

Supplementary tables

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Table S1. Association between hyperuricemia and hand osteoarthritis after excluding participants with self-reported gout

	Hyperuricemia	
	No	Yes
RHOA		
Number with RHOA, n (%)	1,201 (20.9)	327 (27.2)
Crude OR (95% CI)	1.00 (reference)	1.41 (1.19, 1.68)
Adjusted OR (95% CI) ^a	1.00 (reference)	1.34 (1.11, 1.61)
SHOA		
Number with SHOA, n (%)	228 (5.5)	60 (7.3)
Crude OR (95% CI)	1.00 (reference)	1.34 (0.92, 1.96)
Adjusted OR (95% CI) ^a	1.00 (reference)	1.34 (0.90, 2.01)

RHOA, radiographic hand osteoarthritis; SHOA, symptomatic hand osteoarthritis; n, number; CI, confidence interval; OR, odds ratio.

^a Adjusted for age, sex, body mass index, smoking status, alcohol consumption, history of hand injury, diabetes, and hypertension.

Table S2. Association of hyperuricemia with unilateral and bilateral hand osteoarthritis by excluding participants with self-reported gout

	Non-RHOA	Unilateral RHOA	Bilateral RHOA	P for trend
Total population				
Crude OR (95% CI)	1.00 (reference)	1.27 (1.01, 1.60)	1.62 (1.27, 2.07)	<0.001
Adjusted OR (95% CI) ^a	1.00 (reference)	1.15 (0.89, 1.47)	1.54 (1.18, 2.02)	0.005
	Non-SHOA	Unilateral SHOA	Bilateral SHOA	P for trend
Total population				
Crude OR (95% CI)	1.00 (reference)	1.04 (0.64, 1.71)	1.63 (0.97, 2.73)	0.174
Adjusted OR (95% CI) ^a	1.00 (reference)	1.01 (0.60, 1.72)	1.66 (0.96, 2.88)	0.234

RHOA, radiographic hand osteoarthritis; SHOA, symptomatic hand osteoarthritis; OR, odds ratio; CI, confidence interval.

^a Adjusted for age, sex, body mass index, smoking status, alcohol consumption, history of hand injury, diabetes, and hypertension.

Table S3 Association between hyperuricemia and hand osteoarthritis (person-based analyses)

	Hyperuricemia	
	No	Yes
RHOA		
No (%)	1,991 (70.0)	385 (62.8)
Yes (%)	853 (30.0)	228 (37.2)
Crude OR (95% CI)	1.00 (reference)	1.38 (1.15, 1.66)
Adjusted OR (95% CI) ^a	1.00 (reference)	1.29 (1.05, 1.58)
SHOA		
No (%)	2,771 (94.4)	588 (93.3)
Yes (%)	164 (5.6)	42 (6.7)
Crude OR (95% CI)	1.00 (reference)	1.21 (0.85, 1.71)
Adjusted OR (95% CI) ^a	1.00 (reference)	1.17 (0.81, 1.70)

RHOA, radiographic hand osteoarthritis; SHOA, symptomatic hand osteoarthritis; CI, confidence interval; OR, odds ratio.

^a Adjusted for age, sex, BMI, smoking status, alcohol consumption, history of hand injury, diabetes and hypertension.

Table S4. Association between hyperuricemia and hand osteoarthritis based on the distal interphalangeal joints

	Hyperuricemia	
	No	Yes
RHOA		
Number with RHOA, n (%)	678 (11.7)	206 (16.5)
Crude OR (95% CI)	1.00 (reference)	1.49 (1.21, 1.83)
Adjusted OR (95% CI) ^a	1.00 (reference)	1.45 (1.17, 1.81)
SHOA		
Number with SHOA, n (%)	149 (3.2)	42 (4.4)
Crude OR (95% CI)	1.00 (reference)	1.36 (0.88, 2.13)
Adjusted OR (95% CI) ^a	1.00 (reference)	1.40 (0.88, 2.23)

RHOA, radiographic hand osteoarthritis; SHOA, symptomatic hand osteoarthritis; n, number; CI, confidence interval; OR, odds ratio.

^a Adjusted for age, sex, body mass index, smoking status, alcohol consumption, history of hand injury, diabetes, and hypertension.