

It is surprising to find that the prognosis in spinal epidural abscess is potentially much worse than with intramedullary abscess, if presenting as a syndrome of disease of the spinal cord. Hulme and Dott (1954) came to the conclusion from the literature and from their own material that once conduction in the spinal cord becomes seriously affected in cases of spinal epidural abscess it is already too late for successful treatment, even though in some acute cases the opportunity be lost by only a matter of hours. In contrast, almost complete paraplegia had been present for three days in our case of intramedullary abscess, and for much longer in other published cases in which recovery ensued after operation. The patients in all four of the successful reported cases were able to walk within three months of operation. Presumably the indolence of the infection contributed to the good results in these cases and in the one described here.

#### Summary

A case of intramedullary abscess in the thoracic part of the spinal cord is described. The infecting organism was *B. fusiformis* of presumed but

unproven pulmonary origin. Laminectomy and drainage of the abscess was successful.

We are indebted to Dr. Beryl Corner, F.R.C.P., for referring the patient; to Dr. J. G. C. Spencer and the Bristol University Department of Bacteriology for their investigations; to Dr. L. Mandelbaum and Mr. E. Dutton for assistance with translations; and to Mr. L. G. Banham for the photography. The illustration Fig. 4 appears by courtesy of the editor of *Brain*.

#### REFERENCES

- Abeshouse, B. S., and Bogorad, D. E. (1935). *Urol. cutan. Rev.*, 39, 295.  
 Alessi, D., and Fasiani, G. M. (1940). *Arch. Psychiat. Nevenkr.*, 111, 695.  
 Altenburger, H. (1937). *Nervenarzt*, 10, 96.  
 Ameli, N. O. (1948). *Brit. med. J.*, 2, 138.  
 Arzt, P. K. (1944).\* *Arch. Neurol. Psychiat., Chicago*, 51, 533.  
 Cassirer, R. (1903). *Arch. Psychiat. Nervenkr.*, 36, 153.  
 Cavazzani, G. (1899). *Riv. venet. Sci. med.*, 30, 481.  
 Dubreuilh, W. (1886-87). *J. Méd. Bordeaux*, 16, 352.  
 Hart, J. (1830). *Dublin Hosp. Rep.*, 5, 522.  
 Hitchcock, C. W. (1917). *J. Amer. med. Ass.*, 68, 1318.  
 Hoche, A. (1899). *Arch. Psychiat. Nervenkr.*, 32, 209, 975.  
 Hulme, A., and Dott, N. M. (1954). *Brit. med. J.*, 1, 64.  
 Moersch, F. P. (1922). *Arch. Neurol. Psychiat., Chicago*, 7, 745.  
 Nonne, M. (1926). *Z. Hals-, Nasen-, u. Ohrenheilk.*, 13, 574.  
 Sittig, O. (1927). *Z. ges. Neurol. Psychiat.*, 107, 146.  
 Urechia, C. I. (1935). *Bull. Mém. Soc. méd. Hôp. Paris*, 51, 809.  
 Walker, R. M., and Dyke, S. C. (1936). *Lancet*, 1, 1413.  
 Woltman, H. W., and Adson, A. W. (1926). *Brain*, 49, 193.  
 \* Review of cases reported up to 1944.

---

## THE AUGUST (1954) ISSUE

The August (1954) issue contains the following papers :—

- The Toxic Effects of Tri-ortho-cresyl Phosphate on the Nervous System : An Experimental Study in Hens.** J. B. Cavanagh.  
**Mental Disturbances in Tuberculous Meningitis.** Moyra Williams and Honor V. Smith.  
**Repetitive Discharges from Human Motor Nerves after Ischaemia and Their Absence after Cooling.** William Cobb and John Marshall.  
**Angiographic Diagnosis of Vertebral Artery Thrombosis.** A. van der Zwan.  
**A Contribution to the Genetics of Gargoylism.** Robert C. Cunningham.  
**A Persisting Change in Palmar Sweating Following Prefrontal Leucotomy.** Alick Elithorn, Malcolm F. Piercy, and Margaret A. Crosskey.  
**The Effect of Cardiazol Convulsions on the Distribution and Activity of Some Phosphatases in the Area Postrema of the Rat.** Jorge A. Insua and D. Naidoo.  
**A Case of Clinical Juvenile Amaurotic Idiocy with the Histological Picture of Alzheimer's Disease.** Aa. Christie Löken and K. Cyvin.  
**Symptoms of Anxiety and Tension and the Accompanying Physiological Changes in the Muscular System.** Peter Sainsbury and J. G. Gibson.  
**An Intrasplenic Dermoid Cyst Associated with Another in the Ovary.** B. Ramamurthi and V. C. Anguli.  
**The Production of Gamma-globulin in the Central Nervous System.** E. O. Field.

