

Supplementary Online Content

Paynter NP, Mazer NA, Pradhan AD, Gaziano JM, Ridker PM, Cook NR. Cardiovascular risk prediction in diabetic men and women using hemoglobin A_{1c} vs diabetes as a high-risk equivalent. *Arch Intern Med*. doi:10.1001/archinternmed.2011.351. Published online July 25, 2011.

eTable. Table of beta coefficients, standard errors, hazard ratios and 10 year survival for models including HbA1c

eFigure. Distribution of predicted 10-year cardiovascular risk in diabetic participants from ATP III models including A1c for age-matched subsample

This supplementary material has been provided by the authors to give readers additional information about their work.

eTable1: Table of Beta Coefficients, Standard Errors, Hazard Ratios and 10 year Survival for Models Including HbA1c

	Women's Health Study				Physician's Health Study II			
	ATP III		RRS		ATP III		RRS	
	β (SE)	HR (95%CI)	β (SE)	HR (95%CI)	β (SE)	HR (95%CI)	β (SE)	HR (95%CI)
Age, years*	4.370 (0.280)	79.0 (45.7, 136.7)	4.549 (0.283)	94.5 (54.3, 164.6)	4.038 (0.238)	56.7 (35.8, 90.3)	4.034 (0.241)	67.8 (35.2, 90.6)
Systolic blood pressure, mm Hg*	3.593 (0.330)	36.3 (19.0, 69.4)	3.273 (0.336)	26.4 (13.7, 51.0)	2.705 (0.264)	15.0 (8.9, 25.1)	2.562 (0.264)	13.0 (7.7, 21.8)
High density lipoprotein cholesterol, mg/dL*	-1.129 (0.136)	0.32 (0.25, 0.42)	-1.018 (0.137)	0.36 (0.28, 0.47)	-0.814 (0.075)	0.44 (0.38, 0.51)	-0.760 (0.077)	0.47 (0.40, 0.54)
Total cholesterol, mg/dL*	1.276 (0.187)	3.52 (2.48, 5.17)	1.149 (0.189)	3.16 (2.18, 4.57)	0.820 (0.146)	2.27 (1.71, 3.02)	0.800 (0.146)	2.22 (1.67, 3.00)
C-reactive protein, mg/L*	-	-	0.174 (0.034)	1.19 (1.11, 1.27)	-	-	0.108 (0.025)	1.11 (1.06, 1.16)
Current smoking, %	0.875 (0.086)	2.40 (2.03, 2.84)	0.869 (0.086)	2.38 (2.01, 2.82)	0.435 (0.117)	1.54 (1.23, 1.94)	0.352 (0.118)**	1.42 (1.13, 1.79)
Parental history of premature MI, %	-	-	0.408 (0.096)	1.50 (1.25, 1.82)	-	-	0.487 (0.072)	1.63 (1.14, 1.87)
A1C in diabetics, %	0.160 (0.013)	1.17 (1.14, 1.20)	0.151 (0.013)	1.16 (1.13, 1.19)	0.101 (0.011)	1.10 (1.08, 1.13)	0.098 (0.011)	1.10 (1.08, 1.13)
10 year average survival (S)	0.9825		0.9833		0.8841		0.8861	
Sum of β * average risk factors	37.18		36.27		31.23		30.65	

All p-values <0.001 unless noted

ATP III = base covariates from Adult Treatment Panel III, RRS = base covariates from Reynolds risk score,

* Coefficient is for the natural log

** p-value = 0.002

10 year predicted risk for an individual can be calculated for any of the models using

$$1-S*\exp(\text{Sum of } (\beta \text{ for each risk factor} * \text{individual values for each risk factor}) - \text{Sum of } \beta * \text{average risk factors})$$

eFigure1: Distribution of Predicted 10-Year Cardiovascular Risk in Diabetic Participants from ATP III Models including A1C for Age-Matched Subsample

