

an attempt to improve the accuracy rate in the latter group, auditory frequencies were studied utilizing band-pass filters of our own design. Diagnostic auditory frequencies in patients with stenosis were determined. Playing our Doppler cassette tapes through these filters, our accuracy of interpretation in a retrospective study increased to 96.7 percent. It proved inexpensive as compared to visual write-out devices for Doppler and did not significantly increase interpretation time.

With this modification, Doppler ultrasonography has become a practical method for widespread screening of cerebrovascular disease in community hospitals.

A prospective study utilizing these techniques is in progress and will be reported.

#### GS 9 — 11:30

### Regional Cerebral Blood Flow During Sleep and Wakefulness Compared in Normal Volunteers and Patients with Narcolepsy

J. S. MEYER, F. SAKAI, I. KARACAN, H. NARITOMI, F. YAMAGUCHI, and T. G. SHAW, Houston

Serial measurements of regional cerebral blood flow were made by  $^{133}\text{Xe}$  inhalation during different stages of sleep and wakefulness in eight normal volunteers (ages,  $33 \pm 13$  years) for comparison with 12 narcoleptic patients (ages,  $43 \pm 12$  years). Sixteen collimated probes were applied over both cerebral hemispheres and brainstem-cerebellar regions. Regional flow gray (Fg) was calculated by two-compartmental analysis. EEG, eye movements, submental EMG, blood pressure, finger temperature, pulse, end-tidal  $\text{pCO}_2$ ,  $\text{pO}_2$ , and  $^{133}\text{Xe}$  were also recorded simultaneously. In normals, mean hemispheric Fg during stages I and II sleep ( $75.7 \pm 10$  ml/100 gm brain/minute) was significantly reduced ( $-9.2$  percent) compared with values while awake ( $84.3 \pm 13$ );  $p < 0.01$ . Maximum regional decreases during sleep occurred in the brainstem-cerebellar ( $-25.1$  percent), right (posterior) inferior temporal ( $-23.1$  percent), and bilateral frontal ( $-18.9$  percent) regions.

In 12 patients with narcolepsy, mean hemispheric Fg values while awake were  $80.5 \pm 13$ . During REM sleep ( $n = 2$ ), mean hemispheric Fg increased by  $+10.0$  percent concurrently with large increases ( $+34.6$  percent) in brainstem-cerebellar regions. During stages I-II sleep without REM ( $n = 6$ ) there were significant increases in mean hemispheric Fg by  $+20.2$  percent ( $p < 0.01$ ) and brainstem-cerebellar Fg by  $38.0$  percent ( $p < 0.01$ ). This is the opposite of the change seen in normals.

In narcolepsy there appears to be a reversal of normal deactivation patterns, particularly of brainstem, during stages I-II sleep.

#### 11:45

### FIRST ANNUAL BUSINESS MEETING

(Combined San Francisco and Sacramento)

# Session on Neuropharmacology I Morning Meeting Thursday, April 27, 1978

9:30 A.M. — 11:45 A.M.

**Emerald Bay Room**

*Chairman:* Donald B. Caine, Bethesda, Maryland

*Secretary:* Charles H. Markham, Los Angeles

8:30

### POSTER PRESENTATIONS (San Diego and San Jose)

#### PH 1 — 9:30

### Analysis of the Clinical Problems in Parkinsonism and of the Complications of Long-Term Levodopa Therapy

RONALD P. LESSER, STANLEY FAHN, STUART R. SNIDER, LUCIEN J. COTE, ROBERT E. BARRETT, and WILLIAM P. ISGREEN, New York

All patients on levodopa therapy (with or without carbidopa) seen in our Movement Disorder Clinic during the first 6 months of 1975 were evaluated. Of the 146 patients, 133 had idiopathic, and 13 postencephalitic disease; 102 of these patients had been receiving levodopa for more than 3 years. Only seven (three postencephalitic) of the 146 were perfectly controlled; the others all had residual problems with either intractable parkinsonian symptoms or unresolved adverse effects of medication. Before levodopa was started, 93 patients were in stages 1-2 and 53 in stages 3-4. At the time of the survey, nine were in stage 0, 66 in stages 1-2 and 71 in stages 3-5; 21 were rated at 100 percent of ADL; 88 between 70 and 99 percent, and 37 less than 70 percent. None of our patients being actively followed were less than 20 percent of ADL. In terms of progression of symptoms despite levodopa therapy, of the 36 patients with idiopathic parkinsonism who were in stage 1 before starting levodopa, four are now in stage 0, 14 in stage 1, and 18 in stages 2-5; 48 started in stage 2, and 22 remain at this level; five are in stage 1, and 21 in stages 3-4.

The major adverse effects of levodopa (with or without carbidopa) limiting its effectiveness were chorea in 54, dystonia in 30, GI disturbance in 36, confusion or dementia in 31, psychiatric 26, wearing-off phenomenon in 28, and on-off phenomenon 20. All of these problems were evaluated in relationship to duration of disease, age, and duration of levodopa therapy. The clinical fluctuations (wearing-off and on-off) and CNS toxicity correlated with the duration of therapy, suggesting that these adverse effects could possibly increase in frequency and severity as the duration of treatment is extended.

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**Thursday April 27 1978:**

**California. Court of Appeal (1st Appellate District). Records and Briefs** California (State)., **Greig V. Olivarez** ,1979 **Parks V. United States Postal Service** ,1981 **Yoggerst V. Hedges** ,1983 California. Court of Appeal (2nd Appellate District). Records and Briefs California (State)., Bibbs V. Harris ,1979 Simer V. Rios ,1980 NIBCO, Inc. V. Johnson ,1982 *People v. Stephens*, 416 MICH 252 (1982) ,1982 65691 **California. Court of Appeal (4th Appellate District). Division 2. Records and Briefs** California (State)., **National Labor Relations Board V. Mid-America Machinery Company** ,1980 **People of the State of Illinois V. Wolf** ,1982 Central Cartage, Inc. V. National Labor Relations Board ,1979 Adams V. Duckworth ,1982 *California. Supreme Court. Records and Briefs* California (State)., Court of Appeal Case s B043724 Journal of the House of Representatives of the State of Michigan Michigan. Legislature. House of Representatives,1980 Includes extra sessions *United States of America V. Willies* ,1981 *Decisions and Orders of the National Labor Relations Board* United States. National Labor Relations Board,1983 *Report on the Activity of the Committee on Interstate and Foreign Commerce, House of Representatives, for the ... Congress* United States. Congress. House. Committee on Interstate and Foreign Commerce,1979 California. Court of Appeal (5th Appellate District). Records and Briefs California (State).,

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