**S6 Table. Association between body mass index category and cancer mortality according to disease status**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | BMI (kg/m2) | | | | | | | | | |
|  | <18.5 | 18.5 – 19.9 | 20 – 21.4 | 21.5 – 22.9 | 23 – 24.9 | 25 – 26.4 | 26.5 – 27.9 | 28 – 29.9 | 30 – 32.4 | ≥ 32.5 |
| **DM** |  |  |  |  |  |  |  |  |  |  |
| No. of deaths | 45 | 66 | 93 | 128 | 187 | 93 | 63 | 35 | 17 | 8 |
| Multivariable adjusted HR | 1.93 | 1.55 | 1.09 | 1.13 | 1 | 0.72 | 0.88 | 0.73 | 0.96 | 1.30 |
| 95% CI | 1.19-3.12 | 0.99-2.41 | 0.73-1.62 | 0.79-1.63 |  | 0.47-1.09 | 0.49-1.58 | 0.40-1.31 | 0.34-2.71 | 0.34-5.05 |
| **Non-DM** |  |  |  |  |  |  |  |  |  |  |
| No. of deaths | 52 | 48 | 78 | 89 | 116 | 54 | 18 | 25 | 6 | 3 |
| Multivariable adjusted HR | 2.57 | 1.59 | 1.13 | 1.16 | 1 | 0.84 | 0.57 | 1.20 | 0.86 | 1.61 |
| 95% CI | 1.81-3.65 | 1.13-2.24 | 0.83-1.53 | 0.87-1.54 |  | 0.61-1.17 | 0.34-0.94 | 0.76-1.90 | 0.35-2.10 | 0.49-5.36 |
| p-interaction (DM vs. Non-DM) | 0.24 | 0.90 | 0.86 | 0.90 |  | 0.46 | 0.14 | 0.09 | 0.82 | 0.76 |
| **HTN** |  |  |  |  |  |  |  |  |  |  |
| No. of deaths | 63 | 87 | 113 | 152 | 236 | 116 | 64 | 54 | 20 | 10 |
| Multivariable adjusted HR | 2.02 | 1.69 | 1.04 | 1.09 | 1 | 0.76 | 0.76 | 0.93 | 0.95 | 1.52 |
| 95% CI | 1.19-3.41 | 1.00-2.84 | 0.67-1.61 | 0.72-1.64 |  | 0.46-1.25 | 0.41-1.42 | 0.36-2.44 | 0.27-3.34 | 0.19-12.2 |
| **Non-HTN** |  |  |  |  |  |  |  |  |  |  |
| No. of deaths | 34 | 27 | 58 | 65 | 67 | 31 | 17 | 6 | 3 | 1 |
| Multivariable adjusted HR | 2.24 | 1.17 | 1.18 | 1.24 | 1 | 0.86 | 1.13 | 0.72 | 1.48 | 1.45 |
| 95% CI | 1.44-3.49 | 0.74-1.85 | 0.81-1.72 | 0.87-1.77 |  | 0.55-1.35 | 0.65-1.95 | 0.29-1.79 | 0.47-4.73 | 0.19-10.9 |
| p-interaction (HTN vs. Non-HTN) | 0.69 | 0.17 | 0.55 | 0.53 |  | 0.61 | 0.21 | 0.60 | 0.49 | 0.97 |
| **CKD** |  |  |  |  |  |  |  |  |  |  |
| No. of deaths | 5 | 8 | 15 | 20 | 33 | 19 | 10 | 7 | 2 | 1 |
| Multivariable adjusted HR | 0.88 | 0.92 | 0.88 | 0.87 | 1 | 0.66 | 0.85 | 0.72 | 0.64 | 1.38 |
| 95% CI | 0.33-2.33 | 0.41-2.07 | 0.46-1.68 | 0.48-1.56 |  | 0.35-1.24 | 0.40-1.82 | 0.29-1.82 | 0.14-2.87 | 0.17- |
| **Non-CKD** |  |  |  |  |  |  |  |  |  |  |
| No. of deaths | 92 | 106 | 156 | 197 | 270 | 128 | 71 | 53 | 21 | 10 |
| Multivariable adjusted HR | 2.22 | 1.58 | 1.09 | 1.15 | 1 | 0.78 | 0.81 | 0.93 | 1.06 | 1.57 |
| 95% CI | 1.73-2.85 | 1.26-1.99 | 0.88-1.34 | 0.95-1.38 |  | 0.63-0.97 | 0.62-1.07 | 0.69-1.27 | 0.66-1.68 | 0.79-3.13 |
| p-interaction (CKD vs. Non-CKD) | 0.06 | 0.19 | 0.52 | 0.35 |  | 0.61 | 0.91 | 0.58 | 0.51 | 0.90 |

In the multivariable adjusted model, data was adjusted for age, sex, smoking status, alcohol intake, physical activity, socioeconomic status, and body weight change.

In the analyses stratified subgroups, the variable used in stratification was excluded. BMI, body mass index; HR, hazard ratio; CI, confidence interval; DM, diabetes mellitus; HTN, hypertension; CKD, cystic kidney disease.