

SUPPLEMENTARY DATA

**Supplementary Table 1.** Risk prediction for incident diabetes among those at low risk

	C-Statistic	Change in C-Statistic**	p-value**
<b>No hypercholesterolemia</b>			
Age, gender, race	0.5735	Reference	Reference
+ Risk Factors*	0.6977	0.1242	<0.001
+ Fasting glucose	0.7441	0.1706	<0.001
+ hs-cTnT	0.5837	0.0102	<0.001
Fully adjusted without hs-cTnT	0.7624	0.1889	<0.001
Fully adjusted with hs-cTnT	0.7634	0.1898	0.054†
<b>No Statin use</b>			
Age, gender, race	0.5735	Reference	Reference
+ Risk Factors*	0.6981	0.1246	<0.001
+ Fasting glucose	0.7448	0.1713	<0.001
+ hs-cTnT	0.5838	0.0103	<0.001
Fully adjusted without hs-cTnT	0.7612	0.1886	<0.001
Fully adjusted with hs-cTnT	0.7631	0.1896	<b>0.038†</b>
<b>Age &lt; 65</b>			
Age, gender, race	0.5735	Reference	Reference
+ Risk Factors*	0.6980	0.1245	<0.001
+ Fasting glucose	0.7396	0.1661	<0.001
+ hs-cTnT	0.5833	0.0098	<0.001
Fully adjusted without hs-cTnT	0.7636	0.1901	<0.001
Fully adjusted with hs-cTnT	0.7648	0.1913	<b>0.050†</b>
<b>No hypertension</b>			
Age, gender, race	0.5688	Reference	Reference
+ Risk Factors*	0.6902	0.1214	<0.001
+ Fasting glucose	0.7366	0.1678	<0.001
+ hs-cTnT	0.5808	0.0120	<0.001
Fully adjusted without hs-cTnT	0.7543	0.1855	<0.001
Fully adjusted with hs-cTnT	0.7557	0.1870	<b>0.047†</b>
<b>No metabolic syndrome</b>			
Age, gender, race	0.5736	Reference	Reference
+ Risk Factors*	0.6859	0.1122	<0.001
+ Fasting glucose	0.7285	0.1549	<0.001
+ hs-cTnT	0.5824	0.0087	<0.001
Fully adjusted without hs-cTnT	0.7625	0.1889	<0.001
Fully adjusted with hs-cTnT	0.7629	0.1893	0.661†
<b>Low risk group<sup>a</sup></b>			
Age, gender, race	0.5608	Reference	Reference
+ Risk Factors*	0.6910	0.1303	<0.001
+ Fasting glucose	0.7488	0.1880	<0.001
+ hs-cTnT	0.5673	0.0065	<0.001
Fully adjusted without hs-cTnT	0.7639	0.2032	<0.001
Fully adjusted with hs-cTnT	0.7621	0.2014	<b>0.004†</b>

\* Models adjusted for: age, race-center, gender, total cholesterol, HDL-C, LDL-C, triglycerides, body mass index, estimated glomerular filtration rate, systolic blood pressure, blood pressure-lowering medication use, smoking status, cholesterol-lowering medication use, family history coronary heart disease, waist circumference, physical activity, education level, and annual family income level

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\*\* Compared to age, gender, race, except where noted

† Compared to the fully adjusted model without hs-cTnT

a. Defined as  $\leq 1$  of hypertension, hypercholesterolemia, or fasting glucose  $\geq 100$

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**Supplementary Table 2.** Risk prediction for incident diabetes among whole sample