A number of copies are still available and may be obtained from the Publishing Manager, British Medical Association, Tavistock Square, W.C.1, price 12s. 6d.



## INDEX OF AUTHORS AND SUBJECTS

### A

- Abscess, intramedullary spinal, 303  
A.C.T.H. in treatment of dystrophia myotonica, 83  
Adrenaline in cerebrospinal fluid, 247  
Adrenocorticotrophic hormone in treatment of dystrophia myotonica, 83  
ALEXANDER, G. L., *see* DUTTON, J. E. M., and ALEXANDER, G. L.  
Alzheimer's disease, juvenile amaurotic idiocy with histological picture of, 211  
Amyotrophy with post-encephalitic Parkinsonism, 50  
ANGULI, V. C., *see* RAMAMURTHI, B., and ANGULI, V. C.  
Anxiety, symptoms of, and accompanying physiological changes in muscular system, 216  
Area postrema, effect of cardiazol convulsions on distribution and activity of some phosphatases in, of rat, 204

### B

- BAGG, C. E., *see* MEYER, A., LEIGH, D., and BAGG, C. E.  
BAL in pre-neurological stage of Wilson's disease, 70  
BATCHELOR, I. R. C., and NAPIER, M. B. : Sequelae and short-term prognosis of attempted suicide, 261  
BECK, E., *see* MEYER, A., FALCONER, M. A., and BECK, E.  
BLACKWOOD, W., and CUMINGS, J. N. : Histological and chemical study of 3 cases of diffuse cerebral sclerosis, 33  
Blindness, cortical, associated with presenile dementia, 129  
Books Received :  
ANGEL, J. M., and PEILLET, F. : La thérapeutique par le sommeil, 1953, 90  
BECK, S. J. : Six schizophrenias, 1954, 234  
BLEULER, M. : Endokrinologische Psychiatrie, 1954, 314  
BOBON, J. : Introduction historique à l'étude des néologismes et des glossolalies en psychopathologie, 1952, 90  
BUSCAINO, V. M. : Diagnostica psichiatrica, 1954, 162  
CALLEWAERT, H. : Graphologie et physiologie de l'écriture, 1954, 314  
DEBRÉ, R., and BRISSAUD, H.-E. : Méningite tuberculeuse et tuberculose miliare de l'enfant, 1953, 90  
DELMAS, J., and DELMAS, A. : Voies et centres nerveux, 1954, 234  
FRENCH, T. M. : Integration of behaviour, 1954, 162  
FREUD, S. : On aphasia, 1953, 314  
— : Origins of psycho-analysis, 1954, 314  
FULTON, J. F. : Physiologie des lobes frontaux et du cervelet, 1953, 162  
GERMER, W. D. : Viruserkrankungen des Menschen, 1954, 162  
GORDIN, R. : The epileptic cramp attack as a psychosomatic reaction, 1953, 90  
GREENBLATT, M., and SOLOMON, H. C., *eds.* : Frontal lobes and schizophrenia, 1953, 234  
GREENFIELD, J. G. : Spino-cerebellar degeneration, 314  
GRUHLE, H. W. : Verstehen und Einfühlen, 1953, 162  
HESS, W. R. : Diencephalon, 1954, 313  
INGRAHAM, F. D., and MATSON, D. D. : Neurosurgery of infancy and childhood, 234

