### Supplementary Material 1. Baseline characteristics of men without MetS according to tertiles of total testosterone level in the 3C cohort study.

| Characteristics                      | T1 (<14.95) (n=112) | T2 (14.95-19.99) (n=114) | T3 (≥20.00) (n=112) | p-trend |
|--------------------------------------|----------------------|--------------------------|---------------------|---------|
| **Sociodemographic**                 |                      |                          |                     |         |
| Age (years)                          | 73.7 (5.3)           | 73.4 (5.2)               | 73.6 (4.8)          | 0.969   |
| Center                               |                      |                          |                     | 0.847   |
| Bordeaux                             | 24 (21.4)            | 23 (20.2)                | 22 (19.6)           |         |
| Dijon                                | 57 (50.9)            | 58 (50.9)                | 59 (52.7)           |         |
| Montpellier                          | 31 (27.7)            | 33 (28.9)                | 31 (27.7)           |         |
| **Education level**                  |                      |                          |                     | 0.417   |
| No education or primary school       | 30 (26.8)            | 24 (21.0)                | 32 (28.6)           |         |
| Secondary school                     | 30 (26.8)            | 28 (24.6)                | 36 (32.1)           |         |
| High-school or university degree     | 52 (46.4)            | 62 (54.4)                | 44 (39.3)           |         |
| **Cardiovascular risk factors**      |                      |                          |                     |         |
| BMI (kg/m²)^a                         | 25.7 (3.1)           | 25.7 (2.6)               | 25.0 (3.0)          | 0.108   |
| **Smoking**                          |                      |                          |                     | 0.309   |
| Never                                | 33 (29.4)            | 39 (34.2)                | 32 (28.6)           |         |
| Past                                 | 72 (64.3)            | 67 (58.8)                | 65 (58.0)           |         |
| Current                              | 7 (6.3)              | 8 (7.0)                  | 15 (13.4)           |         |
| **Daily alcohol consumption**        |                      |                          |                     | 0.416   |
| Never                                | 105 (93.7)           | 105 (92.1)               | 103 (92.0)          |         |
| Past                                 | 4 (3.6)              | 6 (5.3)                  | 3 (2.7)             |         |
| Current                              | 3 (2.7)              | 3 (2.6)                  | 6 (5.3)             |         |
| **Hypertension**                     | 75 (67.0)            | 86 (75.4)                | 87 (77.7)           | 0.070   |
| **Hypercholesterolemia**             | 43 (38.4)            | 48 (42.1)                | 47 (42.0)           | 0.587   |
| **Diabetes**                         | 9 (8.0)              | 8 (7.0)                  | 2 (1.8)             | 0.043   |
| **Personal history**                 |                      |                          |                     |         |
| Coronary heart disease               | 9 (8.0)              | 17 (14.9)                | 16 (14.3)           | 0.157   |
| Stroke b                             | 4 (3.6)              | 4 (3.5)                  | 2 (1.8)             | 0.424   |
| **Biologicals parameters**           |                      |                          |                     |         |
| Total cholesterol (mmol/L)           | 5.5 (0.8)            | 5.7 (0.8)                | 5.5 (0.9)           | 0.965   |
| LDL-C (mmol/L)^c                     | 3.6 (0.8)            | 3.7 (0.7)                | 3.5 (0.8)           | 0.425   |
| HDL-C (mmol/L)                       | 1.5 (0.3)            | 1.5 (0.3)                | 1.6 (0.3)           | 0.008   |
| Triglycerides (mmol/L)               | 1.1 (0.8-1.4)        | 1.1 (0.9-1.4)            | 1.0 (0.8-1.3)       | 0.114   |
| Glucose (g/L)                        | 5.0 (4.6-5.3)        | 4.9 (4.7-5.2)            | 4.8 (4.5-5.1)       | 0.006   |

Data are expressed as n (%) or means (SD) except for triglycerides and glucose expressed as median (IQR).
SD= standard deviation; IQR = interquartile range; T= tertile of total testosterone level (in nmol/L); n = Numbers; BMI = body mass index; LDL-C = low-density lipoprotein cholesterol; HDL-C = high-density lipoprotein cholesterol.
p-trend based on Cochran-Armitage Test or analysis of variance.
Missing data: ^a n = 1, ^b n = 6, ^c n = 2.