	<b>Change in NRI(95%CI)**</b>	<b>Change in IDI(95%CI)**</b>
<b>Overall</b>		
<b>Age, gender, race</b>	Reference	Reference
+ Risk Factors*	0.311(0.286-0.341)	0.089(0.079-0.102)
+ Fasting glucose	0.443(0.412-0.471)	0.099(0.090-0.111)
+ hs-cTnT	0.071(0.047-0.103)	0.005(0.003-0.008)
Fully adjusted without hs-cTnT	0.437(0.408-0.461)	0.166(0.151-0.183)
Fully adjusted with hs-cTnT	-0.004 (-0.109-0.029)†	0.001(0.000-0.004)†
<b>Low risk group<sup>a</sup></b>		
<b>Age, gender, race</b>	Reference	Reference
+ Risk Factors*	0.214(0.153-0.296)	0.024(0.015-0.046)
+ Fasting glucose	0.289(0.220-0.347)	0.044(0.031-0.065)
+ hs-cTnT	0.056(-0.020-0.113)	0.004(0.000-0.022)
Fully adjusted without hs-cTnT	0.359(0.270-0.420)	0.071(0.055-0.104)
Fully adjusted with hs-cTnT	0.021(-0.070-0.089)†	0.003(0.000-0.016)†
<b>Normal fasting glucose</b>		
<b>Age, gender, race</b>	Reference	Reference
+ Risk Factors*	0.220(0.167-0.287)	0.024(0.015-0.039)
+ Fasting glucose	0.050(0.000- 0.102)	0.002(0.000-0.005)
+ hs-cTnT	0.067(0.006-0.114)	0.004(0.001-0.012)
Fully adjusted without hs-cTnT	0.230(0.181-0.301)	0.024(0.018-0.042)
Fully adjusted with hs-cTnT	0.038(-0.075-0.099)†	0.003(0.000-0.010)†

\* Models adjusted for: age, race-center, gender, total cholesterol, HDL-C, LDL-C, triglycerides, body mass index, estimated glomerular filtration rate, systolic blood pressure, blood pressure-lowering medication use, smoking status, cholesterol-lowering medication use, family history coronary heart disease, waist circumference, physical activity, education level, and annual family income level

\*\* Compared to age, gender, race, except where noted

† Compared to the fully adjusted model without hs-cTnT

<sup>a</sup> Defined as no hypertension, hypercholesterolemia, or metabolic syndrome

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**Supplementary Table 3.** Hazard ratio of incident diabetes by major diabetes risk factor groups stratified by hs-cTnT with the first two years of follow-up excluded

	≤5 ng/L	6-8 ng/L	9-13 ng/L	≥14 ng/L	p for trend
<b>Overall</b>					
Model 1	Reference	0.96 (0.85-1.10)	<b>1.11 (0.95-1.30)</b>	<b>1.23 (1.00-1.51)</b>	<b>0.059</b>
Model 2	Reference	0.92 (0.81-1.04)	1.13 (0.97-1.32)	1.10 (0.89-1.35)	0.220
<b>Undiagnosed diabetes</b>					
Model 1	Reference	0.89 (0.65-1.23)	1.10 (0.74-1.65)	0.78 (0.51-1.19)	0.431
Model 2	Reference	0.85 (0.62-1.16)	1.17 (0.79-1.75)	0.75 (0.49-1.16)	0.424
<b>Fasting glucose</b>					
<b>Normal</b>					
Model 1	Reference	0.87 (0.66-1.14)	0.99 (0.69-1.42)	<b>1.87 (1.25-2.79)</b>	0.088
Model 2	Reference	0.87 (0.67-1.14)	1.00 (0.70-1.43)	<b>1.88 (1.26-2.81)</b>	0.080
<b>Impaired</b>					
Model 1	Reference	0.94 (0.80-1.11)	1.09 (0.90-1.33)	0.94 (0.69-1.27)	0.874
Model 2	Reference	0.94 (0.80-1.11)	1.07 (0.88-1.31)	0.94 (0.69-1.27)	0.953
<b>Metabolic syndrome</b>					
<b>No</b>					
Model 1	Reference	0.90 (0.72-1.11)	0.98 (0.74-1.30)	<b>1.53 (1.09-2.15)</b>	0.202
Model 2	Reference	0.80 (0.64-1.00)	0.93 (0.71-1.23)	<b>1.45 (1.03-2.05)</b>	0.484
<b>Yes</b>					
Model 1	Reference	1.00 (0.85-1.17)	1.18 (0.97-1.42)	1.14 (0.88-1.48)	0.116
Model 2	Reference	0.95 (0.81-1.12)	1.21 (1.00-1.46)	0.98 (0.76-1.28)	0.372

