**Supplementary table 1. The risk factors of metabolic syndrome in female subjects by stepwise logistic regression.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Variable | Modified ATP III criteria and Harmonized definition | | IFD criteria | |
| OR (95% CI) | p-value | OR (95% CI) | p-value |
| Age,per 10years | 1.30 (1.20 – 1.40) | < 0.001 | 1.32 (1.22 – 1.43) | < 0.001 |
| Menopause female (yes/no) | 1.74 (1.45 – 2.08) | < 0.001 | 1.71 (1.42 – 2.07) | < 0.001 |
| BMI,per kg/m2 | 1.35 (1.33 – 1.38) | < 0.001 | 1.45 (1.42 – 1.48) | < 0.001 |
| Smoking status |  |  |  |  |
| Never smoked | 1 |  | 1 |  |
| Former smoked | 0.54 (0.34 – 0.84) | 0.006 | 0.49 (0.30 – 0.79) | 0.004 |
| Current smoker | 0.96 (0.76 – 1.21) | 0.716 | 0.78 (0.61 – 0.99) | 0.049 |
| Annual income (CNY/year) |  |  |  |  |
| ≤ 5000 | 1 |  | 1 |  |
| 5001 - 10000 | 0.65 (0.56 – 0.76) | < 0.001 | 0.65 (0.56 – 0.77) | < 0.001 |
| 10001 - 20000 | 0.68 (0.58 – 0.80) | < 0.001 | 0.70 (0.59 – 0.84) | < 0.001 |
| > 20000 | 0.57 (0.48 – 0.69) | < 0.001 | 0.60 (0.50 – 0.73) | < 0.001 |
| Peasantry(yes/no) | 0.71 (0.60 – 0.83) | < 0.001 | 0.66 (0.56 – 0.78) | < 0.001 |

Note: Level of education, drinking status, marital status and exercise regularly were excluded in three diagnosis criteria.

**Supplementary table 2. The association between Mets with cardiovascular disease by logistic regression.**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Variable | Coronary heart disease | | |  | Cerebrovascular disease | | | |
| Unadjusted 0R (95% CI) | Adjusted ORa  (95% CI) | p-value |  | Unadjusted 0R (95% CI) | Adjusted ORb  (95% CI) | p-value |
| Modified ATP III | 1.75 (1.45 – 2.11) | 1.67 (1.37 – 2.04) | < 0.001 |  | 1.33 (1.14 – 1.54) | 1.44 (1.23 – 1.70) | < 0.001 |
| IDF criteria | 1.63 (1.35 – 1.96) | 1.58 (1.30 – 1.93) | < 0.001 |  | 1.24 (1.07 – 1.45) | 1.38 (1.17 -1.63) | < 0.001 |
| Harmonized Definition | 1.77 (1.46 – 2.14) | 1.68 (1.38 – 2.05) | < 0.001 |  | 1.44 (1.24 – 1.67) | 1.51 (1.29 – 1.77) | < 0.001 |

aadjusting age, sex, smoking and drinking status, exercise status, MetS and cerebrovascular disease.

b adjusting age, sex, smoking and drinking status, exercise status, MetS and coronary heart disease.