**Supplemental Digital Content 8.** Linear regression modelcoefficients for the staging phase\*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Monthly Total Costs | | | | Monthly Patient Liability Costs | | | |
|  | Intercept | Year | Age | Year\*Age | Intercept | Year | Age | Year\_Age |
| ***AJCC Stage*** |  |  |  |  |  |  |  |  |
| **Stage I** |  |  |  |  |  |  |  |  |
| Best supportive care | 6.7857 | NS | 0.0296 | NS | 5.5735 | NS | 0.0186 | NS |
| Chemotherapy | NS | NS | NS | NS | 6.9163 | 0.0545 | NS | NS |
| **Stage II** |  |  |  |  |  |  |  |  |
| Best supportive care | 8.0290 | -0.04246 | -0.0176 | NS | 5.6618 | -0.02858 | 0.0206 | NS |
| Chemotherapy | 9.3739 | -0.0327 | NS | NS | 7.4221 | -0.03149 | NS | NS |
| Chemoradiation | NS | NS | NS | NS | 7.4738 | -0.0243 | NS | NS |
| **Stage III** |  |  |  |  |  |  |  |  |
| Best supportive care | NS | NS | NS | NS | 7.4234 | -0.0559 | NS | NS |
| Chemotherapy | NS | NS | NS | NS | 7.3877 | -0.0453 | NS | NS |
| Chemoradiation | 9.3733 | -0.04218 | NS | NS | 7.4891 | -0.0363 | NS | NS |
| **Stage IV** |  |  |  |  |  |  |  |  |
| Best supportive care | NS | NS | NS | NS | 7.1477 | -0.0282 | NS | NS |
| Chemotherapy | NS | NS | NS | NS | 7.2495 | -0.0230 | NS | NS |
| Chemoradiation | 9.2719 | -0.0318 | NS | NS | 7.3909 | -0.0287 | NS | NS |
|  |  |  |  |  |  |  |  |  |
| ***Historic Stage*** |  |  |  |  |  |  |  |  |
| **Local** |  |  |  |  |  |  |  |  |
| Best supportive care | 6.7857 | NS | 0.02959 | NS | 5.5735 | NS | 0.01865 | NS |
| Chemotherapy | NS | NS | NS | NS | 6.6163 | 0.0545 | NS | NS |
| **Regional** |  |  |  |  |  |  |  |  |
| Best supportive care | 8.2102 | -0.0509 | 0.0155 | NS | 5.8085 | -0.0351 | NS | NS |
| Chemotherapy | 9.3467 | -0.0385 | NS | NS | 7.4267 | -0.0357 | NS | NS |
| Chemoradiation | 9.3630 | -0.0287 | NS | NS | 7.4797 | -0.0295 | NS | NS |
| **Distant** |  |  |  |  |  |  |  |  |
| Best supportive care | NS | NS | NS | NS | 6.3151 | -0.0278 | 0.0113 | NS |
| Chemotherapy | NS | NS | NS | NS | 7.2616 | -0.0260 | NS | NS |
| Chemoradiation | 9.2843 | -0.0325 | NS | NS | 7.4036 | -0.02936 | NS | NS |

**\***Treatment/stage subgroups not shown if there were no significant predictors in any model or if less than 10% of patients within a stage received that treatment. For example, there were no significant predictors for the total costs and patient liability cost models for the stage I radiation staging phase.

NS=Coefficient not significant.

**Supplemental Digital Content 9.** Linear regression modelcoefficients for the initial and continuing phases (AJCC Stage)\*