- JANSEN, J., and BRODAL, A. : Aspects of cerebellar anatomy, 314  
KALLMANN, F. J. : Heredity, health, and mental disorder, 1953, 162  
KRIEG, W. J. S. : Connections of frontal cortex of monkey, 1954, 314  
LEUPOLD, E. : Die Bedeutung des Blutchemismus, 1954, 162  
LEWIS, N. D. C., and ENGLE, B., *eds.* : Wartime psychiatry, 1954, 314  
LITTLE, S. C. : Abnormal movements of face, 1954, 314  
LIVINGSTON, S. : Diagnosis and treatment of convulsive disorders in children, 1954, 314  
LOEPP, W., and LORENZ, R. : Röntgendiagnostik des Schädels, 1954, 314  
LOWENFELD, M. : Lowenfeld mosaic test, 1954, 314  
MAYER-GROSS, W., SLATER, E., and ROTH, M. : Clinical psychiatry, 1954, 314  
Memorie scientifiche dedicate a vito Maria Buscaino, 1953, 162  
Mentally subnormal child, 1954, 234  
Modern clinical psychiatry, 4th ed., 1953, 162  
MONRAD-KROHN, G. H. : Clinical examination of nervous system, 1954, 314  
MURPHY, J. P. : Cerebrovascular disease, 1954, 314  
NURNBERGER, J. I., and KOREY, S. R. : Pituitary chromophobe adenomas, 1953, 90  
PENMAN, J., and SMITH, M. C. : Intracranial gliomata, 1954, 314  
PERRY, J. W. : Self in psychotic process, 1953, 234  
ROEDER, F. : Die neurologischen Syndrome bei lumbalen und cervikalen Bandscheibenvorfällen, 1952, 90  
ROTHLIN, E. : Die zentralnervösen Wirkungen von Heilitteln, 1954, 162  
RUBINSTEIN, H. S. : Study of brain, 1953, 314  
SARGENT, W., and SLATER, E. : Introduction to physical methods of treatment in psychiatry, 3rd ed., 1954, 314  
SCHNEIDER, K. : Die Beusteilung der Zurechnungsfähigkeit, 1953, 90  
SCHULTZ, J. H. : Arzt und Neurose, 1953, 90  
STANTON, A. H., and SCHWARTZ, M. S. : The mental hospital, 1954, 314  
Transactions of Ophthalmological Society of the United Kingdom, 73, 1953, 162  
WITTKOWER, E. D., and CLEGHORN, R. A., *eds.* : Recent developments in psychosomatic medicine, 1954, 234  
WOLINETZ, E. : Neurochirurgie du praticien, 1953, 90  
Books Reviewed :  
ADAMS, R. D., DENNY-BROWN, D., and PEARSON, C. M. : Diseases of muscle, 1953, 88  
ALEXANDER, L. : Treatment of mental disorder, 310  
ALTSCHULE, M. D. : Bodily physiology in mental and emotional disorders, 1953, 310  
BING, R., and BRÜCKNER, R. : Gehirn und Auge, 1954, 234

