Diet Can Increase Stroke Risk

Evidence from page 1

versity in New York and the senior investigator for both of the new studies.

Both studies used data collected in the Northern Manhattan Study of 3,298 people living in northern Manhattan in 1993. The subjects were thoroughly assessed at baseline, and 3,183 answered a food frequency questionnaire that was used to calculate daily fat and sodium intake. At entry, this group had a mean age of 70 years; 63% were women, 21% were white, 24% were African American, and 52% were Hispanic. They

were followed for an average of 5.5 years, during which 142 had an ischemic stroke.

The analysis of the link between stroke incidence and dietary fat assessed fat intake both as a continuous variable and as a dichotomous variable, with 65 g/day as the dividing line between a low- and high-fat diet. The National Cholesterol Education Program recommends that fat should be about 30% of total caloric intake; a person who eats 2,000 calories per day should have a daily fat intake of no more than 65 g. About 36% of people in the study reported eating more than 65 g of fat daily.

In the dichotomous analysis, the ischemic stroke incidence was 60% higher in people who consumed more than 65 g of fat daily, compared with those who ate 65 g or less, reported Halina White, a researcher at Columbia. This analysis controlled for a variety of demographic, clinical, and dietary variables. When adjusted for total caloric intake, the increased risk of stroke linked with a high-fat diet rose to 90%.

These are reasonable hazard rates that are close to the increased risk for stroke in patients with hypertension," said Dr. Sacco, who is also director of stroke and clinical care at Columbia. He speculated that atherosclerosis may be the mechanistic link between high dietary fat and stroke. High-fat diets usually lead to increased serum levels of total cholesterol and LDL cholesterol, he said.

The sodium analysis divided participants into three groups with mean daily sodium intakes of 4 g or more, 2.4 g or less, or between 2.4 g and 4 g. In an analysis that controlled for potential confounding variables including hypertension, people who ate 4 g or more per day had an 84% higher risk of ischemic stroke than people who consumed 2.4 g or less per day, reported Armistead D. Williams III, M.D., a neurologist at Columbia.

People who ate between 2.4 and 4 g per day had a slightly but not significantly increased risk of stroke, compared with those with the lowest intake. Because the analysis controlled for differences in blood pressure, it's possible that some other, unknown biologic mechanism explains the link between dietary sodium and stroke risk. But blood pressure could still play a role, Dr. Sacco said at the meeting, sponsored by the American Stroke Association.

Delayed-Release Tablets Brief Summary: For complete details, please see full Prescribing Information for CAMPRAL

INDICATIONS AND USAGE INDICATIONS AND USAGE

CAMPRAL (acamprosate calcium) is indicated for the maintenance of abstinence from alcohol in patients with alcohol dependence who are abstinent at treatment initiation. Treatment with CAMPRAL should be part of a comprehensive management program that includes psychosocial support. The efficacy of CAMPRAL in promoting abstinence has not been demonstrated in subjects who have not undergone detoxification and not achieved alcohol abstinence prior to beginning CAMPRAL treatment. The efficacy of CAMPRAL in promoting abstinence from alcohol in polysubstance abusers has not been adequately assessed.

Campral

(acamprosate calcium)

CAMPRAL is contraindicated in patients who previously have exhibited hypersensitivity to acamprosate calcium or any of its components. CAMPRAL is contraindicated in patients with severe renal impairment (creatinine clearance ≤30 mL/min).

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ADVERSE REACTIONS

The adverse event data described below reflect the safety experience in over 7000 patients exposed to CAMPRAL for up to one year, including over 2000 CAMPRAL-exposed patients who participated in placebo-controlled trials.
Adverse Events Leading to Discontinuation in placebo-controlled trials of 6 months or less, 8% of CAMPRAL-treated patients discontinued treatment due to an adverse event, as compared to 6% of patients treated with placebo. In studies longer than 6 months, the discontinuation rate due to adverse events was 7% in both the placebo-treated and the CAMPRAL-treated patients. Only diarrhea was associated with the discontinuation of more than 1% of patients (2% of CAMPRAL-treated vs. 0.7% of placebo-treated patients). Other events, including nausea, depression, and anxiety, while accounting for discontinuation in less than 1% of patients, were nevertheless more commonly cited in association with discontinuation in CAMPRAL-treated patients than in placebo-treated patients. Common Adverse Events Reported in Controlled Trials Common, non-serious adverse events were collected spontaneously in some controlled studies and using a checklist in other studies. The overall profile of adverse events was similar using either method. Table 1 shows those events that occurred in any CAMPRAL

treatment group at a rate of 3% or greater and greater than the placebo group in controlled clinical trials with spontaneously reported adverse events. The reported frequencies of adverse events represent the proportion of individuals who experienced, at least once, a treatment-emergent adverse event of the type listed, without regard to the causal relationship of the events to the drug.

Table 1. Events Occurring at a Rate of at Least 3% and Greater than Placebo in any CAMPRAL