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Monthly Total Costs | | | | Monthly Cancer Attributable Costs | | | | Monthly Patient Liability Costs | | | |
|  | Intercept | Year | Age | Year\_Age | Intercept | Year | Age | Year\_Age | Intercept | Year | Age | Year\_Age |
| ***Initial Phase*** |  |  |  |  |  |  |  |  |  |  |  |  |
| **Stage I** |  |  |  |  |  |  |  |  |  |  |  |  |
| Best supportive care | NS | NS | NS | NS | 5.2401 | NS | 0.0354 | NS | NS | NS | NS | NS |
| Chemoradiation | 9.9949 | 0.0462 | -0.0158 | NS | 8.5631 | 0.0583 | NS | NS | 7.0553 | 0.0299 | NS | NS |
| Surgery, chemo, and radiation | 8.3610 | 0.0456 | NS | NS | 8.0867 | 0.0590 | NS | NS | NS | NS | NS | NS |
| **Stage II** |  |  |  |  |  |  |  |  |  |  |  |  |
| Best supportive care | NS | NS | NS | NS | NS | NS | NS | NS | 6.6957 | -0.0192 | NS | NS |
| Chemoradiation | 8.8871 | 0.0340 | NS | NS | 9.5557 | 0.0427 | -0.0116 | NS | 7.1898 | 0.0129 | NS | NS |
| Surgery, chemo, and radiation | 8.5216 | 0.0374 | NS | NS | 9.2579 | 0.04792 | -0.0134 | NS | 7.6799 | 0.0132 | -0.0095 | NS |
| **Stage III** |  |  |  |  |  |  |  |  |  |  |  |  |
| Radiation | NS | NS | NS | NS | 11.0886 | NS | -0.0314 | NS | 9.3461 | NS | -0.0353 | NS |
| Chemoradiation | 8.9058 | 0.0333 | NS | NS | 8.6490 | 0.0488 | NS | NS | 7.1618 | 0.0222 | NS | NS |
| **Stage IV** |  |  |  |  |  |  |  |  |  |  |  |  |
| Best supportive care | NS | NS | NS | NS | NS | NS | NS | NS | 7.4475 | NS | -0.0269 | NS |
| Chemotherapy | 8.8240 | 0.01745 | NS | NS | 9.4680 | 0.0345 | -0.0117 | NS | 6.2044 | 0.2543 | 0.0109 | -0.0033 |
| Chemoradiation | 9.8870 | NS | -0.0116 | NS | 10.4356 | NS | -0.0210 | NS | 7.7444 | NS | -0.0079 | NS |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| ***Continuing Phase*** |  |  |  |  |  |  |  |  |  |  |  |  |
| **Stage I** |  |  |  |  |  |  |  |  |  |  |  |  |
| Best supportive care | NS | NS | NS | NS | NS | NS | NS | NS | -1.1626 | 0.9341 | 0.0887 | -0.0129 |
| Surgery | 11.3654 | -0.7311 | -0.0568 | 0.0096 | NS | NS | NS | NS | 11.3061 | -0.8525 | -0.0771 | 0.0109 |
| Chemoradiation | 7.8812 | 0.0726 | NS | NS | 7.9467 | 0.0658 | NS | NS | 9.0693 | 0.0835 | -0.0439 | NS |
| **Stage II** |  |  |  |  |  |  |  |  |  |  |  |  |
| Surgery | 9.1979 | NS | -0.0258 | NS | 5.1466 | 0.6244 | 0.0332 | -0.0089 | 5.4113 | 0.3742 | 0.0021 | -0.0050 |
| Surgery and chemotherapy | 3.5214 | 0.5990 | 0.0616 | -0.0085 | 3.7285 | 0.6998 | 0.0564 | -0.0098 | 6.337 | -0.0333 | NS | NS |
| Chemoradiation | 9.1979 | NS | -0.0258 | NS | 7.9281 | 0.0531 | NS | NS | 7.4749 | 0.0556 | -0.0182 | NS |
| Surgery, chemo, and radiation | 4.564 | 0.5720 | 0.0437 | -0.0078 | 4.4421 | 0.4905 | 0.0447 | -0.0069 | 5.4276 | 0.2965 | 0.0076 | -0.0041 |
| **Stage III** |  |  |  |  |  |  |  |  |  |  |  |  |
| Best supportive care | NS | NS | NS | NS | 1.8752 | NS | 0.0805 | NS | NS | NS | NS | NS |
| Chemoradiation | 10.1559 | NS | -0.0242 | NS | 10.4024 | NS | -0.0293 | NS | 9.0389 | NS | -0.0358 | NS |
| **Stage IV** |  |  |  |  |  |  |  |  |  |  |  |  |
| Chemotherapy | 8.4092 | 0.0317 | NS | NS | 6.8581 | 0.4683 | 0.0225 | -0.0063 | NS | NS | NS | NS |
| Chemoradiation | 9.7068 | NS | -0.0138 | NS | 9.9539 | NS | -0.0193 | NS | 7.8484 | NS | -0.0138 | NS |

**\***Treatment/stage subgroups not shown if there were no significant predictors in any model or if less than 10% of patients within a stage received that treatment. For example, there were no significant predictors for the total costs, cancer-attributable costs, and patient liability cost models for the stage I surgery initial phase.

NS=Coefficient not significant.