Books Reviewed—*cont.*

- BROCK, S. : Basis of clinical neurology, 3rd ed., 1953, 308
- BROWER, D., and ABT, L., eds. : Progress in clinical psychology, Vol. 1, 1952, 161
- CAMPBELL, J. D. : Manic-depressive disease, 1953, 233
- COBB, S. : Foundations of neuropsychiatry, 5th ed., 1952, 89
- CRITCHLEY, M. : The parietal lobes, 1953, 87
- DELGADO, H. : Corso de psiquiatria, 1953, 309
- EPSTEIN, B. S., and DAVIDOFF, L. M. : An atlas of skull roentgenograms, 1953, 87
- EXNER, G. : Die Halswirbelsäule : Pathologie und Klinik, 1954, 308
- GALVANI, L. : Commentary on the effect of electricity on muscular motion, 1953, 313
- GELLHORN, E. : Physiological foundations of neurology and psychiatry, 1953, 312
- HALPERN, F. : Clinical approach to children's Rorschach, 1953, 309
- HAYMAKER, W., ed. : The founders of neurology, 1953, 88
- , and WOODHALL, B. : Peripheral nerve injuries, 2nd ed., 1953, 308
- HERDNER, R. : Traité technique de tomographie osseuse, 1954, 312.
- HINSIE, L. E., and SHATZKY, J. : Psychiatric dictionary, 1953, 161
- HOLMES, G. : The National Hospital, Queen Square, 1954, 161
- JEFFRESS, LL. A., ed. : Cerebral mechanisms in behaviour, 1951, 160
- KARPF, F. B. : Psychology and psychotherapy of Otto Rank, 1953, 313
- KOLB, L. C. : Painful phantom, 1954, 308
- KUNTZ, A. : The autonomic nervous system, 4th ed., 1953, 312
- LAUBENTHAL, F. : Leitfaden der Neurologie, 1953, 88
- LE MARQUAND, H. S., and TOZER, F. H. W. : Endocrine disorders in childhood and adolescence, 2nd ed., 1954, 311
- MOORE, G. E. : Diagnosis and localisation of brain tumours, 1953, 233
- MORTON, L. T. : How to use a medical library, 2nd ed., 1953, 162
- NOYES, A. P. : Modern clinical psychiatry, 4th ed., 1953, 308
- PHILLIPS, L., and SMITH, J. G. : Rorschach interpretation : advanced technique, 1953, 309
- PODOLSKY, E., ed. : Encyclopedia of aberrations, 1953, 89
- POWDERMAKER, F. B., and FRANK, J. : Group psychotherapy, 1953, 309
- Progress in neurology and psychiatry, Vol. VIII, 1953, 233
- Psychiatrist : his training and development, 1953, 309
- ROEMER, H. : Gynäkologische Organneurosen : Einführungsverlesungen in die Psychosomatik, 1953, 313
- ROWBOTHAM, G. F., and HAMMERSLEY, D. P. : Pictorial introduction to neurological surgery, 1953, 88
- SALTER, A. : Conditioned reflex therapy, 1952, 89
- SHELLWORTH, W. : Neurosenfrage, Ursachenbegriff und Rechtsprechung, 2nd ed., 1953, 311
- SLATER, E., and SHIELDS, J. : Psychotic and neurotic illnesses in twins, 310
- STONE, C. P., ed. : Comparative psychology, 3rd ed., 1953, 312
- STÖRRING, G. E. : Besinnung und Bewusstsein, 1953, 234
- STRONG, O. S., and ELWYN, A. : Human neuroanatomy, 3rd ed., 1953, 312
- SUNDER-PLOSSMAN, P. : Sympathikus-Chirurgie, 1953, 88
- TARLOV, I. M. : Sacral nerve-root cysts, 1953, 87
- TASAKI, I. : Nervous transmission, 1953, 160
- WALTER, W. G. : Living brain, 1953, 311
- <sup>82</sup>Br in nerve cells, demonstration of, 11
- Brain, area postrema, effect of cariazol convulsions on distribution and activity of some phosphatases in, of rat, 204
- , focal cerebral and cerebellar atrophy due to organic mercury compounds, 235
- , foramina of Magendie and Luschka, congenital atresia of, 134
- , hairy teratomatous cyst in occipito-cerebellar region, 298
- , meningiomas within lateral ventricle, 91
- , pathological findings in temporal lobe epilepsy, 276
- , sub-cortical haematoma, spontaneous, study of surgically treated cases, 57
- tumours in third ventricle, memory disturbances in, 115
- BRATTGARD, S.-O., and LINDQVIST, T. : Demonstration of <sup>82</sup>Br in nerve cells, 11
- Bromine ions, radioactive, in nerve cells, demonstration of, 11

## C

- CALDWELL, P. C., and PRANKERD, T. A. J. : Phosphate esters in myotonic human muscle, 127
- Cardiazol convulsions, effect on distribution and activity of some phosphatases in area postrema of rat, 204
- Carotid artery, internal, prenatal occlusion of, 295
- infraclinoidal aneurysm, periarteritic lesions of carotid siphon with clinical features of, 300
- siphon, periarteritic lesions of, with clinical features of a carotid infraclinoidal aneurysm, 300
- CAVANAGH, J. B. : Toxic effects of tri-ortho-cresyl phosphate on the nervous system, 163
- Cerebral degeneration, rapidly progressive, with mental disorder, focal disturbances and myoclonic epilepsy, 148
- sclerosis, diffuse, histological and chemical study of, 33
- Cerebrospinal fluid, adrenaline and noradrenaline in, 247
- CLARK, R. M., and LINELL, E. A. : Prenatal occlusion of internal carotid artery, 295
- COBB, W., and MARSHALL, J. : Repetitive discharges from human motor nerves after ischaemia and their absence after cooling, 183
- Cooling, absence of repetitive discharges from motor nerves after, 183
- CROSSKEY, M. A., see ELITHORN, A., PIERCY, M. F., and CROSSKEY, M. A.
- CUMINGS, J. N., see BLACKWOOD, W., and CUMINGS, J. N.
- CUNNINGHAM, R. C. : Contribution to genetics of gargoylism, 191
- CYVIN, K., see LÖKEN, A. C., and CYVIN, K.

