**Additional files**

**Regional differences in recommended cancer treatment for the elderly**

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| --- | --- |
| **Table S1:** | |
| **Specialties\* Treating Cancer Patients** | |
|  |  |
| **Type of Cancer** | **Specialty** |
| **Colon Cancer** |  |
|  | Medical Oncology |
|  | Surgery |
|  | General Surgery |
|  | Colon and Rectal Surgery |
|  | Surgical Oncology |
|  |  |
| **Rectal Cancer** |  |
|  | Medical Oncology |
|  | Hematology |
|  | Hematology/Oncology |
|  | Radiation Oncology |
|  |  |
| **Pancreatic Cancer** |  |
|  | Surgery |
|  | General Surgery |
|  | Surgical Oncology |
|  |  |
| **Prostate Cancer** |  |
|  | Radiation Oncology |
|  | Urology |

\*Specialties were obtained from the American Medical Association Physician Masterfiles.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Table S2: Number of Cancer Patients Eligible for Care by HRR and Treatment Type** | | | | | | | |
|  | **All stages colon cancer** | **Regional colon cancer** | **Regional rectal cancer** | **Regional rectal cancer with resection** | **Favorable non –metastatic prostate cancer** | **Unfavorable non-metastatic prostate cancer** | **Locoregional resectable pancreatic cancer** |
| Treatment rate  (n/N)% | Resection w/12+ nodes | chemotherapy | Radiation therapy | Postoperative chemotherapy | No treatment | Any treatment | Resection |
| Abilene | 185 | 59 | 6 | 6 | 108 | 78 | 10 |
| Amarillo | 161 | 54 | 14 | 10 | 149 | 212 | 17 |
| Austin | 276 | 91 | 42 | 35 | 376 | 488 | 38 |
| Beaumont | 186 | 48 | 25 | 24 | 185 | 135 | 20 |
| Bryan | 77 | 28 | 2 | 1 | 80 | 88 | 8 |
| Corpus Christi | 153 | 50 | 19 | 12 | 69 | 180 | 10 |
| Dallas | 962 | 351 | 115 | 95 | 785 | 858 | 129 |
| El Paso | 162 | 60 | 13 | 7 | 245 | 285 | 21 |
| Fort Worth | 426 | 144 | 45 | 36 | 526 | 319 | 69 |
| Harlingen | 126 | 43 | 8 | 8 | 60 | 100 | 22 |
| Houston | 1353 | 487 | 161 | 115 | 1081 | 1552 | 122 |
| Longview | 91 | 24 | 15 | 14 | 60 | 122 | 8 |
| Lubbock | 161 | 49 | 17 | 12 | 177 | 213 | 22 |
| McAllen | 131 | 55 | 16 | 13 | 59 | 54 | 15 |
| Odessa | 145 | 51 | 16 | 14 | 84 | 50 | 9 |
| San Angelo | 59 | 16 | 12 | 7 | 93 | 56 | 4 |
| San Antonio | 499 | 207 | 70 | 52 | 493 | 530 | 67 |
| Temple | 74 | 20 | 5 | 3 | 65 | 83 | 7 |
| Tyler | 277 | 80 | 24 | 22 | 318 | 339 | 44 |
| Victoria | 90 | 17 | 10 | 8 | 52 | 97 | 11 |
| Waco | 129 | 42 | 23 | 17 | 103 | 92 | 11 |
| Wichita Falls | 86 | 33 | 10 | 7 | 52 | 47 | 9 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Table S3: Descriptive statisticsa for the treatment vs. non-treatment group** | | | | | | | |
|  | **All stages colon  cancer** | **Regional colon  cancer** | **Regional rectal  cancer** | **Regional rectal cancer with resection** | **Favorable  non-metastatic  prostate cancer** | **Unfavorable  non-metastatic  prostate cancer** | **Locoregional  resectable  pancratic cancer** |
