Supplementary Table SI Semen characteristics of fertile men, and young men from the general population in Japan.

| | Fertile (n = 791) | Young (n = 1224) | Р |
|-----------------------------------|----------------------|---------------------|----------|
| Age (years) | 31.2 ± 4.8 | 20.8 ± 1.7 | <0.0001 |
| BMI (kg/m ²) | 23.3 ± 3.0 | 21.6 ± 2.5 | < 0.0001 |
| Ejaculation abstinence (hours) | 193.8 ± 324.7 | 78.5 <u>+</u> 39.1 | <0.0001 |
| Conc. $(\times 10^6/\text{ml})$ | 105.1 ± 83.2 | 76.3 ± 57.6 | < 0.0001 |
| Vol. (ml) | 3.1 <u>+</u> 1.5 | 2.9 ± 1.4 | 0.0005 |
| TSN (×10 ⁶) | 315.8 ± 293.7 | 207.5 ± 178.4 | < 0.0001 |
| TMSN (\times 10 ⁶) | 181.7 ± 165.0 | 122.7 ± 100.3 | < 0.0001 |
| Motility (%) | 59.8 ± 20.8 | 59.2 ± 15.1 | 0.525 |

Data are represented as mean \pm standard deviation. *P*-values were obtained with Student's unpaired t-test.

The sperm concentration, semen volume, total sperm number and total motile sperm number were processed using square-root-transformed values.

Conc., sperm concentration; Vol., semen volume; TSN, total sperm numbers;

TMSN, total motile sperm numbers.