

**Supplementary Table 1.** Classification of Causes of Deaths According to *International Classification of Diseases*, 10<sup>th</sup> version.

Classification	ICD-10	Diagnosis
Cardiovascular diseases	I11	Hypertensive heart disease
	I20	Angina pectoris
	I21	Acute myocardial infarction
	I22	Subsequent myocardial infarction
	I23	Certain current complications following acute myocardial infarction
	I24	other acute ischemic heart disease
	I25	chronic ischemic heart disease
	I26	pulmonary embolism
	I42	cardiomyopathy
	I51	complications and ill-defined descriptions of heart disease
	I60	Subarachnoid hemorrhage
	I61	Intracerebral hemorrhage
	I62	Other nontraumatic intracranial hemorrhage
	I63	Cerebral infarction
	I64	Stroke, not specified as hemorrhage or infarction
	I67	Other cerebrovascular diseases
	I69	Sequelae of cerebrovascular disease
	I70	Atherosclerosis
	I71	Aortic aneurysm and dissection
	I72	Other aneurysm
K55	Vascular disorders of intestine	
R55	Syncope and collapse	
R57	Cardiogenic shock	
Malignancy	C00-D48	Neoplasms
	E85	Amyloidosis

**Supplementary Table 2.** Baseline characteristics according to 4 groups of serum uric acid level in all participants.

	All	Serum uric acid (mg/dL)				P
		≤ 4.0	4.1 ~ 6.0	6.1~8.0	> 8.0	
<b>N (%)</b>	27489	6728 (24.5)	14855 (54.0)	5379 (19.6)	527 (1.9)	
<b>Age (years)</b>	56.4 ± 9.4	55.8 ± 9.3	57.0 ± 9.3	55.6 ± 9.5	55.9 ± 9.4	<0.001
<b>Sex (men, %)</b>	14468 (52.6)	1006 (15.0)	7977 (53.7)	4973 (92.5)	512 (97.2)	
<b>BMI (kg/m<sup>2</sup>)</b>	23.9 ± 3.4	23.0 ± 3.2	23.9 ± 3.4	24.9 ± 3.2	25.4 ± 3.0	<0.001
<b>SBP (mmHg)</b>	130.12 ± 22.4	127.4 ± 22.1	130.3 ± 22.7	132.6 ± 21.8	135.9 ± 2.1	<0.001
<b>DBP (mmHg)</b>	78.9 ± 13.8	76.56 ± 13.3	78.9 ± 13.8	81.4 ± 13.8	84.4 ± 13.7	<0.001
<b>Alcohol</b>						<0.001
Non-drinker (%)	16034 (58.3)	5208 (77.4)	8727 (58.7)	1928 (35.8)	171 (32.4)	
Non-binge drinker (%)	4492 (16.3)	792 (11.8)	2525 (17.0)	1072 (23.9)	103 (19.5)	
Binge drinker (%)	6073 (22.1)	588 (8.7)	3111 (20.9)	2146 (39.9)	228 (43.3)	
Unknown (%)	891 (3.2)	140 (2.1)	492 (3.3)	234 (4.4)	25 (4.7)	
<b>Smoking</b>						<0.001
Never smoker (%)	15051 (54.8)	5564 (82.7)	8073 (54.3)	1307 (24.3)	107 (20.3)	
Ex-smoker (%)	5689 (20.7)	521 (7.7)	3014 (20.3)	1947 (36.2)	207 (39.3)	
Current smoker (%)	6749 (24.6)	643 (9.6)	3768 (25.4)	2125 (39.5)	213 (40.4)	
<b>Exercise</b>						<0.001
<b>No (%)</b>	16797 (61.1)	4250 (63.2)	8963 (60.3)	3275 (60.9)	309 (58.6)	
<b>Yes (%)</b>	10692 (38.9)	2478 (36.8)	5892 (38.7)	2104 (39.1)	218 (41.4)	
<b>Drugs</b>						
<sup>a</sup> Uric acid lowering agent (%)	1399 (5.1)	281 (4.2)	768 (5.2)	310 (5.8)	40 (7.6)	<0.001
<sup>b</sup> Anti-uricosuric agent (%)	2168 (7.9)	430 (6.4)	1190 (8.0)	491 (9.1)	57 (10.8)	<0.001
<sup>c</sup> Uricosuric agent (%)	1877 (6.8)	396 (5.9)	1046 (7.0)	391 (7.3)	44 (8.3)	0.003
<b>Measurement</b>						
Uric acid (mg/dL)	5.03 ± 1.3	3.4 ± 0.5	5.0 ± 0.6	6.7 ± 0.5	8.8 ± 0.7	<0.001
BUN (mg/dL)	14.0 ± 3.9	13.0 ± 3.7	14.1 ± 4.0	14.8 ± 3.7	15.1 ± 3.8	<0.001

