Suppl 2: Chi-square test of BMI classification of breast cancer patients at different ages

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Age | Variables | category | BMI (kg/m2) | X2,P-value |
| 18.5~24.9 | 25.0~29.9 | >=30 |
| <50 |  |  |  |  |  |  |
|  | ER |  |  |  |  | 0.941 |
|  |  | positive | 275 | 107 | 71 |  |
|  |  | negative | 83 | 33 | 24 |  |
|  | PR |  |  |  |  | 0.707 |
|  |  | positive | 26 | 17 | 15 |  |
|  |  | negative | 18 | 17 | 11 |  |
|  | HER2 |  |  |  |  | 0.087 |
|  |  | positive | 41 | 9 | 12 |  |
|  |  | negative | 194 | 96 | 55 |  |
|  | Tumor size |  |  |  |  | 0.694 |
|  |  | <=2 | 123 | 45 | 25 |  |
|  |  | >2 | 78 | 30 | 21 |  |
|  | grade |  |  |  |  | <0.001 |
|  |  | <=2 | 100 | 50 | 19 |  |
|  |  | >2 | 61 | 21 | 32 |  |
|  | stage |  |  |  |  | 0.689 |
|  |  | <2 | 80 | 31 | 17 |  |
|  |  | >=2 | 72 | 22 | 17 |  |
| >=50 |  |  |  |  |  |  |
|  | ER |  |  |  |  | 0.159 |
|  |  | positive | 529 | 411 | 250 |  |
|  |  | negative | 140 | 87 | 73 |  |
|  | PR |  |  |  |  | 0.355 |
|  |  | positive | 25 | 23 | 15 |  |
|  |  | negative | 14 | 23 | 15 |  |
|  | HER2 |  |  |  |  | <0.0001 |
|  |  | positive | 45 | 33 | 19 |  |
|  |  | negative | 166 | 154 | 82 |  |
|  | Tumor size |  |  |  |  | 0.673 |
|  |  | <=2 | 110 | 80 | 40 |  |
|  |  | >2 | 93 | 76 | 43 |  |
|  | grade |  |  |  |  | 0.003 |
|  |  | <=2 | 83 | 79 | 41 |  |
|  |  | >2 | 19 | 13 | 23 |  |
|  | Stage |  |  |  |  | 0.089 |
|  |  | <2 | 61 | 53 | 22 |  |
|  |  | >=2 | 30 | 27 | 23 |  |