Supplementary File 1. Measurement and coding of independent variables.

Variable Measure	Variable register or survey item	Variable coding	Variable source
Severity of mental illness	Register: Landspatientregisteret LPR_3, Diagnoser and Kontakter Variable Diagnoser: diagnosekode Variable Kontakter: start_dato Data extraction period: 1/12/2023-15/12/2023 Data type: Occurrence	Non-presence of severe mental illness (value 0): No occurrence of one of the following diagnoses: F20-F22*, F24*, F25*, F28-F31*, F32.3*, F33.3* *Including sub-diagnoses Presence of severe mental illness (value 1): Minimal one occurrence of one of the following action diagnoses: F20-F22*, F24*, F25*, F28-F31*, F32.3*, F33.3* *Including sub-diagnoses	Danish Health Data Authorities
Age	Register: Befolkningen (BEF) Variable: Alder Data extraction time: 30/06/2023 Data type: Status	Continuous age 10-year age intervals for the test of representativeness	Statistics Denmark
Migrant status	Register: Befolkningen (BEF) Variable: Invandringstype (IE_type) Data extraction time: 30/06/2023 Data type: Status	Non-Danish origin: Immigrants, and descendants from immigrants (value 0) Danish origin: Not Immigrants, and descendants from immigrants (value 1)	Statistics Denmark
Gender	Register: Befolkningen (BEF) Variable: Køn Data extraction time: 30/06/2023 Data type: Status	Male: Gender as male according to the official CPR register (value 0) Female: Gender as female according to the official CPR register (value 1)	Statistics Denmark
Geographical location	Register: Befolkningen (BEF) Variable: ADRESSE_ID Classification scheme: KOMMUNEGRUPPER_V1_2018 Data extraction time: 30/06/2023	Small city: Rural area municipalities, outlying municipalities, suburban municipalities (value 0)	Statistics Denmark

	Data: Status	Large city: Big city municipalities, capital region municipalities (value 1)	
Socioecono mic position	Registers: Uddannelse (UDDA) and Arbejdsmarkedsklassifikationsmodulet (AKM) Variable UDDA: AUDD Variable AKM: SOCIO13 Classification scheme for UDDA: DISCED-15 Classification scheme for AKM: SOCIO13_V1_2014 Data extraction time for UDDA: 30/09/2022 Data extraction time for AKM: 21/12/2022 Data type: Status	Lowest level of highest educational attainment: High school (value 0) Middle level of highest educational attainment: Upper secondary and vocational education (value 1) Highest level of highest educational attainment: Higher education (value 2) Lowest level of labor market position: Not economically active and others* (value 0) Middle level of labor market position: Temporarily not economically active (value 1) Highest level of labor market position: Economically active (value 2) *Note that "others" concerns individuals with little or no connection to the labor market, with income from employment, unemployment benefits, or social assistance below 58,600 DKK (2016 prices), and who are not enrolled in education according to Statistics Denmark Index calculated between highest educational attainment and labor market position, both given equal weight	Statistics Denmark

Social Support	Variables: "How often has someone suggested some action you should take in a particular situation?" (Enacted social support), "Imagine that you have a problem that you cannot resolve. How willing do you think people around you would be to help you find a solution to the problem?" (Perceived social support), "In the past two weeks, how often have you seen your family?" (embedded social support), "In the past two weeks, how often have you seen your friends?" (embedded social support). Data extraction time: 28/02/2024 Data type: Status	Please see the specific categories for the variable items in Appendix B. The index is calculated as follows: 1/3 weight: "How often has someone suggested some action you should take in a particular situation?" 1/3 weight: "Imagine that you have a problem that you cannot resolve. How willing do you think people around you would be to help you find a solution to the problem?" 1/6 weight: "In the past two weeks, how often have you seen your family?" 1/6 weight: "In the past two weeks, how often have you seen your friends?"	Survey question-naire