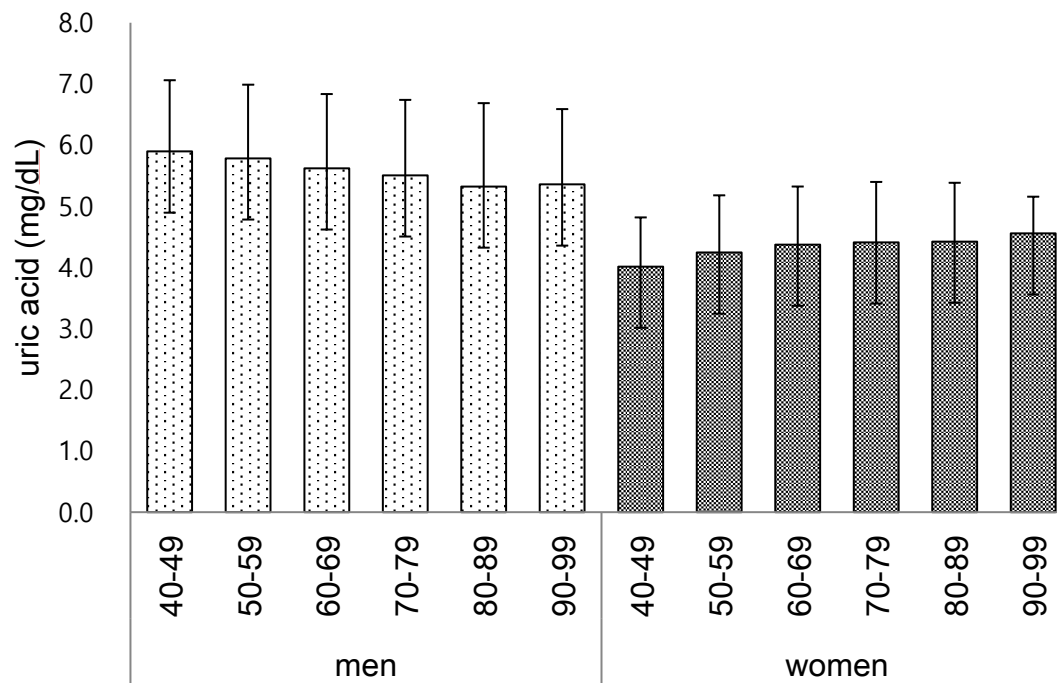
Creatinine (mg/dL)	0.9 ± 0.2	0.8 ± 0.1	0.9 ± 0.1	1.0 ± 0.1	1.1 ± 0.1	<0.001
eGFR (mL/min/1.73m <sup>2</sup> )	80.9 ± 11.4	82.5 ± 10.6	80.9 ± 11.4	79.4 ± 11.8	76.2 ± 12.2	<0.001
Albumin (g/dL)	4.3 ± 0.3	4.3 ± 0.2	4.3 ± 0.2	4.4 ± 0.2	4.4 ± 0.3	<0.001
Hemoglobin (g/dL)	14.3 ± 1.5	13.3 ± 1.4	14.4 ± 1.4	15.3 ± 1.1	15.5 ± 1.1	<0.001
AST (IU/L)	25.6 ± 17.7	22.8 ± 14.4	25.4 ± 17.9	28.6 ± 17.6	34.0 ± 34.5	<0.001
ALT (IU/L)	27.4 ± 25.0	21.0 ± 17.8	27.1 ± 25.8	35.0 ± 30.1	42.7 ± 43.0	<0.001
Bilirubin (mg/dL)	1.0 ± 0.4	0.9 ± 0.4	1.0 ± 0.4	1.1 ± 0.4	1.1 ± 0.4	<0.001
GGT (IU/L)	37.8 ± 52.6	24.9 ± 45.3	35.7 ± 49.3	55.8 ± 58.8	78.2 ± 85.1	<0.001
Glucose (mg/dL)	99.1 ± 23.4	98.6 ± 28.2	99.3 ± 22.9	99.3 ± 17.7	101.2 ± 19.0	0.018
HbA1c (%)	5.6 ± 0.8	5.6 ± 1.0	5.6 ± 0.8	5.6 ± 0.7	5.7 ± 0.7	0.138
Total cholesterol (mg/dL)	202.2 ± 35.9	197.2 ± 35.0	202.9 ± 36.0	205.6 ± 36.0	210.2 ± 37.5	<0.001
HDL cholesterol (mg/dL)	51.9 ± 13.1	56.1 ± 13.8	51.7 ± 12.8	47.7 ± 11.6	47.2 ± 12.0	<0.001
LDL cholesterol (mg/dL)	122.2 ± 35.0	118.4 ± 33.3	123.4 ± 35.1	123.9 ± 36.1	119.5 ± 41.5	<0.001
TG (mg/dL)	135.9 ± 93.01	108.5 ± 66.0	134.3 ± 85.7	166.7 ± 116.1	215.0 ± 161.5	<0.001
CRP (mg/dL)	0.2 ± 0.7	0.2 ± 0.7	0.2 ± 0.6	0.2 ± 0.8	0.3 ± 0.9	0.001
<b>Comorbidities</b>						
DM (%)	2577 (9.4)	610 (9.1)	1453 (9.9)	468 (8.8)	46 (8.8)	<0.001
HTN (%)	10415 (38.1)	2092 (31.2)	5664 (38.3)	2374 (44.3)	285 (54.1)	<0.001
Gout (%)	138 (0.5)	1 (0.0)	20 (0.1)	69 (1.3)	48 (9.1)	<0.001

