|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Supplemental Table 1. Cause-specific mortalities according to body mass index and smoking status by sex**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Never smoker** |  | **Ex-smoker** |  | **Current smoker** |
|  | N of deaths | % of deaths | Adjusted HR\* | Adjusted 95% CI\* |  | N of deaths | % of deaths | Adjusted HR\* | Adjusted 95% CI\* |  | N of deaths | % of deaths | Adjusted HR† | Adjusted 95% CI† |
| **Men** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Cardiovascular cause** |  |  |  |  |  |  |  |  |  |  |
| <18·5 |  0  | 0·0 | - | - |  |  2  | 1·4 | 2·23  | 0·54,9·20 |  |  9  | 1·4 | 0·96  | 0·49,1·86 |
| 18·5-22·9 |  39  | 0·5 | 1·00  | Reference |  |  46  | 0·6 | 1·00  | Reference |  | 309  | 1·3 | 1·00  | Reference |
| 23·0-24·9 |  53  | 0·8 | 1·52  | 1·002,2·29 |  |  58  | 0·9 | 1·45  | 0·98,2·13 |  | 204  | 1·2 | 1·01  | 0·84,1·20 |
| 25·0-29·9 |  59  | 1·1 | 1·93  | 1·28,2·90 |  |  48  | 0·9 | 1·47  | 0·98,2·21 |  | 186  | 1·5 | 1·28  | 1·06,1·53 |
| ≥30·0 |  6  | 4·1 | 6·93  | 2·93,16·37 |  |  2  | 1·6 | 2·26  | 0·55,9·30 |  |  3  | 1·0 | 0·79  | 0·25,2·46 |
| **Cancer cause** |  |  |  |  |  |  |  |  |  |  |
| <18·5 |  3  | 1·6 | 0·81  | 0·26,2·56 |  |  1  | 0·7 | 0·31  | 0·04,2·17 |  |  37  | 5·8 | 1·53  | 1·10,2·13 |
| 18·5-22·9 |  132  | 1·7 | 1·00  | Reference |  | 177  | 2·3 | 1·00  | Reference |  | 834  | 3·4 | 1·00  | Reference |
| 23·0-24·9 |  121  | 1·9 | 1·07  | 0·83,1·37 |  | 158  | 2·5 | 1·01  | 0·82,1·26 |  | 523  | 3·2 | 0·95  | 0·85,1·06 |
| 25·0-29·9 |  98  | 1·8 | 1·01  | 0·77,1·31 |  | 122  | 2·4 | 0·96  | 0·76,1·21 |  | 355  | 2·9 | 0·89  | 0·78,1·01 |
| ≥30·0 |  5  | 3·4 | 1·82  | 0·75,4·45 |  |  6  | 4·7 | 1·83  | 0·81,4·12 |  |  13  | 4·1 | 1·26  | 0·73,2·18 |
| **Respiratory cause** |  |  |  |  |  |  |  |  |  |  |
| <18·5 |  1  | 0·5 | 1·43  | 0·19,10·87 |  |  0  | 0·0 | - | - |  |  8  | 1·2 | 3·70  | 1·77,7·73 |
| 18·5-22·9 |  16  | 0·2 | 1·00  | Reference |  |  22  | 0·3 | 1·00  | Reference |  |  65  | 0·3 | 1·00  | Refeence |
| 23·0-24·9 |  2  | 0·03 | 0·07  | 0·01,0·55 |  |  10  | 0·2 | 0·51  | 0·24,1·07 |  |  27  | 0·2 | 0·66  | 0·42,1·03 |
| 25·0-29·9 |  3  | 0·1 | 0·26  | 0·08,0·90 |  |  6  | 0·1 | 0·38  | 0·15,0·94 |  |  24  | 0·2 | 0·84  | 0·53,1·34 |
| ≥30·0 |  0  | 0·0 | - | - |  |  0  | 0·0 | - | - |  |  1  | 0·3 | 1·32  | 0·18,9·52 |
| **Others** |  |  |  |  |  |  |  |  |  |  |
| <18·5 |  3  | 1·6 | 1·13  | 0·36,3·56 |  |  3  | 2·2 | 1·32  | 0·42,4·16 |  |  26  | 4·0 | 1·64  | 1·10,2·42 |
| 18·5-22·9 |  98  | 1·3 | 1·00  | Reference |  | 117  | 1·5 | 1·00  | Reference |  | 585  | 2·4 | 1·00  | Reference |
