

SUPPLEMENTAL MATERIAL.

Online table I. HRs of different subtypes of stroke according to different levels of body mass index at baseline, during follow-up and at last visit among patients with type 2 diabetes

	Body mass index (kg/m ²)					P _{trend}	Each 1 kg/m ² increase
	18.5-24.9	25.0-29.9	30-34.9	35-39.9	≥40		
Ischemic stroke							
<i>Baseline</i>							
No. of subjects	3,121	6,658	7,425	5,606	6,744	-	-
No. of cases	383	721	746	483	488	-	-
Person-years	25,198	55,567	62,273	46,808	56,570	-	-
HRs (95% CI)							
Model 1	1.00	0.85 (0.75-0.96)	0.81 (0.72-0.92)	0.74 (0.65-0.85)	0.68 (0.59-0.78)	<0.001	0.985 (0.980-0.990)
Model 2	1.00	0.87 (0.77-0.99)	0.85 (0.75-0.96)	0.78 (0.68-0.89)	0.72 (0.63-0.83)	<0.001	0.987 (0.982-0.992)
Model 3	1.00	0.83 (0.73-0.94)	0.78 (0.69-0.88)	0.71 (0.62-0.82)	0.66 (0.58-0.76)	<0.001	0.984 (0.979-0.989)
<i>Follow-up</i>							
No. of subjects	2,959	6,774	7,656	5,617	6,548	-	-
No. of cases	351	779	757	472	462	-	-
Person-years	24,127	56,330	64,040	46,902	55,017	-	-
HRs (95% CI)							
Model 1	1.00	0.97 (0.86-1.10)	0.86 (0.76-0.98)	0.78 (0.68-0.89)	0.71 (0.62-0.82)	<0.001	0.983 (0.978-0.988)
Model 2	1.00	0.99 (0.87-1.12)	0.90 (0.79-1.02)	0.82 (0.71-0.94)	0.76 (0.66-0.87)	<0.001	0.985 (0.980-0.991)
Model 3	1.00	0.94 (0.83-1.06)	0.82 (0.72-0.94)	0.74 (0.64-0.86)	0.69 (0.60-0.80)	<0.001	0.982 (0.977-0.987)
<i>Last visit</i>							
No. of subjects	3,466	6,825	7,373	5,405	6,485	-	-
No. of cases	449	755	713	442	462	-	-
Person-years	28,215	56,980	61,554	45,318	54,349	-	-
HRs (95% CI)							

Model 1	1.00	0.86 (0.76-0.96)	0.78 (0.70-0.88)	0.70 (0.61-0.80)	0.66 (0.58-0.76)	<0.001	0.983 (0.978-0.988)
Model 2	1.00	0.88 (0.78-0.99)	0.81 (0.72-0.92)	0.73 (0.64-0.84)	0.70 (0.62-0.81)	<0.001	0.985 (0.980-0.990)
Model 3	1.00	0.84 (0.75-0.94)	0.76 (0.67-0.85)	0.68 (0.59-0.77)	0.65 (0.57-0.75)	<0.001	0.982 (0.977-0.987)
Hemorrhagic stroke							
<i>Baseline</i>							
No. of subjects	3,121	6,658	7,425	5,606	6,744	-	-
No. of cases	17	29	30	16	17	-	-
Person-years	27,142	59,568	66,442	49,564	59,369	-	-
HRs (95% CI)							
Model 1	1.00	0.76 (0.42-1.37)	0.72 (0.40-1.31)	0.54 (0.27-1.08)	0.53 (0.27-1.04)	0.034	0.978 (0.954-1.004)
<i>Follow-up</i>							
No. of subjects	2,959	6,774	7,656	5,617	6,548	-	-
No. of cases	17	29	32	13	18	-	-
Person-years	25,950	60,507	68,303	49,602	57,723	-	-
HRs (95% CI)							
Model 1	1.00	0.73 (0.40-1.34)	0.74 (0.41-1.34)	0.44 (0.21-0.90)	0.57 (0.29-1.11)	0.035	0.978 (0.952-1.004)
<i>Last visit</i>							
No. of subjects	3,466	6,825	7,373	5,405	6,485	-	-
No. of cases	22	28	28	14	17	-	-
Person-years	30,609	61,075	65,517	47,832	57,052	-	-
HRs (95% CI)							
Model 1	1.00	0.64 (0.37-1.13)	0.62 (0.36-1.09)	0.45 (0.23-0.88)	0.50 (0.26-0.95)	0.014	0.975 (0.950-1.000)

Model 1, Adjusted for age, sex and race.

