

**Supplemental Table 21. Studies reporting the incidence of cerebrovascular disease in multiple sclerosis**

Study (Year)	Region/ Sub-Region	Source/ Population	Prevalence Day/Period	Diagnostic Criteria: MS/ Established By	Diagnostic Criteria: Cerebrovascular Disease/ Established By	Crude Overall Incidence (95%CI)	Age-Standardized Overall Incidence (95%CI)	Crude Incidence (95%CI)		Standardized Incidence (95%CI)		Quality Score
								Males	Females	Males	Females	
Christiansen <sup>5</sup> (2010)	Denmark	DNRP, incident (hospitalized) MS	1977-2006	ICD-10 G35.9, ICD-8 340 (prior to 1993)	Overall Stroke ICD-8 431-434 ICD-10 I61 I63 I64  Ischemic Stroke ICD-8 433-434 ICD-10 I63	Stroke 398/13,963 = 2.85%  Ischemic Stroke: 170/13,963 = 1.22%	NR	NR	NR	NR	NR	6/8
Jadidi <sup>28</sup> (2013)	Sweden	M&H Co Database, incident MS	1987-2009	ICD-8 340 ICD-9 340 ICD-10 G35	Overall Stroke including ischemic, hemorrhagic and subarachnoid haemorrhage ICD-8 427.0, 427.1 ICD-9 428 ICD-10	Stroke: 194/7,664 = 2.53%	NR	71/2449 = 2.90%	123/5215 = 2.36%	NR	NR	5/8

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NR: Not Reported, DNRP:Danish National Registry of Patients, M &H Co Database: Migration and Health Cohort Database (contains over 15 linkable Swedish national registers).