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Version: Supplemental Material

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## Fat-Free Mass and Total Daily Energy Expenditure Estimated using Doubly Labelled Water Predict Energy Intake in a Large Sample of Community-Dwelling Older Adults

#### **M Hopkins**

**Online Supplementary Materials** 

|                                 | Age Quintile 1 | Age Quintile 2  | Age Quintile 3 | Age Quintile 4         | Age Quintile 5    |
|---------------------------------|----------------|-----------------|----------------|------------------------|-------------------|
| N =                             | 118            | 118             | 118            | 118                    | 118               |
| %Male (n =)                     | 34 (40)        | 41 (48)         | 59 (70)        | 59 (70)                | 62 (73)           |
| % UR (n =)                      | 40.7 (48)      | 38.9 (46)       | 34.7 (41)      | 34.7 (41)              | 24.6 (29)         |
|                                 | Mean (SD)      | Mean (SD)       | Mean (SD)      | Mean (SD)              |                   |
| Age (years)                     | 54.7 ± 1.99    | 59.6 ± 1.13     | $63.2\pm0.92$  | 66.7 ± 1.28            | $71.3 \pm 1.69$   |
| Height (m)                      | $1.69\pm0.09$  | $1.69 \pm 1.00$ | $1.71\pm0.89$  | $1.72 \pm 0.10$        | $1.70\pm0.09$     |
| Body mass (kg)                  | 83.2 ± 19.1    | $78.2 \pm 15.8$ | 82.8 ± 16.0    | $85.0\pm78.8^{\rm a}$  | $78.2 \pm 14.1$   |
| BMI (kg/m <sup>2</sup> )        | $29.0 \pm 5.4$ | $27.4\pm4.8$    | $28.2 \pm 4.2$ | $28.6 \pm 5.6$         | $27.3\pm4.0$      |
| Physical Activity (CPM/D)       | $729 \pm 276$  | 742 ± 252       | $675 \pm 226$  | 622 ± 223 <sup>b</sup> | $646 \pm 243^{c}$ |
| TDEE (kcal/day)                 | $2524\pm557$   | $2410\pm539$    | $2532 \pm 517$ | $2506\pm504$           | $2409 \pm 474$    |
| EI <sub>single</sub> (kcal/day) | $2165 \pm 910$ | $2087 \pm 724$  | 2137 ± 791     | $2229 \pm 852$         | $2154\pm922$      |
| EI <sub>mean</sub> (kcal/day)   | $2180\pm 690$  | $2084 \pm 592$  | $2188 \pm 583$ | $2227\pm709$           | $2140\pm544$      |

**Supplementary Table 1**: Participant characteristics by age quartiles (mean  $\pm$  SD).

UR; under-reporter. N; number of participants, BMI; body mass index, TDEE; total daily energy expenditure, CPM/D; counts per minute per day, EI<sub>single</sub>; total daily energy intake estimated from a single 24-hour dietary recall, EI<sub>mean</sub>, total daily energy intake estimated from up to six 24-hour dietary recalls. Under-reporters classified using the 95% confidence limits of agreement between self-reported EI and TDEE derived from DLW.

Differences between quintiles examined using one-way ANOVA with Tukey post-hoc tests (adjusted for multiple post-hoc comparisons).

<sup>a</sup>Significantly greater than quintiles 2 (p = 0.020) and 5 (p = 0.042). <sup>b</sup>Significantly greater than quintiles 1 (p = 0.001) and 2 (p = 0.001). <sup>c</sup>Significantly greater than quintile 2 (p = 0.024).