| 23·0-24·9 |  94  | 1·5 | 1·09  | 0·82,1·45 |  |  88  | 1·4 | 0·87  | 0·66,1·14 |  | 270  | 1·6 | 0·68  | 0·59,0·79 |
| 25·0-29·9 |  85  | 1·6 | 1·15  | 0·86,1·54 |  |  52  | 1·0 | 0·61  | 0·43,0·84 |  | 184  | 1·5 | 0·64  | 0·54,0·76 |
| ≥30·0 |  1  | 0·7 | 0·47  | 0·07,3·40 |  |  1  | 0·8 | 0·45  | 0·06,3·25 |  |  10  | 3·2 | 1·39  | 0·75,2·60 |
| **Women** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Cardiovascular cause** |  |  |  |  |  |  |  |  |  |  |
| <18·5 |  6  | 0·3 | 1·46  | 0·58,3·65 |  |  0  | 0·0 | - | - |  |  0  | 0·0 | - | - |
| 18·5-22·9 |  59  | 0·2 | 1·00  | Reference |  |  2  | 0·8 | 1·00  | Referece |  |  2  | 1·9 | 1·0  | Reference |
| 23·0-24·9 |  26  | 0·2 | 0·81  | 0·50,1·31 |  |  0  | 0·0 | - | - |  |  0  | 0·0 | - | - |
| 25·0-29·9 |  24  | 0·4 | 1·19  | 0·73,1·94 |  |  0  | 0·0 | - | - |  |  1  | 3·6 | 1·32  | 0·12,14·57 |
| ≥30·0 |  2  | 0·9 | 2·41  | 0·58,9·93 |  |  0  | 0·0 | - | - |  |  0  | 0·0 | - | - |
| **Cancer cause** |  |  |  |  |  |  |  |  |  |  |
| <18·5 |  14 | 0·7 | 0·92  | 0·54,1·59 |  |  1  | 5·9 | 13·14  | 0·78,222·30 |  |  1  | 7·7 | 3·50  | 0·35,35·31 |
| 18·5-22·9 |  231 | 0·8 | 1·00  | Reference |  |  1  | 0·4 | 1·00  | Reference |  |  3  | 2·9 | 1·00  | Reference |
| 23·0-24·9 | 127 | 1·2 | 1·21  | 0·97,1·51 |  |  1  | 1·1 | 3·13  | 0·19,52·03 |  |  1  | 2·4 | 0·78  | 0·08,7·58 |
| 25·0-29·9 |  83 | 1·4 | 1·30  | 1·003,1·69 |  |  0  | 0·0 | - | - |  |  0  | 0·0 | - | - |
| ≥30·0 |  2 | 0·9 | 0·80  | 0·20,3·23 |  |  0  | 0·0 | - | - |  |  1  | 25·0 | 14·48  | 1·37,153·26 |
| **Respiratory cause** |  |  |  |  |  |  |  |  |  |  |
| <18·5 |  2  | 0·1 | 8·55  | 1·56,46·83 |  |  0  | 0·0 | - | - |  |  0 | 0·0 | - | - |
| 18·5-22·9 |  4  | 0·01 | 1·00  | Reference |  |  0  | 0·0 | - | - |  |  0  | 0·0 | - | - |
| 23·0-24·9 |  1  | 0·01 | 0·40  | 0·04,3·66 |  |  0  | 0·0 | - | - |  |  0  | 0·0 | - | - |
| 25·0-29·9 |  1  | 0·02 | 0·58  | 0·06,5·37 |  |  0  | 0·0 | - | - |  |  1  | 3·6 | - | - |
| ≥30·0 |  0  | 0·0 | - | - |  |  0  | 0·0 | - | - |  |  0  | 0·0 | - | - |
| **Others** |  |  |  |  |  |  |  |  |  |  |
| <18·5 |  6  | 0·3 | 1·10  | 0·48,2·52 |  |  0  | 0·0 | - | - |  |  1  | 7·7 | 2·66  | 0·27,26·61 |
| 18·5-22·9 |  85  | 0·3 | 100  | Reference |  |  3  | 1·3 |  1·00  | Reference |  |  3  | 2·9 | 1·00  | Reference |
| 23·0-24·9 |  32  | 0·3 | 0·87  | 0·57,1·31 |  |  1  | 1·1 |  0·82  | 0·09,7·95 |  |  0  | 0·0 | - | - |
| 25·0-29·9 |  32  | 0·6 | 1·45  | 0·95,2·21 |  |  0  | 0·0 | - | - |  |  0  | 0·0 | - | - |
| ≥30·0 |  2  | 0·9 | 2·24  | 0·55,9·16 |  |  0  | 0·0 | - | - |  |  0  | 0· | - | - |

BMI ; body mass index, HR ; Hazard Ratio, CI ; Confidence Interval\*Adjusted for age and alcohol consumption†Adjusted for age, alcohol consumption, and cigarettes per day |