## D

- DAITZ, H. M., and POWELL, T. P. S. : Studies of the connexions of the fornix system, 75
- Dementia, presenile, associated with cortical blindness, 129

Dermoid cyst, intraspinal, associated with another in ovary, 225  
 Dimercaprol in pre-neurological stage of Wilson's disease, 70  
 2 : 3 Dimercaptopropanol in pre-neurological stage of Wilson's disease, 70  
 Disinhibition caused by frontal lobe wounds, 14  
 DUTTON, J. E. M., and ALEXANDER, G. L. : Intramedullary spinal abscess, 303  
 Dystrophia myotonica, treatment with A.C.T.H., 83

## E

ELITHORN, A., PIERCY, M. F., and CROSSKEY, M. A. : Autonomic changes after unilateral leucotomy, 139  
 ———, ———, ———, Persisting change in palmar sweating following prefrontal leucotomy, 196  
 Encephalitis, Parkinsonism following, with amyotrophy, 50  
 Encephalopathy, subacute vascular, with mental disorder, focal disturbances, and myoclonic epilepsy, 148  
 Epilepsy, myoclonic, with subacute vascular encephalopathy, mental disorder, and focal disturbances, 148  
 ———, temporal lobe, pathological findings in, 276  
 ———, traumatic, after closed head injury, 1

## F

FALCONER, M. A., *see* MEYER, A., FALCONER, M. A., and BECK, E.  
 FIELD, E. O. : Production of gamma-globulin in central nervous system, 228  
 Focal disturbances with subacute vascular encephalopathy, mental disorder and myoclonic epilepsy, 148  
 Foramina of Magendie and Luschka, congenital atresia of, 134  
 Fornix system, studies of the connexions of, 75  
 Frontal lobe wounds causing disinhibition, 14

## G

Gamma-globulin, production of, in central nervous system, 228  
 GARAI, O. : Treatment of dystrophia myotonica with A.C.T.H., 83  
 Gargoylism, genetics of, 191  
 GIBSON, J. G., *see* SAINSBURY, P., and GIBSON, J. G.  
 GILLIATT, R. W., and WILSON, T. G. : Ischaemic sensory loss in patients with peripheral nerve lesions, 104  
 GREENFIELD, J. G., and MATTHEWS, W. B. : Post-encephalitic Parkinsonism with amyotrophy, 50

## H

Haematoma, sub-cortical, spontaneous, study of surgically treated cases, 57  
 Head injury, closed, traumatic epilepsy after, 1  
 Heidenhain's syndrome, 129  
 Hepato-lenticular degeneration, absorption and excretion of radiocopper in, 242  
 ———, dimercaprol in pre-neurological stage of, 70  
 HUNTER, D., and RUSSELL, D. S. : Focal cerebral and cerebellar atrophy in human subject due to organic mercury compounds, 235

## I

Idiocy, juvenile amaurotic, with histological picture of Alzheimer's disease, 211  
 INSUA, J. A., and NAIDOO, D. : Effect of cariazol convulsions on distribution and activity of some phosphatases in area postrema of rat, 204  
 Insulin therapy, modified, and isoniazid, comparison of, in neurotic states, 145  
 Ischaemia, repetitive discharges from motor nerves after, 183  
 Isoniazid and modified insulin therapy, comparison of, in neurotic states, 145

## J

JARVIE, H. F. : Frontal lobe wounds causing disinhibition, 14  
 JONES, D. P., and NEVIN, S. : Rapidly progressive cerebral degeneration with mental disorder, focal disturbances, and myoclonic epilepsy, 148  
 JUEL-NIELSEN, N., *see* SCHOU, M., JUEL-NIELSEN, N., STRÖMGREN, E., and VOLDBY, H.

