Supplementary Table 1 - Comparison participants without metabolic syndrome and with metabolic syndrome on study characteristics

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| --- | --- | --- | --- |
|  | No Metabolic syndrome  N= 2030 (47.1%) | Metabolic syndrome  N=2277 (52.9%) | P  value |
| Age (years) | 64 (56-72) | 67 (59.5-74.5) | **<0.001** |
| Sex - Female | 1230 (60.6) | 1248 (54.8) | **<0.001** |
| Race - Caucasian | 1799 (97.1) | 2023 (97.7) | 0.204 |
| BMI (kg/m2)¤ | 25.7 ± 3.6 | 29.2 ± 4.5 | **<0.001** |
| Weight N/O/Ob∞ | 45.2/44.8/10.0 | 15.2/48.4/36.4 | **<0.001** |
| Education L/I/H± | 43.0/30.2/26/1 | 51.2/28.9/19.6 | **<0.001** |
| Smoking N/C/Pº | 36.2/40.5/23.3 | 31.9/43.0/25.1 | **0.016** |
| Alcohol (units/day) | 0.79 (0.1-1.6) | 0.60 (0.1-1.5) | **0.003** |
| Activity (MET h/week)¥ | 44.4 (12.3-76.5) | 32.0 (5.6-58.4) | **<0.001** |
| Energy intake | 2253.5 ± 825.4 | 2125.8 ± 844.5 | **<0.001** |
| Cholecystectomy |  |  |  |
| Cholecystectomy | 4.3 | 7.8 | **<0.001** |
| Metabolic syndrome and Liver imaging |  |  |  |
| Diabetes Mellitus | 2.0 | 22.2 | **<0.001** |
| Hypertension | 51.5 | 86.0 | **<0.001** |
| Waist circumference ♀>88 cm or♂>120 cm | 21.1 | 64.9 | **<0.001** |
| Fasting plasma glucose >100 mg/dl | 21.9 | 70.8 | **<0.001** |
| Triglycerides >150 mg/dl | 9.4 | 79.7 | **<0.001** |
| HDL-C ♀<50 mg/dl or ♂<40 mg/dl | 8.7 | 78.1 | **<0.001** |
| Blood pressure⩾130/85 mmHg | 63.9 | 95.0 | **<0.001** |
| Steatosis | 19.7 | 49.4 | **<0.001** |
| NAFLD | 19.1 | 48.6 | **<0.001** |

Data is presented as mean (± SD), median (IQR) or percentage.  
¤BMI Body Mass Index ∞N/O/Ob Normal/Overweight/Obese ±L/I/H Low/Intermediate/High   
ºN/C/P Never/Current/Past ¥Metabolic Equivalent of Task