|                          | Men (n=607)       |     | Women (n=1,042) |     |     |
|--------------------------|-------------------|-----|-----------------|-----|-----|
|                          | ACR < 30mg/g  | ACR ≥ 30mg/g | p value  | ACR < 30mg/g | ACR ≥ 30mg/g | p value |
| n (%)                    | 580 (96.5) | 27 (4.5)    | -         | 974 (93.5) | 68 (6.5)     | -       |
| ACR (mg/g)               | 4.0 (2.0-7.3) | 48.2 (39.1-96.3) | <0.0001 | 5.1 (2.6-9.4) | 48.7 (38.4-95.7) | <0.0001 |
| Serum fetuin-A (mg/l)    | 292.5 (235.3-368.3) | 302.3 (246.4-374.8) | 0.93 | 280.4 (232.9-351.7) | 314.3 (261.4-390.2) | 0.007 |
| Age (years)              | 60.2 ± 9.3 | 65.3 ± 10.6 | 0.006 | 57.6 ± 9.2 | 59.9 ± 10.3 | 0.04 |
| BMI (kg/m²)              | 24.3 ± 3.2 | 25.8 ± 3.1 | 0.03 | 24.4 ± 3.4 | 25.2 ± 3.8 | 0.07 |
| SBP (mmHg)               | 133.3 ± 20.2 | 149.7 ± 25.3 | <0.0001 | 129.8 ± 19.8 | 142.3 ± 22.8 | <0.0001 |
| DBP (mmHg)               | 78.8 ± 10.2 | 83.9 ± 11.8 | 0.01 | 75.5 ± 9.4 | 78.0 ± 9.4 | 0.04 |
| FPG (mmol/l)             | 4.8 (4.5-5.1) | 4.9 (4.5-5.1) | 0.27 | 4.8 (4.6-5.1) | 4.8 (4.5-5.1) | 0.51 |
| 2h PPG (mmol/l)          | 6.0 (5.0-7.0) | 6.2 (5.7-6.9) | 0.08 | 6.1 (5.3-6.8) | 6.1 (5.2-6.8) | 0.99 |
| HOMA-IR                  | 1.1 (0.7-1.6) | 1.7 (1.1-2.5) | 0.003 | 1.3 (0.9-1.9) | 1.4 (0.9-2.2) | 0.12 |
| TG (mmol/l)              | 1.5 ± 1.2 | 1.9 ± 1.4 | 0.10 | 1.4 ± 0.9 | 1.5 ± 0.8 | 0.25 |
| TC (mmol/l)              | 4.8 ± 0.9 | 4.6 ± 0.6 | 0.29 | 5.2 ± 0.9 | 5.1 ± 0.9 | 0.31 |
| LDL-C (mmol/l)           | 2.3 ± 0.6 | 2.3 ± 0.5 | 0.68 | 2.3 ± 0.7 | 2.3 ± 0.7 | 0.99 |
| HDL-C (mmol/l)           | 1.3 ± 0.3 | 1.1 ± 0.2 | 0.02 | 1.5 ± 0.3 | 1.4 ± 0.3 | 0.06 |
| hs-CRP (mg/l)            | 0.15 (0.05-0.60) | 0.19 (0.08-0.64) | 0.40 | 0.11 (0.04-0.41) | 0.13 (0.04-0.60) | 0.48 |
| eGFR (ml/min per 1.73 m²) | 74.8 (66.1-83.6) | 60.1 (51.9-78.2) | 0.005 | 74.3 (65.5-85.1) | 76.5 (61.3-85.3) | 0.19 |
| Current smoking, n (%)   | 325 (56.1) | 13 (48.2) | 0.18 | 22 (2.3) | 4 (5.9) | 0.18 |
| Current alcohol consumption, n (%) | 215 (37.1) | 5 (18.5) | 0.14 | 64 (6.6) | 2 (2.9) | 0.19 |
| Family history of diabetes, n (%) | 66 (11.4) | 6 (22.2) | 0.09 | 137 (14.1) | 13 (19.1) | 0.25 |

Data are means ± standard deviation or medians (interquartile ranges) or numbers (proportions). P values were calculated from χ² tests for categorical variables and standard normal z-tests for continuous variables. ACR, albumin-to-creatinine ratio; BMI, body mass index; SBP, systolic blood pressure; DBP, diastolic blood pressure; FPG, fasting plasma glucose; PPG, postchallenge plasma glucose; HOMA-IR, homeostasis model assessment of insulin resistance; TG, triglycerides; TC, total cholesterol; LDL-C, low-density lipoprotein cholesterol; HDL-C, high-density lipoprotein cholesterol; hs-CRP, high sensitive C-reactive protein; eGFR, estimated glomerular filtration rate.
Online Appendix Figure 1. Prevalence of abnormal albuminuria across quartiles of serum fetuin-A concentrations by sex (A for men and B for women).

A (men)

\[ P_{\text{for trend}} = 0.79 \]

B (women)

\[ P_{\text{for trend}} = 0.007 \]