**Model 1:** age, race-center, gender, total cholesterol, HDL-C, LDL-C, triglycerides, body mass index, estimated glomerular filtration rate, systolic blood pressure, blood pressure-lowering medication use, smoking status, cholesterol-lowering medication use, family history coronary heart disease, waist circumference, physical activity, education level, and annual family income level

**Model 2:** Model 1 + fasting glucose

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**Supplementary Table 4.** Hazard ratio of incident diabetes by major diabetes risk factor groups stratified by hs-cTnT with the first five years of follow-up excluded

	≤5 ng/L	6-8 ng/L	9-13 ng/L	≥14 ng/L	p for trend
<b>Overall</b>					
Model 1	Reference	0.93 (0.79-1.08)	1.05 (0.87-1.28)	1.16 (0.90-1.51)	0.398
Model 2	Reference	0.85 (0.72-1.00)	1.06 (0.87-1.28)	1.06 (0.82-1.39)	0.751
<b>Model 3</b>	Reference	0.85 (0.73-1.00)	1.06 (0.87-1.28)	1.06 (0.81-1.38)	0.780
<b>Undiagnosed diabetes</b>					
Model 1	Reference	0.70 (0.40-1.22)	0.97 (0.43-2.16)	0.87 (0.42-1.80)	0.673
Model 2	Reference	0.71 (0.40-1.24)	0.97 (0.43-2.16)	0.86 (0.41-1.78)	0.654
<b>Model 3</b>	Reference	0.72 (0.41-1.27)	0.93 (0.42-2.07)	0.90 (0.43-1.88)	0.728
<b>Fasting glucose</b>					
<b>Normal</b>					
Model 1	Reference	0.82 (0.61-1.12)	1.10 (0.75-1.61)	<b>1.73 (1.09-2.73)</b>	0.150
Model 2	Reference	0.83 (0.61-1.12)	1.10 (0.75-1.61)	<b>1.73 (1.09-2.74)</b>	0.144
<b>Model 3</b>	Reference	0.83 (0.61-1.12)	1.11 (0.76-1.62)	<b>1.72 (1.09-2.72)</b>	0.142
<b>Impaired</b>					
Model 1	Reference	0.94 (0.77-1.14)	1.00 (0.79-1.27)	0.90 (0.63-1.29)	0.660
Model 2	Reference	0.94 (0.78-1.15)	1.00 (0.79-1.27)	0.90 (0.63-1.30)	0.653
<b>Model 3</b>	Reference	0.94 (0.78-1.15)	1.00 (0.78-1.26)	0.89 (0.62-1.29)	0.622
<b>Metabolic syndrome</b>					
<b>No</b>					
Model 1	Reference	0.88 (0.69-1.13)	1.05 (0.77-1.45)	1.46 (0.96-2.21)	0.287
Model 2	Reference	0.86 (0.67-1.10)	1.02 (0.74-1.41)	1.38 (0.91-2.10)	0.448
<b>Model 3</b>	Reference	0.86 (0.67-1.10)	1.02 (0.74-1.41)	1.38 (0.91-2.10)	0.450
<b>Yes</b>					
Model 1	Reference	0.94 (0.77-1.15)	1.05 (0.82-1.33)	1.06 (0.76-1.49)	0.735
Model 2	Reference	0.86 (0.70-1.06)	1.05 (0.82-1.34)	0.96 (0.69-1.35)	0.905
<b>Model 3</b>	Reference	0.86 (0.71-1.06)	1.04 (0.82-1.33)	0.95 (0.68-1.33)	0.834

