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| **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 |