**S1 Table.** Univariable odds ratios (95% confidence intervals) for risk factors of hypokalemia and hyperkalemia in 5,130 participants of the Prevention of Renal and Vascular End-stage Disease (PREVEND) study.

|  |  |
| --- | --- |
|  | **Plasma potassium, mmol/L** |
|  |  2.3-3.4 | 3.5-3.9 | 4.0-4.4 | 4.5-4.9 | 5.0-6.3 |
| Sex, female vs male | 4.05 (1.38-11.87)\* | 1.81 (1.45-2.26)\*\*\* | 1.00 (ref) | 0.76 (0.67-0.85)\*\*\* | 0.71 (0.53-0.95)\* |
| Age, y | 1.04 (1.00-1.07)\* | 1.00 (1.00-1.01) | 1.00 (ref) | 1.00 (1.00-1.01) | 1.00 (0.99-1.02) |
| BMI, kg/m2 | 1.04 (0.95-1.14) | 1.00 (0.97-1.03) | 1.00 (ref) | 0.99 (0.98-1.01) | 0.98 (0.94-1.02) |
| eGFR, ml/min/1.73m2 | 0.97 (0.95-1.00)\* | 1.01 (1.00-1.01) | 1.00 (ref) | 0.99 (0.99-1.00)\*\*\* | 0.99 (0.98-1.00)\*\* |
| Current smoker, yes vs no | 0.83 (0.33-2.09) | 0.56 (0.43-0.72)\*\*\* | 1.00 (ref) | 1.54 (1.36-1.75)\*\*\* | 1.35 (0.99-1.83) |
| Alcohol consumption, yes vs no | 3.22 (1.44-7.20)\*\* | 1.27 (1.00-1.60)\* | 1.00 (ref) | 0.91 (0.79-1.05) | 0.69 (0.47-1.01) |
| Education, high, yes vs no | 0.20 (0.05-0.86)\* | 0.88 (0.70-1.10) | 1.00 (ref) | 0.96 (0.84-1.09) | 1.04 (0.76-1.42) |
| White, yes vs no | 0.25 (0.03-1.92) | 0.62 (0.27-1.41) | 1.00 (ref) | 2.96 (1.23-7.12)\* | - |
| Type 2 diabetes, yes vs no | 16.22 (5.27-49.91)\*\*\* | 2.06 (1.0-4.19)\* | 1.00 (ref) | 1.72 (1.07-2.77)\* | 1.28 (0.39-4.20) |
| Hypertension, yes vs no | 7.96 (3.13-20.26)\*\*\* | 1.49 (1.19-1.86)\*\* | 1.00 (ref) | 0.91 (0.79-1.04) | 0.87 (0.62-1.23) |
| ACEi, yes vs no | 1.60 (0.21-12.10) | 1.60 (0.95-2.70) | 1.00 (ref) | 0.83 (0.56-1.23) | 0.80 (0.29-2.21) |
| ARB, yes vs no | - | 1.51 (0.33-7.04) | 1.00 (ref) | 1.56 (0.60-4.06) | 1.75 (0.22-13.89) |
| Beta blockers, yes vs no | 5.72 (2.05-15.96)\*\*\* | 1.50 (0.99-2.28) | 1.00 (ref) | 1.06 (0.80-1.41) | 1.30 (0.69-2.46) |
| Thiazide diuretics, yes vs no | 23.98 (8.80-65.37)\*\*\* | 6.03 (3.80-9.56)\*\*\* | 1.00 (ref) | 0.32 (0.15-0.70)\*\* | 0.36 (0.05-2.64) |
| Loop diuretics, yes vs no | 16.05 (1.91-134.72)\* | 5.17 (1.78-14.99)\*\* | 1.00 (ref) | 1.54 (0.56-4.25) | 1.97 (0.25-15.83) |
| Potassium-sparing diuretics, yes vs no | - | 7.09 (3.59-14.02)\*\*\* | 1.00 (ref) | 0.41 (0.14-1.23) | 3.77 (1.25-11.33)\* |
| Urinary potassium excretion, mmol/24h | 0.96 (0.94-0.98)\*\*\* | 0.99 (0.98-1.00)\*\*\* | 1.00 (ref) | 1.00 (1.00-1.01) | 1.01 (1.00-1.01) |
| Urinary magnesium excretion, mmol/24h | 0.55 (0.41-0.75)\*\*\* | 0.89 (0.83-0.95)\*\* | 1.00 (ref) | 1.05 (1.01-1.09)\* | 1.13 (1.03-1.24)\*\* |
| Urinary albumin excretion, mg/24h† | 3.23 (1.48-7.04)\*\* | 1.14 (0.92-1.42) | 1.00 (ref) | 0.98 (0.86-1.11) | 1.15 (0.85-1.56) |

Odds ratios (95% confidence intervals) are calculated with multinomial regression analyses.

\* P<0.05, \*\* P<0.01, \*\*\* P<0.001.

† Natural log(ln)-transformed.

Abbreviations: ACEi, angiotensin converting enzyme inhibitor; ARB, angiotensin receptor blockers; BMI, body mass index; PREVEND, Prevention of Renal and Vascular End-Stage Disease.