*Note:* Values for categorical variables are presented as percentages; for continuous variables as mean ± standard deviation. Conversion for units: cholesterol in mg/dL to mmol/L, x0.02586; glucose in mg/dL to mmol/L, x0.05551; triglycerides in mg/dL to mmol/L, x0.01129.

*Abbreviations:* BMI, body mass index; SBP, systolic blood pressure; DBP, diastolic blood pressure; GFR, glomerular filtration rate; ALP, alkaline phosphatase; AST, aspartate transaminase; ALT, alanine transaminase; HDL, high density lipoprotein; LDL, low density lipoprotein; TG, triglyceride; CRP, C-reactive protein; DM, diabetes mellitus; HTN, hypertension

<sup>a</sup>Uric acid lowering agent included allopurinol, benzbromarone and febuxostat; <sup>b</sup>uricosuric agent included losartan, calcium channel blocker and sevelamer; <sup>c</sup>anti-uricosuric agent included angiotensin converting enzyme inhibitor, angiotensin receptor blocker (except losartan) and aspirin.

**Supplementary Figure 1.** Distribution of SUA according to sex.



**Supplementary Table 3.** Baseline characteristics according to 4 groups of serum uric acid level in men.

	Men	Serum uric acid (mg/dL)				P
		≤ 4.0	4.1 ~ 6.0	6.1~8.0	> 8.0	
<b>N (%)</b>	14468 (52.6)	1006 (7.0)	7977 (55.1)	4973 (34.4)	512 (3.5)	
<b>Age (years)</b>	56.3 ± 9.6	59.3 ± 10.0	56.6 ± 9.6	55.3 ± 9.5	55.8 ± 9.4	<0.001
<b>BMI (kg/m<sup>2</sup>)</b>	24.1 ± 3.2	23.2 ± 3.2	23.7 ± 3.2	24.8 ± 3.1	25.3 ± 3.0	<0.001
<b>SBP (mmHg)</b>	130.8 ± 21.6	130.2 ± 21.9	129.6 ± 21.6	132.3 ± 21.6	135.7 ± 21.0	<0.001
<b>DBP (mmHg)</b>	80.2 ± 13.8	79.3 ± 13.7	79.29 ± 13.7	81.5 ± 13.7	84.3 ± 13.7	<0.001
<b>Alcohol</b>						<0.001
Non-drinker (%)	5114 (35.3)	414 (41.2)	2946 (36.9)	1594 (32.1)	160 (31.3)	
Non-binge drinker (%)	3229 (22.3)	232 (23.1)	1680 (23.3)	1036 (20.8)	101 (19.7)	
Binge drinker (%)	5479 (37.9)	318 (31.6)	2820 (35.4)	2114 (42.5)	227 (44.3)	
Unknown (%)	646 (4.5)	42 (4.2)	351 (4.4)	229 (4.6)	24 (4.7)	
<b>Smoking</b>						0.713
Never smoker (%)	2884 (19.9)	213 (21.2)	1632 (20.5)	946 (19.0)	93 (18.2)	
Ex-smoker (%)	5372 (37.1)	368 (36.6)	2865 (35.9)	1932 (38.8)	207 (40.4)	
Current smoker (%)	6212 (42.9)	425 (42.2)	3480 (43.6)	2095 (42.1)	212 (41.4)	
<b>Exercise</b>						0.485
No (%)	8514 (58.8)	606 (60.2)	3644 (63.7)	2990 (60.1)	298 (58.2)	
Yes (%)	5954 (41.2)	400 (39.8)	2078 (36.3)	1983 (39.9)	214 (41.8)	
<b>Drugs</b>						
<sup>a</sup> Uric acid lowering agent (%)	872 (6.0)	64 (6.4)	473 (5.9)	295 (5.9)	40 (7.8)	0.431
<sup>b</sup> Anti-uricosuric agent (%)	1349 (9.3)	96 (9.5)	736 (9.2)	461 (9.3)	56 (10.9)	0.628
<sup>c</sup> Uricosuric agent (%)	1108 (7.7)	70 (7.0)	626 (7.8)	368 (7.4)	44 (8.6)	0.531
<b>Measurement</b>						
Uric acid (mg/dL)	5.7 ± 1.2	3.4 ± 0.5	4.8 ± 0.5	6.8 ± 0.5	8.7 ± 0.7	<0.001
BUN (mg/dL)	14.6 ± 3.8	12.7 ± 3.6	13.6 ± 4.1	14.8 ± 0.7	15.1 ± 3.7	<0.001
Creatinine (mg/dL)	1.0 ± 0.1	0.8 ± 0.8	0.8 ± 0.1	1.1 ± 0.1	1.1 ± 0.1	<0.001

