**Supplemental materials**

**Supplemental TABLE 1.** General characteristics of the control cohort deriving from 6 cohorts from general population employed to confirm the validity of the cut-off values identified by the receiver operating characteristic curve method. Continuous variables were expressed as mean ± standard deviation. All the categorical variables are in %.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Variables** | **Whole database**  (n=9385) |  | **Females** (n=5276) |  | **Males**  (n=4109) |  | ***p* values between sexes** |
| **Age** (years) | 58.7 ± 16.9 |  | 59.6 ± 17.1 |  | 57.6 ± 16.5 |  | <0.0001 |
| **Serum uric acid** (mg/dL) | 5.1 ± 1.4 |  | 4.7 ± 1.3 |  | 5.5 ± 1.3 |  | <0.0001 |
| **Body mass index** (kg/m2) | 26.0 ± 4.3 |  | 26.8 ± 4.6 |  | 26.1 ± 3.8 |  | <0.0001 |
| **Waist circumference** (cm) | 87.9 ± 13.1 |  | 83.3 ± 12.7 |  | 93.3 ± 11.5 |  | <0.0001 |
| **Heart rate** (bpm) | 74.4 ± 13.6 |  | 75.8 ± 12.8 |  | 72.6 ± 14.4 |  | <0.0001 |
| **Systolic BP** (mmHg) | 146.4 ± 26.4 |  | 147.2 ± 28.0 |  | 145.3 ± 24.3 |  | <0.0005 |
| **Diastolic BP** (mmHg) | 86.0 ± 11.6 |  | 85.8 ± 12.1 |  | 86.4 ± 11.0 |  | <0.01 |
| **Azotemia** (mg/dL) | 31.7 ± 10.0 |  | 31.3 ± 10.0 |  | 33.0 ± 10.0 |  | <0.0001 |
| **Serum creatinine** (mg/dL) | 0.90 ± 0.26 |  | 0.85 ± 0.26 |  | 0.97 ± 0.23 |  | <0.0001 |
| **Serum glucose** (mg/dL) | 99.1 ± 26.9 |  | 100.2 ± 29.0 |  | 99.9 ± 24.0 |  | 0.6 |
| **LDLC** (mg/dL) | 135.3 ± 36.3 |  | 135.6 ± 36.2 |  | 135.1 ± 36.4 |  | 0.6 |
| **Haematocrit** (%) | 42.3 ± 3.9 |  | 40.9 ± 3.4 |  | 44.2 ± 3.8 |  | <0.0001 |
| **Smoking habit** (yes %) | 22.8 |  | 14.9 |  | 32.6 |  | <0.0001 |
| **Diabetes** (yes %) | 11.6 |  | 12.3 |  | 10.8 |  | <0.02 |
| **Ethanol intake** (yes %) | 71.2 |  | 65.8 |  | 78.2 |  | <0.0001 |
| **Hypertension** (yes %) | 62.2 |  | 62.3 |  | 62.0 |  | 0.8 |
| **CKD** (yes %) | 6.0 |  | 4.7 |  | 7.7 |  | <0.0001 |
| **Gout** (yes %) | 0.9 |  | 0.6 |  | 1.4 |  | 0.001 |
| **Heart failure** (yes %) | 36.3 |  | 39.0 |  | 31.0 |  | <0.0001 |
| **Diuretics use** (yes %) | 20.4 |  | 23.5 |  | 16.4 |  | <0.0001 |
| **Statin use** (yes %) | 2.1 |  | 2.1 |  | 2.1 |  | 1.0 |

BP: blood pressure; LDLC: low-density-lipoprotein serum cholesterol; CKD = chronic kidney disease; yes=1, no=0.

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