

Circulating uric acid levels and subsequent development of cancer in 493,281 individuals: findings from the AMORIS Study

SUPPLEMENTARY TABLES

Supplementary Table 1: International classification of diseases (ICD) codes used to classify cancer site

Cancer site	ICD-7
All cancer	140-207
Breast	170
Prostate	177
Pulmonary (primary)	162
Colorectal	153, 154
Gastroesophageal	150, 151
Hepatobiliary (primary)	155
Pancreas	157
Kidney	180
Bladder	181
Gynecological	171-176
Head and neck	140-148, 160-161
Melanoma	190
Non-melanoma Skin	191
Central nervous system (CNS)	193
Lymphatic and Haematological	200-207
Other	192,194-199

Supplementary Table 2: Hazard ratios (HR) and 95% Confidence Intervals (95%CI) for the risk of cancer by log and sex-specific quartiles of serum uric acid in participants with follow up longer than 2 years

	HR (95%CI)			
	Model 1	Model 2*	Model 3†	Model 4§
N (Cancer/Total Participants)	68,677/485,820	68,677/485,820	68,677/485,820	9,036/66,156
Log serum uric acid	1.95 (1.89 – 2.01)	1.10 (1.06 – 1.14)	1.07 (1.03 – 1.11)	1.13 (1.01 – 1.26)
Serum uric acid				
Quartile 1	1.00 (Ref)	1.00 (Ref)	1.00 (Ref)	1.00 (Ref)
Quartile 2	1.05 (1.03 – 1.08)	1.01 (0.99 – 1.03)	1.01 (0.98 – 1.03)	0.98 (0.92 – 1.04)
Quartile 3	1.16 (1.14 – 1.19)	1.01 (0.99 – 1.04)	1.01 (0.99 – 1.03)	1.01 (0.96 – 1.08)
Quartile 4	1.45 (1.42 – 1.48)	1.06 (1.03 – 1.08)	1.04 (1.02 – 1.07)	1.06 (0.99 – 1.12)
P _{trend}	<0.0001	<0.0001	0.0001	0.05

*Adjusted for age, gender, education level, SES and CCI category.

†Adjusted for age, gender, education level, SES, CCI category, serum glucose and triglycerides.

§Adjusted for age, gender, education level, SES, CCI category and BMI in the subgroup with BMI.

Supplementary Table 3: Hazard ratios (HR) and 95% Confidence Intervals (95%CI) for the risk of death by log and sex-specific quartiles of serum uric acid

	HR (95%CI)			
	Model 1	Model 2*	Model 3 [†]	Model 4 [§]
N (Death/Total Participants)	89,791/493,281	89,791/493,281	89,791/493,281	9,430/66,931
Log serum uric acid	4.21 (4.10 – 4.33)	1.63(1.58 – 1.68)	1.53 (1.49 – 1.58)	1.70 (1.53 – 1.89)
Serum uric acid				
Quartile 1	1.00 (Ref)	1.00 (Ref)	1.00 (Ref)	1.00 (Ref)
Quartile 2	1.03 (1.01 – 1.05)	0.96 (0.94 – 0.98)	0.98 (0.96 – 1.00)	0.93 (0.88 – 0.99)
Quartile 3	1.27 (1.25 – 1.30)	1.03 (1.01 – 1.05)	1.04 (1.02 – 1.06)	1.03 (0.97 – 1.09)
Quartile 4	2.20 (2.16 – 2.25)	1.26 (1.23 – 1.28)	1.23 (1.20 – 1.25)	1.27 (1.20 – 1.35)
P _{trend}	<0.0001	<0.0001	<0.0001	<0.0001

*Adjusted for age, gender, education level, SES and CCI category.

[†]Adjusted for age, gender, education level, SES, CCI category, serum glucose and triglycerides.

[§]Adjusted for age, gender, education level, SES, CCI category and BMI in the subgroup with BMI.

Supplementary Table 4: CCI distribution by quartiles of uric acid

CCI Category	Serum uric acid			
	Quartile 1	Quartile 2	Quartile 3	Quartile 4
0 (%)	115,202 (95.33)	119,276 (95.96)	118,661 (95.36)	114,041 (92.20)
1 (%)	4,158 (3.44)	3,753 (3.02)	4,291 (3.45)	6,613 (5.35)
2 (%)	908 (0.75)	843 (0.68)	932 (0.75)	1778 (1.44)
3+ (%)	582 (0.48)	423 (0.34)	557 (0.45)	1,263 (1.02)