



Table S1. Difference in clinical features and laboratory findings between uric acid urolithiasis patients with and without gout (including metabolic syndrome and uric acid medications).

	Without gout (N=75)	With gout (N=24)	p value
	n (%)	n (%)	
Age			
≤ 60	27 (36.00)	12 (50.00)	0.326
> 60	48 (64.00)	12 (50.00)	
median (IQR)	65.00 (57.00, 72.00) (n=75)	60.50 (49.50, 73.00) (n=24)	0.363 ^a
Gender			
Female	12 (16.00)	0 (0.00)	0.036 ^b
Male	63 (84.00)	24 (100.00)	
BMI (kg/m²)			
mean ± SD	25.14 ± 4.52 (n=60)	26.70 ± 3.21 (n=22)	0.141
Uric acid (mg/dL)			
mean ± SD	7.14 ± 1.55 (n=38)	7.19 ± 1.71 (n=16)	0.905
Urine pH			
median (IQR)	6.00 (5.00, 6.00) (n=72)	6.00 (5.25, 6.00) (n=24)	0.541 ^a
Creatinine (mg/dL)			
≤ 1.5	56 (75.68)	13 (54.17)	0.080
> 1.5	18 (24.32)	1 (45.83)	
median (IQR)	1.18 (0.96, 1.46) (n=74)	1.38 (1.12, 1.84) (n=24)	0.052 ^a
eGFR (mL/min/1.73m²)			
< 45	14 (18.92)	10 (41.67)	0.048
≥ 45	60 (81.08)	14 (58.33)	
median (IQR)	65.67 (50.31, 77.07) (n=74)	55.56 (39.03, 70.37) (n=24)	0.167 ^a
Cholesterol (mg/dL)			
mean ± SD	176.27 ± 51.95 (n=30)	185.83 ± 37.38 (n=12)	0.566 ^b
Triglyceride (mg/dL)			
median (IQR)	101.00 (75.00, 122.00) (n=30)	157.00 (124.50, 176.50) (n=12)	0.021 ^a
HbA1C (%)			
median (IQR)	6.00 (5.70, 6.90) (n=34)	5.80 (5.40, 6.60) (n=15)	0.297 ^a
Diabetes mellitus			
No	49 (65.33)	23 (95.83)	0.003 ^b
Yes	26 (34.67)	1 (4.17)	
Metabolic syndrome			
No	67 (89.33)	22 (91.67)	1.000 ^b
Yes	8 (10.67)	2 (8.33)	
Hypertension			
No	41 (54.67)	11 (45.83)	0.603
Yes	34 (45.33)	13 (54.17)	
Cardiovascular disease			
No	61 (81.33)	22 (91.67)	0.344 ^b
Yes	14 (18.67)	2 (8.33)	
Hyperlipidemia			
No	18 (60.00)	5 (41.67)	0.462
Yes	12 (40.00)	7 (58.33)	
Thiazide			
No	71 (94.67)	24 (100.00)	0.570 ^b
Yes	4 (5.33)	0 (0.00)	
Benzbromarone			
No	74 (98.67)	16 (66.67)	<0.001 ^b
Yes	1 (1.33)	8 (33.33)	

^a Mann-Whitney U test. ^b Fisher's exact test.

Table S2. Logistic regression analysis of risk factors for Gout among uric acid urolithiasis patients (including metabolic syndrome and uric acid medications).

	Crude OR (95 % CI)	p- value	Adjusted OR1 ^a (95 % CI)	p- value	Adjusted OR2 ^a (95 % CI)	p-value
Age	0.99 (0.95-1.02)	0.393				
Age group						
≤ 60	Ref.					
> 60	0.56 (0.22-1.42)	0.225				
Gender						
Female	Ref.					
Male	9.65 (0.49-189.89)	0.136 ^a				
BMI (kg/m²)	1.10 (0.97-1.24)	0.142				
Uric acid (mg/dl)	1.02 (0.70-1.49)	0.903				
Urine pH	1.33 (0.69-2.58)	0.392				
Creatinine (mg/dL)	1.48 (0.78-2.78)	0.231				
Creatinine group						
≤ 1.5	Ref.				Ref.	
> 1.5	2.63 (1.01-6.89)	0.049			3.00 (0.80-11.24)	0.102
eGFR (mL/min/1.73m²)	0.99 (0.97-1.01)	0.233				
eGFR group						
≥ 45	Ref.		Ref.			
< 45	3.06 (1.13-8.31)	0.028	3.92 (0.97-15.91)	0.056		
Cholesterol (mg/dL)	1.00 (0.99-1.02)	0.556				
Triglyceride (mg/dL)	1.01 (1.00-1.02)	0.231				
HbA1C (%)	1.07 (0.68-1.67)	0.774				
Diabetes mellitus						
No	Ref.		Ref.		Ref.	
Yes	0.08 (0.01-0.64)	0.017	0.12 (0.02-0.73)	0.022	0.12 (0.02-0.75)	0.023
Metabolic syndrome						
No	Ref.					
Yes	0.76 (0.15-3.86)	0.742				
Hypertension						
No	Ref.					
Yes	1.43 (0.57-3.59)	0.452				
Cardiovascular disease						
No	Ref.					
Yes	0.40 (0.08-1.88)	0.245				
Hyperlipidemia						
No	Ref.					
Yes	2.10 (0.54-8.19)	0.285				
Thiazide						
No	Ref.					
Yes	0.32 (0.01-8.78)	0.504 ^a				
Benzbromarone						
No	Ref.		Ref.		Ref.	
Yes	36.98 (4.32-316.64)	0.001	5.02 (0.60-42.11)	0.137	6.29 (0.76-52.27)	0.089

^a Firth logistic regression