

Supplementary Table S1. Univariate and multivariable analyses of factors affecting distant control.

| | Univariate analysis | | Multivariable analysis | |
|------------------|---------------------|---------|------------------------|---------|
| | HR (95% CI) | p-value | HR (95% CI) | p-value |
| Age | 0.972 (0.944-1.002) | .068 | 0.983 (0.951-1.017) | .333 |
| Race | 0.895 (0.364-2.198) | .809 | Not included | |
| Sex | 0.764 (0.289-2.019) | .587 | Not included | |
| Primary site | 1.015 (0.905-1.138) | .802 | Not included | |
| T-stage | 0.988 (0.606-1.610) | .962 | Not included | |
| N-stage | 1.416 (0.930-2.155) | .105 | 1.421 (0.905-2.231) | .127 |
| M-stage | 2.032 (0.941-4.388) | .071 | 1.645 (0.708-3.820) | .247 |
| Smoking | 1.563 (0.862-2.835) | .142 | 1.552 (0.808-2.979) | .187 |
| ECOG PS ≥ 2 | 0.923 (0.401-2.123) | .850 | Not included | |
| Surgery | 1.355 (0.617-2.975) | .449 | Not included | |
| Prior ST | 1.549 (0.676-3.546) | .301 | Not included | |
| Conc QS+ICI | 1.208 (0.560-2.608) | .630 | Not included | |
| Prior RT | 1.030 (0.484-2.192) | .939 | Not included | |
| Adjuvant ICI | 1.509 (0.660-3.448) | .329 | Not included | |
| No. of QS cycles | 0.523 (0.206-1.329) | .173 | 0.671 (0.257-1.755) | .416 |

Abbreviations: HR = hazard ratio; CI = confidence intervals; ECOG PS = Eastern Cooperative Oncology Group performance status; ST = systemic therapy; conc = concurrent; QS = 'Quad Shot'; ICI = immune checkpoint inhibitor; RT = radiation therapy.

Supplementary Table S2. Univariate and multivariable analyses of factors affecting overall survival.

| | Univariate analysis | | Multivariable analysis | |
|------------------|---------------------|---------|------------------------|---------|
| | HR (95% CI) | p-value | HR (95% CI) | p-value |
| Age | 0.990 (0.970-1.011) | .359 | Not included | |
| Race | 1.152 (0.619-2.144) | .655 | Not included | |
| Sex | 0.950 (0.489-1.847) | .880 | Not included | |
| Primary site | 0.903 (0.829-0.984) | .020* | 0.925 (0.843-1.014) | .097 |
| T-stage | 0.919 (0.672-1.258) | .599 | Not included | |
| N-stage | 1.014 (0.773-1.331) | .920 | Not included | |
| M-stage | 0.563 (0.283-1.121) | .102 | 0.833 (0.398-1.746) | .629 |
| Smoking | 1.495 (1.004-2.226) | .048* | 1.342 (0.882-2.040) | .170 |
| ECOG PS \geq 2 | 2.198 (1.252-3.856) | .006* | 1.844 (1.020-3.334) | .043* |
| Surgery | 1.417 (0.815-2.462) | .217 | Not included | |
| Prior ST | 0.980 (0.569-1.686) | .941 | Not included | |
| Conc QS+ICI | 1.053 (0.615-1.805) | .850 | Not included | |
| Prior RT | 0.892 (0.526-1.515) | .673 | Not included | |
| Adjuvant ICI | 0.865 (0.499-1.501) | .607 | Not included | |
| No. of QS cycles | 0.937 (0.548-1.603) | .813 | Not included | |

Abbreviations: HR = hazard ratio; CI = confidence intervals; ECOG PS = Eastern Cooperative Oncology Group performance status; ST = systemic therapy; conc = concurrent; QS = 'Quad Shot'; ICI = immune checkpoint inhibitor; RT = radiation therapy.

* Considered statistically significant based on *P*-value <.050.