Supplemental Online Content

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**eFigure.** The Survival Probability for Each Group

**eTable 1.** Study Population Observation Period Before and After PS Matching

**eTable 2.** Incidence of Individual Mental Disorders and Hazard Ratios Before and After PS Matching

This supplemental material has been provided by the authors to give readers additional information about their work.
eFigure. The Survival Probability for Each Group

GP, general population; NKMR, North Korean migrants and refugees

eFigure1 : The survival probability for each group
### eTable 1. Study Population Observation Period Before and After PS Matching

|          | Original |                | PS matching |                |
|----------|----------|----------------|-------------|----------------|
|          | Average Period | Min | Max | Average Period | Min | Max |
| GP       | 3,651 | 1 | 4,147 | 3,651 | 2 | 4,104 |
| NKMR     | 2,190 | 1 | 4,111 | 2,555 | 2 | 4,108 |

PS, propensity score; GP, general population; NKMR, North Korean migrants and refugees.

### eTable 2. Incidence of Individual Mental Disorders and Hazard Ratios Before and After PS Matching

| Disease                | Original |                | PS matching |                |
|------------------------|----------|----------------|-------------|----------------|
|                        | Incidence of mental disorder | HR | 95% CI | P value | Incidence of mental disorder | HR | 95% CI | P value |
| GP (ref)               | NKMR     |                |             |          | GP (ref) | NKMR |           |          |
| Schizophrenia          | 225      | 110            | 1.89        | 1.46-2.45 | <0.001 | 41   | 29       | 0.99     | 0.61-1.60 | 0.96       |
| Alcohol use disorder   | 407      | 209            | 1.85        | 1.53-2.24 | <0.001 | 65   | 81       | 1.68     | 1.21-2.36 | 0.002      |
| Drug use disorder      | 62       | 51             | 3.48        | 2.26-5.36 | <0.001 | 7    | 25       | 4.73     | 2.04-11.00 | <0.001     |
| MDD                    | 3,127    | 2,007          | 3.10        | 2.90-3.30 | <0.001 | 449  | 709      | 2.20     | 1.95-2.47 | <0.001     |
| Dysthymia              | 204      | 100            | 2.32        | 1.77-3.05 | <0.001 | 31   | 40       | 1.80     | 1.12-2.89 | 0.02       

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| Disorder                                | N   | Cases | OR   | 95% CI          | P-value | N   | Cases | OR   | 95% CI          | P-value |
|-----------------------------------------|-----|-------|------|-----------------|---------|-----|-------|------|-----------------|---------|
| Bipolar affective disorder              | 260 | 120   | 2.03 | 1.58-2.59       | <0.001  | 45  | 42    | 1.34 | 0.87-2.05       | 0.18    |
| Anxiety panic disorder                  | 2,976 | 1,308 | 2.27 | 2.11-2.44       | <0.001  | 378 | 505   | 1.86 | 1.62-2.13       | <0.001  |
| Obsessive compulsive disorder           | 114 | 12    | 0.66 | 0.35-1.24       | 0.20    | 15  | 6     | 0.52 | 0.20-1.35       | 0.18    |
| PTSD                                    | 95  | 118   | 4.91 | 3.59-6.71       | <0.001  | 15  | 29    | 2.53 | 1.35-4.74       | 0.004   |
| Dissociative disorder                   | 23  | 8     | 1.29 | 0.52-3.17       | 0.58    | 5   | 1     | 0.27 | 0.03-2.36       | 0.24    |
| Eating disorder                         | 97  | 22    | 1.16 | 0.70-1.92       | 0.32    | 15  | 10    | 0.89 | 0.40-1.99       | 0.78    |
| Autistic disorder                       | 84  | 30    | 1.35 | 0.80-2.30       | 0.26    | 7   | 9     | 1.80 | 0.64-5.05       | 0.26    |
| ADHD                                    | 508 | 226   | 1.09 | 0.90-1.32       | 0.38    | 90  | 71    | 0.94 | 0.68-1.28       | 0.67    |
| Conduct disorder                        | 60  | 34    | 1.30 | 0.78-2.15       | 0.31    | 14  | 9     | 0.80 | 0.34-1.85       | 0.60    |
| Idiopathic intellectual disability     | 194 | 46    | 0.58 | 0.40-0.82       | 0.002   | 54  | 18    | 0.55 | 0.32-0.96       | 0.03    |
| Borderline personality disorder         | 31  | 5     | 0.44 | 0.16-1.23       | 0.12    | 3   | 1     | 0.45 | 0.05-4.97       | 0.53    |
| Other mental disorder                   | 5,720 | 2,450 | 2.03 | 1.92-2.14       | <0.001  | 730 | 967   | 1.76 | 1.59-1.94       | <0.001  |

PS, propensity score; GP, general population; NKMR, North Korean migrants and refugees; MDD, major depressive disorder; PTSD, posttraumatic stress disorder; ADHD, attention deficit/hyperactivity disorder.