

## General Psychiatry

### Temporal trends and cohort variations of gender-specific major depressive disorders incidence in China: Analysis based on the age-period-cohort-interaction model

Supplementary Table 1 Estimated age and period main effects on major depressive disorder incidence by gender.

|                     | Total   |      |         | Female  |      |         | Male    |      |         |
|---------------------|---------|------|---------|---------|------|---------|---------|------|---------|
|                     | $\beta$ | IRR  | P value | $\beta$ | IRR  | P value | $\beta$ | IRR  | P value |
| Intercept           | -3.66   | 0.03 | <0.001  | -3.44   | 0.03 | <0.001  | -3.95   | 0.02 | <0.001  |
| Age main effects    |         |      |         |         |      |         |         |      |         |
| 5-9                 | -3.61   | 0.03 | <0.001  | -3.58   | 0.03 | <0.001  | -3.59   | 0.03 | <0.001  |
| 10-14               | -1.19   | 0.30 | <0.001  | -1.10   | 0.33 | <0.001  | -1.29   | 0.27 | <0.001  |
| 15-19               | -0.25   | 0.78 | <0.001  | -0.20   | 0.82 | <0.001  | -0.29   | 0.75 | <0.001  |
| 20-24               | -0.03   | 0.97 | <0.001  | -0.02   | 0.98 | <0.001  | -0.02   | 0.98 | <0.001  |
| 25-29               | -0.08   | 0.92 | <0.001  | -0.08   | 0.92 | <0.001  | -0.04   | 0.96 | <0.001  |
| 30-34               | -0.06   | 0.94 | <0.001  | -0.06   | 0.94 | <0.001  | -0.03   | 0.98 | <0.001  |
| 35-39               | 0.03    | 1.03 | <0.001  | 0.04    | 1.05 | <0.001  | 0.04    | 1.04 | <0.001  |
| 40-44               | 0.13    | 1.14 | <0.001  | 0.16    | 1.17 | <0.001  | 0.13    | 1.14 | <0.001  |
| 45-49               | 0.24    | 1.27 | <0.001  | 0.27    | 1.31 | <0.001  | 0.24    | 1.27 | <0.001  |
| 50-54               | 0.34    | 1.40 | <0.001  | 0.37    | 1.44 | <0.001  | 0.33    | 1.39 | <0.001  |
| 55-59               | 0.42    | 1.52 | <0.001  | 0.45    | 1.57 | <0.001  | 0.41    | 1.51 | <0.001  |
| 60-64               | 0.47    | 1.60 | <0.001  | 0.50    | 1.64 | <0.001  | 0.47    | 1.60 | <0.001  |
| 65-69               | 0.50    | 1.66 | <0.001  | 0.51    | 1.67 | <0.001  | 0.51    | 1.67 | <0.001  |
| 70-74               | 0.54    | 1.71 | <0.001  | 0.53    | 1.70 | <0.001  | 0.55    | 1.73 | <0.001  |
| 75-79               | 0.57    | 1.77 | <0.001  | 0.55    | 1.73 | <0.001  | 0.58    | 1.79 | <0.001  |
| 80-84               | 0.61    | 1.84 | <0.001  | 0.55    | 1.74 | <0.001  | 0.62    | 1.86 | <0.001  |
| 85-89               | 0.66    | 1.93 | <0.001  | 0.55    | 1.74 | <0.001  | 0.67    | 1.95 | <0.001  |
| 90-94               | 0.72    | 2.05 | <0.001  | 0.56    | 1.75 | <0.001  | 0.71    | 2.04 | <0.001  |
| Period main effects |         |      |         |         |      |         |         |      |         |
| 1990-94             | 0.07    | 1.07 | <0.001  | 0.08    | 1.08 | <0.001  | 0.05    | 1.05 | <0.001  |
| 1995-99             | 0.05    | 1.06 | <0.001  | 0.04    | 1.05 | <0.001  | 0.07    | 1.07 | <0.001  |
| 2000-04             | -0.02   | 0.99 | <0.001  | -0.03   | 0.97 | <0.001  | 0.00    | 1.00 | <0.001  |
| 2005-09             | -0.03   | 0.97 | <0.001  | -0.04   | 0.96 | <0.001  | -0.02   | 0.98 | <0.001  |
| 2010-14             | -0.05   | 0.96 | <0.001  | -0.04   | 0.96 | <0.001  | -0.05   | 0.95 | <0.001  |
| 2015-19             | -0.02   | 0.98 | <0.001  | -0.01   | 0.99 | <0.001  | -0.05   | 0.95 | <0.001  |

Note: IRR: Incidence Rate Ratio. The intercept of all models reflects the global mean of MDD incidence for the respective group, and the coefficients indicate the deviation of different age groups and periods from the global mean.