

SUPPLEMENTARY DATA

Supplementary Table 1. Hazard ratios per 1 mg/dL fasting glucose for incident hypertension among ARIC participants, stratified by diabetes status at Visit 2.

	No History of Diabetes		Diagnosed Diabetes	
	<i>Self-reported hypertension</i>	<i>Visit-based hypertension</i>	<i>Self-reported hypertension</i>	<i>Visit-based hypertension</i>
	(mean follow-up: 16.1 years)	(mean follow-up: 5.5 years)	(mean follow-up: 9.1 years)	(mean follow-up: 5.1 years)
# Cases / Participants	4729/8906	1645/7062	377 / 543	105/331
Model 1	1.008 (1.006-1.009)*	1.004 (1.002-1.007)*	1.003 (1.001-1.004)*	1.004 (1.001-1.006)*
Model 2	1.006 (1.004-1.007)*	1.002 (1.000-1.005)	1.002 (1.001-1.004)*	1.004 (1.001-1.006)*
Model 3	1.003 (1.001-1.005)*	0.999 (0.996-1.002)	1.002 (1.001-1.003)*	1.003 (1.001-1.006)*

Model 1: Adjusted for age, sex, race, and center.

Model 2: Model 1 + smoking, physical activity, educational attainment, triglycerides (ln-transformed).

Model 3: Model 2 + body mass index, waist-to-hip ratio.

* $p < 0.05$.

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Supplementary Table 2. Hazard ratios for incident hypertension using fasting glucose clinical categories.

	No History of Diabetes			Diagnosed Diabetes	P trend
Fasting glucose category	<100 mg/dL(ref)	100-125 mg//dL	≥ 126 mg/dL (undiagnosed diabetes)		
Self-reported hypertension (Mean follow-up: 11.6 years)					
Model 1	1.00	1.24 (1.17-1.32)*	1.60 (1.43-1.80)*	2.13 (1.91-2.39)*	< 0.001
Model 2	1.00	1.18 (1.11-1.26)*	1.42 (1.26-1.59)*	1.86 (1.66-2.09)*	< 0.001
Model 3	1.00	1.08 (1.02-1.15)*	1.23 (1.09-1.38)*	1.59 (1.42-1.79)*	< 0.001
Visit-based hypertension (Mean follow-up: 5.4 years)					
Model 1	1.00	1.12 (1.01-1.24)*	1.14 (0.93-1.41)	1.40 (1.15-1.71)*	0.005
Model 2	1.00	1.07 (0.96-1.18)	1.01 (0.81-1.25)	1.22 (0.99-1.49)	0.241
Model 3	1.00	0.99 (0.89-1.19)	0.89 (0.71-1.10)	1.03 (0.84-1.27)	0.675

For self-reported hypertension analyses 5177 incident hypertension cases were observed of 9603 participants in the analytic sample. For visit-based analyses 1789 incident cases were observed of 7551 participants in the analytic sample.

Model 1: Adjusted for age, sex, race, and center.

Model 2: Model 1 + smoking, physical activity, educational attainment, triglycerides (ln-transformed).

Model 3: Model 2 + body mass index, waist-to-hip ratio.

* p < 0.05.