## Supplementary data

**Table S1.** Characteristics of 678 RTR and 275 controls at the day of their visit to the outpatient clinic. Healthy kidney donors are used as controls.

	RTR (n=678)	Controls (n=275)	P value
Taurine			
Urinary taurine excretion, µmol/24h	533 (210-946)	477 (253-943)	0.92
Urinary taurine concentration, µmol/L	216 (87-415)	199 (100-394)	0.85
Urinary taurine / creatinine ratio, µmol/mmol	46 (20-80)	41 (21-66)	0.21
Demographics			
Age, years	$53 \pm 13$	$54 \pm 11$	0.52
Sex, n (% male)	390 (58)	129 (47)	0.002
Smokers, n (%)			
Never	265 (42)	111 (53)	< 0.001
Past	287 (45)	49 (24)	
Current smoker	82 (13)	48 (23)	
<b>Body composition</b>			
Weight, kg	$80 \pm 17$	$73 \pm 14$	0.32
Height, cm	$174 \pm 10$	$175 \pm 10$	0.12
BMI, kg/m <sup>2</sup>	$26.6 \pm 4.8$	$26.0 \pm 3.5$	0.02
BSA, m <sup>2</sup>	$1.94 \pm 0.22$	$1.94 \pm 0.20$	0.85
Medication usage			
Antihypertensive drugs, n (%)	595 (88)	8 (5)	< 0.001
Statins, n (%)	360 (53)	31 (17)	< 0.001
Renal function parameters			
Serum creatinine, µmol/L	124 (99-160)	73 (65-82)	< 0.001
eGFR, ml/min/1.73m <sup>2</sup>	$45 \pm 19$	$92 \pm 16$	< 0.001
Creatinine clearance, ml/min	$66 \pm 27$	$126 \pm 39$	< 0.001
Proteinuria, n (%)	152 (22)	1 (0.4)	< 0.001
Dietary intakes *			
Energy intake, kcal/24h	$2172 \pm 619$	$2294 \pm 730$	0.02
Total protein intake, g/24h	$82 \pm 12$	$85 \pm 12$	0.007
Animal protein intake, g/24h	$51 \pm 13$	$51 \pm 12$	0.98
Plant protein intake, g/24h	$31 \pm 6$	$33 \pm 8$	< 0.001
Methionine intake, mg/24h	$1871 \pm 327$	$1920 \pm 322$	0.07
Cysteine intake, mg/24h	$1187 \pm 172$	$1238 \pm 190$	0.001
Total fat intake, g/24h	$88 \pm 16$	$94 \pm 20$	< 0.001
Total carbohydrate intake, g/24h	$249 \pm 63$	$258 \pm 49$	0.03

P value for difference was tested by independent t test, Mann Whitney U or chi-squared test

**Table S2.** Association of urinary taurine excretion, urinary taurine concentration and urinary taurine creatinine ratio with death-censored graft failure, using creatinine clearance instead of eGFR to adjust for renal function.

	Urinary taurine excretion		Urinary taurine concentration		Urinary taurine/creatinine ratio			
	HR [95% CI]	P value	HR [95% CI]	P value	HR [95% CI]	P value		
Model 1	0.74 [0.67-0.82]	< 0.001	0.75 [0.67-0.84]	< 0.001	0.74 [0.66-0.83]	< 0.001		
Model 2	0.84 [0.74-0.95]	0.005	0.84 [0.74-0.96]	0.007	0.83 [0.73-0.93]	0.002		
Model 3	0.85 [0.73-0.98]	0.03	0.84 [0.72-0.98]	0.02	0.82 [0.70-0.95]	0.009		
Model 4	0.85 [0.75-0.97]	0.012	0.86 [0.76-0.98]	0.02	0.84 [0.74-0.95]	0.007		
Model 5	0.82 [0.72-0.93]	0.002	0.83 [0.73-0.94]	0.003	0.82 [0.73-0.94]	0.003		
Model 1	Log2-transformed urinary taurine excretion, urinary concentration or urinary taurine/creatinine ratio (crude).							
Model 2	Model 1 + basic confounders (age, sex, weight, height, creatinine clearance, proteinuria).							
	Model 2 + cardiovascular risk factors (total cholesterol, HDL cholesterol, triglycerides, systolic blood pressure,							
Model 3	7 · · · · · · · · · · · · · · · · · · ·							
	medical history of myocardial infarction, medical history of CVA and/or TIA) and alcohol intake.							

<sup>\*</sup> Dietary intake was adjusted for energy intake through the residual method. Dietary intake was available in 641 RTR and 183 controls.

Model 2 + transplantation related factors (donor type, total dialysis time, time between transplantation and Model 4 baseline, cold ischemia time, CNI usage, proliferation inhibitor usage, and the number of transplantations up to baseline).

Model 5 Model 2 + polycystic kidney disease, urinary excretion of sodium, chloride, sulfate, thiosulfate and creatinine, Abbreviations: eGFR: estimated glomerular filtration rate; HDL: high-density lipoprotein; CVA: cerebrovascular accident; TIA: transient ischemic attack; CNI: calcineurin-inhibitor;