S12 Table. Correlation of GWAS $-\log _{10}(p)$ between the main GWAS run including relatives and the one including unrelated individuals only. For each phenotype, we present the number of individuals included in the main GWAS $\left(\mathrm{n}_{\text {ind }}\right)$, the number of unrelated individuals ( $\mathrm{n}_{\text {unrelated }}$ ), and Pearson's correlation coefficient across overlapping SNPs ( $r$ ). For fertility phenotypes, we present results both for all-sample set and for the continuously married subset.

| Phenotype | All-sample set |  |  | Continuously married |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. Physiological phenotypes | $\mathrm{n}_{\text {ind }}$ | $\mathrm{n}_{\text {unrelated }}$ | $r$ | $\mathrm{n}_{\text {ind }}$ | $\mathrm{n}_{\text {unrelated }}$ | $r$ |
| Hb | 921 | 339 | 0.210 |  |  |  |
| $\mathrm{SaO}_{2}$ | 921 | 339 | 0.343 |  |  |  |
| Pulse | 920 | 339 | 0.328 |  |  |  |
| oxyHb | 921 | 339 | 0.213 |  |  |  |
| deoxyHb | 921 | 339 | 0.367 |  |  |  |
| 2. Fertility count phenotypes |  |  |  |  |  |  |
| \# of pregnancies | 981 | 344 | 0.345 | 585 | 272 | 0.425 |
| \# of live births | 981 | 344 | 0.345 | 585 | 272 | 0.429 |
| \# of children born alive but died $<1 \mathrm{yr}$ | 923 | 331 | 0.363 | 555 | 262 | 0.409 |
| \# of children surviving at 1 yr but died $<5 \mathrm{yr}$ | 849 | 306 | 0.293 | 513 | 241 | 0.342 |
| \# of children surviving at 5 yr but died $<15 \mathrm{yr}$ | 531 | 190 | 0.349 | 319 | 150 | 0.434 |
| \# of children born alive but died < 5 yr | 849 | 306 | 0.358 | 513 | 241 | 0.407 |
| \# of children born alive but died $<15 \mathrm{yr}$ | 532 | 190 | 0.312 | 320 | 150 | 0.378 |
| \# of children surviving at 1 yr | 923 | 331 | 0.368 | 555 | 262 | 0.472 |
| \# of children surviving at 5 yr | 849 | 306 | 0.363 | 513 | 241 | 0.459 |
| \# of children surviving at 15 yr | 531 | 190 | 0.377 | 319 | 150 | 0.459 |
| \# of stillbirths | 981 | 344 | 0.336 | 585 | 272 | 0.439 |
| \# of miscarriages | 981 | 344 | 0.355 | 585 | 272 | 0.441 |
| \# of twin births | 981 | 344 | 0.301 | 585 | 272 | 0.431 |
| A woman's age at her first childbirth | 972 | 344 | 0.260 | 581 | 272 | 0.445 |
| A woman's age at her last pregnancy | 958 | 344 | 0.330 | 575 | 272 | 0.445 |
| 3. Fertility proportion phenotypes |  |  |  |  |  |  |
| Proportion of live births among pregnancies | 981 | 344 | 0.348 | 585 | 272 | 0.440 |
| Proportion of stillbirths among pregnancies | 981 | 344 | 0.318 | 585 | 272 | 0.415 |
| Proportion of miscarriages among pregnancies | 981 | 344 | 0.300 | 585 | 272 | 0.409 |
| Proportion of children born alive but died $<1 \mathrm{yr}$ | 923 | 331 | 0.352 | 555 | 262 | 0.454 |
| Proportion of children born alive but died $<5 \mathrm{yr}$ | 849 | 306 | 0.346 | 513 | 241 | 0.451 |
| Proportion of children born alive but died $<15 \mathrm{yr}$ | 532 | 190 | 0.387 | 320 | 150 | 0.464 |
| Proportion of children surviving at 1 yr but died $<5 \mathrm{yr}$ | 849 | 306 | 0.329 | 513 | 241 | 0.449 |
| Proportion of children surviving at 5 yr but died $<15 \mathrm{yr}$ | 531 | 190 | 0.384 | 319 | 150 | 0.440 |

