## Supplementary Table 3. Results of analysis using models for risk trajectories by multiple imputation methods (n=8,479)

|                                      | Model 1                  | Model 2                  |
|--------------------------------------|--------------------------|--------------------------|
|                                      | OR (95% CI)              | P-value                  | OR (95% CI) | P-value |
| Levels of knowledge of vaccines      |                          |                          |             |         |
| Low (ref: very low)                  | 0.95 (0.82 - 1.11)       | 0.756                    | 0.95 (0.70 - 1.29) | 0.762   |
| Moderate                             | 1.23 (1.08 - 1.39)       | 0.114                    | 1.23 (0.96 - 1.58) | 0.102   |
| High                                 | 1.51 (1.33 - 1.71)       | 0.001                    | 1.52 (1.19 - 1.94) | 0.001   |
| Age groups                           |                          |                          |             |         |
| Young (ref: elderly)                 | 0.86 (0.68 - 1.08)       | 0.195                    | 0.85 (0.67 - 1.09) | 0.202   |
| Middle age                           | 0.97 (0.80 - 1.18)       | 0.775                    | 0.96 (0.79 - 1.17) | 0.699   |
| Sex                                  |                          |                          |             |         |
| Women (ref: men)                     | 1.06 (0.90 - 1.25)       | 0.468                    | 1.05 (0.89 - 1.24) | 0.565   |
| Area                                 |                          |                          |             |         |
| Inland areas (ref: coastal and mountainous areas) | | | | |
| Health care workers (ref: government workers) | | | | | |
| Service                              | 1.15 (0.88 - 1.51)       | 0.304                    | 1.09 (0.99 - 1.20) | 0.385   |
| Schools                              | 1.04 (0.71 - 1.53)       | 0.825                    | 1.04 (0.80 - 1.37) | 0.754   |
| Others                               | 1.04 (0.80 - 1.37)       | 0.754                    | 1.04 (0.77 - 1.39) | 0.81    |
| The number of households             |                          |                          |             |         |
| Living alone (ref: living with 5 persons or more) | | | | |
| Living with 2 to 4 persons           | 1.01 (0.78 - 1.32)       | 0.933                    | 1.01 (0.78 - 1.32) | 0.933   |
| Levels of engagement of preventive measures | | | | |
| Moderate (ref: high)                 | 1.14 (0.96 - 1.34)       | 0.128                    | 1.14 (0.96 - 1.34) | 0.128   |
| Low                                  | 0.89 (0.72 - 1.11)       | 0.306                    | 0.89 (0.72 - 1.11) | 0.306   |
| Poor                                 | 0.85 (0.53 - 1.37)       | 0.500                    | 0.85 (0.53 - 1.37) | 0.500   |

Abbreviations: CI, confidence interval; OR, odds ratio