., CABEZUDO, J. M., and LEUNDA, G.: Symptomatic cyst of choroid plexus of the lateral ventricle (L), 55
VARNEY, N. L.: Sound recognition in relation to aural language comprehension in aphasic patients, 71

Vascular lesions, vertebrobasilar territory, computed tomography evaluation of, 193
Vascular reflexes, abnormal, in Charcot-Marie-Tooth disease, 348
Vasospasm, cerebral, hypercalcaemia and, causing cerebral infarction, 464
VEILIS, B. See TFELT-HANSEN, P., OLESEN, J., et al.
VENENSTE, J. A. L., KARThaus, P. P. M., and DAVIES, G.: Acute urinary retention due to sacral myeloradicularitis, 954
Ventricular, lateral, choroid plexus, symptomatic cyst (L), 555
Vertebrobasilar territory, vascular lesions of, computed tomography evaluation, 193
Vibration, hand muscle, effect on somatosensory evoked potentials, possible interaction between lemniscal and spino-cerebellar inputs, 433
VILCHEZ, J. J., CABELLO, A., BENEDITO, J., and VILLARROYA, T.: Hyperkalaemic paralysis and persistent motor neuron discharges at rest in Addison’s disease, 818
VINCENT, A., and NEWSOM-DAVIES: Anti-acetylcholine receptor antibodies, 590
VINCENT, F. M., and VAN HOUZEN, R. N.: Trigeminal sensory neuropathy and bilateral carpal tunnel syndrome: the initial manifestation of mixed connective tissue disease, 458
Visual evoked potentials, effects of induced hypothermia, in multiple sclerosis, compared with normal subjects, 849
Visual evoked responses, compared with flight of colours, in multiple sclerosis, 550
Visual field abnormalities, multiple sclerosis, 205
Visual field defect, giant aneurysms of the carotid system presenting as, 1053
Visual hemifield, left, colour anomia, after splenial disconnexion, 719
Vocal cord paralysis, with distal spinal muscular atrophy, hereditary, 413
Volume-pressure relationships, intracranial, effects of hypercapnia and arterial hypotension and hypertension, 222
VON CRAMON, J. See ZIHL, J., and VON CRAMON, J.
VROBOVÁ, G. See LUTHERT, P., VROBOVÁ, G., et al.

WALKER, J. L., CHAMBERLAIN, S., and ROBINSON, N.: Lipids and lipoproteins in Friedreich’s ataxia, 111
WALKER, J. L. See CHAMBERLAIN, S., ROBINSON, W., et al.
WALTON, J.: Professor J. A. Simpson—an appreciation, 564
WARD, C. D., KARSH, J., and CALNE, D. B.: Cranial herpes zoster: a case report and a hypothesis (L), 1146
WARRINGTON, E. K. See MCKENNA, P., and WARRINGTON, E. K.
Water intoxication, carbamazepine-induced, reversal by phenytoin, 540
WAUDBY, H. See PEDLEY, J. C., HARMAN, D. J., et al.
WAXMAN, S. G. See ANGEI, R. W., WAXMAN, S. G., et al.
WEIR, A. I., HANSEN, S., and BALLANTYNE, J. P.: Motor unit potential abnormalities in multiple sclerosis: further evidence for a peripheral nervous system defect, 999
White matter low attenuation, in cerebral atrophy, 139
WHITLOCK, F. A., and SISKIND, M. M.: Depression as a major symptom of multiple sclerosis, 861
WHITTY, C. W. M.: Dopamine receptor enhancement (L), 1146
WILLIAMS, A. C., LEVINE, R. A., CHASE, T. N., LOVENBERG, W., and CALNE, D. B.: CSF hydroxylase cofactor levels in some neurological diseases, 735
WILLIAMSON, P. M. See WALKER, G. L., WILLIAMSON, P. M., et al.
WONG, P. K. See PUVAINEANDRAN, J., and WONG, P. K.
Word comprehension deficits, modality-specific, in deep dyslexia, 866
Wrist, sensory evoked potentials, amplitude, left-handed subjects, ratio between hands, 182
Writing and reading, mirror, associated with right-left spatial disorientation, 778
YEMM, R. See LEWIS, G. R., PILCHER, R., et al. Yersinia enterocolitica, meningitis, pathology, 455
YOUNG, I. D., and HARPER, P. S.: Hereditary distal spinal muscular atrophy with vocal cord paralysis, 413
YOUNG, R. R., and HAGBARTH, K. E.: Physiological tremor enhanced by manoeuvres affecting the segmental stretch reflex, 248
YOUNG, S. N., GAUTHIER, S., ANDERSON, G. N., and PURDY, W. C.: Tryptophan, 5-hydroxyindoleacetic acid and indoleacetic acid in human cerebrospinal fluid: interrelationships and the influence of age, sex, epilepsy, and anticonvulsant drugs, 438
ZIHL, J., and VON CRAMON, D.: Colour anomia restricted to the left visual hemifield after splenial disconnexion, 719
ZILKHA, E. See MERORY, J., THOMAS, D. J., et al.
Contents

