**SUPPLEMENTAL DATA**

**Table S1. Study subject demographics.** Data are shown as mean, SEM (n is shown in the age row, and in other rows where samples are missing).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Sex** | **RRS** | **CREG** | **DRS** | **IPOP** | **HERITAGE** |
| **Age (y)** | **M**  **F** | 42.8, 0.9 (187)  50.3, 0.9 (202) | 54.2, 3.3 (15)  57.2, 1.7 (53) | 25.9, 1.3 (92)  26.3, 1.3 (90) | 53.1, 3.3 (15)  54.4, 3.1 (16) | 34.9, 2.0 (40)  32.8, 2.0 (40) |
| **Weight (kg)** | **M**  **F** | 80.6, 1.0  67.2, 1.0 | 94.3, 3.6  74.9, 1.9 | 76.9, 1.4  68.9, 1.5 | 87.9, 3.6  82.9, 3.5 | 84.5, 2.2  68.4, 2.2 |
| **BMI**  **(kg/m2)** | **M**  **F** | 25.4, 0.3  24.8, 0.3 | 28.4, 1.1  27.6, 0.6 | 24.7, 0.4  25.5, 0.4 | 28.6, 1.1  29.9, 1.1 | 26.8, 0.7  24.9, 0.7 |
| **BPdias**  **(mmHg)** | **M**  **F** | 78.4, 0.7  73.6, 0.6 | 77.6, 2.4  74.1, 1.3 | 73.7, 1.0 (90)  69.9, 1.0 (86) | 75.5, 2.4  77.8, 2.3 | 68.6, 1.5  64.0, 1.5 |
| **BPsys**  **(mmHg)** | **M**  **F** | 125.8, 0.8  118.9, 0.8 | 117.1, 3.0  116.2, 1.6 | 120.7, 1.2 (90)  110.5, 1.2 (86) | 120.0, 3.0  121.2, 2.9 | 121.4, 1.8  111.6, 1.8 |
| **Adropin (ng/ml)** | **M**  **F** | 4.6, 0.3  3.3, 0.2 | 2.7, 0.9  2.9, 0.5 | 4.0, 0.4  3.0, 0.4 | 3.8, 0.9  2.9, 0.8 | 4.3, 0.5  3.5, 0.5 |
| **Insulin (U/ml)** | **M**  **F** | 14.0, 0.4  14.1, 0.4 | 9.3, 1.7 (13)  8.3, 0.9 (43) | 12.5, 0.6  13.5, 0.6 | 13.0, 1.5  15.4, 1.5 | 11.4, 1.0  8.4, 1.0 |
| **Glucose (mg/dL)** | **M**  **F** | 93.1, 0.6  91.7, 0.6 | 99.6, 2.1  95.2, 1.1 | 90.9, 0.6  89.0, 0.7 | 87.5, 2.1  89.0, 2.0 | 92.5, 1.3  87.0, 1.3 (38) |
| **Total cholesterol (mg/dL)** | **M**  **F** | 191.5, 2.6  208.4, 2.5 | 191.9, 9.3  203.8, 5.0 (52) | 160.6, 3.8  154.8, 3.8 | 175.9, 9.3  195.5, 9.1 | 176.6, 5.8  166.9, 5.8 |
| **LDL-C**  **(mg/dL)** | **M**  **F** | 119.3, 2.4  120.8, 2.3 | 121.6, 8.4  123.0, 4.4 | 96.5, 3.4  84.2, 3.4 | 113.5, 8.4  123.6, 8.1 | 120.2, 5.2  106.9, 5.2 |
| **nonHDLc**  **(mg/dL)** | **M**  **F** | 138.2, 2.6  138.6, 2.5 | 149.2, 9.2  144.0, 4.9 | 119.4, 3.7  108.2, 3.8 | 138.6, 9.2  154.2, 8.9 | 141.8, 5.7  121.3, 5.7 |
| **HDLc**  **(mg/dL)** | **M**  **F** | 53.3, 1.0  68.9, 1.0 | 42.7, 3.6  59.4, 1.9 | 41.1, 1.4  46.6, 1.5 | 37.3, 3.6  41.3, 3.5 | 34.7, 2.2  45.5, 2.2 |
| **Triglyceride (mg/dL)** | **M**  **F** | 105.9, 4.3  95.0, 4.1 | 137.8, 15.2  103.1, 8.1 | 111.8, 6.1  100.5, 6.2 | 141.3, 15.1  152.0, 14.7 | 145.4, 9.4  107.7, 9.4 |

**Table S2. Pooled study subject characteristics grouped by sex and adropin quartile.** With the exception of age, Data shown are estimated marginal means ± standard error. Height and BMI are adjusted to control for age and ethnicity; BP is adjusted for age, BMI and ethnicity; body weight is adjusted to control for age and ethnicity, and to be proportional to height.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Demographic, laboratory measurement** | **Sex**  **M, n=348 F, n=400** | **Group averages by sex.** | **Group averages by sex, adropin quartile (M, n=87; F, n=100)** | | | |
| **1st** | **2nd** | **3rd** | **4th** |
| **Age (y)** | **M**  **F** | 38.3 ± 0.9  44.2 ± 0.8 | 40.8 ± 1.7  43.2 ± 1.6 | 37.9.0 ± 1.7  43.7 ± 1.7 | 38.0 ± 1.7  46.7 ± 1.5 | 36.7 ± 1.7  43.4 ± 1.6 |
| ***Statistics*** | Sex, *p*<0.000 | |  | | | |
| **Height (cm)** | **M**  **F** | 177.5 ± 0.4  164.4 ± 0.3 | 177.9 ± 0.7  164.7 ± 0.7 | 177.4 ± 0.7  165.4 ± 0.7 | 177.9 ± 0.7  164.1 ± 0.7 | 176.7 ± 0.7  163.4 ± 0.7 |
| ***Statistics*** | Sex, *p*<0.000 | |  | | | |
| **Weight (kg)** | **M**  **F** | 74.3 ± 0.8  75.0 ± 0.7 | 73.6 ± 1.4  75.3 ± 1.2 | 75.4 ± 1.4  75.4 ± 1.2 | 74.4 ± 1.4  75.5 ± 1.3 | 73.9 ± 1.3  73.8 ± 1.3 |
| **BMI**  **(kg/m2)** | **M**  **F** | 25.9 ± 0.2  25.3 ± 0.2 | 25.7 ± 0.4  25.4 ± 0.4 | 26.2 ± 0.4  25.6 ± 0.4 | 25.9 ± 0.4  25.6 ± 0.4 | 25.7 ± 0.4  24.7 ± 0.4 |
| **Blood pressure**  **BPsys / BPdias (mmHg)** | **M**  **F** | 123.8 ± 0.6  76.2 ± 0.4  (345)  115.6 ± 0.5  71.9 ± 0.4  (396) | 123.4 ± 1.2  77.9 ± 1.0  (86)  113.9 ± 1.1  71.2 ± 0.9  (98) | 124.4 ± 1.2  75.5 ± 1.0  (86)  115.3 ± 1.1  71.1 ± 0.9  (100) | 122.4 ± 1.2  75.4 ± 1.0  (86)  116.4 ± 1.1  72.2 ± 0.2  (98) | 125.1 ± 1.2  76.2 ± 1.0  (87)  117.0 ± 1.1  72.9 ± 0.9  (100) |
| ***Statistics*** | Sex, *p*<0.000 (Sys. & Dias.) | |  | | | |