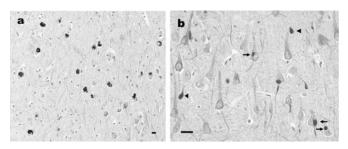
### Expanding the molecular classification of dementias



Neuronal IF inclusions in the temporal lobe. Subiculum (A) and pyramidal neurons (B, arrows) and swollen axons and spheroids (B, arrowheads).

Cairns et al. describe the clinical and neuropathologic features of 10 patients with neuronal intermediate filament inclusion disease (NIFID). Their cases have features of both frontotemporal dementia and motor neuron disease. Age at onset ranged from 23 to 56 years (mean 40.8) with a mean duration until death of 4.5 years.

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The accompanying editorial by DeKosky and Ikonomovic notes that this article adds to the evidence that the most common mechanism of chronic neurodegenerative disorders involves abnormal protein production, processing, or misfolding, and subsequent accumulation in the brain. Specific neurons manifest selective vulnerability to specific protein processing abnormalities, for example, altered tau metabolism is associated with FTD AD, corticobasal degeneration, and progressive supranuclear palsy. In NIFID light, medium, and heavy (molecular weight) NF triplet proteins (NF-L, NF-M, and NF-H), a type IV IF protein, and  $\alpha$ -internexin accumulate in a subset of patients with clinical features of FTD or CBD. Relatively young age at onset and faster progression of the disease, absence of family history of FTD, extrapyramidal symptomatology, diffuse hyperreflexia, and supranuclear ophthalmoplegia were suggestive of the diagnosis.

Thus, while NIFID may be an immunohistopathologically distinct form of FTD, its clinical manifestations are not unique. A biomarker is needed as well as an understanding of these mechanisms of NF aggregation.

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### October 26 Highlights

## Prevalence of probable migraine in a health care plan

Probable migraine (PM) is a migraine subtype lacking just one migraine feature. Patel et al. found that PM is as prevalent as migraine in a health plan and was associated with similar disability and impairment in quality of life

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# Cerebral vascularization configuration is associated with deep WMLs

Van der Grond et al. found that vascular variations in the circle of Willis are independently associated with the deep WML load in the brain. A fetal configuration of the posterior part of the circle of Willis appeared to protect against WMLs.

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## Peripheral neuropathy after gastric bypass surgery

Bariatric gastric bypass surgery is being done increasingly to treat obesity. Thaisetthawatkul et al. characterized the neuropathy occurring after gastric bypass in 435 patients vs the neuropathy occurring after another abdominal surgery (cholecystectomy). Neuropathy occurred in 16% of patients vs only 3% of cholecystectomy controls. No specific subtype was identified: mononeuropathy, polyneuropathy, and radiculopathy all occurred.

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### The *PINK1* gene in Irish Parkinson disease

Mutations in the *PINK1* gene, which encodes a mitochondrial protein, have recently been reported to cause autosomal recessive Parkinson disease. In this study, Healy et al. found a low prevalence of *PINK1* mutations in a large sample of Irish Parkinson disease patients.

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### PARK6-linked parkinsonism in Asian populations

Hatano et al. report that eight families including three Japanese, two Taiwanese, one Turkish, one Israeli, and one Philippine showed evidence of linkage to *PARK6*, indicating its worldwide distribution.

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The editorial by Andrew Singleton accompanying these two articles notes that there are now 10 PARK loci of which four have defined gene mutations associated with parkinsonism (PARK-1, -2, -6, and -7). PINK1 disease, like that caused by parkin mutation, is recessive, suggesting that loss of protein function is key. The pathogenic relevance of single heterozygous mutations as reported may remain a contentious issue. However, it is possible that the PINK1 mutation in the heterozygous state may lead to a dopaminergic deficit that predisposes to disease much as suggested in parkin heterozygotes.

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# Considering measles SSPE in the differential diagnosis of encephalitis

Honarmand et al. describe five cases of SSPE occurring in the 16,400 cases of the California Encephalitis Project. The diagnosis of SSPE was not considered by clinicians in three of the five cases—ADEM being mistakenly diagnosed.

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The accompanying editorial by James Bale notes that measles is rare in the United States and SSPE, its most serious complication, occurs in 1/million children. However, in many other countries, immunization is less widespread, leading to approximately 21 SSPE cases/million in India and about 100 cases/million in Papua New Guinea. The disorder is not treatable but is preventable by measles immunization (which does not cause SSPE itself).

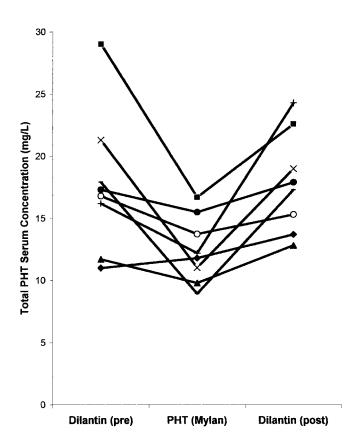
see page 1352

### Safety of rapid infusion of valproate

The open, dose-escalation study in epilepsy patients by Wheless et al. demonstrated that rapid infusion IV of valproate at rates up to 6 mg/kg/min was well tolerated and caused no clinically important changes in blood pressure or pulse.

see page 1507

### Phenytoin generic gives lower levels than brand



The FDA has considered brand and generic phenytoin equivalent. Burkhardt et al. found that in a clinical setting the small difference in bioavailability of phenytoin is magnified by non-linear kinetics. Their eight patients had a clinically important decrease in levels when switched to generic, which was reversed by restarting brand.

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#### October 26 Highlights

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