**Supplemental Digital Content 10.** Linear regression modelcoefficients for the initial and continuing phases (Historic Stage)\*

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Monthly Total Costs | | | | Monthly Cancer Attributable Costs | | | | Monthly Patient Liability Costs | | | |
|  | Intercept | Year | Age | Year\_Age | Intercept | Year | Age | Year\_Age | Intercept | Year | Age | Year\_Age |
| ***Initial Phase*** |  |  |  |  |  |  |  |  |  |  |  |  |
| **Local** |  |  |  |  |  |  |  |  |  |  |  |  |
| Best supportive care | NS | NS | NS | NS | 5.2401 | NS | 0.0354 | NS | NS | NS | NS | NS |
| Chemoradiation | 9.9949 | 0.0462 | -0.0158 | NS | 8.5631 | 0.0583 | NS | NS | 7.0553 | 0.0299 | NS | NS |
| Surgery, chemo, and radiation | 8.3610 | 0.0456 | NS | NS | 8.0867 | 0.0590 | NS | NS | NS | NS | NS | NS |
| **Regional** |  |  |  |  |  |  |  |  |  |  |  |  |
| Best supportive care | NS | NS | NS | NS | NS | NS | NS | NS | 6.8835 | NS | -0.0218 | NS |
| Chemoradiation | 8.8717 | 0.0358 | NS | NS | 7.8687 | 0.2402 | 0.0126 | -0.0028 | 7.1767 | 0.0168 | NS | NS |
| Surgery, chemo, and radiation | 8.5193 | 0.0369 | NS | NS | 9.1596 | 0.0352 | -0.0100 | NS | 7.5892 | 0.0131 | -0.0084 | NS |
| **Distant** |  |  |  |  |  |  |  |  |  |  |  |  |
| Chemotherapy | 8.4009 | 0.2223 | 0.0056 | -0.0028 | 9.3899 | 0.0219 | -0.0091 | NS | 6.3428 | 0.2036 | 0.0093 | -0.0027 |
| Chemoradiation | 9.7974 | NS | -0.0102 | NS | 10.0337 | NS | -0.0144 | NS | 7.7529 | NS | -0.0079 | NS |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| ***Continuing Phase*** |  |  |  |  |  |  |  |  |  |  |  |  |
| **Local** |  |  |  |  |  |  |  |  |  |  |  |  |
| Best supportive care | NS | NS | NS | NS | NS | NS | NS | NS | -1.1626 | 0.9341 | 0.0887 | -0.0129 |
| Chemoradiation | 11.3654 | -0.7311 | -0.0568 | 0.0096 | NS | NS | NS | NS | 11.3061 | -0.8525 | -0.0771 | 0.0109 |
| Surgery, chemo, and radiation | 7.8812 | 0.0726 | NS | NS | 7.9467 | 0.0658 | NS | NS | 9.0693 | 0.0835 | -0.0439 | NS |
| **Regional** |  |  |  |  |  |  |  |  |  |  |  |  |
| Surgery | 6.5114 | 0.6310 | 0.0128 | -0.0083 | 6.1897 | 0.7490 | 0.01720 | -0.0102 | 7.8700 | NS | -0.0307 | NS |
| Chemoradiation | 8.0322 | 0.0543 | NS | NS | 9.5156 | 0.0446 | -0.0198 | NS | 7.6283 | 0.0408 | -0.0190 | NS |
| Surgery, chemo, and radiation | 5.3574 | 0.4574 | 0.0335 | -0.0061 | 5.2544 | 0.4640 | 0.0334 | -0.0063 | NS | NS | NS | NS |
| **Distant** |  |  |  |  |  |  |  |  |  |  |  |  |
| Chemotherapy | 6.9814 | 0.3985 | 0.0195 | -0.0050 | NS | NS | NS | NS | 6.5451 | 0.0338 | NS | NS |
| Chemoradiation | 9.5706 | NS | -0.0116 | NS | 9.6289 | NS | -0.0133 | NS | 8.2017 | NS | -0.0189 | NS |

**\***Treatment/stage subgroups not shown if there were no significant predictors in any model or if less than 10% of patients within a stage received that treatment. For example, there were no significant predictors for the total costs, cancer-attributable costs, and patient liability cost models for the local surgery initial phase.

NS=Coefficient not significant.

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**Supplemental Digital Content 11.** Linear regression modelcoefficients for the terminal phase\*

