**Suppl 1.** Logistic regression used for propensity score matching

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Variable** | **Odds ratio** | **Std. err.** | **Lower 0.95** | **Upper 0.95** | **P** |
| **Age** |  |  |  |  |  |
| Less than 65 years old | Reference |  |  |  |  |
| Age greater or equal to 65 years old | 0.8965 | 0.0042 | 0.8883 | 0.9047 | <0.001 |
| **Region** |  |  |  |  |  |
| Non-metropolitan | Reference |  |  |  |  |
| Metropolitan | 1.0824 | 0.0095 | 1.0640 | 1.1011 | <0.001 |
| **Stage** |  |  |  |  |  |
| *In situ* | Reference |  |  |  |  |
| Localized | 2.5388 | 0.9618 | 1.2083 | 5.3347 | 0.014 |
| Regional | 2.2628 | 0.8573 | 1.0769 | 4.7548 | 0.031 |
| Distant | 0.9138 | 0.3462 | 0.4349 | 1.9203 | 0.812 |
| **Marital status** |  |  |  |  |  |
| Married | Reference |  |  |  |  |
| Divorced or separated | 1.1697 | 0.0087 | 1.1528 | 1.1868 | <0.001 |
| Single, unmarried or widowed | 1.1042 | 0.0056 | 1.0933 | 1.1153 | <0.001 |
| **Grade** |  |  |  |  |  |
| Well differentiated | Reference |  |  |  |  |
| Moderately differentiated | 1.1401 | 0.0066 | 1.1273 | 1.1530 | <0.001 |
| Poorly differentiated | 0.8141 | 0.0058 | 0.8028 | 0.8257 | <0.001 |
| Anaplastic | 0.6654 | 0.0252 | 0.6178 | 0.7166 | <0.001 |
| **Race/ethnicity** |  |  |  |  |  |
| Caucasian | Reference |  |  |  |  |
| Non-Hispanic Black | 1.3511 | 0.0098 | 1.3319 | 1.3705 | <0.001 |
| Non-Hispanic Asian or Pacific Islander | 1.1379 | 0.0096 | 1.1193 | 1.1568 | <0.001 |
| Non-Hispanic American Indian/Alaska Native | 1.2393 | 0.0364 | 1.1700 | 1.3128 | <0.001 |
| Hispanic (all races) | 1.3832 | 0.0101 | 1.3636 | 1.4031 | <0.001 |
| **Income** |  |  |  |  |  |
| <$35,000 | Reference |  |  |  |  |
| $35,000 - $39,999 | 1.0004 | 0.0302 | 0.9429 | 1.0614 | 0.99 |
| $40,000 - $44,999 | 1.0084 | 0.0270 | 0.9568 | 1.0628 | 0.755 |
| $45,000 - $49,999 | 1.0587 | 0.0279 | 1.0054 | 1.1149 | 0.03 |
| $50,000 - $54,999 | 1.1052 | 0.0289 | 1.0499 | 1.1634 | <0.001 |
| $55,000 - $59,999 | 1.1121 | 0.0285 | 1.0575 | 1.1694 | <0.001 |
| $60,000 - $64,999 | 1.1589 | 0.0301 | 1.1014 | 1.2194 | <0.001 |
| $65,000 - $69,999 | 1.3063 | 0.0333 | 1.2426 | 1.3733 | <0.001 |
| $70,000 - $74,999 | 1.3320 | 0.0341 | 1.2668 | 1.4005 | <0.001 |
| $75,000+ | 1.2279 | 0.0307 | 1.1691 | 1.2897 | <0.001 |
| **Sex** |  |  |  |  |  |
| Female | Reference |  |  |  |  |
| Male | 1.0865 | 0.0081 | 1.0707 | 1.1024 | <0.001 |
| **Type of cancer** |  |  |  |  |  |
| Lung | Reference |  |  |  |  |
| Breast | 0.5936 | 0.0045 | 0.5849 | 0.6024 | <0.001 |
| Prostate | 2.4447 | 0.0194 | 2.4070 | 2.4830 | <0.001 |
| Colorectal | 0.3022 | 0.0025 | 0.2974 | 0.3071 | <0.001 |