

Supplementary Table 1: Predictors of all-cause, CVD, and cancer mortality in the multivariate analysis for men (N=14,679).

Items	All-cause mortality			CVD mortality			Cancer mortality		
	<i>P</i> value	HR	95% CI	<i>P</i> value	HR	95% CI	<i>P</i> value	HR	95% CI
Age (yrs)	<0.001	1.069	1.061–1.078	<0.001	1.082	1.068–1.095	<0.001	1.058	1.037–1.079
Education (high school or above)	0.029	0.79	0.639–0.976	0.8408	0.965	0.683–1.364	0.924	1.027	0.597–1.764
Current smoking	0.089	1.158	0.978–1.371	0.2179	1.189	0.903–1.566	0.388	1.220	0.777–1.917
Alcohol intake	0.016	1.265	1.045–1.532	0.6115	0.916	0.654–1.284	0.759	1.088	0.635–1.865
BMI (kg/m ²)	0.230	0.985	0.961–1.010	0.9753	1.000	0.999–1.001	0.953	0.998	0.933–1.067
Rural or urban residents	0.046	0.823	0.680–0.996	0.0074	0.648	0.471–0.890	0.351	0.781	0.465–1.313
TG (mmol/L)	0.780	1.006	0.964–1.051	0.5133	1.018	0.965–1.073	0.425	0.912	0.728–1.143
LDL-C (mmol/L)	0.328	1.044	0.958–1.138	0.5282	0.955	0.826–1.103	0.343	1.118	0.888–1.409
Hypertension	<0.001	1.364	1.148–1.620	<0.001	2.027	1.513–2.716	0.994	1.002	0.636–1.579
DM	0.042	1.285	1.009–1.636	0.0949	1.373	0.946–1.993	0.984	0.993	0.487–2.022
eGFR(mL/min/1.73m ²)	0.140	0.996	0.991–1.001	0.1681	0.994	0.985–1.003	0.093	0.988	0.973–1.002

BMI: Body mass index; CI: Confidence interval; CVD: Cardiovascular disease; eGFR: Estimated glomerular filtration rate; HR: Hazard ratio; LDL-C: Low-density lipoprotein cholesterol; TGs: Triglycerides.

Supplementary Table 2: Predictors of all-cause, CVD, and cancer mortality in the multivariate analysis for women (N=18,589) .

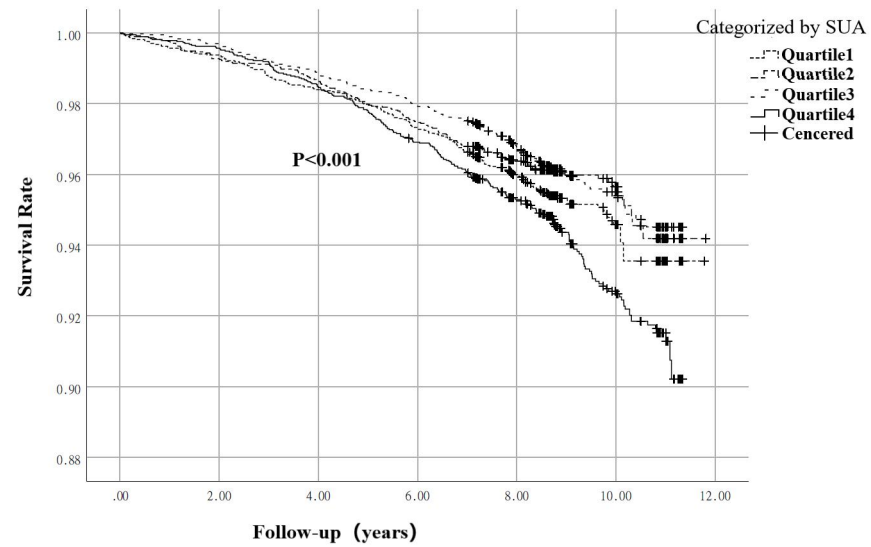
Items	All-cause mortality			CVD mortality			Cancer mortality		
	<i>P</i> value	HR	95% CI	<i>P</i> value	HR	95% CI	<i>P</i> value	HR	95% CI
Age (yrs)	<0.001	1.082	1.074–1.091	<0.001	1.102	1.071–1.135	<0.001	1.086	1.056–1.116
Education (high school or above)	0.427	0.897	0.686–1.173	0.248	0.481	0.139–1.666	0.591	0.828	0.416–1.647
Current smoking	0.006	1.664	1.160–2.386	0.848	1.153	0.270–4.929	0.903	1.093	0.259–4.618
Alcohol intake	0.892	1.037	0.616–1.746	0.359	1.973	0.463–8.420	0.387	1.882	0.450–7.879
BMI (kg/m ²)	0.992	1.000	1.000–1.000	0.970	1.000	0.999–1.000	0.996	1.000	0.999–1.001
Rural or urban residents	<0.001	0.691	0.568–0.839	0.347	0.717	0.358–1.434	0.386	1.306	0.714–2.390
TG (mmol/L)	0.484	1.021	0.964–1.081	0.236	1.058	0.964–1.162	0.422	0.883	0.652–1.196
LDL-C (mmol/L)	0.274	0.950	0.867–1.041	0.667	0.930	0.667–1.295	0.495	1.097	0.841–1.430
Hypertension	0.002	1.322	1.104–1.583	0.934	0.973	0.514–1.843	0.264	1.364	0.791–2.355
DM	0.005	1.420	1.114–1.809	0.023	2.439	1.129–5.267	0.257	1.502	0.743–3.035
eGFR(ml/min/1.73m ²)	0.015	0.994	0.988–0.999	0.164	1.014	0.994–1.035	0.156	1.014	0.995–1.034

