**Supplementary Table 1. The Odds Ratio (OR) with 95% Confidential Interval (CI) of Depression (CES-D≥16 &** **CES-D≥25) according to the Asian-specific BMI Category.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **CES-D≥16** | | | **CES-D≥25** | |
|  | **Unadjusted**  **OR (95% CI)** | **Adjusted**  **OR (95% CI)** | **Unadjusted**  **OR (95% CI)** | | **Adjusted**  **OR (95% CI)** |
| All participants (n=159,390) |  |  |  | |  |
| - Underweight (BMI<18.5) | 1.84 (1.71 - 1.98)\* | 1.17 (1.07 - 1.29)\* | 2.51 (2.23 - 2.82) | | 1.39 (1.19 - 1.62)\* |
| - Normal weight (18.5≤BMI<23) | 1.30 (1.25 - 1.36)\* | 1.05 (1.00 - 1.11) | 1.42 (1.31 - 1.54) | | 1.06 (0.96 - 1.18) |
| - Overweight (23≤BMI<25) | 1.00 (Reference) | 1.00 (Reference) | 1.00 (Reference) | | 1.00 (Reference) |
| - Obese (25≤BMI<30) | 0.99 (0.95 - 1.04) | 1.03 (0.97 - 1.09) | 1.02 (0.93 - 1.12) | | 1.07 (0.96 - 1.20) |
| - Severe Obese (BMI≥30) | 1.35 (1.23 - 1.47)\* | 1.23 (1.10 - 1.37)\* | 1.54 (1.31 - 1.80) | | 1.36 (1.11 - 1.65)\* |
| Male participants (n=90,614) |  |  |  | |  |
| - Underweight (BMI<18.5) | 1.31 (1.03 - 1.63)\* | 1.12 (0.84 - 1.47) | 1.71 (1.11 - 2.52) | | 1.38 (0.79 - 2.22) |
| - Normal weight (18.5≤BMI<23) | 1.15 (1.08 - 1.23)\* | 1.15 (1.07 - 1.24)\* | 1.20 (1.06 - 1.37) | | 1.22 (1.05 - 1.41)\* |
| - Overweight (23≤BMI<25) | 1.00 (Reference) | 1.00 (Reference) | 1.00 (Reference) | | 1.00 (Reference) |
| - Obese (25≤BMI<30) | 1.03 (0.97 - 1.10) | 1.02 (0.95 - 1.09) | 1.08 (0.96 - 1.23) | | 1.07 (0.93 - 1.24) |
| - Severe Obese (BMI≥30) | 1.30 (1.16 - 1.46)\* | 1.20 (1.05 - 1.36)\* | 1.55 (1.24 - 1.92) | | 1.46 (1.13 - 1.86)\* |
| Female participants (n=68,776) |  |  |  | |  |
| - Underweight (BMI<18.5) | 1.24 (1.14 - 1.35)\* | 1.12 (1.00 - 1.25) | 1.49 (1.30 - 1.71) | | 1.31 (1.09 - 1.57)\* |
| - Normal weight (18.5≤BMI<23) | 0.98 (0.93 - 1.05) | 0.97 (0.90 - 1.06) | 0.99 (0.89 - 1.10) | | 0.97 (0.85 - 1.12) |
| - Overweight (23≤BMI<25) | 1.00 (Reference) | 1.00 (Reference) | 1.00 (Reference) | | 1.00 (Reference) |
| - Obese (BMI≥25) | 1.20 (1.11 - 1.29)\* | 1.12 (1.01 - 1.24)\* | 1.28 (1.13 - 1.46) | | 1.15 (0.96 - 1.37) |
| Age < 50 (n=137,104) |  |  |  | |  |
| - Underweight (BMI<18.5) | 1.85 (1.72 - 1.99)\* | 1.17 (1.06 - 1.29)\* | 2.50 (2.21 - 2.82)\* | | 1.40 (1.19 - 1.64)\* |
| - Normal weight (18.5≤BMI<23) | 1.30 (1.25 - 1.37)\* | 1.04 (0.98 - 1.10) | 1.41 (1.30 - 1.54)\* | | 1.06 (0.95 - 1.18) |
| - Overweight (23≤BMI<25) | 1.00 (Reference) | 1.00 (Reference) | 1.00 (Reference) | | 1.00 (Reference) |
| - Obese (25≤BMI<30) | 0.97 (0.92 - 1.02) | 1.01 (0.95 - 1.07) | 0.99 (0.90 - 1.10) | | 1.08 (0.95 - 1.21) |
| - Severe Obese (BMI≥30) | 1.35 (1.23 - 1.49)\* | 1.23 (1.09 - 1.37)\* | 1.53 (1.30 - 1.81)\* | | 1.39 (1.13 - 1.70)\* |
| Age ≥ 50 (n=22,286) |  |  |  | |  |
| - Underweight (BMI<18.5) | 1.40 (1.01 - 1.90)\* | 1.18 (0.72 - 1.84) | 1.91 (1.08 - 3.13)\* | | 1.21 (0.46 - 2.62) |
| - Normal weight (18.5≤BMI<23) | 1.25 (1.12 - 1.40)\* | 1.17 (1.00 - 1.38) | 1.37 (1.11 - 1.70)\* | | 1.13 (0.84 - 1.54) |
| - Overweight (23≤BMI<25) | 1.00 (Reference) | 1.00 (Reference) | 1.00 (Reference) | | 1.00 (Reference) |
| - Obese (25≤BMI<30) | 1.12 (0.99 - 1.26) | 1.16 (0.98 - 1.37) | 1.19 (0.94 - 1.49) | | 1.05 (0.76 - 1.45) |
| - Severe Obese (BMI≥30) | 1.24 (0.92 - 1.64) | 1.07 (0.70 - 1.59) | 1.40 (0.80 - 2.29) | | 1.04 (0.45 - 2.08) |

Adjusted for age, sex, smoking, monthly household income, marriage status, employment status, average alcohol use (grams per day), hypertension, diabetes. (excluded sex in gender subgroup) \* P<0.05

**Supplementary Table 2. The Odds Ratio (OR) with 95% Confidential Interval (CI) of Depression (CES-D≥16 &** **CES-D≥25) in normal and overweight female subgroup**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **CES-D≥16** | | **CES-D≥25** | |
|  | **Unadjusted**  **OR (95% CI)** | **Adjusted**  **OR (95% CI)** | **Unadjusted**  **OR (95% CI)** | **Adjusted**  **OR (95% CI)** |
| - 18.5≤BMI <20 | 1.04 (0.98 - 1.11) | 0.98 (0.91 - 1.06) | 1.06 (0.96 - 1.18) | 0.99 (0.90 - 1.10) |
| - 20 ≤ BMI <22.5 | 1.00 (Reference) | 1.00 (Reference) | 1.00 (Reference) | 1.00 (Reference) |
| - 22.5 ≤ BMI <25 | 1.04 (0.98 - 1.10) | 1.04 (0.96 - 1.12) | 0.95 (0.83 - 1.08) | 0.99 (0.87 - 1.13) |

Adjusted for age, sex, smoking, monthly household income, marriage status, employment status, average alcohol use (grams per day), hypertension, diabetes. (excluded sex in gender subgroup) \* P<0.05