**Supplemental Table 1. Demographic characteristics by insurance status of patients diagnosed with invasive colorectal cancer, by period of diagnosis in California, 1997-2014**

|  |  |
| --- | --- |
|  | **Period of diagnosis 1997-2002** |
|  | **No insurance** | **Private only** | **Medicare only** | **Medicare+ Private only** | **Any Public/ Medicaid/ Military** | **Unk** |
|  | **N** | **%** | **N** | **%** | **N** | **%** | **N** | **%** | **N** | **%** | **N** | **%** |
| **Age at diagnosis**  |   |  |  |  |  |  |  |  |  |  |  |   |
| <50 | 349 | 28.8% | 4772 | 16% | 124 | 1.3% | 79 | 0.5% | 1003 | 14.4% | 340 | 15.5% |
| 50-75 | 792 | 65.3% | 18451 | 60% | 4107 | 41.9% | 6129 | 41.6% | 4048 | 58.3% | 1262 | 57.5% |
| 76+ | 71 | 5.9% | 7626 | 25% | 5576 | 56.9% | 8534 | 57.9% | 1897 | 27.3% | 592 | 27.0% |
| **Sex** |   |  |  |  |  |  |  |  |  |  |  |   |
| Male | 702 | 57.9% | 16441 | 53% | 4599 | 46.9% | 7007 | 47.5% | 3842 | 55.3% | 1115 | 50.8% |
| Female | 510 | 42.1% | 14408 | 47% | 5208 | 53.1% | 7735 | 52.5% | 3106 | 44.7% | 1079 | 49.2% |
| **Race/Ethnicity** |   |  |  |  |  |  |  |  |  |  |  |   |
| Non-Hispanic White | 525 | 43.3% | 21889 | 71% | 6961 | 71.0% | 11735 | 79.6% | 3424 | 49.3% | 1315 | 59.9% |
| Non-Hispanic Black | 123 | 10.1% | 2038 | 7% | 844 | 8.6% | 613 | 4.2% | 738 | 10.6% | 153 | 7.0% |
| Hispanic | 297 | 24.5% | 3662 | 12% | 1075 | 11.0% | 1204 | 8.2% | 1426 | 20.5% | 382 | 17.4% |
| Asian/Pacific Islander | 256 | 21.1% | 3044 | 10% | 872 | 8.9% | 1121 | 7.6% | 1287 | 18.5% | 210 | 9.6% |
| Unknown | 11 | 0.9% | 216 | 1% | 55 | 0.6% | 69 | 0.5% | 73 | 1.1% | 134 | 6.1% |
|   | **Period of diagnosis 2003-2008** |
| **Age at diagnosis**  |   |  |  |  |  |  |  |  |  |  |  |   |
| <50 | 381 | 27.5% | 5448 | 17.8% | 83 | 1.5% | 57 | 0.4% | 1470 | 11.8% | 269 | 15.6% |
| 50-75 | 925 | 66.7% | 18851 | 61.5% | 2626 | 46.0% | 5883 | 41.4% | 6948 | 55.5% | 1031 | 59.9% |
| 76+ | 81 | 5.8% | 6339 | 20.7% | 3003 | 52.6% | 8279 | 58.2% | 4090 | 32.7% | 422 | 24.5% |
| **Sex** |   |  |  |  |  |  |  |  |  |  |  |   |
| Male | 799 | 57.6% | 16179 | 52.8% | 2880 | 50.4% | 6790 | 47.8% | 6476 | 51.8% | 971 | 56.4% |
| Female | 588 | 42.4% | 14459 | 47.2% | 2832 | 49.6% | 7429 | 52.2% | 6032 | 48.2% | 751 | 43.6% |
| **Race/Ethnicity** |   |  |  |  |  |  |  |  |  |  |  |   |
| Non-Hispanic White | 517 | 37.3% | 19538 | 63.8% | 3654 | 64.0% | 11148 | 78.4% | 5396 | 43.1% | 897 | 52.1% |
| Non-Hispanic Black | 146 | 10.5% | 2210 | 7.2% | 471 | 8.2% | 754 | 5.3% | 1348 | 10.8% | 126 | 7.3% |
| Hispanic | 487 | 35.1% | 4760 | 15.5% | 893 | 15.6% | 1324 | 9.3% | 3087 | 24.7% | 355 | 20.6% |
| Asian/Pacific Islander | 230 | 16.6% | 3812 | 12.4% | 655 | 11.5% | 909 | 6.4% | 2547 | 20.4% | 193 | 11.2% |
| Unknown | 7 | 0.5% | 318 | 1.0% | 39 | 0.7% | 84 | 0.6% | 130 | 1.0% | 151 | 8.8% |
|   | **Period of diagnosis 2009-2014** |
| **Age at diagnosis**  |   |   |   |   |   |   |   |   |   |   |   |   |
| <50 | 323 | 23.9% | 5733 | 19.5% | 88 | 1.8% | 81 | 0.6% | 2033 | 14.1% | 214 | 14% |
| 50-75 | 966 | 71.6% | 18909 | 64.5% | 2575 | 51.7% | 6153 | 45.4% | 8693 | 60.4% | 968 | 64% |
| 76+ | 60 | 4.4% | 4684 | 16.0% | 2319 | 46.5% | 7322 | 54.0% | 3676 | 25.5% | 325 | 22% |
| **Sex** |   |  |  |  |  |  |  |  |  |  |  |   |
| Male | 799 | 59.2% | 15460 | 52.7% | 2595 | 52.1% | 6583 | 48.6% | 7756 | 53.9% | 833 | 55% |
| Female | 550 | 40.8% | 13866 | 47.3% | 2387 | 47.9% | 6973 | 51.4% | 6646 | 46.1% | 674 | 45% |
| **Race/Ethnicity** |   |  |  |  |  |  |  |  |  |  |  |   |
| Non-Hispanic White | 508 | 37.7% | 16719 | 57.0% | 2976 | 59.7% | 9870 | 72.8% | 5528 | 38.4% | 633 | 42% |
| Non-Hispanic Black | 112 | 8.3% | 2096 | 7.1% | 384 | 7.7% | 668 | 4.9% | 1439 | 10.0% | 80 | 5% |
| Hispanic | 507 | 37.6% | 5721 | 19.5% | 859 | 17.2% | 1747 | 12.9% | 4295 | 29.8% | 323 | 21% |
| Asian/Pacific Islander | 210 | 15.6% | 4372 | 14.9% | 700 | 14.1% | 1150 | 8.5% | 2974 | 20.6% | 170 | 11% |
| Unknown | 12 | 0.9% | 418 | 1.4% | 63 | 1.3% | 121 | 0.9% | 166 | 1.2% | 301 | 20% |