BMI: Body mass index; CI: Confidence interval; CVD: Cardiovascular disease; eGFR: Estimated glomerular filtration rate; HR: Hazard ratio; LDL-C: Low-density lipoprotein cholesterol; TGs: Triglycerides.

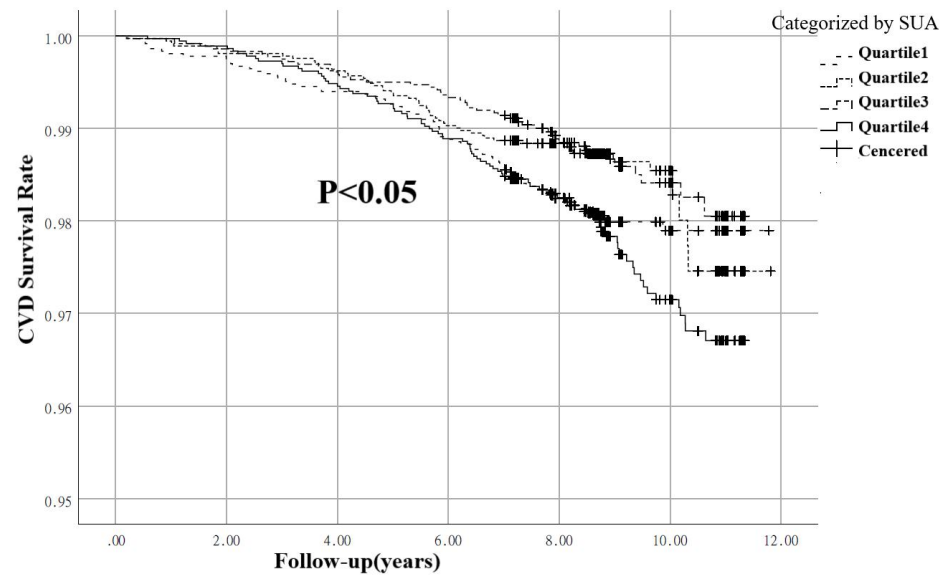
Supplementary Table 3: Events of three causes of deaths categorized by serum uric acid level and gender.

Items	Men				Women			
	Quartile1	Quartile2	Quartile3	Quartile4	Quartile1	Quartile2	Quartile3	Quartile4
All-cause mortality	168	147	135	222	120	137	151	202
CVD mortality	69	52	46	83	47	53	49	87
Cancer mortality	54	44	48	73	33	44	37	60

CVD: Cardiovascular disease.



Supplementary Figure 1: All-cause mortality of four SUA quartile levels in men. SUA: Serum uric acid.



Supplementary Figure 2: CVD mortality of four SUA quartile levels in men. CVD: Cardiovascular disease; SUA: Serum uric acid.