**Additional file2; Table S2.** **Correlation between smoking status and clinicopathological features**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Parameters | **Smoking status** | ***p* value** | **Smoking status** | ***p* value** |
| **Not current smokers****(*n* = 120)** | **Current smokers****(*n* = 8)** | **Former smokers****(*n* = 13)** | **Current smokers****(*n* = 8)** |
| Age at operation (years old) ≤ 40 > 40 | 12 (10.0 %)108 (90.0 %) | 5 (62.5 %)3 (37.5 %) | <0.001 | 4 (30.8 %)9 (69.2 %) | 5 (62.5 %)3 (37.5 %) | 0.154 |
| Symptoms Asymptomatic Symptomatic | 45 (37.5 %)75 (62.5 %) | 0 (0.0 %)8 (100.0 %) | 0.031 | 4 (30.8 %)9 (69.2 %) | 0 (0.0 %)8 (100.0 %) | 0.081 |
| Palpability Impalpabe Palpable | 35 (29.2 %)85 (70.8 %) | 0 (0.0 %)8 (100.0 %) | 0.073 | 3 (23.1 %)10 (76.9 %) | 0 (0.0 %)8 (100.0 %) | 0.142 |
| Tumor size (mm) ≤ 20.0 > 20.0 | 35 (29.2 %)85 (70.8 %) | 3 (37.5 %)5 (62.5 %) | 0.617 | 8 (61.5 %)5 (38.5 %) | 3 (37.5 %)5 (62.5 %) | 0.284 |
| Biopsy device Core needle biopsy Vacuum-assisted biopsy | 71 (59.2 %)49 (40.8 %) | 2 (25.0 %)6 (75.0 %) | 0.059 | 8 (61.5 %)5 (38.5 %) | 2 (25.0 %)6 (75.0 %) | 0.104 |
| Estrogen receptor Negative Positive | 23 (19.2 %)97 (80.8 %) | 1 (12.5 %)7 (87.5 %) | 0.640 | 4 (30.8 %)9 (69.2 %) | 1 (12.5 %)7 (87.5 %) | 0.340 |
| Progesterone receptor Negative Positive | 39 (32.5 %)81 (67.5 %) | 2 (25.0 %)6 (75.0 %) | 0.660 | 4 (30.8 %)9 (69.2 %) | 2 (25.0 %)6 (75.0 %) | 0.776 |
| HER2 ≤2 3 | 101 (84.2 %)19 (15.8 %) | 8 (100.0 %)0 (0.0 %) | 0.223 | 10 (76.9 %)3 (23.1 %) | 8 (100.0 %)0 (0.0 %) | 0.142 |
| Ki67 ≤14 % >14 % | 96 (80.0 %)24 (20.0 %) | 5 (62.5 %)3 (37.5 %) | 0.240 | 10 (76.9 %)3 (23.1 %) | 5 (62.5 %)3 (37.5 %) | 0.477 |
| Grade of DCIS Low, intermediate High | 96 (80.0 %)24 (20.0 %) | 7 (87.5 %)1 (12.5 %) | 0.604 | 11 (84.6 %)2 (15.4 %) | 7 (87.5 %)1 (12.5 %) | 0.854 |
| Comedonecrosis AbsencePresence | 56 (46.7 %)64 (53.3 %) | 4 (50.0 %)4 (50.0 %) | 0.855 | 7 (53.8 %)6 (46.2 %) | 4 (50.0 %)4 (50.0 %) | 0.864 |
| Intraductal calcification AbsencePresence | 100 (83.3 %)20 (16.7 %) | 7 (87.5 %)1 (12.5 %) | 0.758 | 11 (84.6 %)2 (15.4 %) | 7 (87.5 %)1 (12.5 %) | 0.854 |
| Lymphoid infiltrate Negative, mildModerate, severe | 82 (68.3 %)38 (31.7 %) | 7 (87.5 %)1 (12.5 %) | 0.254 | 9 (69.2 %)4 (30.8 %) | 7 (87.5 %)1 (12.5 %) | 0.340 |
| Numbers of cigarettes (per day) ≤1010< | 125 (95.8 %)5 (4.2 %) | 1 (12.5 %)7 (87.5 %) | <0.001 | 8 (61.5 %)5 (38.5 %) | 1 (12.5 %)7 (87.5 %) | 0.027 |
| Years of smoking (years) ≤10 10< | 112 (93.3 %)8 (6.7 %) | 2 (25.0 %)6 (75.0 %) | <0.001 | 5 (38.5 %)8 (61.5 %) | 2 (25.0 %)6 (75.0 %) | 0.525 |
| Pack-years of smoking ≤10 10< | 115 (95.8 %)5 (4.2 %) | 3 (37.5 %)5 (62.5 %) | <0.001 | 8 (61.5 %)5 (38.5 %) | 3 (37.5 %)5 (62.5 %) | 0.284 |
| Postoperative pathology DCIS only Invasive ductal carcinoma | 70 (58.3 %)50 (41.7 %) | 8 (100.0 %)0 (0.0 %) | 0.019 | 7 (53.8 %)6 (46.2 %) | 8 (100.0 %)0 (0.0 %) | 0.023 |

DCIS: ductal carcinoma in situ, HER2: human epidermal growth factor receptor 2