

Supplementary Table S1 Comparison of baseline characteristics between dropouters and completers groups

	All		
	Completer	Dropouter	P
Male, n (%)	2109 (35.36%)	892 (40.71%)	<0.05
Gender-specific Uric acid (mmol/L)			
Male	352.17±85.88	355.15±85.03	0.07
Femal	263.01±75.89	261.49±74.37	0.94
Age (years)	57.59±8.96	57.34±10.52	0.07
BMI (kg/m ²)	24.95± 3.15	24.65±3.17	<0.05
Educational attainment (high school or above),n (%)	1204 (20.28%)	593 (27.15%)	<0.05
Current smoker, n (%)	1159 (20.62%)	489 (23.66%)	<0.05
Current drinker, n (%)	595 (10.53%)	214 (10.34%)	0.38
Physically active, n (%)	866 (14.55%)	304 (13.91%)	0.23
SBP (mmHg)	139.52±119.49	137.70±19.79	<0.05
DBP (mmHg)	82.66±10.24	82.06±10.22	<0.05
Family history of diabetes,n (%)	529 (8.89%)	182 (8.33%)	0.22
FPG (mmol/L)	5.09±0.55	5.08±0.54	0.34
2-h PPG (mmol/L)	6.65±1.73	6.66±1.76	0.76
HbA1c (%)	5.6 (5.3–5.8)	5.5 (5.3–5.7)	<0.05
Fasting cholesterol (mmol/L)	5.34±0.99	5.25± 0.99	<0.05
Fasting HDL cholesterol (mmol/L)	1.35±0.32	1.32±0.31	<0.05
Fasting LDL cholesterol (mmol/L)	3.19±0.84	3.14±0.85	<0.05
Fasting TGs (mmol/L)	1.32 (0.95–1.87)	1.33 (0.94–1.83)	0.95
eGFR	99.68±11.19	99.46±12.67	0.44

Supplementary Table S2 Relative Risk (95% confidence interval) for incident diabetes diagnosed by different strategies according to baseline sex-specific serum uric acid quartiles

	Risk Ratio (95% confidence interval)				<i>P</i> trend
	Quartile 1	Quartile 2	Quartile 3	Quartile 4	
Cases/N	32/1493	49/1493	57/1490	69/1489	
Incidence of diabetes %	2.14	3.28	3.83	4.63	<0.0001
FPG	1.00	1.53 (0.95–2.48)	1.65 (1.02–2.66)	1.96 (1.20–3.20)	<0.0001
Cases/N	102/1493	115/1493	161/1490	187/1489	
Incidence of diabetes %	6.83	7.70	10.81	12.56	<0.0001
FPG+2hPBG	1.00	1.06 (0.79–1.41)	1.40 (1.06–1.85)	1.48 (1.11–1.99)	<0.0001
Cases/N	38/1493	56/1493	65/1490	81/1489	
Incidence of diabetes %	2.55%	3.75%	4.36%	5.44%	<0.0001
FPG+HbA1c	1.00	1.45 (0.93–2.26)	1.56 (1.003–2.44)	1.91 (1.21–3.00)	<0.0001

Adjusted for age, gender, bodymass index, hypertension (Yes/ No), smoking status, drinking status, educational attainment, physical activity, total cholesterol, triglycerides, fasting plasma glucose, estimated glomerular filtration rate and family history of diabetes