

Supplementary Table 1. Risk of total stroke, ischemic stroke, and hemorrhagic stroke diagnosed only by inpatient or emergency encounters according to baseline and mean follow-up hemoglobin A1c level in patients with type 2 diabetes

Variable	Hemoglobin A1c (%)						P for trend
	<6.0	6.0–6.9	7.0–7.9	8.0–8.9	9.0–9.9	≥10	
Baseline hemoglobin A1c level							
No. of patients	9,956	22,030	11,374	5,714	3,464	6,971	
Total stroke							
No. of cases	525	913	607	326	201	374	
Person-years	35,729	88,528	47,601	23,299	13,748	26,117	
Age- and sex-adjustment	1.40 (1.26–1.56)	1.00	1.32 (1.19–1.47)	1.62 (1.42–1.84)	1.89 (1.62–2.21)	2.24 (1.98–2.54)	<0.001
Multivariable adjustment	1.31 (1.11–1.54)	1.00	1.35 (1.15–1.58)	1.43 (1.17–1.75)	1.56 (1.31–2.11)	1.72 (1.58–2.33)	<0.001
Ischemic stroke							
No. of cases	444	819	541	295	181	343	
Person-years	35,592	88,330	47,460	23,229	13,702	26,063	
Age- and sex-adjustment	1.31 (1.17–1.47)	1.00	1.32 (1.18–1.47)	1.63 (1.43–1.86)	1.90 (1.61–2.23)	2.28 (2.00–2.59)	<0.001
Multivariable adjustment	1.16 (1.03–1.40)	1.00	1.30 (1.09–1.55)	1.28 (1.02–1.61)	1.59 (1.22–2.07)	1.91 (1.55–2.37)	<0.001
Hemorrhagic stroke							
No. of cases	81	94	66	31	20	31	
Person-years	35,150	87,439	46,840	22,886	13,478	25,580	
Age- and sex-adjustment	2.16 (1.60–2.90)	1.00	1.42 (1.01–1.90)	2.09 (1.38–3.17)	1.97 (1.15–3.42)	2.04 (1.28–3.24)	<0.001
Multivariable adjustment	1.93 (1.37–2.72)	1.00	1.59 (1.10–2.30)	2.21 (1.44–3.40)	2.04 (1.16–3.58)	1.89 (1.16–3.08)	<0.001
Mean follow-up hemoglobin A1c level							
No. of patients	7,375	19,385	20,439	6,003	3,124	3,183	
Total stroke							
No. of cases	467	859	846	364	199	211	
Person-years	28,156	79,213	77,190	25,094	12,848	12,520	
Age- and sex-adjustment	1.46 (1.31–1.64)	1.00	1.10 (1.00–1.21)	1.68 (1.49–1.90)	2.12 (1.82–2.48)	2.69 (2.31–3.14)	<0.001
Multivariable adjustment	1.40 (1.17–1.67)	1.00	1.19 (1.03–1.37)	1.45 (1.19–1.76)	1.95 (1.54–2.48)	2.55 (2.03–3.21)	<0.001
Ischemic stroke							
No. of cases	391	773	751	335	181	192	
Person-years	28,016	79,026	77,014	25,034	12,807	12,479	
Age- and sex-adjustment	1.36 (1.20–1.53)	1.00	1.08 (0.98–1.19)	1.72 (1.51–1.96)	2.14 (1.82–2.53)	2.72 (2.31–3.19)	<0.001
Multivariable adjustment	1.19 (1.03–1.46)	1.00	1.13 (0.96–1.33)	1.40 (1.13–1.74)	1.96 (1.51–2.54)	2.34 (1.81–3.01)	<0.001
Hemorrhagic stroke							
No. of cases	76	86	95	29	18	19	
Person-years	27,634	78,152	76,207	24,594	12,565	12,220	
Age- and sex-adjustment	2.41 (1.77–3.29)	1.00	1.59 (1.14–2.22)	1.65 (1.03–2.64)	1.86 (1.01–3.48)	2.67 (1.67–4.18)	<0.001
Multivariable adjustment	2.32 (1.61–3.35)	1.00	1.48 (1.05–2.07)	1.66 (1.03–2.68)	1.82 (0.96–3.43)	2.30 (1.21–3.22)	<0.001

Values are presented as hazard ratio (95% confidence interval) unless otherwise indicated. Multivariable adjustment included age, sex, race, body mass index, systolic blood pressure, low-density lipoprotein cholesterol, high-density lipoprotein cholesterol, triglycerides, estimated glomerular filtration rate, smoking, insurance type, use of antihypertensive drugs, use of glucose lowering drugs, use of lipid-lowering drugs, use of antiplatelet or anticoagulant drugs, and presence of atrial fibrillation.