

Abstract

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Polymorphisms associated with both noncardioembolic stroke and coronary heart disease: vienna stroke registry.

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OBJECTIVE: Noncardioembolic stroke and coronary heart disease (CHD) may share genetic predispositions. We tested the hypothesis that genetic variants which are associated with risk of CHD would also be associated with risk of noncardioembolic stroke in 562 cases from the Vienna Stroke Registry and 815 controls.

METHODS AND RESULTS: We selected 6 gene variants that had been consistently associated with risk of CHD in 3 studies, including the Atherosclerosis Risk in Communities study, and found that 4 of these gene variants were also associated with risk of noncardioembolic stroke. The odds ratios for noncardioembolic stroke were 1.31 (90% CI 1.07-1.60) for rs3900940 in MYH15, 1.24 (90% CI 1.01-1.5) for rs20455 in KIF6, 1.21 (90% CI 0.99-1.49) for rs1010 in VAMP8, and 1.20 (90% CI 0.95-1.50) for rs10757274 on chromosome 9p21.

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