Supplementary Table 1. Baseline characteristics of study population stratified waist circumference in men

| Characteristic                  | WC <90 cm | P valuea | WC ≥90 cm | P valuea |
|--------------------------------|-----------|----------|-----------|----------|
|                                | Normouricemia | Hyperuricemia | Normouricemia | Hyperuricemia |
|                                | Group A (n=4,169) | Group B (n=735) | Group C (n=1,751) | Group D (n=601) |
| Age, yr                        | 45.95±0.29 | 40.91±0.61 | <0.001 | 49.33±0.45 | 42.17±0.58 | <0.001 | <0.001 |
| BMI, kg/m²                     | 22.91±0.04 | 23.59±0.1 | <0.001 | 27.51±0.08 | 28.64±0.15 | <0.001 | <0.001 |
| WC, cm                         | 81.22±0.11 | 82.45±0.25 | <0.001 | 95.7±0.16 | 96.96±0.31 | <0.001 | <0.001 |
| SBP, mm Hg                     | 117.79±0.28 | 119.59±0.55 | 0.002 | 123.39±0.42 | 123.24±0.62 | 0.626 | <0.001 |
| DBP, mm Hg                     | 76.79±0.19 | 79.05±0.43 | <0.001 | 81.04±0.29 | 83.09±0.51 | <0.001 | <0.001 |
| FPG, mg/dL                     | 99.79±0.42 | 97.53±0.61 | <0.001 | 110.89±0.88 | 102.47±0.84 | <0.001 | <0.001 |
| HbA1c, %                       | 5.58±0.01 | 5.45±0.02 | 0.001 | 5.95±0.03 | 5.66±0.03 | <0.001 | <0.001 |
| TG, mg/dL                      | 140.01±2.33 | 190.14±10.7 | <0.001 | 185.86±4.16 | 229.08±8.44 | <0.001 | <0.001 |
| HDL-C, mg/dL                   | 49.45±0.22 | 46.99±0.47 | <0.001 | 44.66±0.28 | 42.31±0.42 | <0.001 | <0.001 |
| LDL-C, mg/dL                   | 114.49±0.57 | 117.0±1.39 | 0.075 | 116.18±0.96 | 123.47±1.46 | <0.001 | <0.001 |
| TC, mg/dL                      | 189.45±0.67 | 196.68±1.82 | <0.001 | 193.35±1.08 | 203.6±1.68 | <0.001 | <0.001 |
| Uric acid, mg/dL               | 5.41±0.02 | 7.72±0.03 | <0.001 | 5.53±0.03 | 7.89±0.04 | <0.001 | <0.001 |
| eGFR, ml/min/1.73 m²           | 96.99±0.43 | 92.45±0.66 | <0.001 | 95.4±0.48 | 91.79±0.77 | 0.001 | <0.001 |
| Smoking                        | 0.323 | 0.006 | <0.001 |
| Never smoker                   | 1,060 (27.0) | 174 (26.1) | 367 (21.8) | 144 (28.4) |
| Ex-smoker                      | 1,654 (35.4) | 268 (33.0) | 786 (41.1) | 233 (34.4) |
| Current smoker                 | 1,464 (37.5) | 293 (40.9) | 597 (37.1) | 224 (37.2) |
| Alcohol intake                 | <0.001 | 0.042 | <0.001 |
| Nondrinker                     | 728 (14.8) | 81 (10.5) | 315 (16.0) | 74 (11.2) |
| Light drinker                  | 2,888 (71.5) | 495 (68.9) | 1,118 (64.7) | 401 (68.9) |
| Moderate-to-heavy drinker      | 553 (13.7) | 159 (20.6) | 317 (19.3) | 126 (19.0) |
| Physically active              | 938 (25.0) | 214 (32.4) | 0.001 | 358 (22.3) | 134 (24.4) | 0.379 | <0.001 |
| Household income               | 0.102 | 0.274 | 0.192 |
| Low                            | 492 (16.7) | 113 (20.8) | 179 (15.1) | 92 (18.6) |
| Middle                         | 2,090 (55.9) | 370 (52.8) | 895 (57.8) | 299 (54.3) |
| High                           | 1,058 (27.3) | 182 (26.4) | 440 (27.1) | 153 (26.8) |
| Education level                | 0.023 | <0.001 |
| Elementary school or less      | 558 (9.1) | 65 (5.8) | 251 (10.3) | 40 (3.4) |
| Middle school                  | 403 (8.2) | 59 (7.4) | 176 (9.6) | 45 (5.7) |
| High school                    | 1,344 (37.0) | 258 (40.7) | 539 (33.7) | 174 (33.1) |
| College or more                | 1,637 (45.7) | 311 (46.2) | 700 (46.3) | 306 (57.8) |
| Diabetes                       | 509 (0.6) | 51 (5.6) | 0.001 | 451 (23.1) | 73 (9.3) | <0.001 | <0.001 |
| Hypertension                   | 1,155 (22.8) | 220 (27.3) | 0.019 | 848 (44.6) | 276 (40.6) | 0.138 | <0.001 |
| Abdominal obesity              | - | - | - | - | - | - | - |
| High BP                        | 1,661 (34.8) | 324 (41.6) | 0.001 | 1,092 (60.1) | 377 (60.5) | 0.880 | <0.001 |
| Hypertriglyceridemia           | 1,799 (36.7) | 316 (37.6) | 0.670 | 1,174 (62.1) | 345 (51.6) | <0.001 | <0.001 |
| Low HDL-C                      | 1,532 (35.4) | 363 (48.4) | <0.001 | 1,007 (57.9) | 398 (66.5) | 0.002 | <0.001 |
| MetS                           | 857 (19.0) | 191 (24.0) | 0.003 | 595 (32.7) | 254 (44.4) | <0.001 | <0.001 |
| MetS                           | 812 (16.3) | 197 (23.4) | <0.001 | 1,281 (70.2) | 442 (71.9) | 0.500 | <0.001 |

Values are presented as mean±standard error or number (%).

WC, waist circumference; BMI, body mass index; SBP, systolic blood pressure; DBP, diastolic blood pressure; FPG, fasting plasma glucose; HbA1c, glycosylated hemoglobin; TG, triglyceride; HDL-C, high-density lipoprotein cholesterol; LDL-C, low-density lipoprotein cholesterol; TC, total cholesterol; eGFR, estimated glomerular filtration rate; BP, blood pressure; MetS, metabolic syndrome.

*Serum uric acid level of ≥7.0 mg/dl in men and ≥6.0 mg/dl in women, †Systolic BP ≥130 mm Hg and/or diastolic BP ≥85 mm Hg or use of antihypertensive medications, ‡FPG ≥100 mg/dL or use of antidiabetic medications, §TG ≥150 mg/dL or medication use, ¶HDL-C <40 mg/dL in men and <50 mg/dL in women or medication use, ‖Having three or more of the aforementioned components, ‡Comparison between four groups, P<0.05 compared with Group A, P<0.05 compared with Group B.

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