eGFR (mL/min/1.73m <sup>2</sup> )	82.3 ± 12.1	81.8 ± 9.8	77.7 ± 10.1	79.9 ± 11.7	76.4 ± 12.3	<0.001
Albumin (g/dL)	4.4 ± 0.3	4.3 ± 0.2	4.3 ± 0.2	4.4 ± 0.2	4.4 ± 0.3	<0.001
Hemoglobin (g/dL)	15.3 ± 1.1	13.0 ± 1.2	13.3 ± 1.0	15.5 ± 1.0	15.5 ± 1.1	<0.001
AST (IU/L)	27.6 ± 21.3	11.0 ± 0.1	24.1 ± 12.6	28.0 ± 17.5	34.1 ± 34.9	<0.001
ALT (IU/L)	32.4 ± 30.9	19.5 ± 15.1	23.4 ± 18.4	35.4 ± 30.3	43.1 ± 43.5	<0.001
Bilirubin (mg/dL)	1.1 ± 0.4	0.8 ± 0.3	0.9 ± 0.3	1.1 ± 0.4	1.1 ± 0.4	<0.001
GGT (IU/L)	51.3 ± 66.7	51.5 ± 102.9	45.5 ± 62.3	57.6 ± 60.2	79.4 ± 86.0	<0.001
Glucose (mg/dL)	101.7 ± 25.8	95.7 ± 22.8	96.3 ± 17.3	99.1 ± 17.7	100.6 ± 18.0	<0.001
HbA1c (%)	5.7 ± 0.9	5.5 ± 0.8	5.6 ± 0.6	5.6 ± 0.7	5.7 ± 0.6	<0.001
Total cholesterol (mg/dL)	199.9 ± 34.7	197.8 ± 34.9	209.4 ± 37.5	204.2 ± 35.2	209.7 ± 37.3	<0.001
HDL cholesterol (mg/dL)	48.7 ± 12.1	57.1 ± 13.6	54.4 ± 13.1	47.5 ± 11.6	47.0 ± 11.9	<0.001
LDL cholesterol (mg/dL)	120.2 ± 34.4	116.0 ± 33.4	128.3 ± 36.4	122.7 ± 35.3	118.8 ± 41.3	<0.001
TG (mg/dL)	151.6 ± 105.8	103.6 ± 58.0	128.2 ± 79.2	167.5 ± 117.8	216.2 ± 163.2	<0.001
CRP (mg/dL)	0.2 ± 0.77	0.2 ± 0.5	0.2 ± 0.53	0.2 ± 0.8	0.3 ± 0.9	0.001
<b>Comorbidities</b>						
DM (%)	1720 (12.0)	251 (25.0)	1014 (12.8)	413 (8.4)	42 (8.3)	<0.001
HTN (%)	5723 (39.7)	380 (38.0)	2911 (36.7)	2158 (43.6)	274 (53.5)	<0.001
Gout (%)	133 (0.9)	0 (0)	18 (0.2)	68 (1.4)	47 (9.2)	<0.001

*Note:* Values for categorical variables are presented as percentages; for continuous variables as mean ± standard deviation. Conversion for units: cholesterol in mg/dL to mmol/L, x0.02586; glucose in mg/dL to mmol/L, x0.05551; triglycerides in mg/dL to mmol/L, x0.01129.

*Abbreviations:* BMI, body mass index; SBP, systolic blood pressure; DBP, diastolic blood pressure; GFR, glomerular filtration rate; ALP, alkaline phosphatase; AST, aspartate transaminase; ALT, alanine transaminase; HDL, high density lipoprotein; LDL, low density lipoprotein; TG, triglyceride; CRP, C-reactive protein; DM, diabetes mellitus; HTN, hypertension

<sup>a</sup>Uric acid lowering agent included allopurinol, benzbromarone and febuxostat; <sup>b</sup>uricosuric agent included losartan, calcium channel blocker and sevelamer; <sup>c</sup>anti-uricosuric agent included angiotensin converting enzyme inhibitor, angiotensin receptor blocker (except losartan) and aspirin.

