

Aspirin Better for Intracranial Arterial Stenosis

BY MICHELE G. SULLIVAN
Mid-Atlantic Bureau

High-dose aspirin is just as effective as warfarin in treating intracranial arterial stenosis, and appears much safer, with significantly lower rates of death, myocardial infarction, and major hemorrhage over 2 years, Marc Chimowitz, M.B., and colleagues have reported.

"The common practice of administering warfarin rather than aspirin for sympto-

matic intracranial arterial stenosis is not supported by the results of this trial," said Dr. Chimowitz of Emory University, Atlanta.

Enrollment in the Warfarin-Aspirin Symptomatic Intracranial Disease (WASID) trial ended early because of the high rate of serious adverse events in the warfarin patients. In addition to being safer for patients, the researchers said, aspirin therapy did not require constant monitoring of international normalized ratios (INRs) and treatment of warfarin-associated bleeding. As-

pirin also is much cheaper, they noted (*N. Engl. J. Med.* 2005;352:1305-16).

Ralph Sacco, M.D., an investigator in the Northern Manhattan Stroke Study, noted in an interview that the WASID trial's findings add to existing data to dispel beliefs about the benefit of warfarin for certain stroke populations.

The conclusion that warfarin provides no survival benefit over aspirin, but confers added risk, is more expensive, and requires intensive monitoring, should re-

shape its risk-benefit profile for some patients, said Dr. Sacco, professor of neurology and epidemiology at Columbia University, New York.

Dr. Chimowitz and his associates reported on the trial's final analysis that included 569 patients with symptomatic intracranial arterial stenosis who were randomized to either warfarin 5 mg daily or aspirin 650 mg twice daily.

The patients' mean age was about 63 years; about 61% were men. All had a history of either stroke or transient ischemic attack caused by 50%-90% stenosis of a major intracranial artery. The mean follow-up was 1.8 years.

The primary outcome—stroke, brain hemorrhage, or death from vascular causes other than stroke—occurred in 22% (62) of the aspirin patients and 21.8% (63) of the warfarin patients. Myocardial infarction or sudden death occurred significantly more often in the warfarin group than in the aspirin group (7.3% vs. 2.9%).

The overall rate of death was significantly higher in the warfarin group than in the aspirin group: 5.9% (17) vs. 4.3% (12). However, chance probably accounted for some of the deaths that were higher in the warfarin group, especially the six cancers.

Major hemorrhages occurred significantly more often in the warfarin group (8.3% vs. 3.2%). Brain hemorrhage occurred in 2 warfarin patients and 1 aspirin patient; gastrointestinal hemorrhage in 10 warfarin patients and 6 aspirin patients; ocular hemorrhage in 4 warfarin patients and 1 aspirin patient; genitourinary hemorrhage in 3 warfarin patients; aortic aneurysm in 1 aspirin patient; and other bleeds in 4 warfarin patients.

In a post hoc analysis, INRs of less than 2.0 were associated with a significantly higher risk of ischemic stroke and major cardiac events, and INRs of 3.0 or greater were associated with a significantly higher risk of hemorrhage, than were INRs in the therapeutic range of 2.0-3.0.

In an accompanying editorial, Walter Koroshetz, M.D., said the observed mortality differences could be due to a failure to keep patients at a therapeutic level of anticoagulation. Warfarin subjects obtained optimal anticoagulation (INR 2.0-3.0) only 63% of the time. The rate of major cardiac events was 10.8 per 100 patient-years with a subtherapeutic INR, but only 0.4 per 100 patient-years with a therapeutic INR.

"Unfortunately, it is extremely difficult, if not impossible, to achieve a consistent therapeutic INR with warfarin in a population study or in routine practice," said Dr. Koroshetz of Massachusetts General Hospital, Boston.

"Two large studies have been negative for warfarin in noncardioembolic stroke," Dr. Sacco noted. "And one of these was also stopped early due to adverse events and no signal that warfarin's benefit was greater than aspirin."

However, he said, warfarin is "clearly indicated" for cardioembolic stroke patients. "This has been made clear in multiple studies, which were actually so positive that they were the springboard for these other studies looking at warfarin in different populations." ■

©2005 Merck & Co., Inc. All rights reserved.

45 MILLION PEOPLE IN AMERICA DON'T HAVE HEALTH INSURANCE.

Now every one of them can get significant discounts on Merck drugs.

People without health insurance don't fit any stereotype. They live in cities, suburbs, and in the country. They come from every income level. Eight out of 10 are from working families.

That's why we're introducing the Merck Prescription Discount Program. It's available to people, regardless of age or income, who don't have prescription drug insurance. It offers discounts of up to 40% on Merck medicines. And it's free and easy to enroll. Patients simply call 1-800-50-MERCK (1-800-506-3725) or visit www.merckuninsured.com. The Merck Prescription Discount Program. It's one more way Merck puts patients first.

Where patients come first  MERCK