Supplemental Online Content

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This supplemental material has been provided by the authors to give readers additional information about their work.
eTable 1. Insurance claims codes used in the analysis.

| CPT | ICD-9                       | ICD-10                       |
|-----|-----------------------------|------------------------------|
| 55700 | 185; 60000; 79093; 2334; 60010; 6011; | C61; N400; R972; R9720; D075; N402; |
| 72195 | V1046; 60001; 6029; 60020; 60090; 6028; | N411; Z8546; N401; N429; D4289; |
| 72196 | 2222; 2365; 6003; 60091; 60011; 6023; | D291; D400; D4283; N403; N423; |
| 72197 | 6010; 6020; V1642; 6012; 6021; 6019; | N410; N420; Z8042; N412; N421; N419; |

**Note:** CPT: Current Procedural Terminology; ICD: International Classification of Diseases.
Table 2. Bivariate models and models stratified by PSA level

|                   | Regression Coefficient (P-value) | Regression Coefficient (P-value) | Regression Coefficient (P-value) | Regression Coefficient (P-value) | Regression Coefficient (P-value) | Regression Coefficient (P-value) |
|-------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|                   |        (1)                      |        (2)                      |        (3)                      |        (4)                      |        (5)                      |        (6)                      |
| PSA>2.5           | 3.605 (0.0001)                 |                                  |                                  |                                  |                                  |                                  |
| PSA>4             | 3.932 (0.0001)                 |                                  |                                  |                                  |                                  |                                  |
| PSA>10            | 3.310 (0.0001)                 |                                  |                                  |                                  |                                  |                                  |
| Black             |                                | -0.093 (0.324)                  | -0.214 (0.029)                  | -0.359 (0.012)                  |                                  |                                  |
| Hispanic          |                                | -0.276 (0.283)                  | 0.240 (0.258)                   | -0.281 (0.076)                  |                                  |                                  |
| Asian             |                                | -0.211 (0.325)                  | 0.247 (0.192)                   | -0.279 (0.281)                  |                                  |                                  |
| Other             |                                | 0.053 (0.488)                   | 0.383 (0.070)                   | 0.238 (0.029)                   |                                  |                                  |
| Pseudo R2         | 0.184 (0.001)                  | 0.230 (0.002)                   | 0.076 (0.002)                   | 0.001 (0.004)                   |                                  |                                  |
| Number of obs.    | 794,809                         | 794,809                         | 794,809                         | 105,141                         | 51,500                          | 8,806                           |

Note: This table presents regression coefficients from logistic models predicting the likelihood of undergoing a prostate MRI within 180 days of receiving an elevated PSA test result.
### eTable 3. Model of undergoing a prostate MRI after an elevated PSA on race/ethnicity stratified by age groups

| Race/Ethnicity | Age [40; 54] | Age [55; 64] | Age [65; 74] | Age 75+ |
|---------------|--------------|--------------|--------------|---------|
|               | PSA>2.5 | PSA>4 | PSA>10 | PSA>2.5 | PSA>4 | PSA>10 | PSA>2.5 | PSA>4 | PSA>10 |
| Black         | -0.317  | -0.494 | 0.218   | -0.083  | -0.181 | -0.472 | -0.058  | -0.219 | -0.595  | -0.085  | -0.212 | -0.232 |
|               | (0.091) | (0.040) | (0.657) | (0.695) | (0.354) | (0.162) | (0.558) | (0.054) | (0.010) | (0.787) | (0.441) | (0.326) |
| Hispanic      | -0.507  | -0.476 | -0.115  | -0.305  | -0.332 | -1.049 | -0.253  | -0.280 | -0.153  | -0.030  | -0.021 | 0.032  |
|               | (0.124) | (0.208) | (0.802) | (0.152) | (0.105) | (0.0001) | (0.373) | (0.328) | (0.500) | (0.933) | (0.953) | (0.881) |
| Asian         | 0.410   | 0.333  | 1.451   | -0.750  | -0.937 | -0.661 | -0.174  | -0.139 | -0.324  | -0.246  | -0.127 | -0.449 |
|               | (0.292) | (0.365) | (0.104) | (0.040) | (0.012) | (0.371) | (0.395) | (0.450) | (0.345) | (0.626) | (0.797) | (0.450) |
| Other         | -0.027  | -0.038 | 0.113   | 0.148   | 0.180  | 0.168  | -0.028  | -0.060 | 0.085   | 0.111   | 0.093  | 0.559  |
|               | (0.900) | (0.894) | (0.847) | (0.179) | (0.097) | (0.604) | (0.804) | (0.528) | (0.612) | (0.583) | (0.645) | (0.066) |
| Pseudo R²     | 0.004   | 0.006  | 0.012   | 0.002   | 0.003  | 0.014  | 0.001   | 0.001  | 0.006   | 0.000   | 0.001  | 0.005  |
| Number of obs.| 11,210  | 3,353  | 437     | 28,417  | 11,425 | 1,513  | 39,826  | 21,044 | 3,122   | 25,688  | 15,678 | 3,734  |

