**Supplemental table 1.** Linear regression analysis of uric acid with muscle mass, strength, and functional capacity.

| | **β (uric acid value)** | ***p-value*** |
|---|---|---|
| Fat-Free Mass (kg) | 1.081 | **0.001** |
| Muscle Mass (kg) | 0.462 | **0.006** |
| Appendicular Skeletal Muscle Mass (kg) | 0.445 | **< 0.001** |
| Muscle Mass Index (kg/m²) | 0.110 | **0.050** |
| Appendicular Skeletal Muscle Index (kg/m²) | 0.118 | **0.001** |
| Short Physical Performance Battery (score) | 0.089 | 0.290 |
| 4-meter walk test (m/s) | -0.012 | 0.348 |
| Handgrip Strength (kg) | 0.826 | 0.062 |
| Five times sit to stand test (s) | -0.464 | **0.035** |

*Notes:* Adjusted for sex, age, physical activity, protein intake (g/kg), glomerular filtration rate, allopurinol use, waist circumference, triglyceride levels, diabetes, hypertension, tacrolimus and cyclosporine blood levels, smoking status and loop diuretics use.

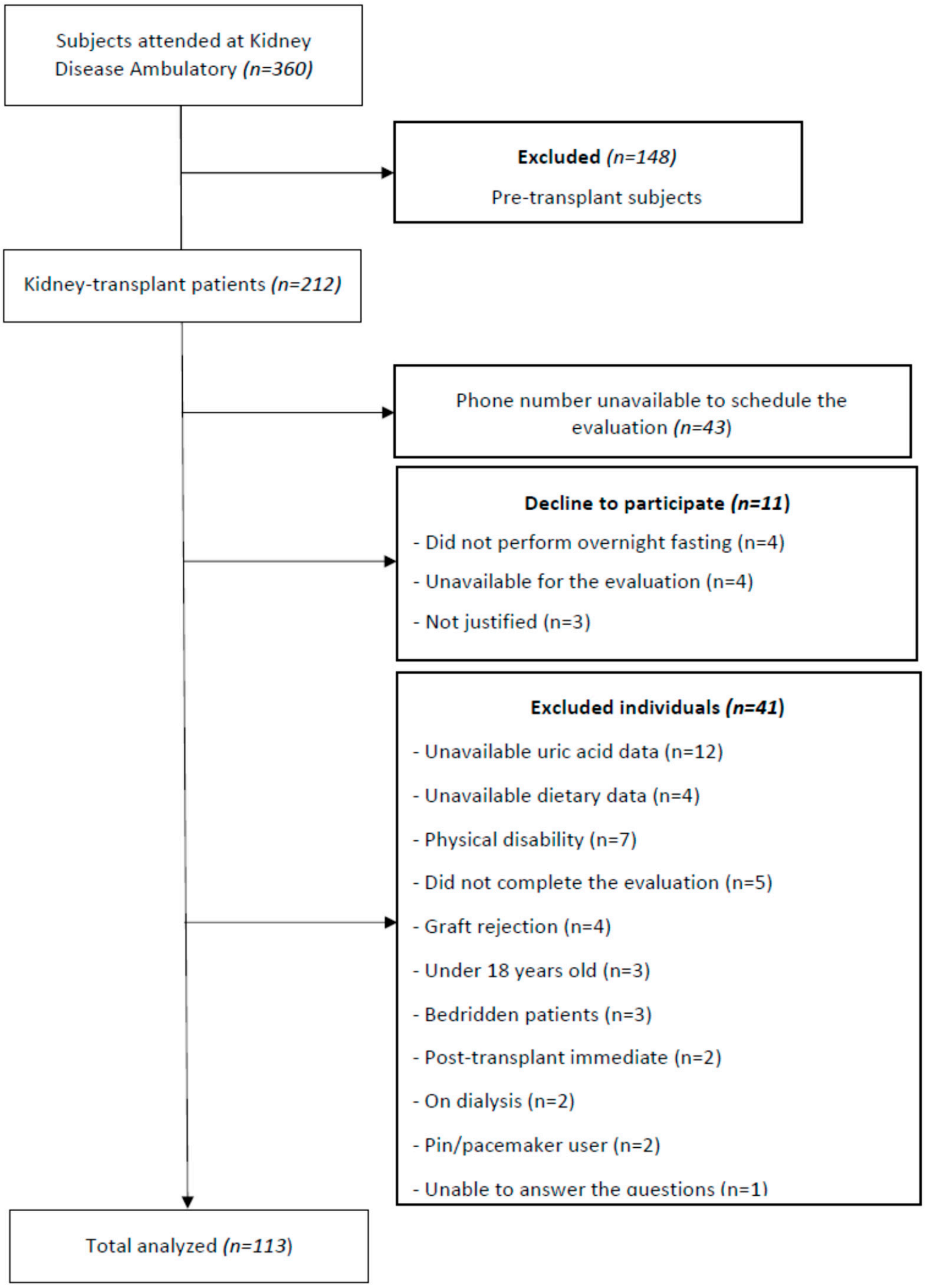
**Supplemental Table 2.** Linear regression analysis of uric acid with muscle mass, strength, and functional capacity according to sex.

