

Table 2 : Prediction of future Cerebrovascular Events in Symptomatic and Asymptomatic Patients with carotid stenosis

Imaging method	Type of study	Patient population	Variable	Outcome event	All Patients	Symptomatic Patients	Asymptomatic Patients	By degree of Stenosis
MRI	Meta Analysis (Ref 16)	N=689 symptomatic and asymptomatic subjects with 30-99% carotid stenosis	IPH	TIA, AmF, stroke, 108 events	Event Rate IPH+ = 17.7%/year vs. IPH- = 2.4%/year HR=5.7 (95%CI=3.0-10.9)	N= 431 HR=11.7 (95%CI: 5.2-26.5)	N=258 HR=3.5 (95%CI: 2.6-4.7)	Not available
MRI	Meta Analysis (Ref 12)	N=363, symptomatic and asymptomatic subjects with 0-99% stenosis	Thin / ruptured FC	TIA, stroke	HR=5.9 (95%CI=2.7-13.2)	Not available	Not available	Not available
		N=403, symptomatic and asymptomatic subjects with 0-99% stenosis	Lipid-rich necrotic core	TIA, stroke	HR= 3.0 (95%CI=1.5-6.0)	Not available	Not available	Not available
US	Meta Analysis (Ref 101)	N=7557 patients with 0-99% asymptomatic carotid stenosis	Plaque echolucency	Stroke	Not applicable	Not available	HR=2.3 (95%CI=1.6-3.3)	> 50%: HR=2.6 (95%CI=1.5-4.6) N= 2095
US	Meta Analysis (Ref102)	N=499 symptomatic and N=7937 asymptomatic subjects	Plaque Echolucency	TIA, Stroke	Not applicable	N=499 RR=3.0 (95% CI=1.9-4.8)	N= 7937 RR=2.7 (95%CI=1.9-4.0)	Data for asymptomatic subjects only: <i>Mild to severe stenosis</i> RR=2.3 (95%CI=1.3-4.0) <i>Moderate to severe stenosis:</i> RR=2.6 (95%CI=1.3-5.2) <i>Severe stenosis:</i> RR=4.7 (95%CI=2.0-12.0)
US	Meta Analysis (Ref 52)	N=45828 asymptomatic patients of population-based studies	IMT	Stroke, MI, n = 4007 events	Not applicable	Not available	HR=1.09 (95%CI=1.07-1.12) per 0.1 mm increase in CC-IMT	
CT, PET/CT, CE-US	No meta-analysis available							

*Meta-Analyses were selected in consensus decision by the authors based on scientific impact, number of patients, impact factor and number of citations; MRI = Magnetic Resonance Imaging; IPH = Intraplaque hemorrhage; FC = Fibrous Cap; N = number of patients, TIA = transient ischemic attack; AmF= Amaurosis fugax, CI = Confidence Interval; MI = Myocardial Infarction; CC-IMT=Intima Media Thickness in the Common Carotid Artery; US = Ultrasound; CT = Computed Tomography; PET = Positron Emission Tomography; CE = Contrast Enhanced