**Model 1:** age, race-center, gender, total cholesterol, HDL-C, LDL-C, triglycerides, body mass index, estimated glomerular filtration rate, systolic blood pressure, blood pressure-lowering medication use, smoking status, cholesterol-lowering medication use, family history coronary heart disease, waist circumference, physical activity, education level, and annual family income level

**Model 2:** Model 1 + fasting glucose

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**Supplementary Table 5.** Hazard ratio of incident diagnosed diabetes overall and by major diabetes risk factor groups stratified by hs-cTnT with an additional model adjusted for insulin

	≤5 ng/L	6-8 ng/L	9-13 ng/L	≥14 ng/L	p for trend
<b>Overall</b>					
Model 1	Reference	1.09 (0.97-1.23)	1.35 (1.16-1.56)	1.66 (1.36-2.02)	<0.001
Model 2	Reference	0.98 (0.86-1.11)	<b>1.14 (0.99-1.33)</b>	<b>1.25 (1.03-1.53)</b>	<b>0.018</b>
Model 3	Reference	0.93 (0.82-1.05)	1.12 (0.96-1.30)	1.13 (0.93-1.38)	0.154
Model 4	Reference	0.93 (0.82-1.05)	1.12 (0.96-1.30)	1.13 (0.93-1.38)	0.154
<b>Undiagnosed diabetes</b>					
Model 1	Reference	0.95 (0.72-1.24)	1.03 (0.74-1.43)	0.86 (0.59-1.24)	0.538
Model 2	Reference	0.94 (0.71-1.25)	1.13 (0.79-1.62)	0.84 (0.57-1.23)	0.615
Model 3	Reference	0.87 (0.66-1.16)	1.09 (0.77-1.55)	0.81 (0.55-1.19)	0.485
Model 4	Reference	0.87 (0.65-1.16)	1.10 (0.78-1.57)	0.79 (0.54-1.17)	0.452
<b>Fasting glucose</b>					
<b>Normal</b>					
Model 1	Reference	0.95 (0.73-1.23)	1.07 (0.75-1.51)	2.13 (1.44-3.15)	0.014
Model 2	Reference	0.91 (0.70-1.19)	1.02 (0.72-1.44)	<b>1.81 (1.22-2.70)</b>	0.078
Model 3	Reference	0.91 (0.70-1.19)	1.02 (0.72-1.45)	<b>1.82 (1.22-2.71)</b>	0.072
Model 4	Reference	<b>0.91 (0.70-1.19)</b>	1.03 (0.72-1.46)	<b>1.81 (1.22-2.70)</b>	<b>0.071</b>
<b>Impaired</b>					
Model 1	Reference	1.03 (0.88-1.21)	1.33 (1.10-1.61)	1.21 (0.90-1.62)	0.009
Model 2	Reference	0.93 (0.79-1.10)	1.15 (0.95-1.39)	0.96 (0.71-1.29)	0.578
Model 3	Reference	0.94 (0.79-1.10)	1.12 (0.93-1.36)	0.96 (0.72-1.29)	0.661
Model 4	Reference	0.94 (0.79-1.10)	1.12 (0.92-1.35)	0.95 (0.71-1.28)	0.718
P for interaction	<0.001	<0.001	<0.001	0.008	
<b>Metabolic syndrome</b>					
<b>No</b>					
Model 1	Reference	0.97 (0.79-1.20)	1.07 (0.82-1.40)	1.70 (1.23-2.37)	0.027
Model 2	Reference	0.91 (0.74-1.12)	1.00 (0.76-1.31)	<b>1.54 (1.10-2.15)</b>	0.150
Model 3	Reference	0.80 (0.65-1.00)	0.95 (0.72-1.25)	<b>1.47 (1.05-2.05)</b>	0.408
Model 4	Reference	<b>0.81 (0.66-1.01)</b>	<b>0.96 (0.73-1.26)</b>	<b>1.48 (1.06-2.06)</b>	<b>0.364</b>
<b>Yes</b>					
Model 1	Reference	1.08 (0.93-1.26)	1.34 (1.12-1.60)	1.39 (1.09-1.77)	<0.001
Model 2	Reference	1.01 (0.87-1.18)	1.21 (1.01-1.45)	1.18 (0.92-1.51)	0.043
Model 3	Reference	0.96 (0.82-1.12)	1.18 (0.98-1.41)	1.03 (0.80-1.32)	0.280
Model 4	Reference	0.96 (0.82-1.12)	1.18 (0.99-1.41)	1.01 (0.78-1.29)	0.348
P for interaction	<0.001	<0.001	0.008	0.598	