| | **Simple linear regression** | | **Multiple linear regression** | | | |
|---|---|---|---|---|---|---|
| | **β (uric acid)** | ***p-value*** | **β (uric acid)** | **R$^2$ %** | ***R$^2$ %** | ***p-value*** |
| ***Men (n=75)*** | | | | | | |
| Fat-Free Mass (kg) | 1.565 | **0.001** | 0.934 | 63.47 | 3.77 | **0.011** |
| Muscle Mass (kg) | 0.627 | **0.001** | 0.516 | 33.15 | 6.92 | **0.010** |
| Appendicular Skeletal Muscle Mass (kg) | 0.588 | **<0.001** | 0.387 | 56.77 | 5.44 | **0.005** |
| Muscle Mass Index (kg/m$^2$) | 0.175 | **0.005** | 0.141 | 31.01 | 5.08 | **0.030** |
| Appendicular Skeletal Muscle Index (kg/m$^2$) | 0.588 | **<0.001** | 0.105 | 63.52 | 3.99 | **0.009** |
| Short Physical Performance Battery (score) | -0.017 | 0.828 | 0.111 | 21.67 | 2.06 | 0.189 |
| 4-meter walk test (m/s) | -0.022 | 0.124 | -0.016 | 13.34 | 1.34 | 0.312 |
| Handgrip Strength (kg) | 0.575 | 0.294 | 0.795 | 13.77 | 2.19 | 0.197 |
| Five times sit to stand test (s) | -0.228 | 0.217 | -0.444 | 15.16 | 6.01 | **0.033** |
| ***Women (n=38)*** | | | | | | |
| Fat-Free Mass (kg) | 1.190 | 0.141 | 0.850 | 66.67 | 1.48 | 0.257 |
| Muscle Mass (kg) | 0.414 | 0.209 | -0.081 | 61.46 | 0.08 | 0.802 |
| Appendicular Skeletal Muscle Mass (kg) | 0.336 | 0.223 | 0.224 | 71.35 | 0.90 | 0.341 |
| Muscle Mass Index (kg/m$^2$) | 0.112 | 0.323 | -0.093 | 55.83 | 0.92 | 0.435 |
| Appendicular Skeletal Muscle Index (kg/m$^2$) | 0.336 | 0.223 | 0.042 | 70.81 | 0.30 | 0.585 |
| Short Physical Performance Battery (score) | -0.098 | 0.622 | -0.149 | 41.83 | 0.78 | 0.531 |
| 4-meter walk test (m/s) | -0.015 | 0.519 | -0.015 | 29.76 | 0.62 | 0.613 |
| Handgrip Strength (kg) | -0.043 | 0.909 | 0.426 | 41.64 | 1.76 | 0.349 |
| Five times sit to stand test (s) | -0.262 | 0.558 | -0.057 | 44.88 | 0.02 | 0.912 |

Notes: Adjusted for age, physical activity, protein (g/kg), glomerular filtration rate, allopurinol use and waist circumference.
*$R^2$% = $R^2$ value of uric acid plus adjustments minus the $R^2$ value of the statistical model with only the adjustments variables.

**Supplemental Table 3.** Characteristics of the participants according to uric acid levels.

| | **Normal Uric Acid** *(n=66)* | **Elevated Uric Acid** *(n=47)* |
|---|---|---|
| ***Drugs*** | | |
| Allopurinol (mg/day) | 40.9 ± 55.4 | 29.8 ± 50.7 |
| Prednisone (mg/ day ) | 5.7 ± 2.2 | 6.7 ± 7.2 |
| Tacrolimus (mg/ day ) | 2.3 ± 3.0 | 2.7 ± 3.0 |
| Cyclosporine (mg/day) | 10.6 ± 32.2 | 14.4 ± 41.3 |
| Everolimus (mg/day) | 0.16 ± 0.43 | 0.20 ± 0.46 |
| Sirolimus (mg/day) | 0.09 ± 0.41 | 0.0 ± 0.0 |
| Azathioprine (mg/day) | 11.1 ± 27.7 | 5.3 ± 18.7 |
| Mycophenolate sodium (mg/day) | 305 ± 424 | 344 ± 422 |
| Mycophenolate mofetil (mg/day) | 310 ± 553 | 297 ± 577 |
| Loop diuretics (mg/day) | 8.6 ± 20.1 | 18.7 ± 24.5 |
| Thiazide diuretics (mg/day) | 1.1 ± 6.8 | 2.1 ± 8.8 |



**Supplemental Figure 1.** Flowchart of the participants.