**Table S2**: Individual- and neighborhood-level characteristics associated with prostate

cancer (PCa) risk profiles among Black men and Non-Hispanic White (NHW) men diagnosed

with first primary invasive PCa from 2004 to 2017 in California, using 4 risk

categorizations (prostate specific antigen [PSA1], Gleason score [GS2], TNM stage3, and

National Comprehensive Cancer Network [NCCN] PCa risk category4). All

variables are included in each of the models.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Characteristics |  | PSA1 | |  | Gleason score2 | |  |
|  | OR | (95% CI) |  | OR | (95% CI) |  |
| Race |  |  |  |  |  |  |  |
| NHW men |  | 1.00 | (Reference) |  | 1.00 | (Reference) |  |
| Black men |  | 1.65 | (1.58-1.72) |  | 1.13 | (1.09-1.18) |  |
| Age at diagnosis in years (continuous) |  | 1.06 | (1.06-1.06) |  | 1.06 | (1.06-1.06) |  |
| Year of diagnosis (continuous) |  | 1.04 | (1.03-1.04) |  | 1.06 | (1.06-1.06) |  |
| Marital status |  |  |  |  |  |  |  |
| Married |  | 1.00 | (Reference) |  | 1.00 | (Reference) |  |
| Single, never married† |  | 1.75 | (1.67-1.83) |  | 1.22 | (1.17-1.28) |  |
| Separated |  | 1.52 | (1.31-1.77) |  | 1.35 | (1.18-1.54) |  |
| Divorced |  | 1.50 | (1.42-1.59) |  | 1.22 | (1.16-1.29) |  |
| Widowed |  | 1.63 | (1.52-1.74) |  | 1.25 | (1.17-1.33) |  |
| Unknown |  | 1.25 | (1.19-1.33) |  | 0.84 | (0.80-0.88) |  |
| Insurance type |  |  |  |  |  |  |  |
| Private |  | 1.00 | (Reference) |  | 1.00 | (Reference) |  |
| No insurance |  | 2.30 | (2.00-2.64) |  | 1.88 | (1.64-2.15) |  |
| Medicare only |  | 0.87 | (0.83-0.91) |  | 1.09 | (1.05-1.31) |  |
| Any Public/Medicaid/Military |  | 1.25 | (1.20-1.31) |  | 1.29 | (1.23-1.34) |  |
| Unknown or missing |  | 1.02 | (0.93-1.12) |  | 1.15 | (1.07-1.23) |  |
| Neighborhood socioeconomic status (nSES) | | | | |  |  |  |
| Quintile 5 (High) |  | 1.00 | (Reference) |  | 1.00 | (Reference) |  |
| Q4 |  | 1.24 | (1.18-1.29) |  | 1.10 | (1.06-1.15) |  |
| Q3 |  | 1.40 | (1.33-1.46) |  | 1.15 | (1.10-1.19) |  |
| Q2 |  | 1.55 | (1.47-1.63) |  | 1.16 | (1.11-1.21) |  |
| Quintile 1 (Low) |  | 1.80 | (1.70-1.91) |  | 1.30 | (1.23-1.37) |  |
| Total men included in analysis |  | N = 153,398 | |  | N = 160,648 | |  |

**Table S2 continued**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Characteristics |  | Stage3 | |  | Risk4 | |  |
|  | OR | (95% CI) |  | OR | (95% CI) |  |
| Race |  |  |  |  |  |  |  |
| NHW men |  | 1.00 | (Reference) | | 1.00 | (Reference) | |
| Black men |  | 1.12 | (1.07-1.17) |  | 1.27 | (1.23-1.32) |  |
| Age at diagnosis in years (continuous) |  | 1.04 | (1.04-1.04) |  | 1.06 | (1.06-1.06) |  |
| Year of diagnosis (continuous) |  | 1.08 | (1.07-1.08) |  | 1.05 | (1.05-1.06) |  |
| Marital status |  |  |  |  |  |  |  |
| Married |  | 1.00 | (Reference) | | 1.00 | (Reference) | |
| Single, never married† |  | 1.51 | (1.44-1.58) |  | 1.41 | (1.36-1.46) |  |
| Separated |  | 1.46 | (1.26-1.69) |  | 1.39 | (1.23-1.56) |  |
| Divorced |  | 1.31 | (1.24-1.39) |  | 1.27 | (1.21-1.32) |  |
| Widowed |  | 1.55 | (1.46-1.66) |  | 1.46 | (1.38-1.55) |  |
| Unknown |  | 1.21 | (1.15-1.27) |  | 1.00 | (0.96-1.05) |  |
| Insurance type |  |  |  |  |  |  |  |
| Private |  | 1.00 | (Reference) | | 1.00 | (Reference) | |
| No insurance |  | 2.34 | (2.04-2.69) |  | 2.07 | (1.84-2.33) |  |
| Medicare only |  | 1.13 | (1.08-1.17) |  | 1.04 | (1.01-1.08) |  |
| Any Public/Medicaid/Military |  | 1.42 | (1.36-1.47) |  | 1.34 | (1.30-1.38) |  |
| Unknown or missing |  | 3.20 | (3.00-3.41) |  | 1.69 | (1.58-1.81) |  |
| Neighborhood socioeconomic status (SES) | | | | | |  |  |
| Quintile 5 (High) |  | 1.00 | (Reference) | | 1.00 | (Reference) | |
| Q4 |  | 1.09 | (1.05-1.14) |  | 1.14 | (1.10-1.18) |  |
| Q3 |  | 1.13 | (1.09-1.19) |  | 1.23 | (1.19-1.27) |  |
| Q2 |  | 1.18 | (1.12-1.23) |  | 1.29 | (1.25-1.34) |  |
| Quintile 1 (Low) |  | 1.29 | (1.22-1.37) |  | 1.49 | (1.42-1.55) |  |
| Total men included in analysis |  | N = 165,341 | |  | N = 153,708 | |  |
| 1 PSA risk category low (≤20 ng/ mL) vs. high (>20 ng/ mL) | | | | | | | |
| 2 GS risk category low (<8) vs. high (8+) | | | | | | | |
| 3 Stage risk categories low (N0, M0, and <T3a) and high (N1, M1, and/ or T3a+) | | | | | | | |
| 4 PCa risk stratification criteria based on the NCCN classification using TNM stage, GS and PSA level. Low included low-risk (T1/T2a and GS ≤ 6 and PSA<10 ng/ml) and intermediate-risk (T2b/T2c or biopsy GS 7 or PSA 10-20 ng/ml); and high included high-risk (T3/T4 or GS 8+ or PSA>20 ng/ml or N1 or M1). | | | | | | | |
| † Single, never married included Unmarried or Domestic Partner (same sex or opposite sex, registered or unregistered other than common law marriage) | | | | | | | |