**Supplementary Table 4.** Baseline characteristics according to 4 groups of serum uric acid level in women.

	Women	Serum uric acid (mg/dL)				P
		≤ 4.0	4.1 ~ 6.0	6.1~8.0	> 8.0	
<b>N (%)</b>	13021 (47.4)	5722 (43.9)	6878(52.8)	406 (3.1)	15 (0.1)	
<b>Age (years)</b>	56.6 ± 9.1	55.2 ± 9.0	57.4 ± 9.0	59.87 ± 8.36	58.6 ± 8.3	<0.001
<b>BMI (kg/m<sup>2</sup>)</b>	23.7 ± 3.5	23.0 ± 3.2	24.1 ± 3.6	26.1 ± 3.7	26.6 ± 3.2	<0.001
<b>SBP (mmHg)</b>	129.5 ± 23.2	126.9 ± 22.1	131.1 ± 23.8	136.12 ± 24.8	140.7 ± 22.1	<0.001
<b>DBP (mmHg)</b>	77.5 ± 13.7	76.1 ± 13.2	78.4 ± 13.9	80.54 ± 13.4	88.1 ± 14.5	<0.001
<b>Alcohol</b>						0.041
Non-drinker (%)	10920 (83.9)	4794 (83.8)	5781 (84.1)	334 (82.0)	11 (73.3)	
Non-binge drinker (%)	1263 (9.7)	560 (9.8)	665 (9.7)	36 (8.9)	2 (13.3)	
Binge drinker (%)	594 (4.6)	270 (4.7)	291 (4.2)	32 (7.9)	1 (6.7)	
Unknown (%)	245 (1.9)	98 (1.7)	141 (2.1)	5 (1.2)	1 (6.7)	
<b>Smoking</b>						0.260
Never smoker (%)	12167 (93.4)	5351 (93.5)	6441 (93.6)	361 (88.9)	14 (93.3)	
Ex-smoker (%)	317 (2.4)	153 (2.7)	149 (2.2)	14 (3.7)	0 (0.0)	
Current smoker (%)	537 (4.1)	218 (3.8)	288 (4.2)	30 (7.4)	1 (6.7)	
<b>Exercise</b>						0.650
No (%)	8283 (63.6)	3644 (63.7)	4343 (63.1)	285 (70.2)	11 (73.3)	
Yes (%)	4738 (36.4)	2078 (36.3)	2535 (36.9)	121 (29.8)	4 (26.7)	
<b>Drugs</b>						
<sup>a</sup> Uric acid lowering agent (%)	527 (4.0)	217 (3.8)	295 (4.3)	15 (3.7)	0 (0)	0.431
<sup>b</sup> Anti-uricosuric agent (%)	819 (6.3)	334 (5.8)	454 (6.6)	30 (7.4)	1 (6.7)	0.267
<sup>c</sup> Uricosuric agent (%)	769 (5.9)	326 (5.7)	420 (6.1)	23 (5.7)	0 (0)	0.587
<b>Measurement</b>						
