**S2 Table. Histopathological characteristics of invasive carcinomas**

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| --- | --- | --- | --- |
|  | **Lesion-associated PAM signal present (n=24)** | **Lesion-associated PAM signal absent (n=9)** | **P value** |
| Tumor size<2≥2 | 177 | 45 | 0.16 |
| Histological grade123 | 6135 | 351 | 0.45⌘ |
| Lymph node metastasisPositiveNegative | 816 | 36 | 0.65 |
| ERPositiveNegative | 213 | 81 | 0.70 |
| PgRPositiveNegative | 168 | 72 | 0.43 |
| HER2PositiveNegative | 321 | 18 | 0.58 |
| Ki-67 index<14%≥14% | 1410 | 45 | 0.37 |
| Neoadjuvant therapyPositiveNegative | 915 | 36 | 0.58 |
| CAIX expressionPositiveNegative | 816 | 36 | 0.66 |
| Lesional TVP / area  | 6.44 (2.4-15.8) | 6.39 (3.2-18.4) | 0.86 |

⌘Kruskal –Wallis Test