

**PROGRAMME FOR THE CONJOINT  
MEETING OF THE  
AMERICAN ACADEMY OF NEUROLOGICAL SURGERY  
President: ROBERT L. McLAURIN  
WITH THE  
SOCIETY OF BRITISH NEUROLOGICAL SURGEONS  
President: W. MARTIN NICHOLS  
(BEING THE 84th MEETING OF THE SOCIETY)  
IN OXFORD, 4-7 SEPTEMBER, 1972**

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**MONDAY, 4 SEPTEMBER**

- 3.00 pm onwards Registration at the Old Bursary, New College  
(Holywell Street entrance. Cars should be parked in  
St. Catherine's College—see map)  
Tea
- 4.15 pm S.B.N.S. Business Meeting
- 6.15 pm University Reception by Pro-Vice-Chancellor in the  
Sheldonian Theatre (dress: informal)  
Suppers and Bars in New and Wadham Colleges

**TUESDAY, 5 SEPTEMBER**

- 8.45 am onwards Registration in St. Cross Building
- 9.15 am Scientific Session (St. Cross Building)  
Lunch in New College
- 2.15 pm Scientific Session (St. Cross Building)
- 7.15 pm Dinner in St. Edmund Hall (Black tie)

**WEDNESDAY, 6 SEPTEMBER**

- 9.15 am Scientific Session in St. Cross Building  
Lunch in New College  
Organ recital  
Free Afternoon
- 4.15 pm Leave by buses for Stratford-upon-Avon: Hotel  
suppers and the Theatre (*The Comedy of Errors*)

**THURSDAY, 7 SEPTEMBER**

- 9.30 am American Academy Business Meeting in New College

## SCIENTIFIC PROGRAMME

TUESDAY, 5 SEPTEMBER

9.15 am J.M. POTTER (Oxford): Welcome

R.S. GYE (Oxford)

### An Experimental and Clinical Study of Peripheral Nerve Homografts

Immuno-suppressive agents were used to prevent rejection of peripheral nerve homografts in Wistar rats and Rhesus monkeys. Azathioprine greatly enhanced regeneration. Following the successful animal experiments, freeze-dried and irradiated homografts were inserted into patients with extensive damage to peripheral nerve following trauma or lepromatous neuropathy. Regeneration occurred through grafts up to 23 cms. in length.

W.M. KIRSCH, D. SCHULZ and H. YOUNG (Denver, Colo.)

### Combination Drug and Irradiation Therapy for Surgically Incurable Tumours of the Neuraxis

68 patients have been treated with a relatively standard combination of drugs and irradiation therapy for tumors which included glioblastomas, astrocytomas, grade ii and iii, as well as metastatic tumors. The most promising results appeared to be in the astrocytoma grade ii and iii series, with a few long term survivals in the glioblastoma series. Control patients were treated with irradiation therapy alone at the Colorado General Hospital.

J.S. GARFIELD (Southampton)

### Intracavity Glioma Chemotherapy

In an attempt to improve the current very poor results in the treatment of supratentorial astrocytoma of Kernohan grades 3 and 4 malignancy, methods of intracavitary chemotherapy have been considered. Using Methotrexate initially, a spigotted catheter was left in the tumour cavity for periods far beyond those previously accepted in neurosurgical practice. The use of a lipid-soluble agent is currently being assessed.

J.C. CHRISTENSEN (Buenos Aires)

### Third Ventricle Tumours: Direct Surgical Attack in 40 cases

Most of these tumours are benign and not very sensitive to radiation therapy. A subdivision into anterior, mesial, infundibular (approached transfrontally) and posterior (reached through the corpus callosum) tumours correlates fairly well with the clinical picture. Surgical results depend on the nature, location and extension of the tumours and on the patient's preoperative condition. A low postoperative mortality and long-lasting good results in many cases warrant a plea for direct surgical attack.

P. HARRIS, G.W. ASHCROFT, H.R.A. TOWNSEND, R. DOW and J. McQUEEN (Edinburgh)

#### Experimental Epilepsy

Cobalt-induced epileptogenic lesions in rats regularly produce a mirror focus in the contralateral cortex. Subsequently electrocorticographic recordings are made from the unrestrained conscious rats over a period of months. Studies of the pharmacological actions of various anticonvulsant drugs, others, especially regarding RNA, DNA and of protein metabolism, and of neurochemical transmitters, are being made. The effects of excision of the epileptogenic focus and of corpus callosum section are being investigated.

T.B. RASMUSSEN (Montreal)

#### Epilepsy due to 'Chronic Encephalitis'

Since 1950, 24 patients operated upon at the Montreal Neurological Institute for focal epilepsy have shown lesions in the surgical specimens histologically typical of active encephalitis, despite seizure histories of up to 25 years (median 4 years) and despite absence of other symptoms and signs, ordinarily associated with encephalitis. The evolution of the neurological signs and seizure symptomatology pre- and post-operatively is presented.

12.45 pm Photograph  
Lunch

2.15 pm W.M. NICHOLS, R.J.A. FRASER and A.R. CHOUDHURY  
(Aberdeen)

#### Investigation of Unilateral Proptosis

Dysthyroid disease is said to be the commonest cause of proptosis. The non-endocrine type, often unilateral, is of special interest to the neurosurgeon. A lesion may extend from orbit to cranial cavity or vice-versa, and its diagnosis may require special investigation, the value of which will be discussed.

