**Table S1**. The independent association of social isolation and multiple chronic diseases with the functional disability after stroke in elderly patients without the heavy hurt fall experience

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Total\*** | **60-69 y\*** |  | **70-79 y\*** |  | **80-90 y\*** |
| **OR** | **95% CI** | ***P*** | **OR** | **95% CI** | ***P*** |  | **OR** | **95% CI** | ***P*** |  | **OR** | **95% CI** | ***P*** |
| **Severe vs. no disability** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Social isolation** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No | Ref |  |  | Ref |  |  |  | Ref |  |  |  | Ref |  |  |
| Yes | 9.53 | (6.63-13.69) | <0.001 | 11.57 | (6.20-21.60) | <0.001 |  | 11.76 | (6.32-21.88) | <0.001 |  | 5.51 | (2.63-11.56) | <0.001 |
| **Multiple chronic diseases** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0 | Ref |  |  | Ref |  |  |  |  |  |  |  |  |  |  |
| 1 | 2.31 | (1.56-3.42) | <0.001 | 1.59 | (0.84-3.01) | 0.159 |  | 3.33 | (1.78-6.22) | <0.001 |  | 2.78 | (1.05-7.35) | 0.039 |
| ≥ 2 | 3.24 | (2.17-4.84) | <0.001 | 2.00 | (1.02-3.93) | 0.044 |  | 5.19 | (2.73-9.85) | <0.001 |  | 3.99 | (1.58-10.08) | 0.003 |
| **Moderate vs. no disability** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Social isolation** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No | Ref |  |  | Ref |  |  |  | Ref |  |  |  | Ref |  |  |
| Yes | 2.95 | (2.01-4.32) | <0.001 | 3.81 | (1.99-7.27) | <0.001 |  | 3.39 | (1.75-6.56) | <0.001 |  | 1.75 | (0.79-3.86) | 0.166 |
| **Multiple chronic diseases** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0 | Ref |  |  | Ref |  |  |  |  |  |  |  |  |  |  |
| 1 | 1.79 | (1.18-2.73) | 0.007 | 1.41 | (0.72-2.76) | 0.311 |  | 2.17 | (1.10-4.28) | 0.026 |  | 2.2 | (0.75-6.41) | 0.149 |
| ≥ 2 | 2.59 | (1.69-3.98) | <0.001 | 1.99 | (0.99-4.00) | 0.053 |  | 3.33 | (1.67-6.64) | 0.001 |  | 2.96 | (1.06-8.21) | 0.038 |
| **Mild vs. no disability** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Social isolation** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No | Ref |  |  | Ref |  |  |  | Ref |  |  |  | Ref |  |  |
| Yes | 1.52 | (0.93-2.48) | 0.093 | 2.31 | (1.01-5.27) | 0.048 |  | 1.24 | (0.51-3.01) | 0.640 |  | 0.90 | (0.35-2.31) | 0.828 |
| **Multiple chronic diseases** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0 | Ref |  |  | Ref |  |  |  | Ref |  |  |  | Ref |  |  |
| 1 | 1.48 | (0.86-2.54) | 0.156 | 0.97 | (0.43-2.20) | 0.943 |  | 2.48 | (0.94-6.58) | 0.068 |  | 1.40 | (0.38-5.21) | 0.617 |
| ≥ 2 | 1.60 | (0.92-2.79) | 0.095 | 0.62 | (0.25-1.56) | 0.308 |  | 2.83 | (1.06-7.59) | 0.038 |  | 2.62 | (0.77-8.90) | 0.123 |

\* n = 3424 for total, n = 1106 for 60-69 y, n = 1170 for 70-79 y, and n = 1148 for 80-90 y; adjusted for age group (only for total sample), gender, ethnicity, marital status, annual household income, education level, region, hospital level, drinking, smoking, fall experience, stroke occurrence, and stroke type.

**Table S2**. The combined association of social isolation and multiple chronic diseases with the functional disability after stroke in elderly patients without the heavy hurt fall experience

