Supplementary Table 1. Multivariable Cox regression analysis for factors affecting overall and cancer-specific survival among patients with typical carcinoid histology.

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| --- | --- | --- |
| Parameters | Overall survival  | Cancer-specific survival  |
| HR (95% CI) | HR (95% CI) |
| Age  | 1.055 (1.050-1.059) | 1.038 (1.032-1.044) |
| Race White  Black  Asian/ Pacific Islander American Indian  | Reference1.20 (1.03-1.39)0.82 (0.61-1.11)0.56 90.23-1.34) | Reference 1.11 (0.88-1.41)1.15 (0.76-1.74)0.92 (0.30-2.86) |
| SEER summary stage  Localized Distant  Regional  | Reference1.97 (1.77-2.20)1.40 (1.25-1.57) | Reference4.21 (3.56-4.98)2.17(1.80-2.60) |
| Sex Females  Males  | Reference1.69 (1.55- 1.85) | Reference2.09 (1.82-2.40) |
| Surgery to the primary tumor Lobectomy None Sub lobar resection Pneumonectomy  | Reference2.97 (2.65-3.32)1.28 (1.14-1.44)1.80 (1.33-2.44) | Reference3.67 (3.04-4.42)0.98 (0.80-1.25)2.29 (1.49-3.51) |

Supplementary Table 2. Multivariable Cox regression analysis for factors affecting overall and cancer-specific survival among patients with atypical histology.

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| Parameters | Overall survival  | Cancer-specific survival  |
| HR (95% CI) | HR (95% CI) |
| Age  | 1.035 (1.026-1.044) | 1.031 (1.021-1.042) |
| Race White  Black  Asian/ Pacific Islander American Indian  | Reference1.30 (0.97-1.74)1.10 (0.65-1.85)1.35 (0.19-9.68) | Reference 1.25 (0.88-1.78)1.14 (0.62-2.11)2.54 (0.35-18.42) |
| SEER summary stage  Localized Distant  Regional  | Reference2.69 (2.05-3.54)1.51 (1.17-1.96) | Reference3.87 (2.74-5.45)2.06 (1.49-3.70) |
| Sex Females  Males  | Reference1.13 (0.92-1.38) | Reference1.10 (0.87-1.40) |
| Surgery to the primary tumor Lobectomy None Sub lobar resection Pneumonectomy  | Reference4.00 (3.08-5.20)1.11 (0.81-1.52)1.90 (1.13-3.22) | Reference4.40 (3.20-6.03)1.16 (0.78-1.73)2.00 (1.08-3.70) |