**Supplemental Table 2. Multivariable adjusted hazard ratios (HR) and 95% confidence interval (CI) estimates for 5-year death from all causes by period of diagnosis, California 1997-2014, with follow-up through 2016.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|   | **Period of diagnosis 1997-2002** | **Period of diagnosis 2003-2008** | **Period of diagnosis 2009-2014** | **Interaction** |
| **No. of deaths** | **HR (95% CI)** | **No. of deaths** | **HR (95% CI)** | **No. of deaths** | **HR (95% CI)** | **p-value** |
| **Race/Ethnicity** |   |   |   |   |   |   | 0.154 |
| Non-Hispanic White | 22,117 | Reference | 18,579 | Reference | 14,293 | Reference |   |
| Non-Hispanic Black | 2,461 | 1.07 (1.02-1.12) | 2,566 | 1.05 (1.00-1.10) | 2,113 | 1.03 (0.97-1.08) |   |
| Hispanic | 3,618 | 0.91 (0.88-0.95) | 4,424 | 0.88 (0.85-0.92) | 4,684 | 0.89 (0.85-0.92) |   |
| Asian/Pacific Islander | 2,729 | 0.84 (0.80-0.87) | 3,047 | 0.81 (0.78-0.84) | 3,188 | 0.89 (0.85-0.92) |   |
| **Neighborhood SES quintile** |   |   |   |   |   |   |   |
| 1st (lowest) | 4,953 | 1.33 (1.28-1.39) | 4,781 | 1.26 (1.21-1.32) | 4,608 | 1.24 (1.18-1.30) | 0.178 |
| 2nd | 6,295 | 1.23 (1.18-1.28) | 5,972 | 1.23 (1.19-1.28) | 5,290 | 1.20 (1.15-1.25) |   |
| 3rd | 7,005 | 1.18 (1.14-1.23) | 6,332 | 1.18 (1.13-1.22) | 5,232 | 1.13 (1.08-1.18) |   |
| 4th | 6,686 | 1.10 (1.06-1.14) | 6,266 | 1.13 (1.09-1.18) | 5,010 | 1.06 (1.01-1.10) |   |
| 5th (highest) | 6,140 | Reference | 5,428 | Reference | 4,309 | Reference |   |
| **Insurance status** |   |   |   |   |   |   | 0.001 |
| No insurance | 548 | 1.08 (0.98-1.19) | 581 | 1.17 (1.07-1.29) | 505 | 1.25 (1.13-1.37) |   |
| Private only | 12,657 | Reference | 10,969 | Reference | 8,513 |   |   |
| Medicare only | 5,444 | 1.16 (1.12-1.21) | 3,095 | 1.27 (1.22-1.33)\* | 2,436 | 1.32 (1.25-1.39)a |   |
| Medicare+Private | 7,692 | 1.12 (1.08-1.15) | 6,921 | 1.12 (1.09-1.16) | 5,953 | 1.18 (1.14-1.23)a |   |
| Any Public/Medicaid/Military | 3,612 | 1.13 (1.08-1.18) | 6,432 | 1.26 (1.22-1.31)\* | 6,511 | 1.30 (1.25-1.34)a |   |

Cox regression models stratified by chemotherapy and adjusted for year of diagnosis, age, sex, marital status, AJCC stage, subsite, lymph nodes positive, tumor size, tumor grade, surgery, radiation, urbanization level, whether or not patients were seen at an NCI-designated cancer center, and clustering by block group. Cases with unknown race/ethnicity, neighborhood SES quintile, and insurance status were included in the models (results not shown).

aSignificantly different from 1997-2002 (individual cross-product interaction term p-value <0.05 in the overall model