Table 1: Participant characteristics.

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| --- | --- | --- | --- | --- | --- | --- |
| **Characteristic** | **Hormone receptor–positive breast cancer (n=243)** | **Healthy (n=471)** | **p\*** | **Triple-negative breast cancer (n=244)** | **Healthy (n=471)** | **p\*** |
|  | |  | |
| **Continuous variables, reported as mean (SEM)** | | | | | | |
| Age, years | 44.96 (0.65) | 39.31 (0.55) | <0.001 | 42.74 (0.65) | 39.31 (0.55) | <0.001 |
| Age at menarche, years | 13.03 (0.02) | 12.66 (0.50) | <0.001 | 12.06 (0.07) | 12.66 (0.50) | 0.759 |
| Age at first marriage, years | 18.59 (0.22) | 17.14 (0.23) | <0.001 | 17.49 (0.19) | 17.14 (0.23) | <0.001 |
| Age at first birth, years | 20.07 (0.35) | 17.63 (0.32) | <0.001 | 19.25 (0.26) | 17.63 (0.32) | <0.001 |
| Parity | 2.67 (0.08) | 2.18 (0.06) | 0.593 | 2.50 (0.07) | 2.18 (0.06) | 0.014 |
| Number of abortions | 0.35 (0.04) | 0.25 (0.02) | <0.001 | 0.45 (0.03) | 0.25 (0.02) | <0.001 |
| Time between menarche and first birth, years | 7.58 (0.24) | 6.28 (0.18) | 0.123 | 7.41 (0.21) | 6.28 (0.18) | <0.001 |
| Time between first marriage and first birth, years | 2.27 (0.11) | 1.84 (0.07) | 0.157 | 2.08 (0.09) | 1.84 (0.07) | 0.356 |
| **Categorical variables, reported as n (%)** | | | | | | |
| Residence |  |  |  |  |  |  |
| Rural | 149 (20.9) | 101 (14.1) | <0.001 | 185 (25.9) | 101 (14.1) | <0.001 |
| Urban | 94 (13.2) | 370 (51.8) | 58 (8.3) | 370 (51.7) |
| Years of education |  |  |  |  |  |  |
| 0-5 | 192 (26.9) | 87 (12.2) | <0.001 | 194 (27.1) | 87 (12.2) | <0.001 |
| 6-12 | 38 (5.3) | 247 (34.6) | 39 (5.5) | 247 (34.5) |
| >12 | 13 (1.8) | 137 (19.2) | 11 (1.5) | 137 (19.2) |
| Body mass index, kg/m2 |  |  |  |  |  |  |
| Underweight (<18.5) | 16 (2.2) | 15 (2.1) | <0.001 | 12 (1.7) | 15 (2.1) | <0.001 |
| Normal (18.5-24.9) | 93 (13.0) | 142 (19.9) | 103 (14.4) | 142 (19.9) |
| Pre-obese (25-29.9) | 91 (12.7) | 258 (36.1) | 93 (13.0) | 258 (36.1) |
| Obese (≥30) | 43 (6.0) | 56 (7.8) | 36 (5.0) | 56 (7.8) |
| Menstrual status |  |  |  |  |  |  |
| Premenopausal | 101 (14.1) | 311 (43.6) | <0.001 | 131 (18.3) | 311 (43.5) | 0.001 |
| Postmenopausal | 142 (19.9) | 160 (22.4) | 113 (15.8) | 160 (22.4) |
| Menstrual regularity |  |  |  |  |  |  |
| Regular | 162 (22.7) | 389 (54.6) | <0.001 | 170 (23.8) | 389 (54.5) | <0.001 |
| Irregular | 80 (11.2) | 82 (11.5) | 73 (10.2) | 82 (11.5) |
| Mode of delivery |  |  |  |  |  |  |
| Vaginal | 157 (28.0) | 240 (42.8) | <0.001 | 183 (30.8) | 240 (40.4) | <0.001 |
| Caesarian | 24 (4.3) | 140 (25.0) | 31 (5.2) | 140 (23.6) |
| History of breastfeeding for >6 months |  |  |  |  |  |  |
| No | 12 (1.8) | 36 (5.4) | <0.001 | 5 (0.7) | 36 (5.4) | <0.001 |
| Yes | 231 (34.5) | 390 (58.3) | 239 (35.7) | 390 (58.2) |
| Contraceptive use |  |  |  |  |  |  |
| Nonhormonal contraceptives | 8 (2.0) | 66 (16.7) | <0.001 | 3 (0.8) | 66 (16.8) | <0.001 |
| Hormonal contraceptives | 117 (29.5) | 205 (51.8) | 118 (30.1) | 205 (52.3) |

\*P values calculated with one-way ANOVA for continuous variables and χ2 test for categorical variables.

Table 2: Association of reproductive factors with types of breast cancer.

|  |  |  |
| --- | --- | --- |
| **Variables** | **Hormone receptor positive breast cancer** | **Triple negative breast cancer** |
| **OR (CI 95%)** | **OR (CI 95%)** |
| Age | 1.06 (1.02-1.10)\*\* | 1.02 (0.98-1.06) |
| Age of menarche (years) | 1.71 (1.19-2.44)\* | 0.70 (0.52-0.95)\* |
| Abortion | 1.30 (0.76-2.23) | 2.27 (01.30-3.98)\* |
| Parity | 0.96 (0.67-1.37) | 0.91 (0.60-1.37) |
| Time between first marriage and first birth (in full years) | 1.40 (1.10-1.78)\* | 1.15 (0.88-1.49) |
| **Residence** |  |  |
| Urban | Ref | Ref |
| Rural | 4.81 (2.55-9.03)\*\* | 16.77 (8.3-33.87)\*\* |
| **Body mass index (BMI)** |  |  |
| Normal (18.5- 24.9) | Ref | Ref |
| Underweight (<18.5) | 2.19 (0.43-11.18) | 1.06 (0.16-6.64) |
| Pre-Obesity (25-29.9) | 0.36 (0.18-0.72)\* | 0.65 (0.41-1.34) |
| Obese (≥30) | 0.78 (0.26-2.28) | 1.22 (0.36-4.07) |
| **Menstrual regularity** |  |  |
| Regular | Ref | Ref |
| Irregular | 2.83 (1.31-6.10)\* | 4.30 (1.87-9.42)\*\* |
| **Pattern of contraceptive use** |  |  |
| Non-hormonal contraceptives | Ref | Ref |
| Hormonal contraceptives | 5.68 (1.52-21.25)\* | 8.54 (1.81-40.14)\* |

\*p <0.05; \*\*p <0.001

Multivariate binary logistic regression with reference to healthy population.