**Supplementary Table 3.** Univariate and multivariate analysis of overall survival and recurrence in patients with superficial esophageal squamous cell carcinoma.

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| --- | --- | --- |
|  | **Overall survival** | **Recurrence** |
| **Univariate** | **Multivariate** | **Univariate** | **Multivariate** |
| **HR (95% CI)** | ***P*** | **HR (95% CI)** | ***P*** | **HR (95% CI)** | ***P*** | **HR (95% CI)** | ***P*** |
| **Age, years** |  |  |  |  |  |  |  |  |
|  **< 60** | 1 (Reference) |  |  |  | 1 (Reference) |  |  |  |
|  **< 70** | 0.588 (0.147-2.350) | 0.452 |  |  | 1.852 (0.597-5.743) | 0.286 |  |  |
|  **≥ 70** | 1.175 (0.353-3.911) | 0.793 |  |  | 0.830 (0.253-2.721) | 0.759 |  |  |
| **Sex** |  |  |  |  |  |  |  |  |
|  Male | 1 (Reference) |  |  |  | 1 (Reference) |  |  |  |
|  Female | 1.138 (0.258-5.010) | 0.865 |  |  | 1.746 (0.501-6.080) | 0.381 |  |  |
| **Charlson comorbidity index** |  |  |  |  |  |  |  |  |
| 0 | 1 (Reference) |  | 1 (Reference) |  | 1 (Reference) |  |  |  |
| 1 | 0.579 (0.125-2.682) | 0.485 | 0.472 (0.100-2.221) | 0.342 | 0.870 (0.280-2.699) | 0.809 |  |  |
| ≥2 | 3.157 (1.057-9.430) | 0.039 | 4.068 (1.323-12.51) | 0.014 | 0.479 (0.062-3.690) | 0.480 |  |  |
| **Tumor location** |  |  |  |  |  |  |  |  |
| Upper-Middle | 1 (Reference) |  |  |  | 1 (Reference) |  |  |  |
| Lower | 0.882 (0.328-2.370) | 0.804 |  |  | 0.597 (0.230-1.549) | 0.289 |  |  |
| **Tumor size** |  |  |  |  |  |  |  |  |
|  **< 3cm** | 1 (Reference) |  |  |  | 1 (Reference) |  |  |  |
|  **≥ 3cm** | 2.131 (0.774-5.868) | 0.143 |  |  | 2.547 (0.969-6.691) | 0.058 |  |  |
| **Differentiation** |  |  |  |  |  |  |  |  |
| G1 (Well differentiated) | 1 (Reference) |  |  |  | 1 (Reference) |  |  |  |
| G2 (Moderately differentiated) | 1.953 (0.667-5.719) | 0.222 |  |  | 2.860 (0.910-8.983) | 0.072 |  |  |
| G3 (Poorly differentiated) | 2.334 (0.272-20.01) | 0.440 |  |  | 6.965 (1.273-38.10) | 0.025 |  |  |
| **Depth of invasion** |  |  |  |  |  |  |  |  |
| Tis-T1a | 1 (Reference) |  |  |  | 1 (Reference) |  | 1 (Reference) |  |
| T1b | 1.928 (0.722-5.150) | 0.190 |  |  | 6.283 (2.048-19.27) | 0.001 | 5.808 (1.880-17.94) | 0.002 |
| **Lymphovascular invasion** |  |  |  |  |  |  |  |  |
|  Negative | 1 (Reference) |  | 1 (Reference) |  | 1 (Reference) |  |  |  |
|  Positive | 2.390 (0.771-7.412) | 0.131 | 3.613 (1.100-11.86) | 0.034 | 4.092 (1.513-11.06) | 0.006 |  |  |
| **Resection margin** |  |  |  |  |  |  |  |  |
|  Negative | 1 (Reference) |  |  |  | 1 (Reference) |  | 1 (Reference) |  |
|  Positive | 0.672 (0.089-5.088) | 0.700 |  |  | 3.472 (1.129-10.67) | 0.030 | 2.656 (0.857-8.227) | 0.090 |
| **Adjuvant therapy** |  |  |  |  |  |  |  |  |
|  No | 1 (Reference) |  |  |  | 1 (Reference) |  |  |  |
|  Yes | 0.548 (0.072-4.153) | 0.560 |  |  | 2.128 (0.611-7.409) | 0.235 |  |  |
| **Treatment modality** |  |  |  |  |  |  |  |  |
| Surgery | 1 (Reference) |  | 1 (Reference) |  | 1 (Reference) |  |  |  |
| ESD | 0.365 (0.104-1.283) | 0.116 | 0.288 (0.080-1.031) | 0.056 | 0.481 (0.157-1.477) | 0.201 |  |  |

CI, confidence interval; ESD, endoscopic submucosal dissection; HR, hazard ratio