## Supplementary Materials

**Supplementary Table 1.** Medical conditions of the participants (n = 1,140).

| Variable | All | | No ($n$ = 1071) | | Yes ($n$ = 69). | | $p$-Value |
|---|---|---|---|---|---|---|---|
| **Medical condition** | $n$ | $n$ | $n$ | % | $n$ | % | |
| Hypertension | 620 | 54.4 | 588 | 54.9 | | 46.4 | 0.17 |
| Stroke | 15 | 1.3 | 14 | 1.3 | 1 | 1.4 | 0.92 |
| Heart diseases | 116 | 10.2 | 101 | 9.4 | 15 | 21.7 | 0.001 |
| Diabetes | 172 | 15.1 | 160 | 14.9 | 12 | 17.4 | 0.58 |
| Parkinson disease | 5 | 0.4 | 5 | 0.5 | 0 | 0 | 0.57 |
| Obesity (BMI≥30) | 38 | 3.3 | 35 | 3.3 | 3 | 4.3 | 0.35 |
| Psychopathology | 9 | 0.8 | 8 | 0.7 | 1 | 1.4 | 0.52 |
| Hyperlipidemia | 189 | 16.6 | 173 | 16.2 | 16 | 23.2 | 0.13 |
| Respiratory disease | 48 | 4.2 | 45 | 4.2 | 3 | 4.3 | 0.95 |
| Gastrointestinal disease | 91 | 8 | 89 | 8.3 | 2 | 2.9 | 0.11 |
| Urological disease | 91 | 8 | 85 | 7.9 | 6 | 8.7 | 0.82 |
| Musculoskeletal disease | 110 | 9.6 | 100 | 9.3 | 10 | 14.5 | 0.16 |
| Injury | 15 | 1.3 | 12 | 1.1 | 3 | 4.3 | 0.02 |
| Cancer | 61 | 5.4 | 59 | 5.5 | 2 | 2.9 | 0.35 |
| Hematological disease | 9 | 0.8 | 7 | 0.7 | 2 | 2.9 | 0.04 |
| Ophthalmological disease | 201 | 17.6 | 181 | 16.9 | 20 | 29 | 0.01 |
| Otorhinological disease | 39 | 3.4 | 34 | 3.2 | 5 | 7.2 | 0.07 |
| Sleep disorder | 2 | 0.2 | 2 | 0.2 | 0 | 0 | 0.72 |
| Other | 97 | 8.5 | 90 | 8.4 | 7 | 10.1 | 0.62 |

The "All" header and "No ($n$ = 1071)" / "Yes ($n$ = 69)" fall under the spanning header **Suicidality in Childhood**.

**Supplementary Table 2. Prevalence ratio with 95% CI for association with Geriatric Depression after MI (*n* = 1,140).**

| Variable. | | Crude PR (95% CI) | | Model I APR (95% CI) | | Model II APR (95% CI) | | Model III APR (95% CI) | | Model IV APR (95% CI) | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| *Childhood mental health status* | | | | | | | | | | | |
| Suicidal ideation (ref = No) | Yes | 1.58 | (1.15–2.15) | 1.55 | (1.17 – 2.07) | 1.4 | (1.04 – 1.88) | 1.38 | (1.03–1.86) | 1.38 | (1.02–1.88) |
| *Basic demographics* | | | | | | | | | | | |
| Age (years) | | 1.02 | (1.01–1.03) | 1.02 | (1.01 – 1.03) | 1.02 | (1.01 – 1.03) | 1.02 | (1–1.03) | 1.01 | (0.99–−1.02) |
| Sex (ref = Male) | Female | 1.21 | (0.99–1.47) | 1.14 | (0.94 – 1.38) | 1.19 | (0.98 – 1.45) | 1.1 | (0.9–1.35) | 1.14 | (0.91–1.43) |
| *Personality attribute* | | | | | | | | | | | |
| Neuroticism (ref = Q1) | Q2 | 1.49 | (1.13–1.97) | 1.29 | (0.98 – 1.71) | 1.29 | (0.98 –1.7) | 1.26 | (0.95–1.66) | 1.22 | (0.93–1.6) |
| | Q3 | 2.01 | (1.49–2.72) | 1.61 | (1.21 – 2.14) | 1.57 | (1.19 – 2.08) | 1.5 | (1.14–1.99) | 1.39 | (1.05–1.84) |
| | Q4 | 2.52 | (1.93–3.29) | 1.94 | (1.48 – 2.53) | 1.88 | (1.44 – 2.45) | 1.82 | (1.39–2.37) | 1.76 | (1.36–2.28) |
| Extroversion (ref = Q1) | Q2 | 0.7 | (0.55–0.89) | 0.74 | (0.58 – 0.94) | 0.73 | (0.58 – 0.93) | 0.73 | (0.58–0.93) | 0.76 | (0.59–0.96) |
| | Q3 | 0.56 | (0.39–0.82) | 0.66 | (0.46 – 0.96) | 0.65 | (0.45 – 0.94) | 0.67 | (0.46–0.96) | 0.67 | (0.47–0.96) |
| | Q4 | 0.44 | (0.33–0.59) | 0.54 | (0.4– 0.73) | 0.55 | (0.41 – 0.74) | 0.55 | (0.41–0.75) | 0.62 | (0.46–0.83) |
| Agreeableness (ref = Q1) | Q2 | 0.65 | (0.52–0.8) | 0.68 | (0.55 – 0.84) | 0.67 | (0.54 – 0.83) | 0.66 | (0.54–0.82) | 0.68 | (0.55–0.84) |
| | Q3 | 0.59 | (0.41–0.84) | 0.69 | (0.48 – 0.97) | 0.68 | (0.48 – 0.96) | 0.7 | (0.49–0.98) | 0.68 | (0.49–0.95) |
| | Q4 | 0.29 | (0.19–0.43) | 0.41 | (0.27 – 0.61) | 0.41 | (0.28 – 0.62) | 0.42 | (0.28–0.62) | 0.43 | (0.29 – 0.63) |
| Conscientiousness (ref = Q1) | Q2 | 0.74 | (0.57–0.95) | 0.77 | (0.6–0.98) | 0.79 | (0.62 –1) | 0.83 | (0.65–1.06) | 0.84 | (0.66–1.06) |
| | Q3 | 0.73 | (0.54–0.97) | 0.71 | (0.53 – 0.94) | 0.72 | (0.54 – 0.96) | 0.78 | (0.59–1.04) | 0.81 | (0.61–1.08) |
| | Q4 | 0.6 | (0.43–0.84) | 0.67 | (0.48 – 0.93) | 0.68 | (0.48 – 0.95) | 0.71 | (0.51–0.99) | 0.8 | (0.57 – 1.11) |

