Supplementary Table 2. The female and male coefficient of variances (CoV), and associated lower and upper 95% confidence interval bounds, disaggregated into age categories for total energy expenditure (TEE), height, body weight, fat free mass, fat mass and basal energy expenditure (BEE), for non-USA participants. Sample sizes per trait, sex, and age category are also presented. These data are visualised in supplementary Fig. 1.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Age (y)** | **Female CoV** | **Female CoV lower bound** | **Female CoV upper bound** | **Female n** | **Male CoV** | **Male CoV lower bound** | **Male CoV upper bound** | **Male n** |
| **TEE (MJ d-1)** | 0-4 | 0.02 | 0.01 | 0.02 | 203 | 0.02 | 0.02 | 0.03 | 154 |
|  | 5-10 | 0.06 | 0.05 | 0.08 | 160 | 0.04 | 0.03 | 0.05 | 155 |
|  | 11-14 | 0.34 | 0.26 | 0.48 | 91 | 0.24 | 0.18 | 0.32 | 102 |
|  | 15-19 | 0.30 | 0.20 | 0.45 | 57 | 0.46 | 0.33 | 0.66 | 75 |
|  | 20-32 | 0.14 | 0.12 | 0.17 | 380 | 0.63 | 0.54 | 0.78 | 264 |
|  | 33-48 | 0.18 | 0.14 | 0.20 | 325 | 0.36 | 0.29 | 0.41 | 273 |
|  | 49-69 | 0.11 | 0.08 | 0.13 | 135 | 0.64 | 0.52 | 0.82 | 177 |
|  | 70-101 | 0.16 | 0.12 | 0.21 | 110 | 0.31 | 0.23 | 0.40 | 121 |
| **Height (cm)** | 0-4 | 1.46 | 1.17 | 1.83 | 203 | 1.33 | 1.05 | 1.66 | 154 |
|  | 5-10 | 0.93 | 0.73 | 1.16 | 160 | 0.76 | 0.64 | 1.00 | 155 |
|  | 11-14 | 0.70 | 0.49 | 0.91 | 92 | 0.59 | 0.45 | 0.84 | 102 |
|  | 15-19 | 0.19 | 0.13 | 0.27 | 57 | 0.34 | 0.24 | 0.45 | 76 |
|  | 20-32 | 0.26 | 0.22 | 0.30 | 381 | 0.29 | 0.26 | 0.36 | 265 |
|  | 33-48 | 0.21 | 0.18 | 0.25 | 326 | 0.23 | 0.21 | 0.29 | 273 |
|  | 49-69 | 0.22 | 0.17 | 0.28 | 135 | 0.23 | 0.19 | 0.29 | 177 |
|  | 70-101 | 0.23 | 0.19 | 0.33 | 110 | 0.18 | 0.14 | 0.22 | 121 |
| **FFM (kg)** | 0-4 | 0.17 | 0.12 | 0.23 | 203 | 0.19 | 0.15 | 0.29 | 154 |
|  | 5-10 | 1.54 | 1.16 | 1.97 | 160 | 1.41 | 1.16 | 1.98 | 155 |
|  | 11-14 | 1.27 | 1.03 | 1.87 | 92 | 1.08 | 0.85 | 1.51 | 102 |
|  | 15-19 | 0.54 | 0.40 | 0.86 | 57 | 1.35 | 0.91 | 1.79 | 76 |
|  | 20-32 | 0.96 | 0.84 | 1.13 | 381 | 1.22 | 1.03 | 1.46 | 265 |
|  | 33-48 | 1.04 | 0.86 | 1.18 | 326 | 1.22 | 1.03 | 1.46 | 273 |
|  | 49-69 | 0.54 | 0.43 | 0.69 | 135 | 0.77 | 0.64 | 0.97 | 177 |
|  | 70-101 | 0.83 | 0.64 | 1.09 | 110 | 0.59 | 0.44 | 0.74 | 121 |
| **FM (kg)** | 0-4 | 1.55 | 1.26 | 1.89 | 203 | 1.64 | 1.20 | 1.91 | 154 |
|  | 5-10 | 2.29 | 1.82 | 3.00 | 160 | 3.58 | 2.75 | 4.57 | 155 |
|  | 11-14 | 2.79 | 2.11 | 3.94 | 92 | 2.77 | 2.05 | 3.74 | 102 |
|  | 15-19 | 1.59 | 1.10 | 2.32 | 57 | 2.83 | 2.02 | 4.03 | 76 |
|  | 20-32 | 2.14 | 1.88 | 2.54 | 381 | 2.81 | 2.30 | 3.44 | 265 |
|  | 33-48 | 2.02 | 1.79 | 2.54 | 326 | 2.94 | 2.45 | 3.61 | 273 |
|  | 49-69 | 1.02 | 0.81 | 1.34 | 135 | 1.35 | 1.13 | 1.78 | 177 |
|  | 70-101 | 1.55 | 1.04 | 1.87 | 110 | 1.45 | 1.05 | 1.81 | 121 |
| **AEE (MJ d-1)** | 0-10 | 0.13 | 0.09 | 0.19 | 82 | 0.18 | 0.14 | 0.29 | 65 |
|  | 11-21 | 0.49 | 0.35 | 0.72 | 93 | 0.45 | 0.33 | 0.66 | 103 |
|  | 22-32 | 0.38 | 0.28 | 0.48 | 250 | 0.98 | 0.68 | 1.43 | 148 |
|  | 33-48 | 0.39 | 0.31 | 0.54 | 264 | 1.05 | 0.81 | 1.50 | 222 |
|  | 49-69 | 0.30 | 0.21 | 0.43 | 101 | 0.90 | 0.64 | 1.44 | 117 |
|  | 70-96 | 0.58 | 0.36 | 0.96 | 45 | 1.19 | 0.75 | 2.41 | 66 |
| **BEE (**MJ d-1) | 0-10 | 0.06 | 0.04 | 0.08 | 91 | 0.07 | 0.05 | 0.11 | 71 |
|  | 11-21 | 0.08 | 0.07 | 0.13 | 97 | 0.06 | 0.05 | 0.09 | 104 |
|  | 22-32 | 0.05 | 0.05 | 0.07 | 262 | 0.11 | 0.10 | 0.15 | 151 |
|  | 33-48 | 0.06 | 0.05 | 0.07 | 266 | 0.10 | 0.08 | 0.12 | 225 |
|  | 49-69 | 0.04 | 0.03 | 0.05 | 101 | 0.05 | 0.04 | 0.06 | 118 |
|  | 70-96 | 0.06 | 0.05 | 0.10 | 51 | 0.11 | 0.08 | 0.16 | 67 |

TEE = (adjusted) Total energy expenditure (MJ d-1); FFM = Fat free mass (kg); FM = Fat mass (kg); BEE= (adjusted) Basal energy expenditure (MJ d-1).