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[American Academy of Neurology](#)

Smoking may counteract benefit of moderate drinking on stroke risk

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TORONTO – New research finds any beneficial effect of drinking moderate amounts of alcohol on stroke may be counteracted by cigarette smoking, according to research that will be presented as part of the late-breaking science program at the American Academy of Neurology's 62nd Annual Meeting in Toronto, April 10 – 17, 2010.

Scientists followed the drinking and smoking habits of 22,524 people in the United Kingdom who were between the ages of 39 and 79 and did not have a history of heart attack or stroke at the start of the study. During the 12-year study, 864 strokes occurred.

The study found that the association between alcohol drinking and stroke was significantly different between smokers and non-smokers. In non-smokers, people who consumed moderate amounts of alcohol were 37 percent less likely to develop stroke than non-drinkers, while in smokers this association was not observed. This finding suggests that smoking may modify the relationship between alcohol intake and stroke risk. Moderate drinking was defined as consuming up to 21 units of alcohol per week, which is equal to about two to three regular glasses of red wine a day.

"Our findings could have public health implications in that we appear to have a clearer understanding of the dangers of combining smoking and moderate drinking on overall stroke risk," according to Yangmei Li, MPhil, with the University of Cambridge in the United Kingdom.

"While heavy alcohol consumption is considered to increase the risk of stroke, the relationship between light to moderate drinking and stroke has varied considerably among studies," said Li. "It's possibly these conflicting results could be explained by the interaction between cigarette smoking and alcohol on stroke risk." This reinforces the evidence that smoking not only

increases stroke risk on its own but may additionally affect adversely how other lifestyle factors may relate to stroke risk.

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The study was supported by the Medical Research Council in the United Kingdom and Cancer Research UK.

The American Academy of Neurology's Annual Meeting is the world's largest gathering of neurologists with more than 2,300 scientific research presentations on brain disorders.

The American Academy of Neurology, an association of more than 22,000 neurologists and neuroscience professionals, is dedicated to promoting the highest quality patient-centered neurologic care. A neurologist is a doctor with specialized training in diagnosing, treating and managing disorders of the brain and nervous system such as Alzheimer's disease, Parkinson's disease, ALS (Lou Gehrig's disease), multiple sclerosis, stroke and migraine. For more information about the American Academy of Neurology, visit <http://www.aan.com>.

Editor's Note:

Dr. Li will be available for media questions during a press conference at 2:00 p.m. ET, on Monday, April 12, 2010, in Room 803B of the Metro Toronto Convention Centre in Toronto. Please contact Rachel Seroka, rseroka@aan.com, to receive conference call information for those reporters covering the press conference off-site.

Dr. Li is also available for advance interviews as well. Please contact Rachel Seroka, rseroka@aan.com, to schedule an advance interview.

Dr. Li is scheduled to present this late-breaking abstract, P01.297, at 7:30 a.m., ET, on Tuesday, April 13, 2010, in Room 808 of the Metro Toronto Convention Centre in Toronto.

To view non-late-breaking abstracts to be presented at the 2010 AAN Annual Meeting, visit <http://www.aan.com/go/am10/science>. Late-breaking abstracts will not be posted online in advance of the meeting and are embargoed until the date and time of presentation at the AAN Annual Meeting in Toronto or unless otherwise noted by the Academy's Media and Public Relations Department.

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