### Table S1: Univariate and multivariate analyses of cancer-specific survival

| Variables | Univariate analysis | Multivariate analysis |
|-----------|---------------------|-----------------------|
|           | HR (95% CI)         | P value               | HR (95% CI) | P value               |
| Age       |                     |                       |             |                       |
| ≤44 years | Ref                 | 0.438                 | NI          |                       |
| 44–69 years | 1.30 (0.76, 2.23)  | 0.338                 |             |                       |
| ≥69 years | 1.06 (0.59, 1.90)   | 0.845                 |             |                       |
| Sex       |                     |                       |             |                       |
| Male      | Ref                 | 0.025                 | 0.264       |                       |
| Female    | 0.68 (0.48, 0.95)   | 0.025                 | 0.82 (0.57, 1.17) | 0.264 |
| Race      |                     |                       |             |                       |
| White     | Ref                 | 0.783                 | NI          |                       |
| Other     | 1.06 (0.72, 1.60)   | 0.783                 |             |                       |
| Marital status |           | 0.423                 | NI          |                       |
| Single    | Ref                 | 0.423                 |             |                       |
| Married   | 0.87 (0.62, 1.22)   | 0.423                 |             |                       |
| Stage     |                     |                       |             |                       |
| Localized | <0.001              | 0.041                 |             |                       |
| Regional  | 0.19 (0.07, 0.49)   | 0.001                 | 0.27 (0.09, 0.81) | 0.019 |
| Distant   | 2.67 (1.67, 4.28)   | <0.001                | 1.50 (0.72, 3.13) | 0.276 |
| Grade     |                     |                       |             |                       |
| Well      | 0.34 (0.15, 0.78)   | 0.011                 | 0.40 (0.16, 0.96) | 0.040 |
| Moderately| 0.35 (0.19, 0.65)   | 0.001                 | 0.50 (0.24, 1.06) | 0.070 |
| Poorly    | Ref                 | 0.423                 | NI          |                       |
| Undifferentiated | 0.50 (0.27, 0.93) | 0.029                 | 0.88 (0.44, 1.77) | 0.729 |
| Laterality| 0.528               |                       |             |                       |
| Left      | Ref                 | 0.528                 |             |                       |
| Right     | 0.90 (0.64, 1.26)   | 0.449                 | NI          |                       |
| Primary Site |               | 0.449                 |             |                       |
| Main Bronchus |           | Ref                 | 0.935         |                       |
| Upper lobe, lung | 1.03 (0.56, 1.88) | 0.333         | 0.935         |                       |
| Middle lobe, lung | 0.70 (0.29, 1.70) | 0.433         | 0.935         |                       |
| Lower lobe, lung | 0.70 (0.37, 1.36) | 0.299         | 0.935         |                       |
| Overlapping lesion of lung | 0.70 (0.28, 1.75) | 0.442         | 0.935         |                       |
| T         |                     |                       |             |                       |
| ≤2.7 cm  | <0.001              | 0.004                 |             |                       |
| 2.7–4.8 cm | 1.78 (0.85, 3.73)  | 0.129                 | 1.15 (0.46, 2.87) | 0.785 |
| ≥4.8 cm  | 4.30 (2.06, 8.97)   | <0.001                | 3.19 (1.37, 7.41) | 0.007 |
| N         |                     |                       |             |                       |
| N0        | Ref                 | <0.001                | 1.48 (0.78, 2.79) | 0.233 |
| N+        | 2.84 (1.65, 4.90)   | <0.001                | 1.48 (0.78, 2.79) | 0.233 |
| M         |                     |                       |             |                       |
| M0        | Ref                 | <0.001                | 2.39 (1.05, 5.45) | 0.039 |
| M1        | 3.69 (2.32, 5.84)   | <0.001                | 2.39 (1.05, 5.45) | 0.039 |
| Surgery   |                     |                       |             |                       |
| No        | Ref                 | <0.001                | <0.001       |                       |
| Yes       | 0.25 (0.17, 0.37)   | <0.001                | 0.36 (0.23, 0.55) | <0.001 |
| Radiation |                     |                       |             |                       |
| No        | Ref                 | <0.001                | 0.36 (0.23, 0.55) | <0.001 |
| Yes       | 2.32 (1.63, 3.31)   | <0.001                | 1.53 (1.04, 2.27) | 0.033 |
| Chemotherapy |       | 0.002                 | 0.237         |                       |
| No        | Ref                 | 0.002                 | 0.237         |                       |
| Yes       | 1.79 (1.24, 2.58)   | 0.002                 | 1.27 (0.85, 1.90) | 0.237 |

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Figure S1 ROC curves for (A) 3-, (B) 5-, (C) 10-year cancer-specific survival of the nomogram.

Figure S2 The calibration plots for (A) 3-, (B) 5-, (C) 10-year overall survival in training cohort.

Figure S3 The calibration plots for (A) 3-, (B) 5-, (C) 10-year overall survival in validation cohort.