No 3 MARCH 1980

Evaluation of computed tomography in vascular lesions of the vertebrobasilar territory D P E KINGSLEY, E W RADUE, AND E P G H DU BOULAY .......................................................... 193
Leprosy in peripheral nerves: histological findings in 119 untreated patients in Nepal J C PEDLEY, D J HARMAN, H WAUDBY, AND A C MCDOUGALL .................................................. 198
Visual field abnormalities in multiple sclerosis V H PATTERSON AND J R HERON .................................................. 205
A clinical comparative study of multiple sclerosis and neuro-Behçet's syndrome S MOTOMURA, T TABIRA, AND Y KUROWA .......................................................... 210
Cerebral blood flow after surgery for recent subarachnoid haemorrhage J MERY, D J THOMAS, P R D HUMPHREY, G H DU BOULAY, JOHN MARSHALL, R W ROSS RUSSELL, LINDSAY SYMON, AND E ZILKHA .................................................. 214
Effects of hypercapnia and arterial hypotension and hypertension on cerebrospinal fluid pulse pressure and intracranial volume-pressure relationships C J J AVEZAAT, J H M VAN EIJNDHOVEN, AND D J WYPER .................................................. 222
The relationship between tactile thresholds and histology in the human finger M F BRUCE AND D G SINCLAIR .................................................. 235
Relative changes with contraction in the central excitability state of the tibialis anterior and calf muscles MORRIS A FISHER .......................................................... 243
Physiological tremor enhanced by manoeuvres affecting the segmental stretch reflex ROBERT R YOUNG AND KARL-ERIK HAGBARTH .................................................. 248
Action tremor in Parkinson's disease H TERÅVÄINEN AND D B CALNE .................................................. 257
Oxipentifyline in tardive dyskinesia DANIEL E CASEY AND JES GERLACH .................................................. 264
Successful treatment of paramyotonia congenita (Eulenburg): muscle stiffness and weakness prevented by tocainide K RICKER, A HAASS, R RÜDDEL, R BÖHLEN, AND H G MERTENS .................................................. 268
Interfascicular neurolysis in chronic ulnar nerve lesions at the elbow: an electrophysiological study VIGO KAMP NIelsen, OLLE OSGAARD, AND WERNER TROJABORG .................................................. 272
Trichinella thrives in both oxidative and glycolytic human muscle fibres JOCHOA AND C PALLIS .................................................. 281
Recurrent pain of a pseudotabetic variety after laminectomy for lumbar disc lesion GRAHAM MARTIN .................................................. 283
Transient global amnesia—a hippocampal phenomenon ? J L PONSFORD AND G A DONNAN .................................................. 285
Letter and Book reviews .................................................. 288