**Note:** This table presents regression coefficients from logistic models predicting the likelihood of undergoing a prostate MRI within 180 days of receiving an elevated PSA test result; P-values are reported in parentheses.
Table 4. Odds-Ratios for bivariate and multivariable regression models of undergoing a prostate MRI after an elevated PSA.

| Variable | Bivariate Model (N=794,809) | Multivariable Model (N=794,809) | Bivariate Model (N=794,809) | Multivariable Model (N=794,809) | Bivariate Model (N=794,809) | Multivariable Model (N=794,809) |
|----------|------------------------------|---------------------------------|------------------------------|---------------------------------|------------------------------|---------------------------------|
| OR (95% CI) | P-value | OR (95% CI) | P-value | OR (95% CI) | P-value | OR (95% CI) | P-value |
| PSA>2.5 | 36.77 (29.03;46.57) | <0.001 | 34.60 (26.21;45.67) | <0.001 | 51.02 (42.80;60.81) | <0.001 | 52.88 (42.14;66.35) | <0.001 |
| PSA>4 | | | | | 27.39 (24.15;31.06) | <0.001 | 23.87 (19.90;28.67) | <0.001 |
| PSA>10 | | | | | | | |
| Black | 0.918 (0.786;1.073) | 0.283 | 0.813 (0.697;0.949) | 0.009 | 0.849 (0.72;1.001) | 0.051 | 0.813 (0.697;0.949) | 0.009 |
| Hispanic | 0.754 (0.535;1.062) | 0.107 | 0.74 (0.522;1.049) | 0.091 | 0.773 (0.533;1.121) | 0.175 | 0.74 (0.522;1.049) | 0.091 |
| Asian | 0.741 (0.569;0.964) | 0.026 | 0.767 (0.567;1.037) | 0.085 | 0.714 (0.555;0.919) | 0.009 | 0.714 (0.555;0.919) | 0.009 |
| Other | 1.005 (0.862;1.171) | 0.949 | 0.973 (0.833;1.137) | 0.734 | 0.993 (0.852;1.158) | 0.931 | 0.993 (0.852;1.158) | 0.931 |
| Age [55;64] | 1.316 (1.291;1.36) | <0.001 | 1.342 (1.315;1.371) | <0.001 | 3.136 (2.724;3.61) | <0.001 | 3.136 (2.724;3.61) | <0.001 |
| Age [65;74] | 1.866 (1.495;2.33) | <0.001 | 1.766 (1.405;2.18) | <0.001 | 5.32 (4.29;6.59) | <0.001 | 5.32 (4.29;6.59) | <0.001 |
| Age [75;84] | 1.316 (0.992;1.745) | 0.057 | 1.097 (0.819;1.469) | 0.537 | 3.63 (2.76;4.90) | <0.001 | 3.63 (2.76;4.90) | <0.001 |
| Age 85+ | 0.431 (0.317;0.56) | <0.001 | 0.304 (0.215;0.43) | <0.001 | 0.901 (0.635;1.28) | 0.562 | 0.901 (0.635;1.28) | 0.562 |
| HMO | 0.712 (0.569;0.83) | <0.001 | 0.697 (0.509;0.815) | <0.001 | 0.691 (0.595;0.803) | <0.001 | 0.691 (0.595;0.803) | <0.001 |
| Medicare | 0.719 (0.566;0.91) | 0.007 | 0.706 (0.561;0.889) | 0.003 | 0.686 (0.535;0.88) | 0.003 | 0.686 (0.535;0.88) | 0.003 |
| Pseudo R2 | 0.184 | 0.216 | 0.23 | 0.267 | 0.076 | 0.126 |