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Monthly Total Costs | | | | Monthly Cancer Attributable Costs | | | | Monthly Patient Liability Costs | | | |
|  | Intercept | Year | Age | Year\_Age | Intercept | Year | Age | Year\_Age | Intercept | Year | Age | Year\_Age |
| ***AJCC Stage*** |  |  |  |  |  |  |  |  |  |  |  |  |
| **Stage I** |  |  |  |  |  |  |  |  |  |  |  |  |
| Best supportive care | 10.7143 | NS | -0.0244 | NS | 11.1321 | NS | -0.0286 | NS | 8.1492 | NS | -0.0264 | NS |
| Radiation | 10.7893 | NS | -0.0264 | NS | 11.3126 | NS | -0.0317 | NS | NS | NS | NS | NS |
| Chemoradiation | 13.5545 | -0.5170 | -0.0649 | 0.0075 | 15.6504 | -0.5858 | -0.0894 | 0.0079 | 14.534 | -0.9168 | -0.1096 | 0.0127 |
| **Stage II** |  |  |  |  |  |  |  |  |  |  |  |  |
| Best supportive care | 7.7448 | NS | 0.0129 | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| Surgery | NS | NS | NS | NS | NS | NS | NS | NS | 7.8566 | NS | -0.0194 | NS |
| Chemoradiation | 8.9188 | 0.0248 | NS | NS | 9.8600 | 0.0445 | -0.0149 | NS | 6.5024 | 0.0297 | NS | NS |
| Surgery, chemo, and radiation | 10.039 | NS | -0.01350 | NS | 10.1991 | 0.0295 | -0.0194 | NS | NS | NS | NS | NS |
| **Stage III** |  |  |  |  |  |  |  |  |  |  |  |  |
| Radiation | 11.4895 | NS | -0.0311 | NS | 11.6890 | NS | -0.0333 | NS | 9.2022 | NS | -0.0352 | NS |
| Chemotherapy | NS | NS | NS | NS | 11.3784 | NS | -0.0338 | NS | 8.8180 | NS | -0.0316 | NS |
| Chemoradiation | NS | NS | NS | NS | NS | NS | NS | NS | 8.2317 | NS | -0.0222 | NS |
| **Stage IV** |  |  |  |  |  |  |  |  |  |  |  |  |
| Radiation | 10.3641 | NS | -0.0125 | NS | 10.5532 | NS | -0.0158 | NS | 8.1346 | NS | -0.0169 | NS |
| Chemotherapy | 9.1644 | 0.0154 | NS | NS | 9.5859 | -0.0178 | -0.0068 | NS | 7.5261 | NS | -0.0083 | NS |
| Chemoradiation | NS | NS | NS | NS | NS | NS | NS | NS | 7.5044 | NS | -0.0076 | NS |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| ***Historic Stage*** |  |  |  |  |  |  |  |  |  |  |  |  |
| **Local** |  |  |  |  |  |  |  |  |  |  |  |  |
| Best supportive care | 10.7143 | NS | -0.0244 | NS | 11.1321 | NS | -0.0286 | NS | 8.1492 | NS | -0.0264 | NS |
| Radiation | 10.7893 | NS | -0.0264 | NS | 11.3126 | NS | -0.0317 | NS | NS | NS | NS | NS |
| Chemoradiation | 13.5545 | -0.5170 | -0.0649 | 0.0075 | 15.6504 | -0.5858 | -0.0894 | 0.0079 | 14.534 | -0.9168 | -0.1096 | 0.0127 |
| **Regional** |  |  |  |  |  |  |  |  |  |  |  |  |
| Best supportive care | 7.8366 | NS | 0.0119 | NS | 7.8738 | NS | 0.0115 | NS | NS | NS | NS | NS |
| Surgery | NS | NS | NS | NS | NS | NS | NS | NS | 7.9859 | NS | -0.0210 | NS |
| Chemoradiation | 8.9274 | 0.0193 | NS | NS | 8.9161 | 0.0170 | NS | NS | 6.5004 | 0.0196 | NS | NS |
| Surgery, chemo, and radiation | 10.0316 | 0.0215 | -0.0149 | NS | 10.1529 | 0.0203 | -0.0175 | NS | NS | NS | NS | NS |
| **Distant** |  |  |  |  |  |  |  |  |  |  |  |  |
| Best supportive care | NS | NS | NS | NS | NS | NS | NS | NS | 6.7202 | -0.0145 | NS | NS |
| Radiation | 10.2392 | NS | -0.0110 | NS | 10.4227 | NS | -0.0140 | NS | 7.9600 | NS | -0.0148 | NS |
| Chemotherapy | 9.1577 | 0.0131 | NS | NS | 9.7877 | 0.0133 | -0.0092 | NS | 7.5382 | NS | -0.0088 | NS |
| Chemoradiation | 9.1641 | 0.0146 | NS | NS | 9.7000 | NS | -0.0062 | NS | 7.5705 | NS | -0.0086 | NS |

**\***Treatment/stage subgroups not shown if there were no significant predictors in any model or if less than 10% of patients within a stage received that treatment. For example, there were no significant predictors for the total costs, cancer-attributable costs, and patient liability cost models for the stage I surgery terminal phase.

NS=Coefficient not significant.