No 4 APRIL 1980

Treatment for severe head injury B JENNETT, G TEASDALE, J FRY, R BRAAKMAN, J MINDERHOUD, J HEIDEN, AND T KURZE .................................................. 289
Paroxysmal symptoms as the first manifestations of multiple sclerosis J A TWOMEY AND M L ESPIR .................................................. 296
On the role of sensitised T-lymphocytes in the pathogenesis of multiple sclerosis ALAN TURNER, M L CUZNER, A N DAVISON, AND PETER RUDGE .................................................. 305
A further prevalence study of multiple sclerosis in north-east Scotland D I SHEPHERD AND ALLAN W DOWNIE .................................................. 310
Patient-specific anti-acetylcholine receptor antibody patterns in myasthenia gravis THERESE SAVAGE-MARENGO, ROGER HARRISON, GEORGE G LUNT, AND PETER O BEHAN .................................................. 316
Clonus: the role of central mechanisms M R DIMITRIJEVIC, P W NATHAN, AND A M SHERWOOD .................................................. 321
Neurophysiological mechanisms in abnormal reflex activities in cerebral palsy and spinal spasticity G BAROLAT-ROMANA AND ROSS DAVIS .................................................. 333
Increased motor unit fibre density in the external sphincter muscle in ano-rectal incontinence: a single fibre EMG study M E NEILL AND M SWASH .................................................. 343
Abnormal vascular reflexes in Charcot-Marie-Tooth disease A P BROOKS .................................................. 348
Posterior callosal section in a non-epileptic patient ANTONIO R DAMASIO, HELENA C CHUI, JAMES CORBETT, AND NEAL KASSEL .................................................. 351
SHORT REPORTS
Cerebral systemic lupus erythematosus: a case report and evaluation of diagnostic tests R A HAZELTON, ALISON C REID, AND P J ROONEY .................................................. 357
Oxpentifyline in Parkinson's disease R B GODWIN-AUSTEN, J A TWOMEY, G HANKS, AND J HIGGINS .................................................. 360
Phenobarbitone in previously untreated epilepsy MORGAN FEELY, M O'CALLAGAN, B DUGGAN, AND N CALLAGHAN .................................................. 365
A double blind study of metoclopramide in the treatment of migrainous attacks P TFEIT-HANSEN, J OLESEN, A AEBELHOLT-KRABBE, B MELGAARD, AND B VEILS .................................................. 369
Letter and Book reviews .................................................. 372
Contents

No 5 May 1980

Measuring the duration of post traumatic amnesia L ARTIOLA I FORTUNY, M BRIGGS, F NEWCOMB, G RATCLIFF, AND C THOMAS ......................................................... 377
Neuropathology of cerebral arteriovenous malformations in children S TAKASHIMA AND L E BECKER .................. 380
Self-induction of epileptic seizures by eyeclosure: incident and recognition C D BINNIE, C E DARBY, R DE KORTE, AND A J WILKINS ............................................. 386
Motor neurone disease with elevated cerebrospinal fluid protein R J GUILOFF, B MCGREGOR, E THOMPSON, W BLACKWOOD, AND E PAUL .................................. 390
Anti-acetylcholine receptor antibody titres in the sera of myasthenia patients treated with plasma exchange combined with immunosuppressive therapy BARBARA CARTER, ROGER HARRISON, GEORGE G LUNT, PETER O BEHAN, AND JOHN A SIMPSON ........................................... 397
Bilateral basal calcifications visualised on CT scan T S BRANNAN, A A BURGER, AND M Y CHAUDHARY .......... 403
Balancing as a clinical test in the differential diagnosis of sensory-motor disorders K H MAURITZ, V DIETZ, AND M HALLER ...................................................................................... 407
Hereditary distal spinal muscular atrophy with vocal cord paralysis I D YOUNG AND P S HARPER ..................... 413
Oscillatory electromyographic responses to limb displacement in Parkinsonism H T ERVAINEN ..................... 419
Quantitative electrophysiological study of alcoholic neuropathy JOHN P BALLANTYNE, STIG HANSEN, ANDREW WEIR, JOHN R G WHITEHEAD, AND PATRICK J MULLIN ............................................ 427
The effect of hand muscle vibration on the somatosensory evoked potential in man: an interaction between lemniscal and spinocerebellar inputs G ABBRUZZESE, M ABBRUZZESE, E FAVALE, MIVALDI, M LEANDRI, AND S Ratto Tryptophan, 5-hydroxyindoleacetic acid and indoleacetic acid in human cerebrospinal fluid: interrelationships and the influence of age, sex, epilepsy and anticonvulsant drugs SIMON N YOUNG, SERGE GAUTHIER, GEORGE M ANDERSON, AND WILLIAM C PURDY ........................................... 438
Effects of regional guanethidine infusion in certain painful states L LOH, P W NATHAN, G D SCHOTT, AND P G WILSON .............................................................................. 446
The use of choline chloride in ataxic disorders C M LAWRENCE, P MILLAG, G S STOUT, AND J W WARD ......................................................................................... 452
Pathology of Yersinia enterocolitica meningitis V R CHALLA AND R S MARX ................................................................. 455
Trigeminal sensory neuropathy and bilateral carpal tunnel syndrome: the initial manifestation of mixed connective tissue disease F M VINCENT AND R N VAN HOUZEN ........................................ 458
Confabulation and frontal lobe dysfunction NARINDER KAPUR AND A K COUGHLAN ........................................ 461
Hypercalcaemia associated with cerebral vasospasm causing infarction G L WALKER, P M WILLIAMSON, R B M RAVICH, AND J ROCHE ....................................................................................... 464
Book reviews ......................................................................................................................................................... 468