| Variable | Category | APR | 95%CI | APR | 95%CI | APR | 95%CI | APR | 95%CI | APR | 95%CI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Openness (ref = Q1) | Q2 | 0.75 | (0.56–1) | 0.9 | (0.67–1.21) | 0.94 | (0.7–1.26) | 0.95 | (0.71–1.27) | 0.93 | (0.7–1.24) |
| | Q3 | 0.66 | (0.5–0.87) | 0.81 | (0.63–1.06) | 0.83 | (0.64–1.08) | 0.82 | (0.64–1.07) | 0.85 | (0.66–1.09) |
| | Q4 | 0.49 | (0.34–0.69) | 0.69 | (0.48–0.97) | 0.7 | (0.49–0.99) | 0.7 | (0.5–0.99) | 0.72 | (0.51–1.01) |
| ***Childhood adversities*** | | | | | | | | | | | |
| ACE score (ref = 0) | 1 | 1.67 | (1.31–2.14) | | | 1.52 | (1.2–1.94) | 1.45 | (1.14–1.84) | 1.44 | (1.13–1.82) |
| | 2+ | 1.83 | (1.4–2.39) | | | 1.53 | (1.17–2.01) | 1.45 | (1.11–1.89) | 1.35 | (1.04–1.76) |
| ***Adulthood adversities*** | | | | | | | | | | | |
| Formal education (ref = <9 years) | 10–12 years | 0.82 | (0.66–1.02) | | | | | 1.02 | (0.82–1.26) | 1.05 | (0.85–1.31) |
| | 13 years + | 0.6 | (0.45–0.82) | | | | | 0.86 | (0.64–1.16) | 0.91 | (0.67–1.23) |
| Occupation (ref=manual/industrial laborer) | Skilled laborer | 0.58 | (0.41–0.84) | | | | | 0.75 | (0.52–1.07) | 0.77 | (0.53–1.1) |
| Annual household income (million yen) (ref = < 200) | 200–500 | 0.6 | (0.48–0.75) | | | | | 0.74 | (0.59–0.92) | 0.79 | (0.63–1) |
| | 500–900 | 0.58 | (0.41–0.81) | | | | | 0.67 | (0.47–0.94) | 0.71 | (0.49–1.01) |
| | 900+ | 0.26 | (0.10.64) | | | | | 0.33 | (0.14–0.8) | 0.37 | (0.15–0.91) |
| Total score of recent life event stressors | | 1 | (1–1) | | | | | 1 | (1–1) | 1 | (1–1) |
| ***Current health status & social relationships*** | | | | | | | | | | | |
| Total number of medical conditions | | 1.13 | (1.05–1.22) | | | | | | | 1.07 | (0.99–1.16) |
| Marital status (ref = Not married) | Married | 0.65 | (0.53–0.79) | | | | | | | 0.83 | (0.65–1.06) |
| Living arrangement (ref = Alone) | With someone | 0.69 | (0.53–0.9) | | | | | | | 0.99 | (0.73–1.35) |
| Employment status (ref = No) | Yes | 0.7 | (0.54–0.89) | | | | | | | 0.83 | (0.65–1.07) |
| Giving support (ref = No) | Yes | 0.61 | (0.5–0.75) | | | | | | | 0.82 | (0.63–1.06) |
| Receiving support (ref = No) | Yes | 0.55 | (0.46–0.67) | | | | | | | 0.78 | (0.61–1) |
| Help-seeking attitude (ref = Passive) | Neutral | 0.52 | (0.41–0.67) | | | | | | | 0.63 | (0.49–0.79) |
| | Active | 0.59 | (0.45–0.78) | | | | | | | 0.78 | (0.6–1.01) |

Note: MI = multiple imputation; APR = adjusted prevalence ratio; CI = confidential interval. Bold letters indicate statistically significant results where 95%CI did not include 1. Model I includes childhood suicidal ideation, demographics and personality attributes; Model II includes Model I variables + childhood adversities; Model III includes Model II variables + adulthood adversities; Model IV includes Model III variables + current health status and social relations.