

REPORT OF THE SUB-DEPARTMENT OF NEUROLOGICAL SURGERYMCGILL UNIVERSITY.SEPT. 5

Dr. James Penfield, Clinical Professor of Neurological Surgery,
Dr. William Cone, Assistant Professor of Neurological Surgery,
Mr. Arthur Elvidge, Resident in Neurological Surgery at the Royal Victoria Hospital.

Dr. James Brown, Resident in Neurological Surgery at the Royal Victoria Hospital.

Dr. Joseph Evans, Madeleine Ottmann Research Fellow in Epilepsy,

Dr. Ottiwell Jones, Voluntary assistant in Neuropathology.

Dr. Dorothy Russell, Voluntary assistant in Neuropathology.

Dr. George Patterson-Smythe, Voluntary assistant in Neuropathology.

During the year of 1929 further initial organization of the Department has been carried out to provide staff in

connection with the new Out-door Clinic has been conducted at the Montreal General Hospital and the Royal Victoria Hospital, and where necessary there has been a certain amount of interchange of patients. A complete operative equipment has been provided in both Hospitals. At the Royal Victoria Hospital a special room has been set aside for both public and private operative cases. A special anesthetist has been trained for this work and both the anesthetist and the nurse who assists at these operations were sent on a trip to various medical centers on the Atlantic seaboard to study the methods in neurosurgical clinics at those centers.

For the most part the operations carried out come under the following headings:-

Brain and spinal cord tumors.

Traumatic and idiopathic epilepsy. Dr. Penfield

Acute head injuries. Dr. Monteith

Hydrocephalus. Dr. Beattie

Spina bifida. Dr. Monteith

Surprisingly few operations have been carried out on the sympathetic nervous system and on the peripheral nerves.

The clinical and anatomical neurological conferences have been

continued under the joint direction of neurosurgery and neurology.

These meetings have been held every Wednesday alternating between the Out-door Departments of the Montreal General Hospital and the Royal Victoria Hospital, and the Laboratory of Neuropathology. A series

of lectures on Neuroanatomy were presented by Professor Beattie. The attendance at these meetings has been quite satisfactory, and although all the members of the conference are not attached to McGill University,

American Neurologists and others from the United States and Canada are invited to attend.

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it has been decided to call the meetings "The McGill Neurological Conferences" at least for the time being. Report the more interesting of these conferences in the Canadian Medical Association Journal.

In view of the laboratory of Neuropathology has been so organized that specimens from surgical operations are examined and a report made by Dr. Cone. Through co-operation with the Department of Pathology detailed studies on autopsy material from cases of neurological interest are also carried out here. During the year one additional technician has been added so that the laboratory now has two technicians and a secretary.

In the Laboratory of Neuropathology important work was done by Dr. Ottiwell Jones on the origin and development of neuroglia. He carried out also a study of brain tumors. Dr. Dorothy Russell made an important contribution on the origins of microglia and the activity of these cells in the nervous system. In collaboration with Dr. MacMillan and Dr. Johnston of the Department of Ophthalmology, Dr. Cone has made a study of the structure of the optic nerve and retina. With the generous financial help of Mrs. Madeleine Ottmann experimental work on epilepsy has been carried on throughout the year by Dr. Penfield and Dr. Evans. A nurse has been added to the staff in order to follow the epileptic animals more carefully.

The following addresses have been made:-

1. The Field of Neurosurgery. Medical Chirurgical Society, Montreal.
2. The Radical Treatment of Traumatic Epilepsy. Medical Chirurgical Society, Montreal.
3. A Case of Chordoma of the Skull. Medical Chirurgical Society, Montreal.
4. Medical Heroes of a Medical Student. McGill University.
5. A Surgeon Looks at Nursing. The Association of Registered Nurses of the Province of Quebec.
6. The Surgical Treatment of Pain. Canadian Medical Association Meeting, Montreal.
7. The Radical Treatment of Spina Bifida. Canadian Medical Association Meeting, Royal Victoria Hospital.
8. A Study of Neurofibromatosis. (With Dr. A. Young) American Neurological Association, Atlantic City.
9. The Treatment of Headache. Ontario Medical Association Meeting, Ottawa.

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PUBLICATIONS

Dr. Henry Cone

10. Neurological Surgery, St. Johns, New Brunswick.
11. Two addresses on Neurological Surgery, Halifax, Nova Scotia.
12. The Mechanism and Treatment of Traumatic Epilepsy. International Medical Assembly of Interstate Postgraduate Medical Association of North America, Detroit, Vol. 18, pp. 333-38.
13. The Rationale of the Radical Treatment of Epilepsy. (With Dr. O. Foerster). Association for Research in Nervous and Mental Diseases, New York City, Vol. 18, pp. 328-33.
14. The Classification of the Encapsulated Tumors of the Nervous System. Society of Neurological Surgeons, Montreal.

Dr. William Cone.

1. The Localization of Obscure Lesions in the Nervous System by Mechanical Means. Canadian Medical Association, Royal Victoria Hospital.
2. Newer Methods of Stains for the Central Nervous System. Canadian Medical Association Meeting at the Universite de Montreal, Vol. 18, pp. 328-33.
3. Significance of Osteogenetic Activity in Meningeal Fibroblastomas. Society of Neurological Surgeons, Montreal.
4. Acute Changes in Neuroglia and Microglia. Neuro-Psychiatric Society, Montreal.

Dr. Ottiwell Jones.

1. Development of Astrocytes and Oligodendroglia. American Neurological Association, Atlantic City, Vol. 18, pp. 328-33.
2. Development of Neuroglia. Society of Neurological Surgeons, Montreal.

Dr. Dorothy Russell.

1. Origin and Function of Microglia. Society of Neurological Surgeons, Montreal.

Dr. M. Brodie.

1. Urinary Changes associated with Encephalography and Ventriculography. Society of Neurological Surgeons, Montreal.

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Dr. Penfield.

10. Neuroglia and Microglia (The Metallic Methods), with Dr. W. Cone.
McClung's Handbook of Microscopical Technique, Jan. 1929. pp. 359-88.
The Scope of Neurology. Archives of Surgery, April 1929. Volume 18,
pp. 1335-1338. To the meeting of the Royal Society for Research in Mental Disease.
Cerebral Calcification Epilepsy. (With Dr. H. Rawle Geyelin). Archives
of Neurology & Psychiatry, May 1929. Vol. 21. pp. 1020-1043.

Diencephalic Autonomic Epilepsy. Archives of Neurology & Psychiatry,
August 1929. Vol. 22. pp. 358-374.

Dr. Dorothy Russell.

1. The Localisation of Operations in the Nervous System by
Intravital Staining of Microglia with Trypan Blue. American Journal of
Pathology, September 1929. Volume 5. No. 5. pp. 555-565.
2. Acute Changes in Neuroglia and Microglia. Micro-Psychiatristic
Society, Montreal, Quebec.

During the Spring of 1929 the Society of Neurological Surgeons met
for the first time in Montreal.

With the development of the work of the Department the desirability
of concentration of beds and the close association of Laboratory and
Clinical work, both public and private, becomes more and more evident.

Dr. Dorothy Russell.

1. Origin and Motion of Microglia. Society of Neurologists
Signed.

1. University Organise association with Microbiology and Nutrition
Dept. Society of Neurologists Surgeons, Montreal.

Dr. M. Brodie.