Table S3: Results of Cox regressions including time-dependent TNM stage

|  |  |  |  |
| --- | --- | --- | --- |
| 　 | Cancer-specific mortality | 　 | All-causes mortality |
|
| HR  | (95% CI) | *P value* | HR |  (95% CI) | *P value* |
|  |  |  |  |  |  |  |  |
| **Panel A: For CRC patients diagnosed after the introduction of the screening program** |  |  |
| Time-Dep TNM | 0.994  | (0.985-1.004) | 0.226 |  | 0.994  | (0.985-1.004) | 0.218  |
| Program participation (Ref. group: Participated in the screening ) |  |  |  |  |  |  |  |
| Never participated | 1.458  | (1.115-1.907) | 0.006 |  | 1.365  | (1.052-1.772) | 0.019  |
| Gender (Ref. group: female) |  |  |  |  |  |  |  |
| Male | 1.236  | (1.055-1.448) | 0.009 |  | 1.227  | (1.049-1.435) | 0.011  |
| Age at diagnosis (Ref. group:≤65 yrs ) |  |  |  |  |  |  |  |
| >65 yrs | 1.494  | (1.284-1.737) | <0.001 |  | 1.491  | (1.283-1.732) | <0.001 |
| Sub-region (Ref. group: Rural) |  |  |  |  |  |  |  |
| Urban | 0.957  | (0.821-1.116) | 0.574 |  | 0.944  | (0.811-1.100) | 0.462  |
| Level of treatment hopspital (Ref. group: Tertiary) |  |  |  |   |  |  |  |
| Secondary | 1.494  | (1.284-1.739) | <0.001 |  | 1.490  | (1.282-1.731) | <0.001 |
| TNM Stage (Ref. group: I+II) |  |  |  |  |  |  |  |
| III+IV | 1.884  | (1.613-2.201) | <0.001 |  | 1.898  | (1.626-2.214) | <0.001 |
|  |  |  |  |  |  |  |  |
| **Panel B: For CRC patients who participated in the screening program**  |  |  |
| Time-Dep TNM | 1.002  | (0.944-1.065) | 0.939 |  | 0.995  | (0.942-1.051) | 0.851  |
| Screening policy compliance (Ref. group:Compliant to the screening policy) |  |  |  |  |  |  |  |
| Incompliant to the screening policy | 2.929  | (1.640-5.230) | <0.001 |  | 3.292  | (1.852-5.851) | <0.001 |
| Gender (Ref. group: female) |  |  |  |  |  |  |  |
| Male | 1.909  | (1.132-3.220) | 0.015 |  | 1.734  | (1.057-2.844) | 0.029  |
| Age at diagnosis (Ref. group:≤65 yrs ) |  |  |  |  |  |  |  |
| >65 yrs | 1.115  | (0.672-1.848) | 0.674 |  | 1.181  | (0.723-1.930) | 0.507  |
| Sub-region (Ref. group: Rural) |  |  |  |  |  |  |  |
| Urban | 0.905  | (0.526-1.555) | 0.717 |  | 0.863  | (0.510-1.460) | 0.582  |
| Level of treatment hopspital (Ref. group: Tertiary) |  |  |  |  |  |  |  |
| Secondary | 1.308  | (0.801-2.137) | 0.283 |  | 1.342  | (0.836-2.155) | 0.223  |
| TNM Stage (Ref. group: I+II) |  |  |  |  |  |  |  |
| III+IV | 8.310  | (3.148-21.936) | <0.001 | 　 | 8.059 | (3.241-20.043) | <0.001 |