Model 2, additionally adjusted for types of insurance, income, and smoking.

Model 3, model 2 and also adjusted for LDL cholesterol, SBP, HbA1c, eGFR, history of atrial fibrillation, use of antihypertensive drugs, glucose-lowering agents, and cholesterol-lowering agent.

Online table II. HRs of stroke according to different levels of body mass index at baseline, during follow-up and at last visit after excluding patients with incident subdural hemorrhage (n=35) and patients with TIA (n=662) during follow-up

	Body mass index (kg/m ²)					P _{trend}	Each 1 kg/m ² increase
	18.5-24.9	25.0-29.9	30-34.9	35-39.9	≥40		
Total Stroke[†]							
Baseline	1.00	0.87 (0.76-1.01)	0.85 (0.74-0.98)	0.79 (0.67-0.92)	0.72 (0.62-0.84)	<0.001	0.987 (0.981-0.992)
Follow-up	1.00	0.97 (0.84-1.12)	0.87 (0.75-1.00)	0.80 (0.69-0.94)	0.73 (0.62-0.86)	<0.001	0.984 (0.978-0.990)
Last visit	1.00	0.85 (0.74-0.96)	0.77 (0.67-0.88)	0.70 (0.60-0.81)	0.67 (0.57-0.78)	<0.001	0.983 (0.978-0.989)
Ischemic Stroke[†]							
Baseline	1.00	0.89 (0.77-1.03)	0.86 (0.75-1.00)	0.81 (0.69-0.95)	0.75 (0.64-0.88)	<0.001	0.988 (0.983-0.994)
Follow-up	1.00	1.00 (0.87-1.16)	0.89 (0.77-1.03)	0.83 (0.71-0.98)	0.77 (0.65-0.90)	<0.001	0.986 (0.980-0.991)
Last visit	1.00	0.86 (0.76-0.99)	0.78 (0.68-0.90)	0.72 (0.61-0.83)	0.70 (0.60-0.81)	<0.001	0.985 (0.979-0.991)
Hemorrhagic stroke[‡]							
Baseline	1.00	0.63 (0.28-1.42)	0.97 (0.46-2.03)	0.54 (0.22-1.33)	0.54 (0.22-1.32)	0.20	0.983 (0.952-1.016)
Follow-up	1.00	0.55 (0.26-1.17)	0.64 (0.31-1.31)	0.54 (0.23-1.23)	0.41 (0.17-0.99)	0.066	0.976 (0.943-1.010)
Last visit	1.00	0.47 (0.23-0.98)	0.65 (0.33-1.28)	0.47 (0.21-1.06)	0.30 (0.12-0.75)	0.014	0.971 (0.938-1.004)

[†]Adjusted for age, sex, race, types of insurance, income, and smoking. [‡] Adjusted for age, sex and race.

Online table III. HRs of total and different subtypes of stroke according to different levels of body mass index using time-dependent Cox model

	Body mass index (kg/m ²)					P _{trend}	Each 1 kg/m ² increase
	18.5-24.9	25.0-29.9	30-34.9	35-39.9	≥40		
Total stroke [†]	1.00	0.99 (0.87-1.12)	0.90 (0.79-1.02)	0.80 (0.69-0.92)	0.73 (0.63-0.83)	<0.001	0.983 (0.978-0.988)
Ischemic stroke [†]	1.00	1.01 (0.89-1.14)	0.91 (0.80-1.03)	0.81 (0.70-0.93)	0.73 (0.64-0.85)	<0.001	0.984 (0.979-0.989)
Hemorrhagic stroke [‡]	1.00	0.77 (0.42-1.40)	0.80 (0.44-1.45)	0.48 (0.23-1.00)	0.64 (0.32-1.28)	0.096	0.983 (0.957-1.01)

[†]Adjusted for age, sex, race, types of insurance, income, and smoking. [‡] Adjusted for age, sex and race.

