

'STROKE' February 2011

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Decreased Kidney Function

- Chronic kidney disease is an important risk factor for development and progression of atherosclerosis
- Objective: to investigate the contribution of moderate kidney failure to cardiovascular (CV) mortality and morbidity after carotid endarterectomy (CEA)

- Between 2002 and 2009, 1085 patients undergoing CEA were included in this study
- Estimated glomerular filtration rate (eGFR) was assessed at baseline
- Moderate kidney failure (eGFR 30–59) was observed in 26.5% (288/1085) of the patients

- Patients with an eGFR 30–59 have a 2.2-fold increased risk for CV death and 1.9-fold increased risk for myocardial infarction the 3 three years after CEA compared with patients with an eGFR >60
- independent of other CV risk factors

Patients With Bullous Pemphigoid

- The risk of stroke after the diagnosis of BP relative to the general population remains unknown
- This study analyzes data from Taiwan's National Health Insurance Research Database

- 390 patients with BP and 1950 matched subjects as a comparison group
- Patients with BP have an increased risk of stroke and particularly ischaemic stroke

Red Meat Consumption

- Red Meat Consumption and Risk of Stroke in Swedish Women
- Epidemiological studies of red meat consumption in relation to risk of stroke are very limited
- prospectively followed 34 670 women without cardiovascular disease and cancer at baseline

- Participants completed a self-administered questionnaire on diet and other risk factors for cardiovascular diseases in 1997
- During a mean follow-up of 10.4 years= 1680 incident cases of stroke, comprising 1310 cerebral infarction, 154 intracerebral haemorrhage, 79 subarachnoid haemorrhage, and 137 unspecified stroke

- Total red meat and processed meat consumption was associated with a statistically significant increased risk of cerebral infarction, but not of total stroke, intracerebral haemorrhage, or subarachnoid haemorrhage
- Fresh (unprocessed) meat consumption was not associated with total stroke or with any stroke subtype

- Findings from this study suggest that red and processed meat consumption may increase the risk of cerebral infarction in women

Hip fracture and stroke

- Increased Risk of Stroke in the Year After a Hip Fracture
- This study investigated the frequency and risk of stroke after hip fracture using a nationwide population-based study
- The study cohort included 2101 patients hospitalized with a principal diagnosis of hip fracture from 2001 to 2004

- The comparison cohort consisted of 6303 randomly selected subjects matched on sex, age, and year of index healthcare use as controls
- tracked patients for a 1-year period
- Hip fracture is associated with increased risk of stroke in the next year

Lacunar Lesions on Imaging

- Variation in the definition of lacunar lesions on imaging and difficulties in their detection may be hampering lacunar stroke research
- assessed definitions of imaging lacunar lesion in 50 randomly selected articles from 3 stroke-related journals and an online survey of small-vessel disease researchers

- Imaging definitions of lacunar lesions vary widely, in part due to variation in lesion detection and classification. A consensus for imaging definitions of small-vessel disease features would be helpful

Retinal Microvascular Signs

- Small vessel disease plays a role in cerebral events
- Aim: to investigate the prevalence and patterns of retinal microvascular signs (surrogates for cerebral small vessel disease) among patients with transient ischemic attack (TIA) or acute stroke and population control subjects

- Patients with TIA or acute stroke aged 49 years admitted to hospitals in Melbourne and Sydney, Australia, were recruited to the Multi-Centre Retina and Stroke Study
- After adjustment for study site and known risk factors, all retinal microvascular signs were more common in patients with TIA or acute stroke than in control subjects

- Patients with TIA and acute stroke may share similar risk factors or pathogenic mechanisms