Note: This table presents exponentiated regression coefficients (i.e. odds ratios) from logistic models predicting the likelihood of undergoing a prostate MRI within 180 days of receiving an elevated PSA test result. Multivariable models control for year of the PSA test and patients’ state of residence.
Table 5. Odds-Ratios for bivariate and multivariable regression models for different PSA levels.

| Variable   | Bivariate Model (N=105,141) | Multivariable Model (N=105,141) | Bivariate Model (N=51,500) | Multivariable Model (N=51,500) | Bivariate Model (N=8,806) | Multivariable Model (N=8,806) |
|------------|------------------------------|---------------------------------|----------------------------|--------------------------------|---------------------------|-------------------------------|
| Black      | OR (95% CI)                  | OR (95% CI)                     | OR (95% CI)                 | OR (95% CI)                    | OR (95% CI)                | OR (95% CI)                   |
|            | 0.911 (0.757; 1.096)         | 0.866 (0.735; 1.021)            | 0.808 (0.667; 0.978)        | 0.759 (0.648; 0.891)           | 0.699 (0.529; 0.923)       | 0.65 (0.5; 0.85)              |
| Hispanic   | 0.759 (0.458; 1.256)         | 0.738 (0.482; 1.13)            | 0.739 (0.446; 1.224)        | 0.732 (0.48; 1.114)            | 0.755 (0.553; 1.03)        | 0.766 (0.588; 0.997)          |
| Asian      | 0.81 (0.532; 1.233)          | 0.733 (0.565; 0.95)            | 0.801 (0.549; 1.166)        | 0.758 (0.578; 0.994)           | 0.757 (0.456; 1.256)       | 0.66 (0.427; 1.022)           |
| Other      | 1.054 (0.908; 1.225)         | 0.992 (0.855; 1.15)            | 1.063 (0.927; 1.219)        | 0.987 (0.863; 1.13)            | 1.269 (1.025; 1.572)       | 1.209 (0.962; 1.521)          |
| Age [55; 64]| 1.138 (0.979; 1.322)         | 0.901 (0.776; 1.045)           |                           | 0.912 (0.757; 1.098)           |                           | 0.942 (0.63; 1.407)           |
| Age [65; 74]| 1.304 (1.075; 1.582)         | 0.907 (0.776; 1.045)           |                           | 0.912 (0.757; 1.098)           |                           | 0.942 (0.63; 1.407)           |
| Age [75; 84]| 0.849 (0.666; 1.084)         | 0.493 (0.38; 0.641)            |                           | 0.493 (0.38; 0.641)            |                           | 0.481 (0.303; 0.764)          |
| Age 85+    | 0.257 (0.168; 0.395)         | <0.001                         |                           | 0.138 (0.089; 0.214)           | <0.001                     | 0.153 (0.078; 0.301)          |
| HMO        | 0.698 (0.578; 0.844)         | <0.001                         |                           | 0.687 (0.547; 0.862)           |                           | 0.722 (0.579; 0.901)          |
| Medicare   | 0.71 (0.562; 0.897)          | 0.004                           |                           | 0.676 (0.523; 0.874)           | 0.003                      | 0.752 (0.536; 1.055)          |
| Pseudo R2  | 0.001                        | 0.044                           | 0.002                      | 0.061                           | 0.004                      | 0.086                         |

**Note:** This table presents exponentiated regression coefficients (i.e. odds ratios) from logistic models predicting the likelihood of undergoing a prostate MRI within 180 days of receiving an elevated PSA test result. Multivariable models control for year of the PSA test and patients’ state of residence.
### eTable 6. Odds-Ratios for bivariate and multivariable regression models stratified by age groups.

