

Table SI. Subject information of the Sawara stroke cohort.

Parameter	HD	aCI	TIA
Total sample no.	109	196	79
Sex (male/female)	62/47	122/74	46/33
Age, years			
Average \pm SD	59.8 \pm 7.9	75.1 \pm 7.3	70.7 \pm 12.8
Median (range)	60 (45-90)	77 (58-85)	73 (26-90)
Diabetes, no. (%)	9 (8.3%)	53 (27.0%)	19 (24.1%)
Hypertension, no. (%)	34 (31.2%)	153 (78.1%)	53 (67.1%)
Cardiovascular disease, no. (%)	1 (0.9%)	10 (5.1%)	4 (5.1%)
Hyperlipidemia, no. (%)	31 (28.4%)	56 (28.6%)	30 (38.0%)
Smoking habits, no. (%)	47 (43.1%)	107 (54.6%)	29 (36.7%)
BMI, average \pm SD	23.4.3	23.0 \pm 3.5	23.6 \pm 3.7
Maximum IMT (mm), average \pm SD	1.7 \pm 0.8	3.0 \pm 1.6	2.5 \pm 1.3
AST (U/l), average \pm SD	27.9 \pm 35.0	23.4 \pm 9.2	27.7 \pm 31.9
ALT (U/l), average \pm SD	24.1 \pm 21.5	19.0 \pm 10.2	26.8 \pm 39.1
ALP (U/l), average \pm SD	239 \pm 119	241 \pm 76	242 \pm 73
LDH (U/l), average \pm SD	189 \pm 39	200 \pm 48	194 \pm 45
tBil (mg/dl), average \pm SD	0.9 \pm 0.4	0.8 \pm 0.4	0.7 \pm 0.3
CHE (U/l), average \pm SD	345 \pm 86	304 \pm 81	313 \pm 78
γ -GTP (U/l), average \pm SD	37.9 \pm 50.7	31.5 \pm 27.9	37.6 \pm 45.1

TP (g/dl), average \pm SD	7.2 \pm 0.5	7.3 \pm 1.0	7.1 \pm 0.5
ALB (g/dl), average \pm SD	4.4 \pm 0.4	4.2 \pm 0.5	4.2 \pm 0.5
BUN (mg/dl), average \pm SD	13.7 \pm 3.2	16.3 \pm 9.0	15.5 \pm 6.1
Creatinine (mg/dl), average \pm SD	0.7 \pm 0.2	0.9 \pm 1.0	0.8 \pm 0.3
eGFR (mL/min/1.73m ²), average \pm SD	79.0 \pm 20.4	71.1 \pm 22.3	70.7 \pm 19.8
UA (mg/dl), average \pm SD	5.1 \pm 1.4	5.6 \pm 4.5	5.4 \pm 1.3
AMY (U/l), average \pm SD	178 \pm 109	181 \pm 72	135 \pm 63
T-CHO (mg/dl), average \pm SD	201 \pm 37	196 \pm 37	204 \pm 43
HDL-C (mg/dl), average \pm SD	58.9 \pm 16.9	54.4 \pm 21.9	52.5 \pm 14.3
TG (mg/dl), average \pm SD	117 \pm 84	121 \pm 69	127 \pm 77
Na (mEq/l), average \pm SD	140 \pm 2	140 \pm 2	140 \pm 2
K (mq/l), average \pm SD	4.1 \pm 0.3	4.9 \pm 9.8	4.1 \pm 0.4
Cl (mEq/l), average \pm SD	104 \pm 3	104 \pm 8	105 \pm 3
CRP (mg/dl), average \pm SD	0.4 \pm 1.5	1.3 \pm 4.0	0.3 \pm 0.5
WBC (x10 ³ /μl), average \pm SD	6.2 \pm 2.0	7.7 \pm 8.5	6.5 \pm 1.7
RBC (x10 ⁶ /μl), average \pm SD	4.6 \pm 0.5	4.5 \pm 0.6	4.4 \pm 0.6
HGB (g/dl), average \pm SD	14.1 \pm 1.9	13.9 \pm 2.0	13.4 \pm .9
HCT (%), average \pm SD	41.1 \pm 4.8	40.8 \pm 5.3	39.8 \pm 5.1
PLT (x10 ³ /μl), average \pm SD	219 \pm 49	219 \pm 63	225 \pm 154

BS (mg/dl), average \pm SD	114 \pm 36	138 \pm 57	125 \pm 48
HbA1c (%), average \pm SD	5.6 \pm 0.7	5.8 \pm 1.2	5.8 \pm 0.9
Smoking period (year), average \pm SD	12.5 \pm 16.6	18.6 \pm 22.0	16.1 \pm 19.5
Alcohol drinking frequency (time/w), average \pm SD	2.6 \pm 3.2	2.0 \pm 3.0	2.4 \pm 3.0

HD, healthy donor; aCI, acute cerebral infarction; TIA, transient ischemic attack; BMI, body mass index; IMT, intima-media thickness; AST, aspartate aminotransferase; ALT, alanine aminotransferase; ALP, alkaline phosphatase; LDH, lactate dehydrogenase; tBil, total bilirubin; CHE, choline esterase; γ -GTP, gamma-glutamyl transpeptidase; TP, total protein; ALB, albumin; BUN, blood urea nitrogen; eGFR, estimated glomerular filtration rate; UA, uric acid; AMY, amylase; T-CHO, total cholesterol; HDL-C, high-density lipoprotein cholesterol; TG, triglyceride; CRP, C-reactive protein; WBC, white blood cell count; RBC, red blood cell count; HCT, hematocrit; PLT, platelet count; BS, blood sugar; HbA1c, hemoglobin A1c.