Uric acid (mg/dL)	4.2 ± 0.9	3.5 ± 0.5	5.2 ± 0.5	6.6 ± 0.5	9.0 ± 1.2	<0.001
BUN (mg/dL)	13.2 ± 3.9	14.6 ± 4.1	14.5 ± 3.8	14.8 ± 4.0	16.1 ± 5.4	<0.001
Creatinine (mg/dL)	0.8 ± 0.9	1.0 ± 0.1	1.0 ± 0.1	0.9 ± 0.1	0.9 ± 0.1	<0.001

eGFR (mL/min/1.73m <sup>2</sup> )	79.3 ± 10.3	86.8 ± 13.3	83.6 ± 11.8	72.8 ± 10.6	68.3 ± 8.8	<0.001
Albumin (g/dL)	4.3 ± 0.24	4.3 ± 0.3	4.3 ± 0.2	4.3 ± 0.3	4.4 ± 0.3	<0.001
Hemoglobin (g/dL)	13.2 ± 1.1	15.1 ± 1.3	15.3 ± 1.0	13.6 ± 0.9	14.6 ± 0.9	<0.001
AST (IU/L)	23.3 ± 12.3	27.2 ± 26.2	26.5 ± 21.4	28.4 ± 19.1	30.3 ± 10.5	<0.001
ALT (IU/L)	21.9 ± 17.6	19.5 ± 15.1	23.4 ± 18.4	30.1 ± 27.4	31.1 ± 15.9	<0.001
Bilirubin (mg/dL)	0.9 ± 0.3	0.8 ± 0.4	0.9 ± 0.3	0.9 ± 0.3	0.8 ± 0.2	0.006
GGT (IU/L)	22.9 ± 21.9	20.3 ± 20.2	45.5 ± 62.3	57.6 ± 60.2	79.4 ± 86.0	<0.001
Glucose (mg/dL)	96.2 ± 20.0	95.7 ± 22.8	96.4 ± 17.3	101.1 ± 17.2	123.4 ± 35.7	<0.001
HbA1c (%)	5.6 ± 0.7	5.5 ± 0.8	5.6 ± 0.6	5.9 ± 0.7	6.5 ± 1.0	<0.001
Total cholesterol (mg/dL)	204.7 ± 37.1	197.8 ± 34.9	209.4 ± 37.5	222.0 ± 1.4	228.5 ± 40.4	<0.001
HDL cholesterol (mg/dL)	55.5 ± 13.4	57.1 ± 13.6	54.4 ± 13.1	50.9 ± 11.7	50.6 ± 13.2	<0.001
LDL cholesterol (mg/dL)	124.5 ± 35.7	118.9 ± 33.3	128.3 ± 36.4	138.2 ± 41.9	142.9 ± 44.2	<0.001
TG (mg/dL)	118.4 ± 72.6	103.6 ± 58.0	128.2 ± 79.2	157.4 ± 92.9	175.6 ± 76.9	<0.001
CRP (mg/dL)	0.2 ± 0.5	0.2 ± 0.5	0.2 ± 0.5	0.2 ± 0.3	0.2 ± 0.1	0.142
<b>Comorbidities</b>						
DM (%)	857 (6.6)	359 (6.3)	439 (6.4)	55 (13.7)	4 (26.7)	0.034
HTN (%)	4692 (11.8)	2753 (40.3)	1712 (30.0)	216 (53.5)	11 (73.3)	<0.001
Gout (%)	5 (0.0)	1 (0.0)	2 (0.0)	1 (0.2)	1 (6.7)	<0.001

