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.