Supplemental material

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Supplementary tables

Supplementary Table S1: Hazard ratios for the association between casual blood glucose and risk of fatal or nonfatal acute myocardial infarction, stroke, cardiovascular and all-cause mortality in 159,451 Norwegian men and women followed up to 12.7 years (imputed data).

	Events/No.	Baseline blood glucose level		
		<7.8 (Normal)	7.8-11.0 (Borderline) HR (95% CI)	>11.0 (High) HR (95% CI)
Acute myocardial infarction	6569/159,731	1 (ref.)	1.20 (1.03-1.39)	1.53 (1.10-2.12)
Stroke	6117/159,731	1 (ref.)	1.39 (1.20-1.59)	2.01 (1.49-2.73)
Cardiovascular mortality	5678/159,731	1 (ref.)	1.37 (1.19-1.57)	2.07 (1.56-2.76)
All-cause mortality	17,096/159,731	1 (ref.)	1.29 (1.19-1.40)	1.74 (1.44-2.10)

HR indicates hazard ratio; 95 % CI, 95 % confidence interval.

* Adjusted for age, sex and time since last meal.

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Supplementary Table S2: Hazard ratios for the association between casual blood glucose and risk of fatal or nonfatal acute myocardial infarction, stroke, cardiovascular and all-cause mortality using participants with complete data on all relevant variables (n=99 643).

	Events/No.	Model 1 HR (95% CI)	Model 2 HR (95% CI)	Model 3 HR (95% CI)	Model 4 HR (95% CI)
Acute myocardial infarction					
Normal	3384/97436	1	1	1	1
Borderline	138/1995	1.15 (0.96-1.36)	1.06 (0.89-1.26)	1.06 (0.89-1.26)	1.05 (0.89-1.25)
High	20/212	1.46 (0.94-2.27)	1.21 (0.78-1.88)	1.21 (0.78-1.88)	1.20 (0.77-1.86)
Stroke					
Normal	3225/97436	1	1	1	1
Borderline	159/1995	1.40 (1.19-1.65)	1.31 (1.12-1.54)	1.31 (1.11-1.54)	1.30 (1.11-1.53)
High	24/212	1.87 (1.25-2.80)	1.66 (1.11-2.48)	1.66 (1.11-2.48)	1.65 (1.10-2.46)
Cardiovascular mortality					
Normal	2928/97436	1	1	1	1
Borderline	153/1995	1.31 (1.11-1.54)	1.23 (1.05-1.45)	1.23 (1.05-1.46)	1.22 (1.03-1.44)
High	25/212	1.98 (1.34-2.94)	1.82 (1.23-2.70)	1.84 (1.24-2.73)	1.80 (1.21-2.70)
All-cause mortality					
Normal	8703/97436	1	1	1	1
Borderline	412/1995	1.26 (1.14-1.40)	1.23 (1.11-1.36)	1.23 (1.23-1.36)	1.22 (1.10-1.35)
High	59/212	1.63 (1.26-2.11)	1.59 (1.23-2.05)	1.61 (1.24-2.08)	1.58 (1.23-2.05)

HR indicates hazard ratio; 95 % CI, 95 % confidence interval.
Model 1: Cox regression with adjustment for age, sex and time since last meal.
Model 2: Cox regression with adjustment for age, time since last meal, total cholesterol, systolic blood pressure, BMI, smoking, education and marital status.
Model 3: Cox-regression with the same adjustment variables as Model 2, but with age modeled using cubic splines to take into account non-linearity.
Model 4: Cox regression with adjustment for variables in Model 2 plus additional adjustment for frequency of hard physical activity, depressive symptoms, family history of AMI or stroke before age 60 and use of blood pressure medication.

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Supplementary Table S3: Casual blood glucose and risk of incidence of fatal or nonfatal acute myocardial infarction and stroke and cardiovascular and all cause death in 159,731 Norwegian men and women, followed up to 12.7 years, stratified by age (imputed data).

	Events/No.	Baseline casual blood glucose level		
		<7.8 mmol/L(Normal)	7.8-11.0 mmol/L (Borderline)	>11.0 mmol/L (High)
Acute myocardial infarction				
<65 yrs.	2935/130,987			
Adjusted HR (95 % CI)*		1 (ref.)	1.26 (0.98-1.62)	1.04 (0.53-2.04)
Adjusted HR (95% CI) †		1 (ref.)	1.05 (0.39-1.52)	0.77 (0.39-1.52)
≥65 yrs.	3634/28,744			
Adjusted HR (95 % CI)*		1 (ref.)	1.16 (0.97-1.40)	1.78 (1.22-2.59)
Adjusted HR (95% CI) †		1 (ref.)	1.13 (0.94-1.36)	1.69 (1.16-2.46)
Stroke				
<65 yrs.	2220/130,987			
Adjusted HR (95 % CI)*		1 (ref.)	1.44 (1.20-1.84)	2.45 (1.39-4.31)
Adjusted HR (95% CI) †		1 (ref.)	1.20 (0.94-1.54)	1.87 (1.06-3.31)
≥65 yrs.	3897/28,744			
Adjusted HR (95 % CI)*		1 (ref.)	1.37 (1.16-1.62)	1.86 (1.29-2.67)
Adjusted HR (95% CI) †		1 (ref.)	1.32 (1.11-1.56)	1.72 (1.20-2.48)
Cardiovascular mortality				
<65 yrs.	1033/130,987			
Adjusted HR (95 % CI)*		1 (ref.)	1.29 (0.89-1.89)	3.58 (1.90-6.72)
Adjusted HR (95% CI) †		1 (ref.)	1.05 (0.72-1.53)	2.64 (1.38-5.04)
≥65 yrs.	4645/28,744			
Adjusted HR (95 % CI)*		1 (ref.)	1.36 (1.17-1.58)	1.83 (1.33-2.52)
Adjusted HR (95% CI) †		1 (ref.)	1.30 (1.12-1.52)	1.72 (1.25-2.38)
All-cause mortality				
<65 yrs.	4756/130,987			
Adjusted HR (95 % CI)*		1 (ref.)	1.26 (1.05-1.51)	1.92 (1.24-2.98)
Adjusted HR (95% CI) †		1 (ref.)	1.17 (0.97-1.39)	1.71 (1.10-2.67)
≥65 yrs.	12,340/28,744			

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Adjusted HR (95 % CI)*		1 (ref.)	1.28 (1.17-1.41)	1.69 (1.36-2.10)
Adjusted HR (95% CI) †		1 (ref.)	1.27 (1.16-1.39)	1.67 (1.34-2.08)

HR indicates hazard ratio; 95 % CI, 95 % confidence interval.

* Adjusted for age, sex and time since last meal.

† Adjusted for age, sex, cholesterol, systolic blood pressure, BMI, time since last meal, smoking, education and marital status.