#### Panel A: Age group [40; 54]

| Variable | PSA>2.5 Bivariate Model (N=11,210) | PSA>4 Multivariable Model (N=11,210) | PSA>2.5 Bivariate Model (N=3,353) | PSA>4 Multivariable Model (N=3,353) | PSA>2.5 Bivariate Model (N=437) | PSA>4 Multivariable Model (N=437) |
|----------|------------------------------------|-------------------------------------|-----------------------------------|-----------------------------------|--------------------------------|----------------------------------|
| Black    | 0.728 (0.504; 1.052) 0.091 | 0.749 (0.527; 1.064) 0.106 | 0.61 (0.381; 0.979) 0.04 | 0.602 (0.383; 0.947) 0.028 | 1.244 (0.474; 3.265) 0.657 | 1.517 (0.6; 3.838) 0.379 |
| Hispanic | 0.602 (0.316; 1.15) 0.124 | 0.53 (0.27; 1.04) 0.065 | 0.621 (0.296; 1.304) 0.208 | 0.543 (0.253; 1.167) 0.118 | 0.891 (0.362; 2.197) 0.802 | 0.845 (0.365; 1.957) 0.694 |
| Asian    | 1.507 (0.703; 3.233) 0.292 | 1.395 (0.665; 2.925) 0.378 | 1.395 (0.679; 2.868) 0.365 | 1.182 (0.551; 2.534) 0.667 | 4.265 (0.743; 24.474) 0.104 | 3.286 (0.309; 34.982) 0.324 |
| Other    | 0.973 (0.636; 1.489) 0.9 | 0.874 (0.569; 1.343) 0.54 | 0.963 (0.55; 1.686) 0.894 | 0.861 (0.493; 1.503) 0.598 | 1.12 (0.356; 3.525) 0.847 | 1.131 (0.446; 2.867) 0.795 |
| HMO      | 1.17 (0.696; 1.968) 0.553 | 1.134 (0.61; 2.105) 0.692 | 1.024 (0.541; 1.937) 0.929 | 0.975 (0.521; 1.829) 0.929 | 1.958 (1.026; 3.730) 0.042 | 2.58 (1.25; 5.389) 0.006 |
| Medicare | 0.814 (0.473; 1.4) 0.457 | 0.954 (0.513; 1.776) 0.883 | 0.933 (0.521; 1.669) 0.883 | 0.923 (0.512; 1.649) 0.883 | 1.267 (0.394; 4.097) 0.685 | 1.276 (0.294; 5.334) 0.745 |
| Pseudo R² | 0.004 | 0.051 | 0.006 | 0.071 | 0.012 | 0.184 |

#### Panel B: Age group [55; 64]

| Variable | PSA>2.5 Bivariate Model (N=28,417) | PSA>4 Multivariable Model (N=28,417) | PSA>2.5 Bivariate Model (N=11,425) | PSA>4 Multivariable Model (N=11,425) | PSA>2.5 Bivariate Model (N=1,513) | PSA>4 Multivariable Model (N=1,513) |
|----------|------------------------------------|-------------------------------------|-----------------------------------|-----------------------------------|--------------------------------|----------------------------------|
| Black    | 0.921 (0.608; 1.393) 0.695 | 0.958 (0.628; 1.461) 0.841 | 0.835 (0.57; 1.223) 0.354 | 0.888 (0.595; 1.326) 0.563 | 0.624 (0.322; 1.209) 0.162 | 0.686 (0.351; 1.342) 0.271 |
| Hispanic | 0.737 (0.486; 1.119) 0.152 | 0.718 (0.465; 1.108) 0.134 | 0.718 (0.48; 1.072) 0.105 | 0.7 (0.46; 1.064) 0.095 | 0.35 (0.197; 0.621) <0.001 | 0.324 (0.177; 0.594) <0.001 |
| Asian    | 0.472 (0.231; 0.967) 0.04 | 0.427 (0.212; 0.86) 0.017 | 0.392 (0.189; 0.813) 0.012 | 0.371 (0.179; 0.767) 0.007 | 0.516 (0.121; 2.2) 0.371 | 0.463 (0.1; 2.144) 0.325 |
| Other    | 1.159 (0.935; 1.438) 0.179 | 1.067 (0.857; 1.329) 0.561 | 1.197 (0.968; 1.481) 0.097 | 1.134 (0.898; 1.431) 0.291 | 1.183 (0.627; 2.231) 0.604 | 1.262 (0.586; 2.719) 0.552 |
| HMO      | 0.411 (0.279; 0.606) <0.001 | 0.381 (0.234; 0.618) 0 | 0.381 (0.234; 0.618) 0 | 0.652 (0.319; 1.331) 0.24 | 0.533 (0.292; 0.974) 0.041 | 0.418 (0.237; 0.733) 0.029 |
| Medicare | 0.728 (0.455; 1.164) 0.185 | 0.63 (0.41; 0.968) 0.035 | 0.63 (0.41; 0.968) 0.035 | 0.63 (0.41; 0.968) 0.035 | 0.533 (0.292; 0.974) 0.041 | 0.418 (0.237; 0.733) 0.029 |
| Pseudo R² | 0.002 | 0.04 | 0.003 | 0.046 | 0.014 | 0.081 |