## L

LEIGH, D., *see* MEYER, A., LEIGH, D., and BAGG, C. E.  
 Leucotomy, prefrontal, persisting change in palmar sweating following, 196  
 ———, unilateral, autonomic changes after, 139  
 LIDDELL, D. W., and NORTHFIELD, D. W. C. : Effect of temporal lobectomy upon two cases of unusual form of mental deficiency, 267  
 ———, *see also* WEIL-MALHERBE, H., and LIDDELL, D. W.  
 LINDQVIST, T., *see* BRATTGARD, S.-O., and LINDQVIST, T.  
 LINELL, E. A., *see* CLARK, R. M., and LINELL, E. A.  
 Lithium salts in treatment of manic psychoses, 250  
 Lobectomy, temporal, effect upon two cases of unusual form of mental deficiency, 267  
 LÖKEN, A. C., and CYVIN, K. : Case of clinical juvenile amaurotic idiocy with histological picture of Alzheimer's disease, 211

## M

MACKINNON, P. C. B. : Variations with age in number of active palmar digital sweat glands, 124  
 MALHERBE, H. W., *see* WEIL-MALHERBE, H.  
 MALONEY, A. F. J. : Congenital atresia of foramina of Magendie and Luschka, 134  
 Manic psychoses, treatment by administration of lithium salts, 250  
 MARSHALL, J., *see* COBB, W., and MARSHALL, J.  
 MATTHEWS, W. B. : Absorption and excretion of radiocopper in hepato-lenticular degeneration, 242  
 ———, *see also* GREENFIELD, J. G., and MATTHEWS, W. B.  
 Memory disturbances in third ventricle tumours, 115  
 Meningiomas within lateral ventricle, 91  
 Meningitis, tuberculous, mental disturbances in, 173  
 Mental deficiency, unusual form of, effect of temporal lobectomy upon, 267  
 ——— disorder with subacute vascular encephalopathy, focal disturbances and myoclonic epilepsy, 148  
 ——— disturbances in tuberculous meningitis, 173  
 Mercury compounds, organic, focal cerebral and cerebellar atrophy due to, 235  
 MEYER, A., FALCONER, M. A., and BECK, E. : Pathological findings in temporal lobe epilepsy, 276  
 ———, LEIGH, D., and BAGG, C. E. : Rare presenile dementia associated with cortical blindness, 129

MILLEN, J. W., and WOOLLAM, D. H. M. : Reticular perivascular tissue of central nervous system, 286  
Muscle, myotonic, phosphate esters in, 127  
Muscular system, physiological changes in, accompanying anxiety and tension, 216  
Myotonic muscle, phosphate esters in, 127

## N

NAIDOO, D., *see* INSUA, J. A., and NAIDOO, D.  
NAPIER, M. B., *see* BATCHELOR, I. R. C., and NAPIER, M. B.  
NEILL, D. W., *see* WARNOCK, C. G., and NEILL, D. W.  
Nerve cells, demonstration of <sup>82</sup>Br in, 11  
Nerves, motor, repetitive discharges from after ischaemia and their absence after cooling, 183  
———, peripheral, lesions of, ischaemic sensory loss in patients with, 104  
Nervous system, central, production of gamma-globulin in, 228  
———, ———, reticular perivascular tissue of, 286  
———, ———, toxic effects of tri-ortho-cresyl phosphate on, 163  
Neurotic states, comparison of isoniazid with modified insulin therapy in, 145  
NEVIN, S., *see* JONES, D. P., and NEVIN, S.  
NIELSEN, N. J., *see* JUEL-NIELSEN, N.  
Noradrenaline in cerebrospinal fluid, 247  
NORTHFIELD, D. W. C., *see* LIDDELL, D. W., and NORTHFIELD, D. W. C.

