

Appendix C. Trends in estimated cardiovascular event risk and prevalence of myocardial infarction and strokes in U.S. adults aged ≥ 18 years by prediabetes definitions, NHANES 1988 to 2014

	1988-1994	1999-2004	2005-2010	2011-2014	Δ from 88-94 to 11-14	P for trend
10-yr CVD risk						
Framingham						
FPG 100-125mg/dl or A1c 5.7-6.4%	7.7 (7.3-8.1)	6.8 (6.5-7.0)	5.6 (5.3-5.8)	5.4 (5.1-5.7)	-2.3 (-2.9, -1.7)	<0.001
FPG 110-125mg/dl or A1c 5.7-6.4%	8.1 (7.6-8.6)	6.9 (6.6-7.3)	5.5 (5.2-5.9)	5.3 (5.0-5.7)	-2.8 (-3.4, -2.2)	<0.001
FPG 110-125mg/dl or A1c 6.0-6.4%	8.7 (7.7-9.7)	7.0 (6.4-7.5)	5.9 (5.5-6.3)	5.3 (4.8-5.8)	-3.4 (-4.4, -2.4)	<0.001
FPG 100-125mg/dl and A1c 5.7-6.4%	9.0 (8.0-9.9)	7.0 (6.4-7.6)	6.0 (5.6-6.5)	5.6 (5.1-6.2)	-3.4 (-4.6, -2.2)	<0.001
UKPDS						
FPG 100-125mg/dl or A1c 5.7-6.4%	8.9 (8.2-9.5)	7.7 (7.4-8.1)	6.3 (6.0-6.6)	6.1 (5.7-6.6)	-2.7 (-3.5, -1.9)	<0.001
FPG 110-125mg/dl or A1c 5.7-6.4%	9.6 (8.9-10.3)	8.4 (7.9-8.9)	6.6 (6.2-7.0)	6.2 (5.6-6.7)	-3.4 (-4.2, -2.6)	<0.001
FPG 110-125mg/dl or A1c 6.0-6.4%	9.8 (8.9-10.8)	8.7 (7.8-9.5)	7.2 (6.5-7.8)	6.3 (5.4-7.2)	-3.5 (-4.7, -2.3)	<0.001
FPG 100-125mg/dl and A1c 5.7-6.4%	11.8 (10.6-13.0)	9.2 (8.5-9.9)	7.3 (6.7-7.9)	6.9 (6.0-7.8)	-4.9 (-6.5, -3.3)	<0.001
ASCVD						
FPG 100-125mg/dl or A1c 5.7-6.4%	8.9 (8.3-9.4)	8.7 (8.2-9.2)	7.2 (6.7-7.7)	6.9 (6.4-7.4)	-1.9 (-2.5, -1.3)	<0.001
FPG 110-125mg/dl or A1c 5.7-6.4%	9.1 (8.5-9.6)	8.6 (7.9-9.2)	6.9 (6.3-7.6)	6.5 (5.9-7.1)	-2.5 (-3.3, -1.7)	<0.001
FPG 110-125mg/dl or A1c 6.0-6.4%	8.7 (7.8-9.5)	8.4 (7.4-9.3)	7.6 (6.8-8.5)	6.3 (5.2-7.5)	-2.3 (-3.7, -0.9)	0.001
FPG 100-125mg/dl and A1c 5.7-6.4%	9.9 (9.0-10.8)	8.8 (7.9-9.8)	7.4 (6.4-8.4)	6.6 (5.7-7.5)	-3.3 (-4.5, -2.1)	<0.001
Previous MI						
FPG 100-125mg/dl or A1c 5.7-6.4%	3.6 (2.8-4.6)	3.4 (2.8-4.2)	3.8 (3.2-4.6)	3.6 (2.5-5.2)	0.0 (-1.6, 1.6)	0.874
FPG 110-125mg/dl or A1c 5.7-6.4%	3.9 (2.9-5.4)	3.6 (2.8-4.6)	3.9 (3.0-5.0)	3.6 (2.3-5.6)	-0.3 (-2.3, 1.7)	0.831
FPG 110-125mg/dl or A1c 6.0-6.4%	4.7 (3.5-6.3)	3.9 (3.0-5.2)	3.7 (2.9-4.7)	3.1 (2.1-4.4)	-1.6 (-3.4, 0.2)	0.069
FPG 100-125mg/dl and A1c 5.7-6.4%	4.4 (3.0-6.3)	3.8 (2.3-6.1)	4.1 (2.9-5.8)	3.1 (2.0-4.8)	-1.3 (-3.5, 0.9)	0.307
Previous Stroke						
FPG 100-125mg/dl or A1c 5.7-6.4%	2.2 (1.5-3.0)	2.4 (1.9-3.1)	2.5 (1.9-3.2)	2.5 (1.8-3.4)	+0.4 (-0.6, 1.4)	0.505
FPG 110-125mg/dl or A1c 5.7-6.4%	2.0 (1.4-3.0)	2.3 (1.8-3.1)	2.4 (1.7-3.2)	2.0 (1.4-2.8)	0.0 (-1.0, 1.0)	0.976
FPG 110-125mg/dl or A1c 6.0-6.4%	1.9 (1.2-3.1)	2.1 (1.4-3.0)	2.3 (1.6-3.3)	1.5 (1.0-2.5)	-0.4 (-1.6, 0.8)	0.619
FPG 100-125mg/dl and A1c 5.7-6.4%	2.1 (1.3-3.4)	2.2 (1.3-3.9)	2.6 (1.7-4.1)	1.8 (1.0-3.2)	-0.3 (-1.7, 1.1)	0.741

Abbreviations: NHANES, National Health and Nutrition Examinations Surveys; CVD, cardiovascular disease; UKPDS, United Kingdom Prospective Diabetes Study; ASCVD, Atherosclerotic Cardiovascular Disease guidelines (from American Heart Association and American College of Cardiology); MI, myocardial infarction; yr, year; FPG, fasting plasma glucose; A1c, glycated hemoglobin

10-yr CVD risk calculated using Framingham, UKPDS, and ASCVD risk scores

All analyses adjusted for age, sex, and race/ethnicity

P for trend: Calculated for each glycemic status group by including a continuous variable for the midpoint of each survey period in logistic regression models; significant values indicated variation over time within glycemic groups