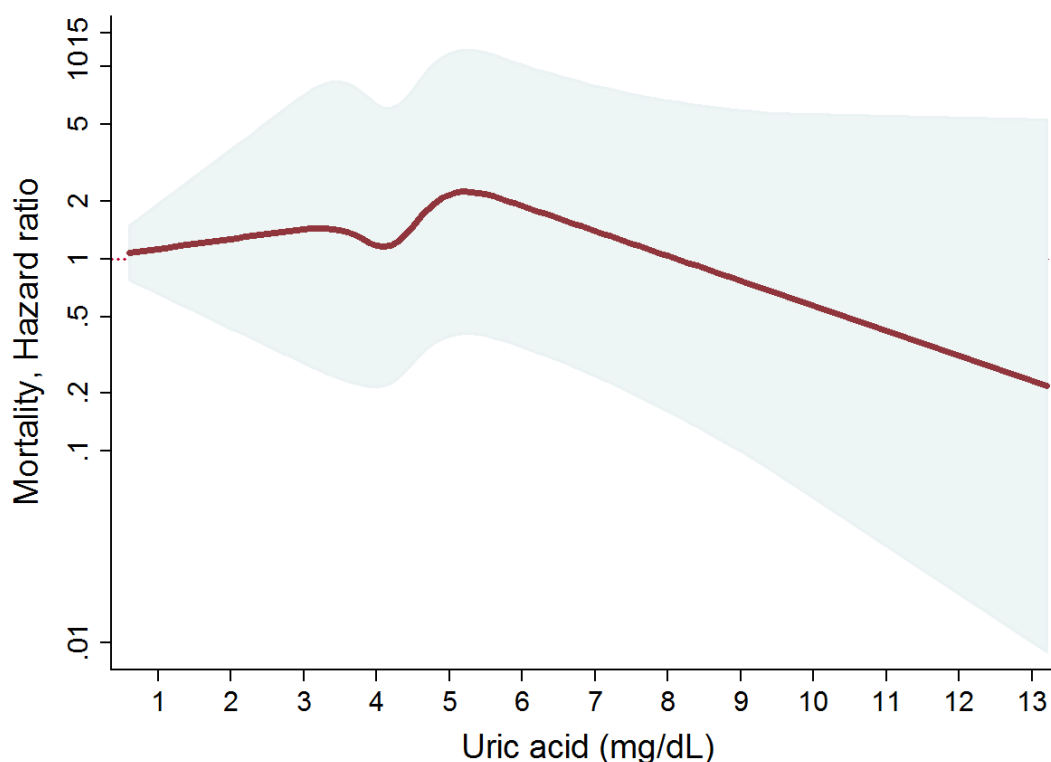
*Note:* Values for categorical variables are presented as percentages; for continuous variables as mean ± standard deviation. Conversion for units: cholesterol in mg/dL to mmol/L, x0.02586; glucose in mg/dL to mmol/L, x0.05551; triglycerides in mg/dL to mmol/L, x0.01129.

