Supplemental Material 1. Risk of low bone density in parous versus nulliparous women

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| Parity | Number of women | N (%) of LBD | |  | Unadjusted | | | |  | Adjusted\* | | | |
|  | Odds ratio (95% CI) | | | *p*-value |  | Odds ratio (95% CI) | | | *p*-value |
| Nulliparous | 40 | 21 | (52.5) |  | 0.81 | (0.43 – | 1.52) | 0.510 |  | 0.79 | (0.39 – | 1.59) | 0.502 |
| Parous | 1247 | 720 | (57.7) |  | 1.00 | ( Reference ) | |  |  | 1.00 | ( Reference ) | | |

\*Adjusted for age; body mass index; postmenopausal period; working status; education level; household income; marital status; smoking and drinking habits; physical activity; medical history including diabetes, hypertension, thyroid disease, chronic kidney disease; and antidepressant medication.

CI, confidence interval.

Supplemental Material 2. Associations between parity and low bone density according to age and age² controlled in the fully adjusted model

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| Parity | Number of women | N (%) of LBD | |  | Odds ratio (95% CI) | | | | | | |
|  | Age adjusted\* | | |  | Age² adjusted\*\* | | |
| 1 | 153 | 74 | (48.4) |  | 1.00 | ( Reference ) | | | 1.00 | ( Reference ) | |
| 2 | 873 | 492 | (56.4) |  | 1.40 | (0.97 – | 2.02) |  | 1.40 | (0.97 – | 2.02) |
| ≥3 | 221 | 154 | (69.7) |  | 1.95 | (1.23 – | 3.09) |  | 1.92 | (1.21 – | 3.04) |
| *p-*value |  |  |  |  | 0.005 | | |  | 0.005 | | |

\*Adjusted for age; body mass index; postmenopausal period; working status; education level; household income; marital status; smoking and drinking habits; physical activity; medical history including diabetes, hypertension, thyroid disease, chronic kidney disease; and antidepressant medication.

\*\*Adjusted for age2; body mass index; postmenopausal period; working status; education level; household income; marital status; smoking and drinking habits; physical activity; medical history including diabetes, hypertension, thyroid disease, chronic kidney disease; and antidepressant medication.

CI, confidence interval.

Supplemental Material 3. Association between parity and osteoporosis according to age and age² controlled in the fully adjusted model

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| Parity | Number of women | N (%) of women with osteoporosis | |  | Odds ratio (95% CI) | | | | | | |
|  | Age adjusted\* | | |  | Age² adjusted\*\* | | |
| 1 | 153 | 7 | (4.6) |  | 1.00 | (Reference) | | | 1.00 | (Reference) | |
| 2 | 873 | 95 | (10.9) |  | 2.46 | (1.10 – | 5.50) |  | 2.46 | (1.10 – | 5.50) |
| ≥3 | 221 | 38 | (17.2) |  | 3.08 | (1.30 – | 7.30) |  | 3.07 | (1.29 – | 7.29) |
| *p-*value |  |  |  |  | 0.016 | | |  | 0.016 | | |

\*Adjusted for age; body mass index; postmenopausal period; working status; education level; household income; marital status; smoking and drinking habits; physical activity; medical history including diabetes, hypertension, thyroid disease, chronic kidney disease; and antidepressant medication.

\*\*Adjusted for age; body mass index; postmenopausal period; working status; education level; household income; marital status; smoking and drinking habits; physical activity; medical history including diabetes, hypertension, thyroid disease, chronic kidney disease; and antidepressant medication.

CI, confidence interval.