S. MULLAN (Chicago, Ill.)

#### The Use of Dimethyl Sulfoxide in Experimental Head and Spinal Injuries

In our search for a pharmaceutical which might stabilize cell and lysosome membranes we came across dimethyl sulfoxide which belongs to both the radiation protection (free radical absorbing) and cold protection series. Its use in improving the mortality of experimental head injury and recovery from experimental spinal cord injury will be described. In both of these experimental situations it is clearly superior to the electrolyte dehydrators (urea) and the glucocorticoids.

**D.S. GORDON and H.A. CROCKARD (Belfast)**

**Head Injuries in Civil Disturbances**

Patients with bullet wounds of the head were admitted to a civilian accident centre within a few minutes of injury. In 11 patients the intracranial pressure and cerebral blood flow were monitored. Control of cerebral oedema by immediate hyperventilation yielded results which correlate well with experimental findings.

**B.S. NASHOLD and H. FRIEDMAN (Durham, N.C.)**

**Electronic Control of the Neurogenic Bladder**

Failure of the micturition reflex in certain paraplegics is well known. An experimental spinal neuroprosthesis has been developed which has been implanted in the intact conus medullaris of 5 paraplegics. The detrusor muscle of the bladder can be self-activated by the patient from an external RF generator. Four patients are catheter free and empty their bladder at regular intervals by electrical stimulation of the spinal cord. The longest follow-up is 18 months.

**J. ANDREW and N. RUDOLF (London)**

**Somatic Representation in the Human Thalamus**

113 trajectories were explored by micro-electrode recording during 78 stereotactic thalamotomies for Parkinsonism and other dyskinesias. A detailed analysis of the distribution and nature of the evoked responses will be presented. A correlation will be made with the variability of the nuclear boundaries and with current views of somatic patterns in the thalamus.

**Tea**

**D.G. McLONE (Chicago, Ill.)**

**Development of Brain Extracellular Space in Hydrocephalic (Hy-3) Mice**

**(Academy Award Paper)**

**WEDNESDAY, 6 SEPTEMBER**

9.15 am

**C.B.T. ADAMS (Oxford)**

**Movement and Myelopathy**

Movement of the cervical extradural roots and dural sac during neck movement is measured in cadavers. The change of contour of the cervical spine is related to neck movements in patients with spondylotic myelopathy and controls. Suggestions are made for the pathogenesis and treatment as well as for the mechanism of late deterioration in some post-operative patients.

**W.H. SWEET and J.G. WEPSIC (Boston, Mass.)**

**Controlled Thermocoagulation of Trigeminal Ganglion and Rootlets for Differential Destruction of Pain Fibres**

A cannula electrode, whose tip is placed in the trigeminal rootlets, is used for short epochs of heating to produce a stepwise incremental destruction. Aided by the ultra short-acting anesthetic, methohexital, and by a thermister at the cannula's tip we have been able to produce analgesia without anesthesia confined to the desired trigeminal zones in the great majority of the 250 procedures to date. There has been no mortality and no extratrigeminal morbidity.

**J.E.A. O'CONNELL (London)**

**Heteronymous Hemianopia**

The rarity of a binasal hemianopia in comparison with a bitemporal one suggests some intrinsic difference between the crossed and uncrossed fibres in the optic chiasma. Binasal hemianopia has been shown to result from vascular compression of the uncrossed fibres. Anatomical observations will be described and their bearing on a number of the characteristic features of bitemporal hemianopia considered.

**E.B. HENDRICK, H.J. HOFFMAN and R. HUMPHREYS  
(Toronto)**

**Tethered Conus Medullaris in Children**

Tethered conus in children has received some attention in literature but with no significant number of cases in any one paper. With the increase of fusions for scoliosis in children, more cases have come to light. Experience with tethering of the conus medullaris, as seen in patients presenting at the Hospital for Sick Children, Toronto, will be discussed.

**W.J. WHATMORE (Edinburgh)**

**Sincipital Encephaloceles**

Clinical and surgical observations of a personal series of 30 sincipital encephaloceles are made with particular reference to their frequency of occurrence, geographical and racial distribution, and to operative techniques. The literature is reviewed and the aetiology and pathogenesis discussed in detail.

**J.P. EVANS (Chicago, Ill.)**

**The Dilemma presented by the Foreign Medical Graduates**

This dilemma is very difficult of resolution. In 1970-71 approximately 12,000 foreign trained physicians (one half on immigrant visas) were admitted to the USA. Probably half of the other 6,000 will seek to remain. In that same period U.S. Medical Schools graduated just under 9,000 physicians. The needs of sending and receiving countries will be contrasted, and the costs and gains documented.

**12.45 pm Lunch**

***LADIES' PROGRAMME***

**TUESDAY, 5 SEPTEMBER**

**BY COACH INTO THE COTSWOLDS**

**am**      **Tour of Chastleton House—coffee**  
**Lunch at Moreton-in-Marsh**  
**pm**      **Tour of Compton Wynyates**

**WEDNESDAY, 6 SEPTEMBER**

**am**      **Tours of Colleges**  
**Shopping**

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