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### Panel C: Age group [65; 74]

|                | PSA>2.5 |        | PSA>4 |        | PSA>10 |        |
|----------------|---------|--------|-------|--------|--------|--------|
|                | Bivariate Model | Multivariable Model | Bivariate Model | Multivariable Model | Bivariate Model | Multivariable Model |
|                | (N=39,826) | (N=39,826) | (N=21,044) | (N=21,044) | (N=3,122) | (N=3,122) |
| Black          | 0.943   | 0.558  | 0.803  | 0.165  | 0.003  | 0.01   |
|                | (0.776; 1.146) | (0.769; 1.046) | (0.643; 1.004) | (0.642; 0.911) | (0.35; 0.869) | (0.347; 0.907) |
| Hispanic       | 0.777   | 0.373  | 0.756  | 0.189  | 0.125  | 0.5    |
|                | (0.445; 1.355) | (0.524; 1.136) | (0.431; 1.325) | (0.51; 1.086) | (0.55; 1.339) | (0.627; 1.284) |
| Asian          | 0.84    | 0.395  | 0.87   | 0.036  | 0.211  | 0.345  |
|                | (0.563; 1.254) | (0.602; 0.983) | (0.607; 1.248) | (0.641; 1.103) | (0.369; 1.418) | (0.349; 1.399) |
| Other          | 0.972   | 0.804  | 0.942  | 0.595  | 0.298  | 0.612  |
|                | (0.78; 1.213) | (0.751; 1.178) | (0.782; 1.134) | (0.744; 1.095) | (0.784; 1.512) | (0.766; 1.489) |
| HMO            | 0.775   | 0.073  | 0.764  | 0.098  | 0.671  | 0.013  |
|                | (0.587; 1.024) | (0.555; 1.051) | (0.555; 1.051) | (0.489; 0.92) | (0.489; 0.92) | (0.489; 0.92) |
| Medicare       | 0.782   | 0.17   | 0.787  | 0.263  | 0.101  | 0.969  |
|                | (0.551; 1.11) | (0.518; 1.197) | (0.518; 1.197) | (0.62; 1.645) | (0.62; 1.645) | (0.62; 1.645) |
| Pseudo R2      | 0.001   | 0.039  | 0.001  | 0.045  | 0.006  | 0.074  |

