| **Table S5. Handgrip strength and other factors associated with depression in the Korean eldelry, using 'NOMCAR' option of SAS** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Variables** | **Depression (PHQ-9 ≥5)** | | | | | | |
| **Male** | | |  | **Female** | | |
| **OR** | **95% CI** | |  | **OR** | **95% CI** | |
| **Handgrip strength** |  |  |  |  |  |  |  |
| High | 1.00 |  |  |  | 1.00 |  |  |
| Medium | 0.97 | 0.62 | 1.53 |  | 1.50 | 1.13 | 2.00 |
| Low | 0.94 | 0.56 | 1.57 |  | 1.93 | 1.33 | 2.81 |
| **Handgrip strength asymmetry** |  |  |  |  |  |  |  |
| Symmetric | 1.00 |  |  |  | 1.00 |  |  |
| Moderate asymmetry | 1.28 | 0.87 | 1.88 |  | 1.15 | 0.87 | 1.53 |
| Prominent asymmetry | 1.20 | 0.71 | 2.05 |  | 1.47 | 1.03 | 2.10 |
| **Handedness** |  |  |  |  |  |  |  |
| Right | 1.00 |  |  |  | 1.00 |  |  |
| Left | 1.03 | 0.49 | 2.16 |  | 1.08 | 0.60 | 1.94 |
| Both | 0.65 | 0.28 | 1.52 |  | 0.62 | 0.35 | 1.10 |
| **Age** |  |  |  |  |  |  |  |
| 60 ~ 64 | 1.00 |  |  |  | 1.00 |  |  |
| 65 ~ 69 | 0.59 | 0.33 | 1.04 |  | 1.18 | 0.80 | 1.73 |
| 70 ~ 74 | 0.75 | 0.42 | 1.33 |  | 0.66 | 0.44 | 1.00 |
| 75 ~ | 1.08 | 0.59 | 1.96 |  | 0.79 | 0.52 | 1.21 |
| **Region** |  |  |  |  |  |  |  |
| Metropolitans | 1.00 |  |  |  | 1.00 |  |  |
| Rurals | 0.86 | 0.60 | 1.23 |  | 0.83 | 0.64 | 1.07 |
| **Educational level** |  |  |  |  |  |  |  |
| Under highschool | 1.91 | 1.09 | 3.35 |  | 1.49 | 0.90 | 2.46 |
| College | 1.00 |  |  |  | 1.00 |  |  |
| **Job** |  |  |  |  |  |  |  |
| White | 1.00 |  |  |  | 1.00 |  |  |
| Pink | 0.70 | 0.28 | 1.75 |  | 2.63 | 0.75 | 9.25 |
| Blue | 0.67 | 0.34 | 1.32 |  | 1.73 | 0.52 | 5.74 |
| None | 0.83 | 0.42 | 1.63 |  | 3.06 | 0.94 | 10.00 |
| **Household income (quartiles)** |  |  |  |  |  |  |  |
| High | 1.00 |  |  |  | 1.00 |  |  |
| Middle high | 1.25 | 0.67 | 2.31 |  | 0.94 | 0.60 | 1.48 |
| Middle low | 1.61 | 0.88 | 2.96 |  | 1.26 | 0.83 | 1.92 |
| Low | 2.11 | 1.08 | 4.13 |  | 1.80 | 1.15 | 2.80 |
| **Marital status** |  |  |  |  |  |  |  |
| With spouse | 1.00 |  |  |  | 1.00 |  |  |
| Without souse | 1.79 | 1.13 | 2.84 |  | 1.34 | 1.01 | 1.78 |
| **Eating habit** |  |  |  |  |  |  |  |
| Regular | 1.00 |  |  |  | 1.00 |  |  |
| Irregular | 1.27 | 0.80 | 2.01 |  | 1.58 | 1.19 | 2.10 |
| **Lifetime smoking experience** |  |  |  |  |  |  |  |
| Yes | 1.24 | 0.77 | 1.99 |  | 1.26 | 0.76 | 2.10 |
| No | 1.00 |  |  |  | 1.00 |  |  |
| **Drink** |  |  |  |  |  |  |  |
| 2 ~ 4 times / week | 0.86 | 0.57 | 1.30 |  | 1.25 | 0.75 | 2.08 |
| 2 ~ 4 times / month | 1.07 | 0.67 | 1.71 |  | 0.95 | 0.58 | 1.55 |
| Never or occasionally | 1.00 |  |  |  | 1.00 |  |  |
| **BMI†** |  |  |  |  |  |  |  |
| Obese(≥25) | 0.75 | 0.51 | 1.09 |  | 0.80 | 0.62 | 1.04 |
| Normal or under-weight(<25) | 1.00 |  |  |  | 1.00 |  |  |
| **Physical activity** |  |  |  |  |  |  |  |
| Sufficient | 1.00 |  |  |  | 1.00 |  |  |
| Insufficient | 1.06 | 0.75 | 1.52 |  | 1.23 | 0.92 | 1.65 |
| **Stress** |  |  |  |  |  |  |  |
| Lot | 7.80 | 5.22 | 11.66 |  | 4.59 | 3.53 | 5.97 |
| Little | 1.00 |  |  |  | 1.00 |  |  |
| **Chronic diesease** |  |  |  |  |  |  |  |
| Yes | 1.36 | 0.95 | 1.95 |  | 1.12 | 0.86 | 1.47 |
| No | 1.00 |  |  |  | 1.00 |  |  |
| PHQ-9, Patient Health Questionnaire 9; BMI, Body Mass Index | | | |  |  |  |  |
| †Obesity status defined by BMI based on 2014 Clinical Practice Guidelines for Overweight and Obesity in Korea | | | | | | | |
| \*Chronic disaseses includes hypertension, diabetes mellitus and dyslipidemia | | | | |  |  |  |