

Supplementary Table 3. Subgroup analysis of the association between changes in predicted body composition index and new-onset diabetes mellitus

Variable	Male						Female					
	pASMMI		pBFMI		pLBMI		pASMMI		pBFMI		pLBMI	
	HR (95% CI)	P for interaction	HR (95% CI)	P for interaction	HR (95% CI)	P for interaction	HR (95% CI)	P for interaction	HR (95% CI)	P for interaction	HR (95% CI)	P for interaction
Age, yr		<0.001		<0.001		<0.001		0.003		<0.001		0.004
<65	0.855 (0.795–0.919)		1.076 (1.038–1.117)		0.928 (0.894–0.964)		0.459 (0.316–0.668)		1.342 (1.163–1.547)		0.765 (0.671–0.871)	
≥65	0.907 (0.861–0.955)		1.050 (1.022–1.078)		0.952 (0.927–0.978)		0.918 (0.763–1.105)		1.031 (0.960–1.106)		0.973 (0.912–1.038)	
Household income		0.002		<0.001		0.003		<0.001		<0.001		<0.001
T1, lowest	0.905 (0.813–1.006)		1.050 (0.994–1.108)		0.952 (0.901–1.006)		0.621 (0.441–0.874)		1.195 (1.048–1.361)		0.850 (0.755–0.958)	
T2	0.950 (0.859–1.050)		1.024 (0.973–1.077)		0.977 (0.927–1.029)		0.328 (0.228–0.472)		1.530 (1.332–1.758)		0.678 (0.597–0.770)	
T3	0.806 (0.746–0.870)		1.112 (1.069–1.156)		0.898 (0.863–0.935)		1.161 (0.838–1.610)		0.942 (0.832–1.066)		1.056 (0.943–1.183)	
T4, highest	0.926 (0.864–0.992)		1.039 (1.003–1.076)		0.962 (0.928–0.997)		0.832 (0.626–1.106)		1.070 (0.960–1.192)		0.940 (0.852–1.038)	
Smoking		<0.001		0.001		0.001		0.010		0.004		0.012
Never	0.825 (0.763–0.891)		1.102 (1.060–1.146)		0.906 (0.871–0.943)		0.774 (0.655–0.915)		1.100 (1.032–1.172)		0.917 (0.865–0.972)	
Former	0.987 (0.915–1.065)		1.005 (0.968–1.045)		0.995 (0.956–1.034)		0.858 (0.218–3.369)		1.070 (0.635–1.804)		0.940 (0.583–1.514)	
Current	0.841 (0.787–0.898)		1.087 (1.051–1.124)		0.919 (0.888–0.951)		0.367 (0.142–0.946)		1.471 (1.025–2.112)		0.703 (0.505–0.978)	
Alcohol consumption, day/wk		0.605		0.522		0.813		0.128		0.143		0.127
<1	0.827 (0.772–0.885)		1.098 (1.061–1.137)		0.909 (0.878–0.942)		0.747 (0.624–0.894)		1.115 (1.041–1.194)		0.906 (0.851–0.964)	
1–2	0.906 (0.847–0.969)		1.049 (1.014–1.086)		0.952 (0.920–0.986)		0.765 (0.490–1.192)		1.105 (0.933–1.309)		0.913 (0.782–1.065)	
3–4	1.006 (0.905–1.119)		0.995 (0.943–1.049)		1.006 (0.952–1.062)		1.205 (0.385–3.774)		0.933 (0.603–1.442)		1.065 (0.716–1.586)	
≥5	0.923 (0.796–1.069)		1.040 (0.965–1.121)		0.961 (0.891–1.037)		1.997 (0.311–12.815)		0.765 (0.377–1.553)		1.277 (0.669–2.438)	
Regular exercise, day/wk		0.051		0.062		0.100		0.003		0.001		0.003
<1	0.957 (0.904–1.012)		1.021 (0.992–1.050)		0.979 (0.951–1.008)		0.799 (0.657–0.971)		1.088 (1.010–1.172)		0.926 (0.865–0.991)	
1–2	0.787 (0.727–0.852)		1.125 (1.081–1.171)		0.887 (0.852–0.925)		0.706 (0.462–1.078)		1.089 (0.886–1.339)		0.898 (0.775–1.041)	
3–4	0.992 (0.880–1.118)		1.003 (0.944–1.065)		0.997 (0.938–1.061)		0.801 (0.466–1.375)		1.126 (0.958–1.323)		0.925 (0.766–1.117)	
≥5	0.987 (0.845–1.151)		1.006 (0.930–1.088)		0.994 (0.918–1.077)		0.420 (0.214–0.827)		1.391 (1.075–1.800)		0.740 (0.585–0.936)	
Fasting serum glucose, mg/dL		<0.001		<0.001		<0.001		<0.001		<0.001		<0.001
<100	1.023 (0.919–1.138)		0.984 (0.932–1.038)		1.017 (0.963–1.075)		0.861 (0.727–1.019)		1.055 (0.989–1.125)		0.952 (0.898–1.010)	
100–126	0.980 (0.936–1.025)		1.009 (0.986–1.032)		0.991 (0.968–1.015)		0.691 (0.384–1.245)		1.143 (0.913–1.431)		0.886 (0.721–1.087)	
Comorbidity												
Hypertension		<0.001		0.002		<0.001		<0.001		<0.001		<0.001
No	0.862 (0.816–0.910)		1.075 (1.045–1.105)		0.930 (0.904–0.956)		0.806 (0.645–1.007)		1.081 (0.993–1.177)		0.931 (0.862–1.007)	
Yes	0.896 (0.841–0.955)		1.056 (1.022–1.090)		0.947 (0.916–0.978)		0.705 (0.553–0.899)		1.143 (1.042–1.254)		0.885 (0.813–0.963)	
Dyslipidemia		0.086		0.349		0.119		0.003		0.003		0.003
No	0.843 (0.801–0.887)		1.087 (1.059–1.116)		0.919 (0.895–0.943)		0.866 (0.697–1.076)		1.055 (0.971–1.146)		0.953 (0.883–1.028)	
Yes	0.927 (0.863–0.997)		1.037 (1.000–1.075)		0.964 (0.929–1.001)		0.807 (0.629–1.036)		1.083 (0.985–1.191)		0.930 (0.853–1.014)	