| **Treatment and Treatment rate** | **resection w/12+ nodes** | **chemotherapy** | **radiation therapy** | **postoperative  chemotherapy** | **no treatment** | **any treatment** | **resection** |
| 48% | 54% | 61% | 48% | 21% | 88% | 41% |
| **Age at diagnosis  treated  not treated** | 73.0  72.9 | 72.3 74.0 | 71.9 73.0 | 72.2 72.6 | 72.0 74.2 | 72.9 75.3 | 74.2 77.7 |
| **Charlson score  treated  not treated** | 0.8 0.9 | 0.6 1.0 | 0.5 0.7 | 0.5 0.7 | 0.4 0.7 | 0.5 0.6 | 0.8 1.1 |
| **Tumor size in mm  treated  not treated** | 166.2 391.2 | 146.8 169.4 | 293.8 171.6 | 125.1 295.9 | 913.9 925.1 | 884.7 904.6 | 100.9 354.7 |
| **Median income  treated  not treated** | $41037 $38636 | $40380 $39533 | $39981 $40044 | $40057 $40185 | $43377 $40070 | $42653 $39818 | $42382 $41355 |
| **Some college  treated  not treated** | 27.6 27.2 | 27.3 26.7 | 27.1 27.5 | 26.9 27.6 | 28.2 28.1 | 27.7 27.7 | 27.6 27.4 |
| **% no English  treated  not treated** | 6.0 6.5 | 6.7 7.0 | 6.12 7.0 | 6.2 6.6 | 5.6 6.5 | 6.2 6.9 | 5.9 6.8 |
| **Urban residence  treated %  not treated %** | 84.2 82.2 | 82.3 84.6 | 79.4 86.6 | 80.2 84.4 | 83.7 81.1 | 83.3 83.9 | 85.8 86.7 |
| **Male   treated %  not treated %** | 46.2 52.2 | 49.5 46.5 | 61.4 62.8 | 62.1 63.0 | 100 100 | 100 100 | 48.4 43.2 |
| **Race: Black   treated %  not treated %** | 8.8 11.5 | 8.5 9.9 | 7.9 10.0 | 4.8 9.3 | 7.7 11.7 | 8.2 14.8 | 7.3 8.3 |
| **Hispanic   treated %  not treated %** | 13.2 14.6 | 15.9 15.2 | 15.5 16.5 | 16.5 17.4 | 11.1 13.0 | 12.3 12.3 | 14.9 16.8 |
| **White   treated %  not treated %** | 74.6 69.9 | 72.8 71.2 | 74.2 70.9 | 76.2 70.7 | 77.1 71.1 | 75.4 69.3 | 76.4 72.1 |
| **Other   treated %  not treated %** | 3.4 4.0 | 2.8 3.7 | 2.5 2.7 | 2.4 2.6 | 4.2 4.3 | 4.1 3.7 | 1.5 2.8 |
| **Year of diagnosis:  2004   treated %  not treated %** | 23.3 31.3 | 29.7 26.9 | 33.7 29.2 | 39.5 26.7 | 28.4 26.0 | 23.3 24.5 | 20.4 25.4 |
| **2005   treated %  not treated %** | 23.8 27.8    27.80 27.80 | 25.0 24.4 | 23.1 23.8 | 21.8 20.4 | 25.7 27.1 | 24.0 23.6 | 30.18 24.37 |
| **2006  treated %  not treated %** | 25.3 22.1 | 22.6 26.0 | 24.3 21.5 | 21.4 27.8 | 24.4 21.5 | 26.0 22.4 | 22.9 22.9 |
| **2007  treated %  not treated %** | 27.6 18.9 | 22.8 22.8 | 18.9 25.7 | 17.4 25.2 | 21.5 25.4 | 26.7 29.5 | 26.6 27.4 |
| **Stage: In situ   treated %  not treated %** | 1.8 6.9 |  |  |  |  |  |  |
| **Local   treated %  not treated %** | 39.0 39.4 |  |  |  |  |  |  |
| **Regional   treated %  not treated %** | 45.1 25.0 |  |  |  |  |  |  |
| **Distant  treated %  not treated %** | 13.6 20.7 |  |  |  |  |  |  |
| **Surgeons per  1000 cancer patients\*** | 6.3 |  |  |  |  | | 6.3 |
| **Oncologists per 1000 cancer patients\*** |  | 3.7 |  | 3.2 |  | |  |
| **Urologists per  1000 cancer patients\*** |  |  |  |  | 2.9 | |  |
| **Rad. Oncologists per 1000 cancer patients\*** |  |  | 1.1 |  | 1.2 | |  |
| a Values represent means unless otherwise indicated. | | | | | | | |
| \* The denominator is the number of Medicare patients in the HSA with a cancer diagnosis. | | | | | | | |