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Social isolation** | **Multiple chronic diseases** | **Total\*** |  | **60-69 y\*** |  | **70-79 y\*** |  | **80-90 y\*** |
| **OR** | **95% CI** | ***P*** |  | **OR** | **95% CI** | ***P*** |  | **OR** | **95% CI** | ***P*** |  | **OR** | **95% CI** | ***P*** |
| **Severe vs. no disability** |
| **No** | 0 | Ref |  |  |  | Ref |  |  |  | Ref |  |  |  | Ref |  |  |
|  | 1 | 2.78 | (1.75-4.43) | <0.001 |  | 2.17 | (1.04-4.56) | 0.040 |  | 2.92 | (1.40-6.07) | 0.004 |  | 4.61 | (1.30-16.38) | 0.018 |
|  | ≥ 2 | 3.75 | (2.33-6.03) | <0.001 |  | 2.47 | (1.14-5.37) | 0.022 |  | 4.66 | (2.20-9.86) | <0.001 |  | 6.32 | (1.98-20.13) | 0.002 |
| **Yes** | 0 | 16.6004 | (7.18-38.58) | <0.001 |  | 29.10 | (5.53-153.25) | <0.001 |  | 9.91 | (3.09-31.79) | <0.001 |  | 23.44 | (2.53-21.57) | 0.006 |
|  | 1 | 20.5003 | (11.26-37.45) | <0.001 |  | 16.32 | (6.17-43.22) | <0.001 |  | 34.48 | (12.03-98.84) | <0.001 |  | 18.58 | (5.26-65.68) | <0.001 |
|  | ≥ 2 | 35.33 | (19.07-65.45) | <0.001 |  | 33.04 | (11.34-96.31) | <0.001 |  | 58.50 | (19.67-173.95) | <0.001 |  | 27.51 | (8.06-93.94) | <0.001 |
| **Moderate vs. no disability** |
| **No** | 0 | Ref |  |  |  | Ref |  |  |  | Ref |  |  |  | Ref |  |  |
|  | 1 | 1.96 | (1.20-3.18) | 0.007 |  | 1.50 | (0.71-3.14) | 0.289 |  | 2.45 | (1.11-5.42) | 0.026 |  | 3.50 | (0.89-13.77) | 0.073 |
|  | ≥ 2 | 2.48 | (1.51-4.08) | <0.001 |  | 1.83 | (0.84-3.96) | 0.128 |  | 3.16 | (1.40-7.11) | 0.005 |  | 4.25 | (1.20-15.00) | 0.025 |
| **Yes** | 0 | 3.91 | (1.59-9.61) | 0.003 |  | 5.66 | (1.01-31.69) | 0.048 |  | 3.62 | (1.00-13.08) | 0.050 |  | 6.65 | (0.62-71.64) | 0.118 |
|  | 1 | 4.18 | (2.22-7.89) | <0.001 |  | 3.86 | (1.42-10.50) | 0.008 |  | 6.19 | (1.98-19.34) | 0.002 |  | 4.26 | (1.08-16.87) | 0.039 |
|  | ≥ 2 | 8.17 | (4.30-15.52) | <0.001 |  | 9.08 | (3.08-26.82) | <0.001 |  | 13.47 | (4.27-42.52) | <0.001 |  | 6.19 | (1.63-23.44) | 0.007 |
| **Mild vs. no disability** |
| **No** | 0 | Ref |  |  |  | Ref |  |  |  | Ref |  |  |  | Ref |  |  |
|  | 1 | 1.96 | (1.04-3.69) | 0.038 |  | 1.19 | (0.48-2.96) | 0.710 |  | 3.20 | (1.00-10.27) | 0.051 |  | 3.51 | (0.58-21.14) | 0.170 |
|  | ≥ 2 | 2.08 | (1.09-3.98) | 0.027 |  | 0.63 | (0.22-1.78) | 0.379 |  | 3.98 | (1.24-12.86) | 0.021 |  | 6.45 | (1.25-33.36) | 0.026 |
| **Yes** | 0 | 3.87 | (1.32-11.39) | 0.014 |  | 4.96 | (0.70-35.37) | 0.110 |  | 3.05 | (0.50-18.68) | 0.227 |  | 8.72 | (0.60-126.79) | 0.113 |
|  | 1 | 2.21 | (0.95-5.11) | 0.065 |  | 1.63 | (0.46-5.79) | 0.448 |  | 4.02 | (0.82-19.79) | 0.088 |  | 2.15 | (0.33-14.18) | 0.425 |
|  | ≥ 2 | 2.71 | (1.16-6.32) | 0.021 |  | 2.06 | (0.49-8.72) | 0.327 |  | 3.38 | (0.63-18.21) | 0.156 |  | 3.87 | (0.67-22.35) | 0.131 |

\* n = 3424 for total, n = 1106 for 60-69 y, n = 1170 for 70-79 y, and n = 1148 for 80-90 y; adjusted for age group (only for total sample), gender, ethnicity, marital status, annual household income, education level, region, hospital level, drinking, smoking, fall experience, stroke occurrence, and stroke type.