**eTable 1.** Sex- and age-specific prevalence of mild cognitive impairment and dementia by levels of urbanization, Taiwan, 2011–2013

| Cognitive status | Sex- and Age-specific Rates, % (95% CI)a | Rural / Urban Ratio |
|------------------|------------------------------------------|-------------------|
|                  | Urban | Suburban | Rural |                  |
| **Sex**          |       |          |       |                  |
| **Age, years**   |       |          |       |                  |
| Mild cognitive impairment |       |          |       |                  |
| **Men**          |       |          |       |                  |
| 65–69            | 10.60 (10.32–10.88) | 9.93 (9.73–10.13) | 11.25 (11.06–11.44) | 1.06 (0.63–1.79) |
| 70–74            | 10.57 (10.39–10.76) | 13.08 (12.95–13.21) | 15.13 (15.00–15.27) | 1.43 (0.96–2.13) |
| 75–79            | 14.98 (14.70–15.26) | 16.79 (16.61–16.98) | 19.09 (18.95–19.24) | 1.27 (0.87–1.86) |
| 80–84            | 17.41 (17.08–17.74) | 22.40 (22.14–22.66) | 21.27 (21.06–21.47) | 1.22 (0.84–1.79) |
| ≥85              | 21.33 (20.98–21.69) | 25.60 (25.26–25.94) | 23.92 (23.52–24.32) | 1.12 (0.75–1.67) |
| **Women**        |       |          |       |                  |
| 65–69            | 14.98 (14.74–15.23) | 14.01 (13.82–14.20) | 19.74 (19.53–19.94) | 1.32 (0.91–1.92) |
| 70–74            | 15.49 (15.30–15.67) | 17.83 (17.70–17.95) | 22.76 (22.68–22.89) | 1.47 (1.08–1.99) |
| 75–79            | 21.97 (21.72–22.23) | 24.57 (24.39–24.75) | 29.75 (29.58–29.92) | 1.35 (1.02–1.80) |
| 80–84            | 20.10 (19.71–20.48) | 22.73 (22.46–22.99) | 32.42 (32.19–32.65) | 1.61 (1.14–2.29) |
| ≥85              | 19.59 (19.19–19.99) | 25.91 (25.52–26.30) | 34.11 (33.68–34.55) | 1.74 (1.18–2.58) |
| **Dementia**     |       |          |       |                  |
| **Men**          |       |          |       |                  |
| 65–69            | 2.30 (2.17–2.44) | 2.74 (2.63–2.85) | 5.63 (5.48–5.77) | 2.44 (0.91–6.58) |
| 70–74            | 1.51 (1.44–1.58) | 2.62 (2.55–2.68) | 2.68 (2.62–2.74) | 1.78 (0.64–4.93) |
| 75–79            | 4.45 (4.29–4.62) | 6.02 (5.90–6.13) | 5.29 (5.21–5.38) | 1.19 (0.59–2.39) |
| 80–84            | 10.71 (10.44–10.98) | 7.57 (7.41–7.73) | 12.41 (12.24–12.57) | 1.16 (0.71–1.89) |
| ≥85              | 17.78 (17.44–18.11) | 18.80 (18.49–19.11) | 19.14 (18.77–19.51) | 1.08 (0.69–1.67) |
| **Women**        |       |          |       |                  |
| 65–69            | 1.05 (0.98–1.11) | 2.52 (2.43–2.61) | 5.26 (5.15–5.38) | 5.04 (1.50–16.94) |
| 70–74            | 1.31 (1.25–1.37) | 3.74 (3.67–3.80) | 6.89 (6.81–6.97) | 6.59 (2.61–16.64) |
| 75–79            | 4.46 (4.33–4.59) | 9.70 (9.57–9.82) | 10.75 (10.63–10.87) | 2.41 (1.34–4.33) |
| 80–84            | 11.76 (11.46–12.07) | 16.23 (16.00–16.47) | 17.46 (17.27–17.64) | 1.48 (0.93–2.36) |
| ≥85              | 21.13 (20.72–21.55) | 37.73 (37.30–38.16) | 43.93 (43.47–44.38) | 2.08 (1.44–3.00) |

CI, confidence interval.

a Prevalence rates were calculated per 100 persons.
### eTable 2. Heterogeneity estimates of each risk or protective factor for mild cognitive impairment and dementia among the urbanization levels, Taiwan, 2011–2013

| Variables                  | Mild Cognitive Impairment | Dementia |
|----------------------------|---------------------------|----------|
|                            | Cochran Q | P value | $I^2$ | Cochran Q | P value | $I^2$ |
| Sex (Ref.=Men)             | 1.93       | 0.38    | 0.00 | 5.66       | 0.06    | 64.69* |
| Age, years (Ref.=65–69)    |             |         |      |            |         |       |
| 70–74                      | 0.95       | 0.62    | 0.00 | 1.50       | 0.47    | 0.00  |
| 75–79                      | 0.78       | 0.68    | 0.00 | 4.61       | 0.10    | 56.61 |
| 80–84                      | 2.15       | 0.34    | 6.92 | 2.95       | 0.23    | 32.19 |
| ≥85                        | 8.15       | 0.02    | 75.46* | 4.10       | 0.13    | 51.20 |
| Education Years (Ref.= >12)|             |         |      |            |         |       |
| 0                          | 2.21       | 0.33    | 9.49 | 0.91       | 0.63    | 0.00  |
| ≤6                         | 3.24       | 0.20    | 38.22 | 0.78       | 0.68    | 0.00  |
| 7–12                       | 3.33       | 0.19    | 39.93 | 0.24       | 0.89    | 0.00  |
| Lifestyle habits (Ref.=No) |             |         |      |            |         |       |
| Smoking                    | 0.77       | 0.68    | 0.00 | 1.04       | 0.60    | 0.00  |
| Drinking                   | 2.70       | 0.26    | 25.96 | 5.16       | 0.08    | 61.25* |
| Regular exercise           | 0.63       | 0.73    | 0.00 | 13.8       | 0.00    | 85.53* |
| Social activity            | 6.18       | 0.05    | 67.64* | 0.34       | 0.84    | 0.00  |
| Comorbidities (Ref.=No)    |             |         |      |            |         |       |
| Hypertension               | 1.05       | 0.59    | 0.00 | 0.79       | 0.67    | 0.00  |
| Diabetes mellitus          | 5.41       | 0.07    | 62.10* | 1.18       | 0.56    | 0.00  |
| Stroke                     | 0.43       | 0.81    | 0.00 | 1.04       | 0.60    | 0.00  |
| Head injury                | 10.91      | 0.00    | 81.67* | 0.66       | 0.72    | 0.00  |
| Cancer                     | 0.19       | 0.91    | 0.00 | 2.75       | 0.25    | 27.38 |

Ref, reference.

* $P <0.1$