No 6 June 1980

Electrophysiological cross section of the motor unit E STÄLBERG AND L ANTONI .................................................. 469
Macro EMG: a new recording technique E STÄLBERG .......................................................................................... 475
Myasthenic syndrome: effect of choline, plasmanpheresis and tests for circulating factor HENRYK KRANZ, DAVID J CADDY, ANDREW M WILLIAMS, AND WANSOON GAY .................... 483
Ischaemic neuropathy of the lumbosacral plexus following intraluminal injection M STÖHR, J DICHAENS, AND D DÖRSTEMANN ...................................................... 489
Peripheral and central somatosensory nerve conduction defects in Friedreich's ataxia S J JONES, M BARAITSER, AND A M HALLIDAY ..................................................................................... 495
A silent period in orbicularis oculi muscles of humans JEROME N SANES AND JAMES RISON ........................................ 504
Hearing loss in brainstem disorders LINDA M LUXON .................................................................................... 510
Influenza A virus and Reye's syndrome in adults LARRY J DAVIS AND MARIO KORNFIELD ....................... 516
Computed tomography in aneurysmal subarachnoid haemorrhage B A BELL, B E KENDALL, AND LINDSAY SYMON .......................................................................... 522
The training characteristics of severely head-injured patients: a preliminary study EDGAR MILLER .................. 525
Cognitive sequelae in relationship to early indices of severity of brain damage after severe blunt head injury DN BROOKS, M E AUGHTON, M R BOND, P JONES, AND S RIZVI .......................................................................................................................... 529
Autonomic control of cardiovascular reflexes in narcolepsy CHARLOTTE SACHS AND LENNART KAISER ........... 535
Reversal by phenytoin of carbamazepine-induced water intoxication: a pharmacokinetic interaction E PERUCCA, AND A RICHIEN ....... 540
Mitochondrial functions in chronic spinal muscular atrophy J M GOBERNADO, M GONZALEZ, C CORTINA, M LOUSA, C RIVA, AND A GIMENO ........................................ 546
A comparison of flight of colours with visually evoked responses in patients with multiple sclerosis SONIA SWART AND MILLAC ........................................................................ 550
Reversible supranuclear ophthalmoplegia associated with Parkinsonism R J GUILOFF, R J GEORGE, AND C D MARSDEN ............................................................................. 552
Letter ................................................................................................................................................. 555
Book reviews ..................................................................................................................................................... 556
### Contents

