# Supplementary materials

| | No correction | Correction with measurement error |
|---|---|---|
| HDL~LDL | 0.011 | 0.052 |
| HDL~TC | 0.142 | 0.015 |
| HDL~log(TG) | 0.335 | 0.012 |
| LDL~HDL | 0.053 | 0.208 |
| LDL~TC | 0.571 | 0.006 |
| LDL~log(TG) | 0.209 | 0.170 |
| TC~HDL | 0.206 | 0.197 |
| TC~LDL | 0.606 | 0.049 |
| TC~log(TG) | 0.226 | 0.154 |
| TG~HDL | 0.296 | 0.031 |
| TG~LDL | 0.225 | 0.086 |
| TG~TC | 0.244 | 0.016 |
| Height~BMI | 0.030 | 0.019 |

Supplementary Table 1. Linear regression coefficients for pairs of continuous traits.

| | No correction | Correction with measurement error |
|---|---|---|
| CAD~HDL | 0.146 | 0.132 |
| CAD~LDL | 0.232 | 0.085 |
| CAD~TC | 0.193 | 0.089 |
| CAD~log(TG) | 0.181 | 0.074 |
| AF~HDL | 0.006 | 0.085 |
| AF~LDL | 0.074 | 0.006 |
| AF~TC | 0.101 | 0.026 |
| AF~log(TG) | 0.126 | 0.012 |
| DIA~HDL | 0.502 | 0.135 |
| DIA~LDL | 0.092 | 0.020 |
| DIA~TC | 0.137 | 0.114 |
| DIA~log(TG) | 0.446 | 0.116 |

Supplementary Table 2. Logistic regression coefficients for binary outcomes.