

Table S4. Selected baseline characteristics before and after propensity score matching in HER2-low and HER2-high group

| Characteristics | No. (%) | | | | No. (%) | | | |
|---|------------------------|-----------------------|----------|-------------------------|-----------------------|-----------------------|----------|-------------------------|
| | Before matching | | <i>P</i> | Standardized difference | After matching | | <i>P</i> | Standardized difference |
| | HER2-low group, n=1031 | HER2-high group, n=57 | | | HER2-low group, n=228 | HER2-high group, n=57 | | |
| Age, years | | | | | | | | |
| < 60 | 490 (47.5%) | 31 (54.4%) | 0.383 | 0.137 | 125 (54.8%) | 31 (54.4%) | 1 | 0.009 |
| ≥ 60 | 541 (52.5%) | 26 (45.6%) | | | 103 (45.2%) | 26 (45.6%) | | |
| Initial bowel obstruction | | | | | | | | |
| No | 1000 (97.0%) | 53 (93.0%) | 0.199 | 0.183 | 209 (91.7%) | 53 (93.0%) | 0.957 | 0.049 |
| Yes | 31 (3.0%) | 4 (7.0%) | | | 19 (8.3%) | 4 (7.0%) | | |
| Grade of differentiation | | | | | | | | |
| Well- or moderately | 925 (89.7%) | 53 (93.0%) | 0.569 | 0.116 | 208 (91.2%) | 53 (93.0%) | 0.873 | 0.065 |
| Poorly | 106 (10.3%) | 4 (7.0%) | | | 20 (8.8%) | 4 (7.0%) | | |
| Pathologic T stage | | | | | | | | |
| T1-T3 | 835 (81.0%) | 47 (82.5%) | 0.919 | 0.038 | 204 (89.5%) | 47 (82.5%) | 0.217 | 0.202 |
| T4 | 196 (19.0%) | 10 (17.5%) | | | 24 (10.5%) | 10 (17.5%) | | |
| Vascular invasion and/or lymphatic infiltration | | | | | | | | |
| No | 941 (91.3%) | 47 (82.5%) | 0.045 | 0.262 | 199 (87.3%) | 47 (82.5%) | 0.464 | 0.134 |
| Yes | 90 (8.7%) | 10 (17.5%) | | | 29 (12.7%) | 10 (17.5%) | | |
| Perineural invasion | | | | | | | | |
| No | 896 (86.9%) | 39 (68.4%) | <0.001 | 0.452 | 157 (68.9%) | 39 (68.4%) | 1 | 0.009 |
| Yes | 135 (13.1%) | 18 (31.6%) | | | 71 (31.1%) | 18 (31.6%) | | |

| | | | | | | | | |
|----------------------------|--------------|------------|-------|-------|-------------|------------|-------|--------|
| Mismatch repair status | | | | | | | | |
| Proficient | 902 (87.5%) | 55 (96.5%) | 0.068 | 0.335 | 220 (96.5%) | 55 (96.5%) | 1 | <0.001 |
| Deficient | 129 (12.5%) | 2 (3.5%) | | | 8 (3.5%) | 2 (3.5%) | | |
| Lymph node metastasis | | | | | | | | |
| No | 678 (65.8%) | 28 (49.1%) | 0.016 | 0.340 | 122 (53.5%) | 28 (49.1%) | 0.656 | 0.087 |
| Yes | 353 (34.2%) | 29 (50.9%) | | | 106 (46.5%) | 29 (50.9%) | | |
| Tumor deposit | | | | | | | | |
| No | 848 (82.3%) | 41 (71.9%) | 0.074 | 0.246 | 170 (74.6%) | 41 (71.9%) | 0.813 | 0.059 |
| Yes | 183 (17.7%) | 16 (28.1%) | | | 58 (25.4%) | 16 (28.1%) | | |
| No. of lymph nodes excised | | | | | | | | |
| < 12 | 118 (11.4%) | 6 (10.5%) | 1.000 | 0.029 | 198 (86.8%) | 51 (89.5%) | 0.755 | 0.081 |
| ≥ 12 | 913 (88.6%) | 51 (89.5%) | | | 30 (13.2%) | 6 (10.5%) | | |
| Rectal cancer | | | | | | | | |
| No | 1012 (98.2%) | 55 (96.5%) | 0.693 | 0.103 | 218 (95.6%) | 55 (96.5%) | 0.769 | 0.045 |
| Yes | 19 (1.8%) | 2 (3.5%) | | | 10 (4.4%) | 2 (3.5%) | | |