**No 9 SEPTEMBER 1980**

<table>
<thead>
<tr>
<th>Editorial</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>HISTORICAL COMMENTARY</td>
<td>757</td>
</tr>
<tr>
<td>Hughlings Jackson's Dr Z: the paradigm of temporal lobe epilepsy revealed DAVID C TAYLOR and SUSAN M MARSH</td>
<td>758</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ORIGINAL ARTICLES</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mirror movements of the left arm following peripheral damage to the preferred right arm G D SCHOTT</td>
<td>768</td>
</tr>
<tr>
<td>Mirror-reading and writing in association with right–left spatial disorientation KENNETH M HEILMAN, GREGORY HOWELL, EDWARD VALENSTEIN, and LESLIE ROTH</td>
<td>774</td>
</tr>
<tr>
<td>Testing for nominal dysphasia PAT MCKENNA and ELIZABETH K WARRINGTON</td>
<td>781</td>
</tr>
<tr>
<td>Delayed-onset dystonia in patients with “static” encephalopathy ROBERT E BURKE, STANLEY FAHN, and ARNOLD P GOLD</td>
<td>789</td>
</tr>
<tr>
<td>Social recovery during the year following severe head injury MICHAEL ODDY and MICHAEL HUMPHREY</td>
<td>798</td>
</tr>
<tr>
<td>Effects of slow frequency electrical stimulation on muscles of dystrophic mice P LUTHER, G VROVÁ, and K M WARD</td>
<td>803</td>
</tr>
<tr>
<td>Melanotic mucin-producing neuroepithelial neoplasm of mesencephalon with consideration of similar tumours in different locations SAMRUY SHUANSHOTI</td>
<td>810</td>
</tr>
<tr>
<td>Hyperkalaemic paralysis, neuropathy and persistent motor neuron discharges at rest in Addison's disease JUAN J VILCHEZ, ANA CABELO, JUAN BENEDITO, and TERESA VILLARROYA</td>
<td>818</td>
</tr>
<tr>
<td>Spinal-cord potentials in traumatic paraplegia and quadriplegia E M SEGOWICK, E EL-NEGAMY, and H FRANKEL</td>
<td>823</td>
</tr>
<tr>
<td>Lateral asymmetry of the Hoffmann reflex: relation to cortical laterality DAVID J GOODE, STEPHANIE GLENN, ALEXANDER A MANNING, and JOHN F MIDDLETON</td>
<td>831</td>
</tr>
<tr>
<td>Passively transferred myasthenic IgG: protection of mouse endplates by Fab fragments from human human myasthenic IgG K V TOYKA, B LÖWENADLER, K HEININGER, U A BESINGER, K L BIRNBERGER, A FATEH-MOGHADAM, and E HEILBRONN</td>
<td>836</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SHORT REPORTS</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effect of lecithin on disability and plasma free-choline levels in Friedreich's ataxia SUSAN CHAMBERLAIN, NORMAN ROBINSON, JANET WALKER, CHRISTINE SMITH, SARAH BENTON, CHRISTOPHER KENNARD, MICHAEL SWASH, BUNNY KILKENNY, and SUSAN BRADBURY</td>
<td>843</td>
</tr>
<tr>
<td>Dementia associated with Parkinson's disease: a genetic study LEONARD L HESTON</td>
<td>846</td>
</tr>
<tr>
<td>Effects of induced hyperthermia on visual evoked potentials and saccade parameters in normal subjects and multiple sclerosis patients S BAJADA, F L MASTAGLIA, J L BLACK, and D W K COLLINS</td>
<td>849</td>
</tr>
<tr>
<td>Letter</td>
<td>853</td>
</tr>
<tr>
<td>Book reviews</td>
<td>854</td>
</tr>
</tbody>
</table>

**No 10 OCTOBER 1980**

| Depression as a major symptom of multiple sclerosis F A WHITLOCK and M M SISKIND | 861 |
| Modality specific word comprehension deficits in deep dyslexia TIM SHALLICE and ANTHONY K COUGHLAN | 866 |
| Human cerebral asymmetries evaluated by computed tomography H CHANG CHUI and A R DAMASIO | 873 |
| Surgical mortality in an aneurysm population: effects of age, blood pressure and preoperative neurological state L ARTIOLA I FORTUNY, C B ADAMS, and M BRIGGS | 879 |
| Central nervous system complications of mycoplasma pneumoniae G DECAUX, M SZYPER, M ECTORS, A CORNIL, and L FRANKEN | 883 |
| Neurogenic scapuloperoneal syndrome in childhood RUDOLF MERCELIS, JOHAN DEMEESTER, and JEAN-JACQUES MARTIN | 888 |
| Regulation of the firing pattern of single motor units STEEN ANDREASSEN and ANNELISE ROSENFALCK | 897 |
| Impaired regulation of force and firing pattern of single motor units in patients with spasticity ANNELISE ROSENFALCK and STEEN ANDREASSEN | 907 |
| Axonal refractory period of single short toe extensor motor units in man JÖRGEN BORG | 917 |
| Human sensory nerve compound action potential amplitude: variation with sex and finger circumference CHARLES F BOLTON and KRISTINE M CARTER | 925 |
| The superficial radial nerve: techniques for evaluation J F CRITCHLOW, M E SEYBOLD, and C J JABLECKI | 929 |
| Cherry-red spot myoclonus syndrome and s-neuraminidase deficiency: neuropathological, pharmacological and biochemical study in an adult S FRANCESCHETTI, G UZIEL, S DI DONATO, L CAIPI, and G AVANZINI | 934 |
| Clinical and prognostic correlates of EEG in open-heart surgery patients K A SOTANIEMI | 941 |
| Somatosensory evoked responses and central afferent conduction times in patients with multiple sclerosis TROND GANES | 948 |
| Acute urinary retention due to sacral myeloradiculitis JAN A L VANNESTE, PETER P M KARThAUS, and GARETH DAVIES | 954 |
The treatment of raised intracranial pressure following aneurysm surgery M R FEARNSIDE AND C B T ADAMS
Disordered pigmentation, spastic paraparesis and peripheral neuropathy in three siblings: a new neurocutaneous syndrome A ABDALLAT, S M DAVIS, J FARRAGE, AND W I MCDONALD
Clinical and immunological associations in myasthenia gravis 1: autoantibodies H J SAGAR, K GELSTORPE, A MILFORD-WARD, AND G A B DAVIES-JONES
Clinical and immunological associations in myasthenia gravis 2: cell-mediated immunity H J SAGAR, G A B DAVIES-JONES, AND I D ALLONBY
Eaton-Lambert syndrome: a clinical and electrophysiological study of a patient treated with 4-aminopyridine DONALD B SANDERS, YONG I KIM, JAMES F HOWARD JR, AND C ALLEN GOETZSCH
Chronic thinner intoxication: clinico-pathologic report of a human case ALFONSO ESCOBAR AND CRISTINA ARUFFO
Evaluation of the erythrocyte-UFA (E-UFA) mobility test for the diagnosis of multiple sclerosis J CYPPERS AND H REDDEMAN
Motor unit potential abnormalities in multiple sclerosis: further evidence for a peripheral nerves system defect ANDREW I WEIR, STIG HANSEN, AND JOHN P BALLANTYNE
Assessment of brainstem damage by the auditory brainstem response in acute severe head injury TAKASHI TSUBOKAWA, HIROSHI NISHIMOTO, TAKAMITSU YAMAMOTO, MORIHIKO ITAMURA, YOICHI KATAYAMA, AND NOBUO MORIYASU
Abnormal regulation of prolactin release in idiopathic Parkinson's disease N F LAWTON AND J MACDERMOT
Deprenyl in the management of response fluctuations in patients with Parkinson's disease on levodopa M SCHACHTER, C D MARSDEN, J D PARKES, P JENNER, AND B TESTA
Difficulties in diagnosis of intracranial meningiomas by computed tomography P PULICINO, B E KENDALL, AND J JAKUBOWSKI
Folic acid and mental symptoms in children with epilepsy MICHAEL R TRIMBLE, JOHN A CORBETT, AND DAVID DONALDSON
Seizure-induced neglect KENNETH M HEILMAN AND GREGORY J HOWELL

