**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) |