Supplementary Table 1. 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). Also presented is an interpretation, based on those confidence intervals, of the presence of greater make variance (GMV), or greater female variance (GFV), or neither (0). Sample sizes per trait, sex, and age category are also presented. These data are visualised in 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 | 336 | 0.03 | 0.02 | 0.03 | 289 |
|  | 5-10 | 0.06 | 0.05 | 0.07 | 354 | 0.05 | 0.05 | 0.07 | 253 |
|  | 11-14 | 0.26 | 0.22 | 0.31 | 274 | 0.23 | 0.19 | 0.31 | 150 |
|  | 15-19 | 0.21 | 0.19 | 0.26 | 314 | 0.37 | 0.29 | 0.46 | 162 |
|  | 20-32 | 0.21 | 0.20 | 0.24 | 897 | 0.61 | 0.52 | 0.69 | 451 |
|  | 33-48 | 0.16 | 0.15 | 0.18 | 963 | 0.43 | 0.36 | 0.48 | 548 |
|  | 49-69 | 0.15 | 0.14 | 0.17 | 869 | 0.43 | 0.37 | 0.50 | 420 |
|  | 70-101 | 0.13 | 0.12 | 0.15 | 985 | 0.28 | 0.25 | 0.34 | 353 |
| **Height (cm)** | 0-4 | 3.15 | 2.70 | 3.71 | 336 | 3.35 | 2.88 | 4.02 | 289 |
|  | 5-10 | 1.42 | 1.22 | 1.62 | 354 | 1.14 | 0.95 | 1.34 | 254 |
|  | 11-14 | 0.66 | 0.55 | 0.76 | 279 | 1.22 | 0.95 | 1.52 | 150 |
|  | 15-19 | 0.26 | 0.24 | 0.33 | 317 | 0.31 | 0.25 | 0.40 | 163 |
|  | 20-32 | 0.26 | 0.24 | 0.29 | 899 | 0.30 | 0.25 | 0.33 | 454 |
|  | 33-48 | 0.25 | 0.23 | 0.27 | 965 | 0.25 | 0.22 | 0.28 | 548 |
|  | 49-69 | 0.26 | 0.23 | 0.28 | 870 | 0.29 | 0.24 | 0.32 | 420 |
|  | 70-101 | 0.26 | 0.24 | 0.28 | 986 | 0.25 | 0.21 | 0.28 | 353 |
| **FFM (kg)** | 0-4 | 1.59 | 1.03 | 2.38 | 336 | 1.72 | 1.16 | 2.63 | 289 |
|  | 5-10 | 1.61 | 1.31 | 1.88 | 354 | 1.63 | 1.41 | 2.15 | 254 |
|  | 11-14 | 1.65 | 1.40 | 2.00 | 279 | 2.93 | 2.31 | 3.74 | 150 |
|  | 15-19 | 1.25 | 1.09 | 1.51 | 317 | 1.37 | 1.10 | 1.73 | 163 |
|  | 20-32 | 1.61 | 1.46 | 1.79 | 899 | 1.26 | 1.11 | 1.45 | 454 |
|  | 33-48 | 1.55 | 1.38 | 1.68 | 965 | 1.27 | 1.14 | 1.46 | 548 |
|  | 49-69 | 0.97 | 0.89 | 1.09 | 870 | 1.10 | 0.95 | 1.26 | 420 |
|  | 70-101 | 0.83 | 0.74 | 0.90 | 986 | 0.86 | 0.73 | 0.98 | 353 |
| **FM (kg)** | 0-4 | 2.10 | 1.85 | 2.58 | 336 | 2.69 | 2.10 | 3.07 | 289 |
|  | 5-10 | 2.40 | 2.00 | 2.79 | 354 | 4.05 | 3.34 | 4.93 | 254 |
|  | 11-14 | 2.80 | 2.34 | 3.41 | 279 | 4.33 | 3.22 | 5.38 | 150 |
|  | 15-19 | 2.30 | 1.88 | 2.61 | 317 | 3.89 | 2.99 | 4.96 | 163 |
|  | 20-32 | 2.55 | 2.32 | 2.90 | 899 | 3.85 | 3.44 | 4.72 | 454 |
|  | 33-48 | 1.83 | 1.63 | 1.99 | 965 | 2.57 | 2.15 | 2.89 | 548 |
|  | 49-69 | 1.31 | 1.18 | 1.47 | 870 | 1.32 | 1.14 | 1.54 | 420 |
|  | 70-101 | 1.28 | 1.16 | 1.42 | 986 | 1.40 | 1.18 | 1.62 | 353 |
| **AEE (MJ d-1)** | 0-10 | 0.11 | 0.09 | 0.15 | 195 | 0.22 | 0.15 | 0.32 | 65 |
|  | 11-21 | 0.35 | 0.28 | 0.45 | 266 | 0.46 | 0.34 | 0.67 | 103 |
|  | 22-32 | 0.37 | 0.29 | 0.47 | 306 | 0.86 | 0.69 | 1.35 | 148 |
|  | 33-48 | 0.45 | 0.34 | 0.56 | 353 | 1.08 | 0.81 | 1.45 | 222 |
|  | 49-69 | 0.27 | 0.20 | 0.38 | 128 | 0.93 | 0.66 | 1.32 | 121 |
|  | 70-96 | 0.46 | 0.35 | 0.59 | 258 | 0.83 | 0.65 | 1.21 | 260 |
| **BEE (MJ d-1)** | 0-10 | 0.05 | 0.04 | 0.06 | 204 | 0.06 | 0.05 | 0.09 | 71 |
|  | 11-21 | 0.12 | 0.10 | 0.15 | 270 | 0.07 | 0.06 | 0.10 | 104 |
|  | 22-32 | 0.05 | 0.05 | 0.06 | 318 | 0.12 | 0.10 | 0.15 | 151 |
|  | 33-48 | 0.06 | 0.05 | 0.07 | 355 | 0.10 | 0.08 | 0.12 | 225 |
|  | 49-69 | 0.05 | 0.04 | 0.06 | 128 | 0.05 | 0.04 | 0.07 | 122 |
|  | 70-96 | 0.07 | 0.06 | 0.08 | 267 | 0.12 | 0.11 | 0.15 | 261 |

TEE = (adjusted) Total energy expenditure; FFM = Fat free mass; FM = Fat mass; BEE= (adjusted) Basal energy expenditure.