SHORT REPORTS
Astrocytic differentiation in medulloblastoma R O BARNARD AND H PAMBKIAN
Intramedullary abscess—a rare complication of spinal dysraphism R S MAURICE-WILLIAMS, D PAMPHILON AND H B COAKHAM
Book reviews
Notice

No 12 DECEMBER 1980

Giants aneurysms of the carotid system presenting as visual field defect J B PEIRS AND R W ROSS RUSSELL
Unsuspected organic disease in chronic schizophrenia demonstrated by computed tomography D G CUNNINGHAM OWENS, E C JOHNSTONE, G M BYDDER, AND L KREEL
Changes in nerve function and nerve fibre structure induced by acute, graded compression B RYDEVIK AND C NORDBOG
A technique for anodally blocking large nerve fibres through chronically implanted electrodes G S BRINDLEY AND M D CRAGGS
"Turns" analysis in the physiological evaluation of neuromuscular disorders H A GARCIA, H S MILNER-BROWN, AND M A FISHER
A study of the incidence of epilepsy following ECT D H R BLACKWOOD, R E CULL, C P L FREEMAN, J J EVANS, AND C M AWDSLEY
Estimation of the brain and spinal cord conduction time in man by means of the somatosensory evoked potentials and F and H responses J SIVOLA
Reflex responses of paraspinal muscles to tapping M R DIMITRIJEVIC, M R GREGORIC, A M SHERWOOD, AND W A SPENCER
Quantitative assessment of smooth-pursuit eye movements in healthy and epileptic subjects P BITTENCOURT, M A GRESTY, AND A RICHERS
A patient with reflex myoclonus and muscle rigidity: "jerking stiff-man syndrome" P N LEIGH, J C ROTHWELL, M TRAUB, AND C D MARSDEN
Double-blind comparison of single doses of DS103-282, baclofen and placebo for suppression of spasticity N HASSAN AND D L MCLELLAN
The effect of an antiserotonin agent pizotifen on platelet aggregability in migraine patients S MAZAL AND E A RACHMILEWITZ

SHORT REPORT
Thyrotropin secreting pituitary tumours: a cause of hyperthyroidism IBRAHIM S SALTI, NUHA NUWAYRI-SALTI, RONALD A BERGMAN, SAMI I NASARI, KAMEL F MUAKKASAH AND ITAF FAKHRISAHLI

Letters
Book reviews and notice
Index to volume 43