|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table S3. Handgrip strength and depression in Korean elderly** | | | | | | | | | | | | | | | |
|  | **Depression (PHQ-9 ≥5)** | | | | | | | | | | | | | | |
| **Variables** | **Unadjusted model** | | |  | **1Adjusted model 1** | | |  | **2Adjusted model 2** | | |  | **3Adjusted model 3** | | |
|  |  |  |
| **OR** | **95% CI** | |  | **OR** | **95% CI** | |  | **OR** | **95% CI** | |  | **OR** | **95% CI** | |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Male** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Handgrip strength** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| High | 1.00 |  |  |  | 1.00 |  |  |  | 1.00 |  |  |  | 1.00 |  |  |
| Medium | 1.28 | 0.87 | 1.90 |  | 1.31 | 0.85 | 2.00 |  | 1.19 | 0.78 | 1.81 |  | 0.97 | 0.62 | 1.53 |
| Low | 1.51 | 1.01 | 2.26 |  | 1.44 | 0.89 | 2.31 |  | 1.15 | 0.70 | 1.87 |  | 0.94 | 0.56 | 1.57 |
| **Handgrip strength asymmetry** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Symmetric | 1.00 |  |  |  | 1.00 |  |  |  | 1.00 |  |  |  | 1.00 |  |  |
| Moderate asymmetry | 1.25 | 0.75 | 2.07 |  | 1.25 | 0.87 | 1.79 |  | 1.32 | 0.91 | 1.91 |  | 1.28 | 0.87 | 1.88 |
| Prominent asymmetry | 1.26 | 0.88 | 1.79 |  | 1.23 | 0.74 | 2.04 |  | 1.37 | 0.82 | 2.29 |  | 1.20 | 0.71 | 2.05 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Female** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Handgrip strength** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| High | 1.00 |  |  |  | 1.00 |  |  |  | 1.00 |  |  |  | 1.00 |  |  |
| Medium | 1.62 | 1.26 | 2.08 |  | 1.60 | 1.24 | 2.07 |  | 1.51 | 1.17 | 1.97 |  | 1.51 | 1.13 | 2.00 |
| Low | 2.33 | 1.70 | 3.19 |  | 2.27 | 1.59 | 3.24 |  | 2.15 | 1.50 | 3.09 |  | 1.93 | 1.33 | 2.81 |
| **Handgrip strength asymmetry** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Symmetric | 1.00 |  |  |  | 1.00 |  |  |  | 1.00 |  |  |  | 1.00 |  |  |
| Moderate asymmetry | 1.16 | 0.90 | 1.49 |  | 1.15 | 0.89 | 1.49 |  | 1.19 | 0.91 | 1.54 |  | 1.14 | 0.86 | 1.52 |
| Prominent asymmetry | 1.43 | 1.01 | 2.03 |  | 1.44 | 1.02 | 2.03 |  | 1.47 | 1.03 | 2.08 |  | 1.46 | 1.02 | 2.08 |
| 1Adjusted for handedness and age |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2Adjusted for handedness and socioeconomic factors (age, region, education level, job, household income and marrital status) | | | | | | | | | | | |  |  |  |  |
| 3Adjusted for handedness, age, socioeconomic factors (region, education level, job, household income and marrital status)  and health-related factors (eating habit, lifetime smoking experience, frequency of drinking, physical activity, stress, chronic disease)  PHQ-9, Patient Health Questionnaire 9 | | | | | | | | | | | | | | | |