*Abbreviations:* BMI, body mass index; SBP, systolic blood pressure; DBP, diastolic blood pressure; GFR, glomerular filtration rate; ALP, alkaline phosphatase; AST, aspartate transaminase; ALT, alanine transaminase; HDL, high density lipoprotein; LDL, low density lipoprotein; TG, triglyceride; CRP, C-reactive protein; DM, diabetes mellitus; HTN, hypertension

<sup>a</sup>Uric acid lowering agent included allopurinol, benzbromarone and febuxostat; <sup>b</sup>uricosuric agent included losartan, calcium channel blocker and sevelamer; <sup>c</sup>anti-uricosuric agent included angiotensin converting enzyme inhibitor, angiotensin receptor blocker (except losartan) and aspirin.



**Supplementary Figure 2.** Nonlinear association between serum uric acid and mortality in women.



**Supplementary Table 5.** Cause of death in all participants and according to sex.

Serum uric acid (mg/dL)	Death (%)	Causes of death			P
		Malignancy (%)	CVD (%)	Others (%)	
<b>All participants</b>	1402 (5.1)	692 (49.4)	189 (13.5)	521 (37.2)	0.361
≤ 4.0	300 (4.5)	142 (47.3)	36 (19.0)	122 (40.7)	
4.1 ~ 6.0	781 (5.3)	388 (49.7)	114 (14.6)	279 (35.7)	
6.1 ~ 8.0	283 (5.3)	146 (51.6)	32 (11.3)	105 (7.1)	
> 8.0	38 (7.2)	16 (42.1)	7 (18.4)	15 (39.5)	
<b>All men</b>	999 (6.9)	513 (51.4)	127 (12.7)	359 (35.9)	0.394
≤ 4.0	147 (14.7)	71 (48.3)	20 (13.6)	56 (38.1)	
4.1 ~ 6.0	543 (54.4)	287 (52.9)	68 (12.5)	188 (34.6)	
6.1 ~ 8.0	272 (27.2)	140 (51.5)	32 (11.8)	100 (6.8)	
> 8.0	37 (3.7)	15 (40.5)	7 (18.9)	15 (40.5)	
<b>All women</b>	403 (3.1)	179 (44.4)	62 (15.4)	162 (40.2)	0.734
≤ 4.0	153 (38.0)	71 (46.4)	16 (10.5)	66 (43.1)	
4.1 ~ 6.0	238 (59.1)	101 (42.4)	46 (19.3)	91 (38.2)	
6.1 ~ 8.0	11 (2.7)	6 (54.5)	0 (0.0)	5 (45.5)	
> 8.0	1 (0.2)	1 (100.0)	0 (0.0)	0 (0.0)	

Abbreviation: CVD, cardiovascular disease

**Supplementary Table 6.** Univariate and multivariate Cox analysis in men according to death cause.

	SUA	Univariate		Multivariate <sup>a</sup>	
		HR (95% CI)	P	HR (95% CI)	P
<b>Cardiovascular mortality</b>	≤4.0	2.339 (1.421-3.851)	0.001	1.661 (0.991-2.782)	0.054
	4.1-6.0	reference		reference	
	6.1-8.0	0.763 (0.501-1.162)	0.208	0.840 (0.542-1.301)	0.434
	>8.0	1.679 (0.771-3.656)	0.192	1.764 (0.796-3.909)	0.162
<b>malignancy</b>	≤4.0	1.971 (1.520-2.556)	<0.001	1.301 (0.993-1.705)	0.056
	4.1-6.0	reference		reference	
	6.1-8.0	0.791 (0.646-0.968)	0.023	1.002 (0.812-1.237)	0.984
	>8.0	0.848 (0.505-1.425)	0.534	1.026 (0.605-1.739)	0.925

Abbreviations: SUA, serum uric acid; HR, hazard ratio; CI, confidential interval

<sup>a</sup>In multivariate analysis, we adjusted for age, body mass index, diabetes mellitus, hypertension, creatinine, albumin, hemoglobin, C-reactive protein, glucose, mean arterial pressure, high density lipoprotein, low density lipoprotein, triglycerides, smoking, alcohol consumption, and exercise.