

**Supplementary Table 1.** Clinical characteristics of 471 patients with well-controlled T2DM (HbA1c <7.0%)

Variables	Type 2 diabetes mellitus			F/ $\chi^2$ value	P value
	Total	Without DKD	With DKD		
Number	471	344	127	-	-
Age, yr	55.65±11.62	54.67±11.73	58.31±10.91	3.045	0.002
Female sex	234 (49.7)	170 (49.4)	64 (50.4)	0.035	0.851
BMI, kg/m <sup>2</sup>	25.58±3.70	25.37±3.64	26.14±3.84	1.997	0.046
SBP, mm Hg	134.4±17.8	131.9±16.1	141.1±20.2	5.106	<0.001
DBP, mm Hg	78.4±10.0	78.0±9.6	79.4±11.1	1.428	0.154
Diabetic duration, yr	5.29±4.39	5.04±4.23	5.98±4.74	2.082	0.038
Glucose-lowering therapies					
Diabetes drug-free	160 (34.0)	121 (35.2)	39 (30.7)	0.825	0.364
Insulin treatments	52 (11.0)	33 (9.6)	19 (15.0)	2.721	0.099
Insulin-secretagogues	161 (34.2)	112 (32.6)	49 (38.6)	1.496	0.221
Metformin	195 (41.4)	142 (41.3)	53 (41.7)	0.008	0.929
Pioglitazone	103 (21.9)	72 (20.9)	31 (24.4)	0.657	0.418
AGIs	88 (18.7)	64 (18.6)	24 (18.9)	0.005	0.942
DPP-4Is	74 (15.7)	52 (15.1)	22 (17.3)	0.341	0.559
GLP-1RAs	7 (1.5)	5 (1.5)	2 (1.6)	-	1.000 <sup>a</sup>
Hypertension	234 (49.7)	148 (43.0)	86 (67.7)	22.624	<0.001
Statin medication	178 (37.8)	129 (37.5)	49 (38.6)	0.046	0.830
TG, mmol/L	1.62 (1.06–2.62)	1.54 (1.02–2.55)	1.88 (1.22–3.04)	2.302	0.022
TC, mmol/L	4.34±0.96	4.29±0.90	4.48±1.11	1.922	0.055
HDL-C, mmol/L	1.15±0.32	1.17±0.31	1.10±0.33	-2.126	0.034
LDL-C, mmol/L	2.51±0.79	2.46±0.73	2.66±0.93	2.397	0.017
Serum UA, $\mu$ mol/L	316.2±96.8	306.1±94.6	343.6±97.6	3.783	<0.001
Serum albumin, g/L	40.0±4.2	40.2±4.0	39.5±4.6	-1.506	0.133
Haemoglobin, g/L	134.1±16.8	134.6±16.5	132.5±17.5	-1.133	0.258
IS <sub>HOMAcp</sub>	3.11 (1.98–4.78)	3.19 (2.15–4.78)	2.71 (1.65–4.67)	-2.341	0.020
AUC <sub>cp</sub> , ng/mL·hr	14.5±7.2	14.1±6.7	15.6±8.2	2.047	0.041
AUC <sub>glu</sub> , mmol/L·hr	33.3±8.6	32.9±8.7	34.1±8.2	1.324	0.186
HbA1c, %	6.44±0.34	6.41±0.35	6.51±0.31	2.675	0.008
Postchallenge 2-hr glucose, mmol/L	12.76±1.69	12.64±1.71	13.08±1.60	2.567	0.011
Fasting glucagon, pg/mL	125.1±29.1	123.0±27.4	130.8±32.5	2.616	0.009
AUC <sub>glu</sub> , pg/mL·hr	410.4±169.3	391.1±152.9	462.8±198.9	4.148	<0.001
eGFR, mL/min/1.73 m <sup>2</sup>	95.8±24.4	100.3±21.2	83.7±28.1	-6.681	<0.001
UACR, mg/g	17.8 (13.4–29.4)	15.4 (12.4–19.0)	62.6 (36.0–173.0)	10.024	<0.001
Log <sub>10</sub> UACR, mg/g	1.39±0.45	1.19±0.15	1.94±0.52	24.250	<0.001

Values are presented as mean ± standard deviation, number (%), or median (interquartile range). Student's *t*-test and chi-square test were applied to detect differences in their corresponding type of data, and corresponding test statistics (*F* and  $\chi^2$  values) were also provided.

T2DM, type 2 diabetes mellitus; HbA1c, glycosylated hemoglobin; DKD, diabetic kidney disease; BMI, body mass index; SBP, systolic blood pressure; DBP, diastolic blood pressure; AGI,  $\alpha$ -glucosidase inhibitor; DPP-4I, dipeptidyl peptidase-4 inhibitor; GLP-1RA, glucagon-like peptide-1 receptor agonist; TG, triglyceride; TC, total cholesterol; HDL-C, high-density lipoprotein cholesterol; LDL-C, low-density lipoprotein cholesterol; UA, uric acid; IS<sub>HOMAcp</sub>, homeostasis model assessment of insulin resistance using C-peptide; AUC<sub>cp</sub>, area under the C-peptide curve; AUC<sub>glu</sub>, area under the glucose curve; AUC<sub>glu</sub>, area under the glucagon curve; eGFR, estimated glomerular filtration rate; UACR, urinary albumin-to-creatinine ratio.

<sup>a</sup>Compared by Fisher's exact test.