### Panel D: Age group 75+

|                | PSA>2.5 |        | PSA>4 |        | PSA>10 |        |
|----------------|---------|--------|-------|--------|--------|--------|
|                | Bivariate Model | Multivariable Model | Bivariate Model | Multivariable Model | Bivariate Model | Multivariable Model |
|                | (N=25,688) | (N=25,688) | (N=15,678) | (N=15,678) | (N=3,734) | (N=3,734) |
| Black          | 0.918   | 0.787  | 0.809  | 0.343  | 0.107  | 0.326  |
|                | (0.495; 1.703) | (0.368; 1.416) | (0.471; 1.388) | (0.347; 1.109) | (0.499; 1.26) | (0.407; 1.007) |
| Hispanic       | 0.971   | 0.933  | 0.979  | 0.415  | 0.332  | 0.881  |
|                | (0.485; 1.942) | (0.536; 1.294) | (0.482; 1.989) | (0.534; 1.236) | (0.675; 1.58) | (0.747; 1.216) |
| Asian          | 0.782   | 0.626  | 0.881  | 0.317  | 0.489  | 0.45   |
|                | (0.29; 2.106) | (0.28; 1.512) | (0.336; 2.312) | (0.327; 1.706) | (0.199; 2.045) | (0.145; 1.436) |
| Other          | 1.118   | 0.583  | 1.093  | 0.653  | 0.705  | 0.066  |
|                | (0.751; 1.663) | (0.742; 1.61) | (0.739; 1.628) | (0.736; 1.573) | (0.964; 3.172) | (0.924; 2.743) |
| HMO            | 0.523   | 0.009  | 0.502  | 0.001  | 0.513  | 0.092  |
|                | (0.322; 0.848) | (0.322; 0.848) | (0.339; 0.744) | (0.235; 1.116) | (0.235; 1.116) | (0.235; 1.116) |
| Medicare       | 0.773   | 0.48   | 0.846  | 0.676  | 0.877  | 0.803  |
|                | (0.378; 1.579) | (0.386; 1.855) | (0.386; 1.855) | (0.314; 2.454) | (0.314; 2.454) | (0.314; 2.454) |
| Pseudo R2      | 0.0003  | 0.057  | 0.001  | 0.065  | 0.005  | 0.09   |

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Note: This table presents exponentiated regression coefficients (i.e. odds ratios) from logistic models predicting the likelihood of undergoing a prostate MRI within 180 days of receiving an elevated PSA test result. Multivariable models control for year of the PSA test and patients’ state of residence.
**Table 7. Annual frequency of PSA testing and subsequent MRI by regions**

| Year | Patients receiving a PSA test | Number undergoing MRI within 180 days (%) | Number with PSA>4 (%) | Number undergoing MRI within 180 days if PSA>4 (180 days) (%) | Mean days between PSA>4 and MRI |
|------|-------------------------------|-----------------------------------------|----------------------|---------------------------------------------------------------|-----------------------------|
| **West Region** | | | | | |
| 2011 | 14,206 | 8 | 0.06% | 769 | 5% | 8 | 1.04% | 68 |
| 2012 | 12,951 | 12 | 0.09% | 770 | 6% | 10 | 1.30% | 81 |
| 2013 | 16,396 | 7 | 0.04% | 1,004 | 6% | 3 | 0.30% | 127 |
| 2014 | 17,072 | 20 | 0.12% | 1,162 | 7% | 16 | 1.38% | 72 |
| 2015 | 21,426 | 25 | 0.12% | 1,524 | 7% | 20 | 1.31% | 80 |
| 2016 | 26,659 | 52 | 0.20% | 1,793 | 7% | 41 | 2.29% | 84 |
| 2017 | 48,412 | 140 | 0.29% | 4,091 | 8% | 114 | 2.79% | 59 |
| **South Region** | | | | | |
| 2011 | 56,792 | 45 | 0.08% | 2,493 | 4% | 29 | 1.16% | 83 |
| 2012 | 47,460 | 59 | 0.12% | 2,268 | 5% | 45 | 1.98% | 89 |
| 2013 | 54,617 | 67 | 0.12% | 2,900 | 5% | 44 | 1.52% | 89 |
| 2014 | 43,406 | 61 | 0.14% | 2,288 | 5% | 45 | 1.97% | 66 |
| 2015 | 58,902 | 137 | 0.23% | 3,313 | 6% | 100 | 3.02% | 69 |
| 2016 | 80,204 | 232 | 0.29% | 4,757 | 6% | 184 | 3.87% | 75 |
| 2017 | 149,119 | 522 | 0.35% | 11,731 | 8% | 410 | 3.50% | 61 |
| **Midwest Region** | | | | | |
| 2011 | 8,595 | 11 | 0.13% | 471 | 5% | 7 | 1.49% | 83 |
| 2012 | 7,724 | 4 | 0.05% | 434 | 6% | 3 | 0.69% | 79 |
| 2013 | 9,304 | 16 | 0.17% | 573 | 6% | 11 | 1.92% | 104 |
| 2014 | 8,756 | 12 | 0.14% | 582 | 7% | 9 | 1.55% | 72 |
| 2015 | 8,772 | 31 | 0.35% | 502 | 6% | 26 | 5.18% | 79 |
| 2016 | 10,855 | 32 | 0.29% | 712 | 7% | 27 | 3.79% | 86 |
| 2017 | 15,900 | 71 | 0.45% | 1,132 | 7% | 58 | 5.12% | 68 |
| **Northeast Region** | | | | | |
| 2011 | 5,996 | 10 | 0.17% | 276 | 5% | 5 | 1.81% | 75 |
| 2012 | 8,011 | 19 | 0.24% | 636 | 8% | 12 | 1.89% | 81 |
| 2013 | 8,711 | 30 | 0.34% | 693 | 8% | 26 | 3.75% | 75 |
| 2014 | 8,552 | 28 | 0.33% | 709 | 8% | 22 | 3.10% | 76 |
| 2015 | 11,251 | 54 | 0.48% | 852 | 8% | 44 | 5.16% | 75 |
| 2016 | 13,006 | 89 | 0.68% | 1,106 | 9% | 69 | 6.24% | 62 |
| 2017 | 21,754 | 174 | 0.80% | 1,957 | 9% | 136 | 6.95% | 55 |