## O

OBRADOR, S. : Hairy teratomatous cyst in occipito-cerebellar region, 298  
Ovary, dermoid cyst of, associated with another in spine, 225

## P

Palmar digital sweat glands, variations with age in number of, 124  
——— sweating, persisting change in, following pre-frontal leucotomy, 196  
Parkinsonism, post-encephalitic, with amyotrophy, 50  
PENNYBACKER, J., *see* WILLIAMS, M., and PENNYBACKER, J.  
Perivascular tissue, reticular, of central nervous system, 286  
PHILLIPS, G. : Traumatic epilepsy after closed head injury, 1  
Phosphatases, effect of cardiazol convulsions on distribution and activity of, in area postrema of rat, 204  
Phosphate esters in myotonic human muscle, 127  
PIERCY, M. F., *see* ELITHORN, A., PIERCY, M. F., and CROSSKEY, M. A.  
POWELL, T. P. S., *see* DAITZ, H. M., and POWELL, T. P. S.  
PRANKERD, T. A. J., *see* CALDWELL, P. C., and PRANKERD, T. A. J.  
Psychoses, manic, treatment by administration of lithium salts, 250

## R

Radiocopper, absorption and excretion of, in hepatolenticular degeneration, 242  
RAMAMURTHI, B., and ANGULI, V. C. : Intraspinal dermoid cyst associated with another in ovary, 225  
RUSSELL, D. S., *see* HUNTER, D., and RUSSELL, D. S.

## S

SAINSBURY, P., and GIBSON, J. G. : Symptoms of anxiety and tension and accompanying physiological changes in muscular system, 216  
SCHOU, M., JUEL-NIELSEN, N., STRÖMGREN, E., and VOLDBY, H. : Treatment of manic psychoses by administration of lithium salts, 250  
Sclerosis, diffuse cerebral, histological and chemical study of, 33  
Sensory loss, ischaemic, in patients with peripheral nerve lesions, 104  
SILVERMAN, M. : Comparison of isoniazid with modified insulin therapy in neurotic states, 145  
SMITH, H. V., *see* WILLIAMS, M., and SMITH, H. V.  
Spinal cord, intramedullary abscess, 303  
Spine, dermoid cyst of, associated with another in ovary, 225  
STRÖMGREN, E., *see* SCHOU, M., JUEL-NIELSEN, N., STRÖMGREN, E., and VOLDBY, H.  
Suicide, attempted, sequelae and short-term prognosis of, 261  
Sweat glands, palmar digital, variations with age in number of, 124  
Sweating, palmar, persisting change in, following pre-frontal leucotomy, 196

## T

Tension, symptoms of, and accompanying physiological changes in muscular system, 216  
Teratomatous cyst, hairy, in occipito-cerebellar region, 298  
Thrombosis of vertebral artery, angiographic diagnosis of, 189  
TOLOSA, E. : Periarteritic lesions of carotid siphon, 300  
Tri-ortho-cresyl phosphate, toxic effects on the nervous system, 163

## V

Vertebral artery thrombosis, angiographic diagnosis of, 189  
VOLDBY, H., *see* SCHOU, M., JUEL-NIELSEN, N., STRÖMGREN, E., and VOLDBY, H.

## W

WALL, A. E. : Meningiomas within the lateral ventricle, 91  
WARNOCK, C. G., and NEILL, D. W. : Dimercaprol in pre-neurological stage of Wilson's disease, 70  
WEIL-MALHERBE, H., and LIDDELL, D. W. : Adrenaline and noradrenaline in cerebrospinal fluid, 247  
WERNER, A. : Study of 8 surgically treated cases of spontaneous sub-cortical haematoma, 57  
WILLIAMS, M., and PENNYBACKER, J. : Memory disturbances in third ventricle tumours, 115  
———, and SMITH, H. V. : Mental disturbances in tuberculous meningitis, 173  
WILSON, T. G., *see* GILLIATT, R. W., and WILSON, T. G.  
Wilson's disease, absorption and excretion of radiocopper in, 242  
———, dimercaprol in pre-neurological stage of, 70  
WOOLLAM, D. H. M., *see* MILLEN, J. W., and WOOLLAM, D. H. M.

## Z

ZWAN, A. VAN DER : Angiographic diagnosis of vertebral artery thrombosis, 189