Table SII. Subject information of the Kumamoto CKD cohort.

Parameter	Type-1 CKD	Type-2 CKD	Type-3 CKD
Total sample no.	145	32	123
Sex, male/female	106/39	21/11	70/53
Age, years			
Average \pm SD	66.0 \pm 10.4	76.0 \pm 9.8	62.0 \pm 11.7
Median (range)	65 (38 - 93)	79 (54 - 90)	63 (28 - 89)
Height (cm), average \pm SD	161.1 \pm 9.1	156.1 \pm 9.8	159.5 \pm 9.0
Weight (kg), average \pm SD	59.2 \pm 12.2	53.9 \pm 11.5	53.4 \pm 11.2
BMI, average \pm SD	22.8 \pm 3.6	22.0 \pm 3.1	20.8 \pm 3.1
Plaque score, average \pm SD	7.7 \pm 4.1	6.8 \pm 4.0	4.3 \pm 3.6
Maximum IMT (mm), average \pm SD	2.2 \pm 0.8	2.1 \pm 0.7	1.8 \pm 0.9
ABI (right), average \pm SD	1.03 \pm 0.18	1.04 \pm 0.19	1.12 \pm 0.14
ABI (left), average \pm SD	1.03 \pm 0.20	1.02 \pm 0.20	1.11 \pm 0.14
CAVI (right), average \pm SD	9.8 \pm 1.8	9.3 \pm 2.3	9.0 \pm 1.7
CAVI (left), average \pm SD	9.8 \pm 1.8	9.1 \pm 2.5	8.8 \pm 1.7
HbA1c (%), average \pm SD	6.0 \pm 1.2	5.4 \pm 0.8	5.5 \pm 0.5
PTH (pg/ml), average \pm SD	69.3 \pm 66.0	58.7 \pm 54.9	70.3 \pm 96.0
Fe (μ g/dl), average \pm SD	62.5 \pm 28.0	63.4 \pm 29.5	67.2 \pm 23.1
Ferritin (ng/ml), average \pm SD	87.0 \pm 110.0	87.2 \pm 93.2	62.1 \pm 89.0
TSAT ratio, average \pm SD	24.7 \pm 10.5	23.9 \pm 10.3	25.8 \pm 10.2
Kt/V, average \pm SD	1.36 \pm 0.23	1.33 \pm 0.29	1.56 \pm 0.25

RBC (x10 ⁶ /μl), average ± SD	3.7±0.5	3.5±0.4	3.6±0.4
PLT (x10 ³ /μl), average ± SD	164±48	166±48	169±46
TP (g/dl), average ± SD	6.7±0.5	6.6±0.4	6.6±0.4
ALB (g/dl), average ± SD	3.8±0.3	3.9±0.3	3.9±0.3
UA (mg/dl), average ± SD	7.8±1.3	8.0±1.5	8.1±1.1
Na (mEq/l), average ± SD	137±3	139±2	139±2
K (mq/l), average ± SD	4.7±0.8	4.6±0.6	4.9±0.6
Cl (mEq/l), average ± SD	102±3	103±3	102±3
Ca (mEq/l), average ± SD	9.1±0.7	9.5±0.9	9.3±0.7
IP (mEq/l), average ± SD	5.6±1.3	5.2±1.3	5.4±1.1
Mg (mEq/l), average ± SD	2.7±0.4	2.7±0.4	2.8±0.4
AST (U/l), average ± SD	12.9±6.2	13.9±5.1	14.4±8.0
ALT (U/l), average ± SD	11.7±6.7	10.1±3.8	11.5±7.1
LDH (U/l), average ± SD	185±36	197±39	191±33
γ-GTP (U/l), average ± SD	32.4±49.6	17.8±6.4	29.4±30.4
ALP (U/l), average ± SD	244±102	206±63	242±109
tBil (mg/dl), average ± SD	0.4±0.1	0.4±0.1	0.3±0.1
AMY (U/l), average ± SD	103±40	123±50	143±56
Creatinine (mg/dl), average ± SD	10.3±2.4	9.8±1.9	11.9±2.3
T-CHO (mg/dl), average ± SD	146±30	152±20	163±33
HDL-C (mg/dl), average ± SD	44.8±14.3	41.4±11.3	51.7±14.6
LDL-C (mg/dl), average ± SD	73.8±22.5	81.8±15.2	85.0±26.6
TG (mg/dl), average ± SD	114±85	112±61	107±69

CRP (mg/dl), average \pm SD	2.5 \pm 5.4	2.6 \pm 6.2	1.4 \pm 2.1
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CKD, chronic kidney disease; BMI, body mass index; maximum IMT, maximum intima-media thickness; ABI, ankle brachial pressure index; CAVI, cardio-ankle vascular index; HbA1c, glycated hemoglobin; W-PTH, whole parathyroid hormone; ARB, angiotensin II receptor blocker; ACE, angiotensin converting enzyme; PTA, prothrombin; TSAT ratio, transferrin saturation ratio; Kt/V, standardized urea clearance; RBC, red blood cell number; PLT, platelet number; TP, total protein; ALB, albumin; UA, uric acid; HGB, hemoglobin; HCT, hematocrit; UN, urea nitrogen; CRE, creatinine; IP, inorganic phosphate; AST, aspartate aminotransferase; ALT, alanine amino transferase; LDH, lactate dehydrogenase; γ -GTP, γ -glutamyl transpeptidase; AP, alkaline phosphatase; tBil, total bilirubin; AMY, amylase; T-CHO, total cholesterol; HDL-C, high-density lipoprotein cholesterol; LDL-C, low-density lipoprotein cholesterol; TG, triglyceride; and CRP, C-reactive protein.