Treatment Group in Controlled Clinical Trials with Spontaneously Reported Adverse Events				
Body System/ Preferred Term	CAMPRAL 1332 mg/day	CAMPRAL 1998 mg/day ¹	CAMPRAL Pooled ²	Placebo
Number of Patients in Treatment Group	397	1539	2019	1706
Number (%) of Patients with an AE	248 (62%)	910(59%)	1231(61%)	955 (56%)
Body as a Whole	121 (30%)	513(33%)	685 (34%)	517(30%)
Accidental Injury*	17 (4%)	44 (3%)	70 (3%)	52 (3%)
Asthenia	29 (7%)	79 (5%)	114(6%)	93 (5%)
Pain	6 (2%)	56 (4%)	65 (3%)	55 (3%)
Digestive System	85 (21%)	440 (29%)	574(28%)	344(20%)
Anorexia	20 (5%)	35 (2%)	57 (3%)	44 (3%)
Diarrhea	39 (10%)	257(17%)	329(16%)	166(10%)
Flatulence	4 (1%)	55 (4%)	63 (3%)	28 (2%)
Nausea	11 (3%)	69 (4%)	87 (4%)	58 (3%)
Nervous System	150(38%)	417(27%)	598 (30%)	500(29%)
Anxiety**	32 (8%)	80 (5%)	118(6%)	98 (6%)
Depression	33 (8%)	63 (4%)	102(5%)	87 (5%)
Dizziness	15 (4%)	49 (3%)	67 (3%)	44 (3%)
Dry mouth	13 (3%)	23 (1%)	36 (2%)	28 (2%)
Insomnia	34 (9%)	94 (6%)	137(7%)	121 (7%)

Paresthesia 11 (3%) 29 (2%) 40 (2%) 34 (2%) Skin and Appendages 26 (7%) 150(10%) 187(9%) 169(10%) Pruritus 12 (3%) 68 (4%) 82 (4%) 58 (3%) Sweating 11 (3%) 27 (2%) 40 (2%) 39 (2%) *includes events coded as "fracture" by sponsor; **includes events coded as "nervousness" by sponsor includes 258 patients treated with acamprosate calcium 2000 mg/day, using a different dosage strength and regimen. 2 includes all patients in the first two columns as well as 83 patients treated with acamprosate 3000 mg/day, using a different dosage strength and regimen. 40 (2%) 187(9%) 82 (4%) 40 (2%) s coded as "

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Other Events Observed During the Premarketing Evaluation of CAMPRAL Following is a list of terms that reflect treatment-emergent adverse events reported by patients treated with CAMPRAL in 20 clinical trials (4461 patients treated with CAMPRAL, 3526 of whom received the maximum recommended dose of 1998 mg/day for up to one year in duration). This listing does not include those events already listed above, events for which a drug cause was considered remote; event terms which were so general as to be uninformative; and events reported only once which were not likely to be acutely life-threatening. Events are utrher categorized by body system and listed in order of decreasing frequency according to the following definitions: frequent adverse events are those occurring in at least 1700 patients (only those not already listed in the summary of adverse events in controlled trials appear in this listing); infrequent adverse events are those occurring in fewer than 17100 to 17100 to patients. Body as a Whole – Frequent: headache, abdominal pain, back pain, infection, flu syndrome, chest pain, chills, sucide attempt; Infrequent: Rever, intentional overdose, malaise, allergic reaction, abscess, neck pain, herria, intentional injury, Rare: ascites, face edema, photosensitivity reaction, abdomen enlarged, sudden death. Cardiovascular System – Frequent: palpitation, syncrope: Infrequent: hypotension; Rare: heart failure, mesenteric arterial occlusion, cardiomyopathy, deep thrombophibitis, postural hypotension; Rare: heart failure, mesenteric arterial occlusion, cardiomyopathy, deep thrombophibitis, postural hypotension; Rare: heart failure, intended to the properties of the

DRUG ABUSE AND DEPENDENCE Controlled Substance Class Acai

prosate calcium is not a controlled substance. Physical and Psychologica Controlled Substance Class Acamprosate calcium is not a controlled substance. Physical and Psychologic Dependence CAMPRAL did not produce any evidence of withdrawal symptoms in patients in clinical trials at therapeutic doses. Post marketing data, collected retrospectively outside the U.S., have provided no evidence of CAMPRAL abuse or dependence.

OVERDOSAGE

OVERDUSABLE
In all reported cases of acute overdosage with CAMPRAL (total reported doses of up to 56 grams of acamprosate calcium), the only symptom that could be reasonably associated with CAMPRAL was diarrhea. Hypercalcemia has not been reported in cases of acute overdose. A risk of hypercalcemia should be considered in chronic overdosage only. Treatment of overdose should be symptomatic and supportive.

Forest Pharmaceuticals, Inc.

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Low-Volume **Centers Doing EC-IC Bypass**

SAN FRANCISCO — The number of hospitals at which external carotid to internal carotid bypass procedures are performed is increasing, but so is associated mortality, Sepideh Amin-Hanjani, M.D., said at the annual meeting of the Congress of Neurological Surgeons.

Growth of external carotid to internal carotid (EC-IC) bypass procedures is greatest at low-volume centers and among inexperienced surgeons, said Dr. Amin-Hanjani, of Harvard Medical School, Boston.

In an analysis of 558 operations performed at 158 American hospitals by 145 surgeons between 1992 and 2001, the annual number of admissions for EC-IC bypass almost doubled from 190 per year from 1992 to 1996, to 360 per year from 1997 to 2001. Mortality more than doubled, from 2.5% to 5.9%, Dr. Amin-Hanjani said.

The median numbers of procedures per hospital and per surgeon were 3 and 2, respectively, over the decade. For 29% of patients, their EC-IC bypass was the only one recorded at the hospital for the year, and for 42% of patients, their surgeon performed no other EC-IC bypass.

Cerebral ischemia was the indication in 74% of procedures, followed by unruptured aneurysms (19%), and ruptured aneurysms (7%). Mortality was highest (21%) in patients with ruptured aneurysms, followed by those with unruptured aneurysms (7.7%), and cerebral ischemia (2.4%).

These findings were based on data from the Healthcare Cost and Utilization Project's third Nationwide Inpatient Sample.

"This technically demanding procedure has become a very low-volume operation at nearly all U.S. centers," Dr. Amin-Hanjani said. Surgeons need experience with at least 20-30 cases to achieve patency rates of 90%-100%.

—Norra MacReady