|  |  |  |  |
| --- | --- | --- | --- |
|  | Train | Test | Whole |
|  | HR(95%CI) | P value | HR(95%CI) | P value | HR(95%CI) | P value |
| Mets subdivision |  |  |  |  |  |
| MA | Ref |  | Ref |  | Ref |  |
| MB | 1.248(1.133-1.374) | < 0.001 | 1.203(1.094-1.323) | < 0.001 | 1.226(1.146-1.312) | < 0.001 |
| MC | 1.892(1.685-2.124) | < 0.001 | 1.815(1.612-2.044) | < 0.001 | 1.856(1.709-2.016) | < 0.001 |
| Age |  |  |  |  |  |  |
| <=74 | Ref |  | Ref |  | Ref |  |
| >74 | 1.093(1.006-1.188) | 0.036 | 1.145(1.053-1.244) | 0.001 | 1.118(1.054-1.185) | < 0.001 |
| Race |  |  |  |  |  |  |
| Black | Ref |  | Ref |  | Ref |  |
| White | 1.083(0.94-1.247) | 0.271 | 0.932(0.81-1.074) | 0.33 | 1.005(0.91-1.11) | 0.927 |
| Others | 0.777(0.643-0.938) | 0.009 | 0.784(0.655-0.939) | 0.008 | 0.785(0.69-0.894) | < 0.001 |
| Sex |  |  |  |  |  |  |
| Male | Ref |  | Ref |  | Ref |  |
| Female | 0.869(0.8-0.943) | < 0.001 | 0.85(0.784-0.923) | < 0.001 | 0.862(0.813-0.913) | < 0.001 |
| AJCC.T |  |  |  |  |  |  |
| T1 | Ref |  | Ref |  | Ref |  |
| T2 | 1.185(1.018-1.379) | 0.029 | 1.173(1.011-1.36) | 0.035 | 1.183(1.065-1.315) | 0.002 |
| T3 | 1.353(1.155-1.585) | < 0.001 | 1.367(1.171-1.595) | < 0.001 | 1.36(1.218-1.518) | < 0.001 |
| T4 | 1.236(1.058-1.444) | 0.008 | 1.28(1.101-1.488) | 0.001 | 1.261(1.132-1.404) | < 0.001 |
| Tx | 1.187(0.991-1.423) | 0.063 | 1.146(0.958-1.371) | 0.137 | 1.167(1.028-1.325) | 0.017 |
| AJCC.N |  |  |  |  |  |  |
| N0 | Ref |  | Ref |  | Ref |  |
| N1 | 1.013(0.855-1.2) | 0.882 | 1.07(0.913-1.255) | 0.401 | 1.048(0.934-1.177) | 0.424 |
| N2 | 1.187(1.065-1.322) | 0.002 | 1.228(1.106-1.364) | < 0.001 | 1.205(1.118-1.299) | < 0.001 |
| N3 | 1.279(1.118-1.465) | < 0.001 | 1.332(1.164-1.523) | < 0.001 | 1.302(1.184-1.432) | < 0.001 |
| Nx | 0.941(0.777-1.14) | 0.535 | 0.92(0.757-1.119) | 0.405 | 0.935(0.816-1.071) | 0.331 |
| Chemoradiotherapy |  |  |  |  |  |
| None | Ref |  | Ref |  | Ref |  |
| Radiation | 0.848(0.754-0.953) | 0.006 | 0.901(0.802-1.012) | 0.08 | 0.874(0.805-0.949) | 0.001 |
| Chetherapy | 0.306(0.255-0.367) | < 0.001 | 0.29(0.241-0.349) | < 0.001 | 0.298(0.262-0.339) | < 0.001 |
| Both | 0.315(0.279-0.357) | < 0.001 | 0.347(0.308-0.392) | < 0.001 | 0.332(0.305-0.362) | < 0.001 |
| Histology |  |  |  |  |  |
| AC | Ref |  | Ref |  | Ref |  |
| SSC | 1.39(1.237-1.561) | < 0.001 | 1.352(1.205-1.518) | < 0.001 | 1.368(1.261-1.485) | < 0.001 |
| NSCLC  | 1.333(1.181-1.505) | < 0.001 | 1.137(1.004-1.288) | 0.043 | 1.226(1.125-1.337) | < 0.001 |

Abbreviations: AC, adenocarcinoma; SSC, squamous carcinoma; NSCLC , non-small cell lung carcinoma, nothing otherwise special; Mets subdivision, extracranial metastasis subdivision; Ref, reference.