

SUPPLEMENTAL MATERIAL

Table S1. Incidence rate and hazard ratios (95% confidence interval) for AF associated with hyperuricemia and uric acid quartiles at baseline, in the total population and stratified by incident hypertension, diabetes, HF, or CHD.

	No. of subjects	No. of cases	IR per 1000 PY (95% CI)	HR (95% CI)	
				Model 1	Model 2
Total cohort (N=339604)					
Hyperuricemia					
No	318575	42454	5.1 (5.1-5.2)	1.00	1.00
Yes	21029	4062	8.3 (8.1-8.6)	1.50 (1.45-1.55)	1.48 (1.43-1.53)
Uric acid quartiles					
Q1	86738	10033	4.4 (4.3-4.5)	1.00	1.00
Q2	83987	10629	4.8 (4.7-4.9)	1.06 (1.03-1.09)	1.09 (1.06-1.12)
Q3	84617	11817	5.4 (5.3-5.5)	1.15 (1.12-1.18)	1.19 (1.16-1.23)
Q4	84262	14037	6.8 (6.6-6.9)	1.40 (1.37-1.44)	1.45 (1.41-1.49)
Among those with incident hypertension, diabetes, HF, or CHD (n=153684)					
Hyperuricemia					
No	140347	29019	7.7 (7.6-7.8)	1.00	1.00
Yes	13337	3268	10.0 (9.7-10.4)	1.38 (1.33-1.43)	1.40 (1.35-1.45)
Serum urate quartiles					
Q1	32308	6234	7.2 (6.9-7.3)	1.00	1.00
Q2	34835	7013	7.4 (7.2-7.5)	1.02 (0.99-1.06)	1.06 (1.02-1.09)
Q3	39425	8352	7.9 (7.7-8.0)	1.09 (1.06-1.13)	1.14 (1.11-1.18)
Q4	47116	10688	8.8 (8.7-9.0)	1.27 (1.23-1.31)	1.34 (1.30-1.39)
Among those without incident hypertension, diabetes, HF, or CHD (n=185920)					
Hyperuricemia					
No	178228	13435	3.0 (2.9-3.0)	1.00	1.00
Yes	7692	794	4.9 (4.6-5.3)	1.46 (1.36-1.60)	1.48 (1.37-1.59)
Serum urate quartiles					
Q1	54430	3799	2.7 (2.6-2.8)	1.00	1.00
Q2	49152	3616	2.9 (2.8-2.9)	1.05 (1.00-1.10)	1.07 (1.02-1.12)
Q3	45192	3465	3.0 (2.9-3.2)	1.10 (1.05-1.15)	1.13 (1.08-1.19)
Q4	37146	3349	3.9 (3.7-4.0)	1.33 (1.27-1.39)	1.39 (1.32-1.46)

Model 1: Adjusted for age and sex

Model 2: Adjusted for age, sex, total cholesterol, glucose, eGFR, and triglyceride at the time of uric acid measurement

HF=heart failure; CHD=coronary heart disease; IR=incidence rate; HR=hazard ratio; CI=confidence interval; PY=person-years

Table S2. Hazard ratios (95% confidence interval) for AF associated with hyperuricemia and uric acid quartiles at baseline in the subsample with body mass index data (n=56851).

	No. of subjects	No. of cases	HR (95% CI)	
			Model 1	Model 2
Hyperuricemia				
No	54024	6452	1.00	1.00
Yes	2827	510	1.44 (1.31-1.58)	1.24 (1.14-1.37)
Uric acid quartiles				
Q1	15179	1570	1.00	1.00
Q2	14524	1613	1.04 (0.97-1.11)	1.00 (0.92-1.06)
Q3	14368	1810	1.18 (1.10-1.27)	1.09 (1.02-1.17)
Q4	12780	1969	1.42 (1.32-1.52)	1.21 (1.12-1.30)

Model 1: Adjusted for age, sex, total cholesterol, glucose, eGFR, and triglyceride at baseline

Model 2: Model 1 + body mass index

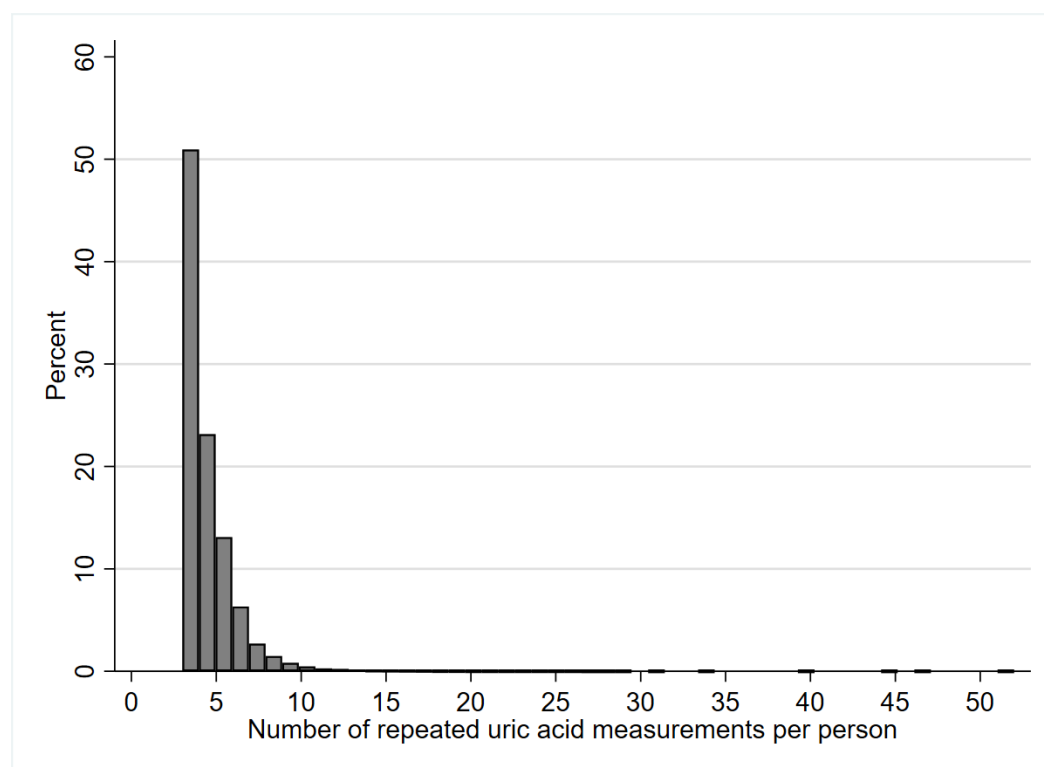


Figure S1. Distribution of number of repeated uric acid measurements per person in the subsample (n=65754).