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eTable 8. Race-stratified frequencies for PSA, elevated PSA, and prostate MRI examinations performed within 180 days after a PSA test by regions.

| Race/Ethnicity | Patients receiving a PSA test | Number undergoing MRI within 180 days (%) | Number with PSA>4 (%) | Number undergoing MRI within 180 days if PSA>4 (180 days) (%) | Mean days between PSA>4 and MRI |
|----------------|-------------------------------|-------------------------------------------|-----------------------|-------------------------------------------------------------|--------------------------------|
| **West Region** |                               |                                           |                       |                                                             |                                |
| White          | 92,066                        | 159                                       | 6,397                 | 132                                          2.06%          | 70                             |
| Black          | 3,080                         | 5                                         | 246                   | 5                                            2.03%          | 53                             |
| Hispanic       | 22,903                        | 31                                        | 1,646                 | 22                                           1.34%          | 81                             |
| Asian          | 8,838                         | 10                                        | 565                   | 8                                            1.42%          | 55                             |
| Other          | 30,235                        | 59                                        | 2,261                 | 45                                           1.99%          | 64                             |
| **South Region** |                             |                                           |                       |                                                             |                                |
| White          | 266,258                       | 594                                       | 14,629                | 445                                          3.04%          | 71                             |
| Black          | 61,981                        | 150                                       | 4,692                 | 119                                          2.54%          | 79                             |
| Hispanic       | 73,187                        | 154                                       | 4,628                 | 116                                          2.51%          | 63                             |
| Asian          | 14,923                        | 23                                        | 678                   | 18                                           2.65%          | 68                             |
| Other          | 74,151                        | 202                                       | 5,123                 | 159                                          3.10%          | 61                             |
| **Midwest Region** |                             |                                           |                       |                                                             |                                |
| White          | 51,455                        | 128                                       | 3,089                 | 105                                          3.40%          | 78                             |
| Black          | 5,224                         | 15                                        | 505                   | 12                                           2.38%          | 86                             |
| Hispanic       | 3,220                         | 4                                         | 177                   | 3                                            1.69%          | 82                             |
| Asian          | 1,788                         | 1                                         | 85                    | 1                                            1.18%          | 28                             |
| Other          | 8,219                         | 29                                        | 550                   | 20                                           3.64%          | 69                             |
| **Northeast Region** |                         |                                           |                       |                                                             |                                |
| White          | 45,435                        | 241                                       | 3,411                 | 191                                          5.60%          | 65                             |
| Black          | 5,650                         | 26                                        | 611                   | 20                                           3.27%          | 63                             |
| Hispanic       | 8,646                         | 37                                        | 827                   | 31                                           3.75%          | 53                             |
| Asian          | 5,801                         | 25                                        | 394                   | 17                                           4.31%          | 85                             |
| Other          | 11,749                        | 75                                        | 986                   | 55                                           5.58%          | 60                             |