**Model 1:** age, race-center, gender

**Model 2:** Model 1 + Total cholesterol, LDL-C, HDL-C, triglycerides, cholesterol-lowering medication use, body mass index, systolic blood pressure, blood pressure-lowering medication use, smoking status, estimated glomerular filtration rate, family history coronary heart disease, waist circumference, physical activity, education level, and annual family income level

**Model 3:** Model 2 + fasting glucose

**Model 4:** Model 3 + insulin

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**Supplementary Table 6.** Hazard ratio of incident cardiovascular by major diabetes risk factor groups stratified by hs-cTnT

	≤5 ng/L	6-8 ng/L	9-13 ng/L	≥14 ng/L	p for trend
<b>Overall</b>					
Model 1	Reference	<b>1.15 (1.01-1.31)</b>	<b>1.61 (1.39-1.86)</b>	<b>2.75 (2.32-3.25)</b>	<0.001
Model 2	Reference	<b>1.17 (1.02-1.33)</b>	<b>1.55 (1.33-1.79)</b>	<b>2.38 (2.00-2.83)</b>	<0.001
Model 3	Reference	<b>1.16 (1.01-1.32)</b>	<b>1.55 (1.33-1.79)</b>	<b>2.20 (1.84-2.63)</b>	<0.001
<b>Undiagnosed diabetes</b>					
Model 1	Reference	1.36 (0.84-2.21)	1.53 (0.88-2.67)	<b>1.89 (1.11-3.22)</b>	0.017
Model 2	Reference	1.55 (0.92-2.61)	1.66 (0.90-3.06)	<b>2.26 (1.27-4.05)</b>	0.007
Model 3	Reference	1.47 (0.86-2.50)	1.74 (0.95-3.16)	<b>2.24 (1.23-4.05)</b>	0.007
<b>Fasting glucose</b>					
<b>Normal</b>					
Model 1	Reference	1.07 (0.89-1.29)	<b>1.50 (1.21-1.87)</b>	<b>2.42 (1.86-3.16)</b>	<0.001
Model 2	Reference	1.15 (0.95-1.39)	<b>1.51 (1.21-1.89)</b>	<b>2.25 (1.71-2.96)</b>	<0.001
Model 3	Reference	1.14 (0.94-1.38)	<b>1.51 (1.21-1.88)</b>	<b>2.24 (1.70-2.94)</b>	<0.001
<b>Impaired</b>					
Model 1	Reference	1.12 (0.93-1.37)	<b>1.58 (1.28-1.95)</b>	<b>2.76 (2.16-3.53)</b>	<0.001
Model 2	Reference	1.12 (0.92-1.37)	<b>1.51 (1.22-1.87)</b>	<b>2.34 (1.82-3.02)</b>	<0.001
Model 3	Reference	1.13 (0.92-1.37)	<b>1.52 (1.23-1.89)</b>	<b>2.35 (1.82-3.03)</b>	<0.001
P for interaction	0.092	<0.001	0.006	0.168	

**Model 1:** age, race-center, gender

**Model 2:** Model 1 + Total cholesterol, LDL-C, HDL-C, triglycerides, cholesterol-lowering medication use, body mass index, systolic blood pressure, blood pressure-lowering medication use, smoking status, estimated glomerular filtration rate, family history coronary heart disease, waist circumference, physical activity, education level, and annual family income level

**Model 3:** Model 2 + fasting glucose