

**Table 2 Multivariate CPH analysis of factors associated with all-cause mortality**

| Clinical Characteristics                                | Overall survival (OS) |              |                     |             |
|---------------------------------------------------------|-----------------------|--------------|---------------------|-------------|
|                                                         | Hazard Ratio          | P value      | Confidence interval |             |
|                                                         |                       |              | lower 95%CI         | upper 95%CI |
|                                                         |                       |              |                     |             |
| <b>Age group</b>                                        |                       |              |                     |             |
| < 10 years                                              | References            |              |                     |             |
| 10-19 years                                             | 0.20                  | <b>0.002</b> | 0.07                | 0.55        |
| 20-39 years                                             | 0.39                  | <b>0.012</b> | 0.18                | 0.81        |
| ≥ 40 years                                              | 0.31                  | <b>0.021</b> | 0.11                | 0.84        |
|                                                         |                       |              |                     |             |
| <b>Gender</b>                                           |                       |              |                     |             |
| Male                                                    | References            |              |                     |             |
| Female                                                  | 1.20                  | 0.535        | 0.68                | 2.13        |
|                                                         |                       |              |                     |             |
| <b>Race</b>                                             |                       |              |                     |             |
| White                                                   | References            |              |                     |             |
| Black                                                   | 0.96                  | 0.930        | 0.43                | 2.16        |
| Asian or Pacific Islander/American Indian/Alaska Native | 0.81                  | 0.660        | 0.31                | 2.11        |
|                                                         |                       |              |                     |             |
| <b>Tumor Size</b>                                       |                       |              |                     |             |
| < 3cm                                                   | References            |              |                     |             |
| ≥ 3cm                                                   | 0.81                  | 0.575        | 0.39                | 1.68        |
| Unknown                                                 | 1.08                  | 0.825        | 0.55                | 2.12        |
|                                                         |                       |              |                     |             |
| <b>Tumor Extension</b>                                  |                       |              |                     |             |
| Localized                                               | References            |              |                     |             |
| Regional                                                | 0.95                  | 0.904        | 0.42                | 2.16        |
| Distant                                                 | 3.00                  | <b>0.004</b> | 1.41                | 6.40        |
| Unknown                                                 | 1.56                  | 0.430        | 0.51                | 4.76        |
|                                                         |                       |              |                     |             |
| <b>Months from diagnosis to treatment</b>               |                       |              |                     |             |
| < 1 month                                               | References            |              |                     |             |
| ≥ 1 month                                               | 0.90                  | 0.736        | 0.47                | 1.70        |
| Unknown                                                 | 0.23                  | 0.190        | 0.03                | 2.06        |
|                                                         |                       |              |                     |             |
| <b>Surgery</b>                                          |                       |              |                     |             |
| No surgery                                              | References            |              |                     |             |
| Local tumor destruction                                 | 0.91                  | 0.847        | 0.34                | 2.45        |
| PTR/STR                                                 | 0.71                  | 0.546        | 0.23                | 2.16        |
| GTR                                                     | 0.80                  | 0.694        | 0.27                | 2.39        |
| Surgery, NOS                                            | 2.19                  | 0.309        | 0.48                | 9.89        |
|                                                         |                       |              |                     |             |
| <b>Radiotherapy</b>                                     |                       |              |                     |             |
| No                                                      | References            |              |                     |             |
| Radiotherapy after surgery                              | 0.55                  | 0.149        | 0.25                | 1.23        |
| Others                                                  | 0.08                  | 0.006        | 0.01                | 0.48        |
|                                                         |                       |              |                     |             |
| <b>Chemotherapy</b>                                     |                       |              |                     |             |
| No                                                      | References            |              |                     |             |
| Yes                                                     | 0.46                  | 0.026        | 0.23                | 0.91        |