Online table IV. HRs of stroke according to different levels of BMI during follow-up and at last visit among various subpopulations

	Body mass index (kg/m ²)					P _{trend}	P _{interaction}
	18.5-24.9	25.0-29.9	30-34.9	35-39.9	≥40		
Follow-up							
<i>Race</i>							
African American	1.00	0.98 (0.83-1.15)	0.85 (0.72-1.00)	0.77 (0.64-0.93)	0.78 (0.64-0.94)	<0.001	>0.25
White	1.00	0.95 (0.79-1.16)	0.93 (0.77-1.13)	0.83 (0.67-1.02)	0.70 (0.57-0.87)	<0.001	
<i>Sex</i>							
Male	1.00	1.07 (0.89-1.29)	0.91 (0.75-1.10)	0.88 (0.70-1.10)	0.65 (0.50-0.85)	0.001	>0.10
Female	1.00	0.89 (0.75-1.05)	0.84 (0.71-0.99)	0.73 (0.62-0.88)	0.72 (0.61-0.86)	<0.001	
<i>Age groups, yr</i>							
<50	1.00	1.11 (0.87-1.40)	0.96 (0.76-1.22)	0.80 (0.62-1.03)	0.74 (0.58-0.94)	0.001	>0.75
50-59	1.00	0.89 (0.72-1.09)	0.80 (0.65-0.98)	0.74 (0.59-0.93)	0.68 (0.54-0.85)	<0.001	
60-94	1.00	0.89 (0.72-1.09)	0.81 (0.65-1.00)	0.74 (0.58-0.95)	0.64 (0.48-0.85)	0.001	
<i>Smoking status</i>							
Never smoking	1.00	0.93 (0.77-1.12)	0.94 (0.78-1.13)	0.82 (0.67-1.01)	0.83 (0.68-1.02)	0.023	>0.10
Past smoking	1.00	1.44 (0.84-2.47)	1.23 (0.72-2.12)	1.36 (0.78-2.37)	0.70 (0.38-1.29)	0.139	
Current smoking	1.00	1.07 (0.85-1.35)	0.87 (0.68-1.11)	0.76 (0.57-1.02)	0.77 (0.56-1.05)	0.013	
<i>HbA1c, %</i>							
<7	1.00	0.89 (0.75-1.06)	0.83 (0.70-0.99)	0.69 (0.56-0.84)	0.62 (0.51-0.77)	<0.001	<0.01
≥7	1.00	1.06 (0.88-1.26)	0.93 (0.78-1.12)	0.90 (0.74-1.09)	0.85 (0.70-1.04)	0.018	
<i>Using glucose-lowering agents</i>							
No	1.00	0.91 (0.75-1.10)	0.72 (0.59-0.88)	0.65 (0.51-0.81)	0.63 (0.50-0.79)	<0.001	<0.005
Oral hypoglycemic agents	1.00	0.90 (0.71-1.15)	0.86 (0.67-1.10)	0.68 (0.51-0.89)	0.58 (0.43-0.77)	<0.001	
Insulin	1.00	1.13 (0.90-1.41)	1.10 (0.88-1.38)	1.04 (0.82-1.31)	0.95 (0.75-1.21)	0.342	
<i>Using antihypertensive drugs</i>							
No	1.00	0.89 (0.64-1.24)	0.92 (0.66-1.29)	0.67 (0.45-1.02)	0.73 (0.48-1.10)	0.064	>0.50

No	1.00	1.30 (0.94-1.79)	0.95 (0.67-1.35)	0.75 (0.48-1.16)	0.94 (0.62-1.41)	0.174	
Yes	1.00	0.79 (0.70-0.90)	0.76 (0.67-0.86)	0.68 (0.59-0.78)	0.63 (0.55-0.73)	<0.001	
<i>Using cholesterol-lowering agent</i>							>0.50
No	1.00	0.98 (0.82-1.18)	0.80 (0.66-0.96)	0.65 (0.52-0.81)	0.67 (0.54-0.83)	<0.001	
Yes	1.00	0.74 (0.63-0.86)	0.73 (0.63-0.85)	0.68 (0.57-0.80)	0.64 (0.54-0.75)	<0.001	

Adjusted for age, sex, race, income, type of insurance, and smoking status during follow-up (in the follow-up analyses) and at last visit (in the last visit analyses), other than the variable for stratification.