**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.

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| **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 |

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| **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 | 72.374.0 | 71.973.0 | 72.272.6 | 72.074.2 | 72.975.3 | 74.277.7 |
| **Charlson score treated not treated** | 0.80.9 | 0.61.0 | 0.50.7 | 0.50.7 | 0.40.7 | 0.50.6 | 0.81.1 |
| **Tumor size in mm treated not treated** | 166.2391.2 | 146.8169.4 | 293.8171.6 | 125.1295.9 | 913.9925.1 | 884.7904.6 | 100.9354.7 |
| **Median income treated not treated** | $41037$38636 | $40380$39533 | $39981$40044 | $40057$40185 | $43377$40070 | $42653$39818 | $42382$41355 |
| **Some college treated not treated** | 27.627.2 | 27.326.7 | 27.127.5 | 26.927.6 | 28.228.1 | 27.727.7 | 27.627.4 |
| **% no English treated not treated** | 6.06.5 | 6.77.0 | 6.127.0 | 6.26.6 | 5.66.5 | 6.26.9 | 5.96.8 |
| **Urban residence treated % not treated %** | 84.282.2 | 82.384.6 | 79.486.6 | 80.284.4 | 83.781.1 | 83.383.9 | 85.886.7 |
| **Male  treated % not treated %** | 46.252.2 | 49.546.5 | 61.462.8 | 62.163.0 | 100100 | 100100 | 48.443.2 |
| **Race: Black  treated % not treated %** | 8.811.5 | 8.59.9 | 7.910.0 | 4.89.3 | 7.711.7 | 8.214.8 | 7.38.3 |
|  **Hispanic  treated % not treated %** | 13.214.6 | 15.915.2 | 15.516.5 | 16.517.4 | 11.113.0 | 12.312.3 | 14.916.8 |
|  **White  treated % not treated %** | 74.669.9 | 72.871.2 | 74.270.9 | 76.270.7 | 77.171.1 | 75.469.3 | 76.472.1 |
|  **Other  treated % not treated %** | 3.44.0 | 2.83.7 | 2.52.7 | 2.42.6 | 4.24.3 | 4.13.7 | 1.52.8 |
| **Year of diagnosis: 2004  treated % not treated %** | 23.331.3 | 29.726.9 | 33.729.2 | 39.526.7 | 28.426.0 | 23.324.5 | 20.425.4 |
|  **2005  treated % not treated %** | 23.827.8 27.8027.80 | 25.024.4 | 23.123.8 | 21.820.4 | 25.727.1   | 24.023.6 | 30.1824.37   |
|  **2006 treated % not treated %** | 25.322.1 | 22.626.0 | 24.321.5 | 21.427.8 | 24.421.5   | 26.022.4 | 22.922.9 |
|  **2007 treated % not treated %** | 27.618.9 | 22.822.8 | 18.925.7 | 17.425.2 | 21.525.4 | 26.729.5 | 26.627.4 |
| **Stage: In situ  treated % not treated %** | 1.86.9 |   |   |   |   |   |   |
|  **Local  treated % not treated %** | 39.039.4 |   |   |   |   |   |   |
|  **Regional  treated % not treated %** | 45.125.0 |   |   |   |   |   |   |
|  **Distant treated % not treated %** | 13.620.7 |   |   |   |   |   |   |
| **Surgeons per 1000 cancer patients\*** | 6.3 |   |   |   |   | 6.3 |
| **Oncologists per1000 cancer patients\*** |   | 3.7 |   | 3.2 |   |   |
| **Urologists per 1000 cancer patients\*** |   |   |   |   | 2.9 |   |
| **Rad. Oncologists per1000 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. |