**Supplementary Table 4.** Secular trends of MHNO and MUNO at different age groups between 2007 and 2017 and its comparison between men and women

|          | MHNO         |         | P value<sup>b</sup> | MUNO         |         | P value<sup>b</sup> |
|----------|--------------|---------|---------------------|--------------|---------|---------------------|
|          | β<sup>a</sup> |         |                     | β<sup>a</sup> |         |                     |
|          | Total        | Men     | Women               | Total        | Men     | Women               |
| All age, yr | 0.002        | −0.360  | 0.354<sup>c</sup>   | 0.012        | −0.316<sup>c</sup> | −0.303 | −0.327 | 0.828 |
| 20–39    | −0.291       | −0.445  | −0.135              | 0.286        | −0.293 | −0.422              | −0.186 | 0.434 |
| 40–59    | 0.272        | −0.274  | 0.803<sup>d</sup>   | 0.003        | −0.300<sup>c</sup> | −0.140 | −0.437<sup>d</sup> | 0.089 |
| ≥60      | 0.175        | −0.341  | 0.576<sup>c</sup>   | 0.013        | −0.408<sup>c</sup> | −0.404 | −0.497<sup>d</sup> | 0.569 |

MHNO, metabolically healthy non-obesity; MUNO, metabolically unhealthy non-obesity.

<sup>a</sup>Regression coefficient β demonstrates the annual change of obesity and its phenotype prevalence by use of weighted least square regression.

<sup>b</sup>Difference of regression coefficient β between men and women, <sup>c</sup>P<0.05, <sup>d</sup>P<0.01 statistical significance for regression coefficient β.