**Circulating amyloid beta 1-40 peptide as an associate of renal function decline mediating increased mortality.**

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| **Supplementary Table 1. Percentage of missing data in the cohort** |
| **Variable** | **Missing cases** |
| **n** | **%** |
| **Age (years)** | 0 | 0 |
| **Sex (male) (n, %)** | 0 | 0 |
| BMI (kg/m2) | 79 | 9.7 |
| Smoking (n, %) | 21 | 2.6 |
| **Hypertension (n, %)** | 17 | 2.1 |
| Hyperlipidemia (n, %) | 19 | 2.3 |
| **Diabetes mellitus (n, %)** | 18 | 2.2 |
| **Presence of CAD (n, %)** | 0 | 0 |
| **Statins (n, %)** | 27 | 3.3 |
| **Antihypertensive treatment (n, %)** | 26 | 3.2 |
| **Antiplatelet treatment (n, %)** | 27 | 3.3 |
| **SBP (mmHg)** | 73 | 9.0 |
| DBP (mmHg) | 73 | 9.0 |
| Fasting glucose (mg/dl) | 78 | 9.6 |
| Total cholesterol (mg/dl) | 77 | 9.5 |
| **HDL-C (mg/dl)** | 80 | 9.9 |
| LDL-C (mg/dl) | 79 | 9.7 |
| Triglycerides (mg/dl) | 79 | 9.7 |
| **Aβ1-40 level (pg/mL)** | 0 | 0 |
| **Creatinine (mg/dl)** | 0 | 0 |
| **GFR (ml/min/1.73m2)** | 0 | 0 |
| Abbreviations: BMI, body mass index; CAD, coronary artery disease; SBP, systolic blood pressure; DBP, diastolic blood pressure; HDL-C, high-density lipoprotein cholesterol; LDL-C, low-density lipoprotein cholesterol; Aβ1-40, amyloid-beta 1-40; GFR, glomerular filtration rate. |

**Supplementary Table 2. Descriptive characteristics of the population with follow-up information between 1st and 2nd visiting time interval (n=189)**

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| --- | --- | --- | --- |
| **Variable**  | **Baseline**  | **Follow-up** | **P-value** |
| **Cardiometabolic risk factors** |
| Age (years) | 59.2 (11.7) | 60.4 (11.7) | 0.306 |
| BMI (kg/m2) | 28.1 (4.8) | 28.3 (4.8) | 0.707 |
| Waist-to-hip ratio | 0.97 (0.08) | 0.98 (0.10) | 0.444 |
| Smoking (n, %) | 70 (37.0) | 62 (32.8) | 0.604 |
| Hypertension (n, %) | 105 (55.6) | 109 (57.7) | 0.551 |
| Hyperlipidemia (n, %) | 186 (98.4) | 187 (98.9) | 0.653 |
| Diabetes mellitus (n, %) | 60 (31.7) | 61 (32.3) | 0.856 |
| Presence of CAD (n, %) | 92 (48.7) | 92 (48.7) | 0.990 |
| **Statins (n, %)** | **111 (58.7)** | **151 (79.9)** | **<0.001** |
| Antihypertensive treatment (n, %) | 117 (61.9) | 126 (66.7) | 0.334 |
| Antiplatelet treatment (n, %) | 92 (48.7) | 93 (49.2) | 0.878 |
| B-blockers (n, %) | 80 (42.3) | 85 (45.0) | 0.604 |
| RAAS inhibitors (n, %) | 85 (45.0) | 93 (49.2) | 0.410 |
| SBP (mmHg) | 127.1 (18.1) | 126.3 (16.0) | 0.664 |
| DBP (mmHg) | 72.5 (10.5) | 73.5 (10.4) | 0.374 |
| Aortic SBP (mmHg) | 119.1 (18.7) | 118.9 (17.2) | 0.941 |
| Aortic DBP (mmHg) | 72.5 (10.3) | 77.2 (54.4) | 0.251 |
| Fasting glucose (mg/dl) | 105.8 (32.3) | 102.3 (24.8) | 0.236 |
| **Total cholesterol (mg/dl)** | **175.2 (60.0)** | **150.0 (47.8)** | **<0.001** |
| HDL-C (mg/dl) | 48.1 (15.6) | 48.7 (14.9) | 0.708 |
| **LDL-C (mg/dl)** | **112.6 (54.8)** | **84.1 (44.4)** | **<0.001** |
| Triglycerides (mg/dl) | 129.7 (76.4) | 121.1 (84.4) | 0.303 |
| **Aβ1-40 level (pg/mL)** | **75.8 (28.0)** | **82.7 (33.4)** | **0.030** |
| **Creatinine (mg/dl)** | **0.79 (0.53)** | **0.87 (0.79)** | **0.001** |
| **GFR (ml/min/1.73m2)** | **105.9 (28.6)** | **101.3 (22.5)** | **<0.001** |
| GFR<60 ml/min/1.73m2 (n, %) | 6 (3.3) | 13 (7.1) | 0.110 |
| Note: Continuous variables are presented as mean (SD) and nominal as count (absolute percentages). Boldface values indicate statistical significance, which was set at the level of p-value <0.05.Abbreviations: BMI, body mass index; CAD, coronary artery disease; RAAS, renin-angiotensin-aldosterone system; SBP, systolic blood pressure; DBP, diastolic blood pressure; HDL-C, high-density lipoprotein cholesterol; LDL-C, low-density lipoprotein cholesterol; GFR, glomerular filtration rate.  |



**Supplementary Figure 1. Flow chart of the study**

Abbreviations: Αβ1-40, amyloid-beta 1-40.