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Supplementary Table 3. Continued

Variable	Male						Female					
	pASMMI		pBFMI		pLBMI		pASMMI		pBFMI		pLBMI	
	HR (95% CI)	<i>P</i> for interaction	HR (95% CI)	<i>P</i> for interaction	HR (95% CI)	<i>P</i> for interaction	HR (95% CI)	<i>P</i> for interaction	HR (95% CI)	<i>P</i> for interaction	HR (95% CI)	<i>P</i> for interaction
Atrial fibrillation		0.171		0.298		0.211		0.492		0.588		0.482
No	0.863 (0.828–0.900)		1.075 (1.052–1.098)		0.930 (0.910–0.950)		0.747 (0.634–0.880)		1.115 (1.048–1.187)		0.905 (0.855–0.959)	
Yes	1.773 (0.999–3.145)		0.746 (0.558–0.999)		1.346 (1.001–1.809)		1.331 (0.06–29.613)		0.889 (0.274–2.892)		1.113 (0.379–3.267)	
Charlson comorbidity index		0.010		0.041		0.017		<0.001		<0.001		<0.001
0	1.051 (0.970–1.139)		0.974 (0.935–1.014)		1.027 (0.986–1.070)		0.885 (0.652–1.199)		1.047 (0.932–1.176)		0.959 (0.863–1.066)	
1	0.985 (0.858–1.130)		1.006 (0.939–1.079)		0.994 (0.926–1.067)		0.722 (0.581–0.897)		1.129 (1.039–1.227)		0.895 (0.830–0.966)	
≥2	0.835 (0.793–0.878)		1.092 (1.064–1.121)		0.914 (0.891–0.939)		0.661 (0.428–1.021)		1.168 (0.990–1.379)		0.868 (0.746–1.009)	

pASMMI, predicted appendicular skeletal muscle mass index; pBFMI, predicted body fat mass index; pLBMI, predicted lean body mass index; HR, hazard ratio; CI, confidence interval.