

|        | BMI    | Height | Weight | Hip   | Waist |
|--------|--------|--------|--------|-------|-------|
| BMI    | 0.667  | -0.110 | 0.580  | 0.521 | 0.515 |
| Height | -0.110 | 0.752  | 0.222  | 0.094 | 0.041 |
| Weight | 0.580  | 0.222  | 0.652  | 0.527 | 0.508 |
| Hip    | 0.521  | 0.094  | 0.527  | 0.674 | 0.491 |
| Waist  | 0.515  | 0.041  | 0.508  | 0.491 | 0.678 |

Table S4: Covariance matrix of anthropometric traits from GCAT.

|        | BMI    | Height | Weight | Hip   | Waist |
|--------|--------|--------|--------|-------|-------|
| BMI    | 0.747  | -0.154 | 0.633  | 0.563 | 0.591 |
| Height | -0.154 | 0.882  | 0.242  | 0.118 | 0.012 |
| Weight | 0.633  | 0.242  | 0.710  | 0.587 | 0.567 |
| Hip    | 0.563  | 0.118  | 0.587  | 0.726 | 0.519 |
| Waist  | 0.591  | 0.012  | 0.567  | 0.519 | 0.737 |

Table S5: Covariance matrix of anthropometric traits from UK Biobank.