

Figure S1 Number of times of participants blood glucose measurements*

* 40,975 clinical measurements of glucose levels from 12,321 participants without stroke were used to examine the relationship between glucose levels and the risk of stroke. Specific number of times of participants blood glucose measurements are shown in this figure.

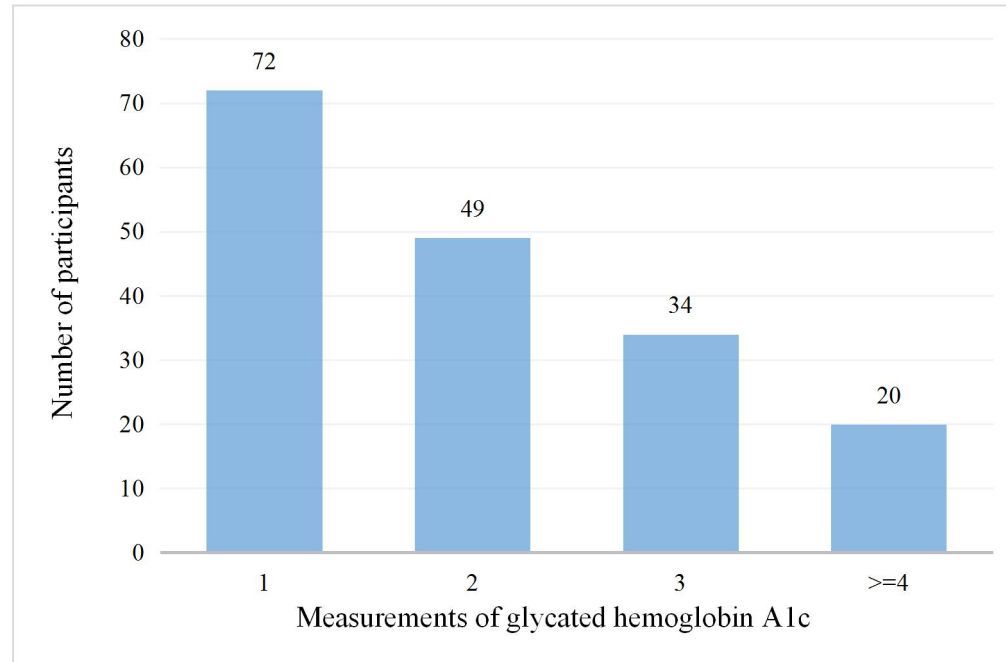


Figure S2 Number of times of participants glycated hemoglobin A1c measurements*

* 367 measurements of glycated hemoglobin A1c levels from 12,321 participants without stroke were used to examine the relationship between glucose levels and the risk of stroke. Specific number of times of participants glycated hemoglobin A1c measurements are shown in this figure.

Supplementary Table 1 Risk of Incident Stroke Associated with Average Glucose Level Stratification by sex or hypertension

	Average Glucose Level (mg/dl)						P for trend
	80-89.9	90-99.9	100-109.9	110-125.9	126-139.9	140-	
Male							
Total stroke	0.88 (0.32-2.45)	1	1.06 (0.7-1.59)	1.56 (0.85-2.85)	2.05 (1.12-3.76)	1.28 (0.45-3.59)	0.0313
Nonfatal stroke	1.02 (0.24-4.32)	1	1.15 (0.66-2)	1.75 (0.81-3.79)	1.56 (0.63-3.84)	1.01 (0.23-4.37)	0.2914
Fatal stroke	0.71 (0.17-3.01)	1	1 (0.54-1.83)	1.3 (0.49-3.46)	2.46 (1.07-5.61)	1.73 (0.4-7.48)	0.0472
Female							
Total stroke	0.39 (0.05-2.84)	1	1.12 (0.76-1.66)	1.16 (0.65-2.06)	1.58 (0.85-2.97)	2.28 (1.16-4.48)	0.0102
Nonfatal stroke	1.09 (0.14-8.26)	1	1.25 (0.66-2.35)	1.55 (0.66-3.64)	3.04 (1.33-6.92)	2.86 (1.03-7.89)	0.0041
Fatal stroke	None*	1	1.06 (0.64-1.74)	0.88 (0.4-1.96)	0.71 (0.25-2.06)	1.87 (0.75-4.66)	0.4569
With hypertension							
Total stroke	0.55 (0.14-2.27)	1	1.07 (0.77-1.49)	1.16 (0.72-1.87)	1.5 (0.9-2.5)	1.7 (0.92-3.11)	0.0257
Nonfatal stroke	0.64 (0.09-4.72)	1	1.16 (0.72-1.9)	1.59 (0.84-3)	1.94 (0.98-3.86)	2.04 (0.88-4.73)	0.0118
Fatal stroke	0.47 (0.06-3.42)	1	0.99 (0.63-1.55)	0.78 (0.37-1.63)	1.05 (0.48-2.29)	1.32 (0.55-3.21)	0.6739
Without hypertension							
Total stroke	0.99 (0.3-3.26)	1	0.92 (0.52-1.62)	1.33 (0.54-3.22)	2.3 (1-5.28)	1.74 (0.41-7.44)	0.0974
Nonfatal stroke	1.92 (0.43-8.54)	1	0.84 (0.36-1.96)	0.85 (0.19-3.81)	2 (0.57-7.03)	None	0.7887
Fatal stroke	0.45 (0.06-3.43)	1	1.05 (0.49-2.25)	1.7 (0.55-5.2)	2.5 (0.82-7.63)	5.06 (1.1-23.31)	0.0133

Subgroup analyses of the association between average glucose level and the risk of incident stroke. Hazard ratios (HRs) and the 95% confidence interval in all participants stratified by sex, hypertension were calculated by Cox regression model after adjustment for age, education, smoke, drink, sport, BMI, total cholesterol. Hypertension was defined as systolic or diastolic blood pressure of 140/90mmHg or higher or a history of hypertension.

*None: without adverse events