**Supplementary materials:**

**Supplementary Figures and tables:**



Supplementary Figure 1: Figures showing the results of Schoenfeld test to check the validity of the proportional hazard assumption model.

Supplementary Table 1: The goodness-of-fit test purposed by Schoenfeld was used to check whether the proportional hazard assumption was valid.

|  |  |  |  |
| --- | --- | --- | --- |
| **Factors** | **chi square** | **df** | **P-value** |
| Age | 0.8072 | 1 | 0.369 |
| Gender  | 3.5232 | 1 | 0.061 |
| N-stage | 2.8809 | 1 | 0.090 |
| T-stage | 0.1630 | 1 | 0.686 |
| M-stage | 0.6695 | 1 | 0.413 |
| Grade | 0.0227 | 1 | 0.880 |
| Risk-score | 0.0854 | 1 | 0.770 |
| Global | 6.7192 | 7 | 0.459 |