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**eTable 1.** Percentage Distribution and Mean Number of Hospitalizations Among Individuals With at Least One Hospitalization Due to Suicide Attempts, Across the Study Variables and Trajectories

**eTable 2.** Model Fit Statistics for the Group-Based Trajectory Modelling (n=525)

**eTable 3.** Fitted Coefficients (Maximum Likelihood Estimates) for the Preferred Model (Logit Model With Four Trajectories and a Cubic Polynomial Function), Derived From Group-Based Trajectory Modelling (n=525)

**eTable 4.** Distribution of Suicide Across Trajectories of Hospitalization Due to Suicide Attempts (n=14,559)

**eFigure.** Distribution (%) of the Number of Hospitalizations Due to Suicide Attempts Across the Trajectories (n=525)

This supplementary material has been provided by the authors to give readers additional information about their work.
eTable 1. Percentage distribution and mean number of hospitalizations among individuals with at least one hospitalization due to suicide attempts, across the study variables and trajectories.

| Variables                  | Percentage (%) with at least one hospitalization due to suicide attempts\(^1\) | Mean number of hospitalizations among individuals with at least one hospitalization due to suicide attempts\(^2\) | Percentage (%) individuals in Trajectory 1: Peak in middle adulthood\(^2\) | Percentage (%) individuals in Trajectory 2: Stable low across adulthood\(^2\) | Percentage (%) individuals in Trajectory 3: Peak in young adulthood\(^2\) | Percentage (%) individuals in Trajectory 4: Peak in emerging adulthood\(^2\) |
|---------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Variables                 |                                                                                 |                                                                                 |                                                                                 |                                                                                 |                                                                                 |                                                                                 |
| Out-of-home care          |                                                                                 |                                                                                 |                                                                                 |                                                                                 |                                                                                 |                                                                                 |
| Yes                       | 9.9                                                                             | 2.24                                                                            | 10.7                                                                            | 29.0                                                                            | 45.8                                                                            | 14.5                                                                            |
| No                        | 3.0                                                                             | 1.97                                                                            | 13.2                                                                            | 32.7                                                                            | 38.1                                                                            | 16.0                                                                            |
| Sex                       |                                                                                 |                                                                                 |                                                                                 |                                                                                 |                                                                                 |                                                                                 |
| Women                     | 3.7                                                                             | 2.09                                                                            | 14.0                                                                            | 33.0                                                                            | 36.0                                                                            | 17.1                                                                            |
| Men                       | 3.5                                                                             | 1.98                                                                            | 11.1                                                                            | 30.7                                                                            | 44.1                                                                            | 14.2                                                                            |
| Social class              |                                                                                 |                                                                                 |                                                                                 |                                                                                 |                                                                                 |                                                                                 |
| High                      | 3.0                                                                             | 2.09                                                                            | 13.5                                                                            | 32.7                                                                            | 40.8                                                                            | 13.0                                                                            |
| Low                       | 4.2                                                                             | 2.00                                                                            | 11.9                                                                            | 31.1                                                                            | 39.4                                                                            | 17.8                                                                            |
| Educational level         |                                                                                 |                                                                                 |                                                                                 |                                                                                 |                                                                                 |                                                                                 |
| High                      | 2.8                                                                             | 2.18                                                                            | 12.4                                                                            | 29.5                                                                            | 42.9                                                                            | 15.2                                                                            |
| Low                       | 3.9                                                                             | 2.06                                                                            | 12.6                                                                            | 32.4                                                                            | 39.3                                                                            | 15.7                                                                            |
| Poverty                   |                                                                                 |                                                                                 |                                                                                 |                                                                                 |                                                                                 |                                                                                 |
| Yes                       | 7.0                                                                             | 2.04                                                                            | 11.8                                                                            | 29.4                                                                            | 44.7                                                                            | 14.1                                                                            |
| No                        | 2.9                                                                             | 2.03                                                                            | 13.0                                                                            | 33.0                                                                            | 37.8                                                                            | 16.3                                                                            |
| Death                     |                                                                                 |                                                                                 |                                                                                 |                                                                                 |                                                                                 |                                                                                 |
| Yes                       | 5.0                                                                             | 1.96                                                                            | 11.1                                                                            | 28.9                                                                            | 42.2                                                                            | 17.8                                                                            |
| No                        | 3.5                                                                             | 2.04                                                                            | 12.7                                                                            | 32.1                                                                            | 39.8                                                                            | 15.4                                                                            |
| Criminality               |                                                                                 |                                                                                 |                                                                                 |                                                                                 |                                                                                 |                                                                                 |
| Yes                       | 6.8                                                                             | 2.23                                                                            | 12.8                                                                            | 32.1                                                                            | 42.3                                                                            | 12.8                                                                            |
| No                        | 3.3                                                                             | 2.00                                                                            | 12.5                                                                            | 31.8                                                                            | 39.6                                                                            | 16.1                                                                            |
| Alcohol misuse            |                                                                                 |                                                                                 |                                                                                 |                                                                                 |                                                                                 |                                                                                 |
| Yes                       | 7.9                                                                             | 2.01                                                                            | 5.6                                                                             | 26.8                                                                            | 49.3                                                                            | 18.3                                                                            |
| No                        | 3.3                                                                             | 2.04                                                                            | 13.7                                                                            | 32.6                                                                            | 38.6                                                                            | 15.2                                                                            |
| Mental health problems    |                                                                                 |                                                                                 |                                                                                 |                                                                                 |                                                                                 |                                                                                 |
| Yes                       | 8.4                                                                             | 2.17                                                                            | 10.3                                                                            | 25.6                                                                            | 47.4                                                                            | 16.7                                                                            |
| No                        | 3.3                                                                             | 2.01                                                                            | 13.0                                                                            | 32.9                                                                            | 38.7                                                                            | 15.4                                                                            |

\(^1\) n=14,559; \(^2\) n=525
**eTable 2. Model fit statistics for the group-based trajectory modelling (n=525).**

| Polynomial type | Nonsymmetric or highly singular variance matrix | Small groups (n<5%) | Bayesian Information Criterion (BIC)* |
|-----------------|-----------------------------------------------|---------------------|--------------------------------------|
| Intercept       |                                               |                     | -3461.28                             |
| 2 trajectories  | No                                            | Yes                 | -3467.54                             |
| 4 trajectories  | No                                            | Yes                 | -3473.80                             |
| 5 trajectories  | Yes                                           | Yes                 | -3480.07                             |
| 6 trajectories  | Yes                                           | Yes                 | -3486.33                             |
| 7 trajectories  | Yes                                           | Yes                 | -3492.59                             |
| Linear          |                                               |                     | -3460.78                             |
| 2 trajectories  | No                                            | Yes                 | -3456.84                             |
| 4 trajectories  | Yes                                           | Yes                 | -3482.63                             |
| 5 trajectories  | Yes                                           | Yes                 | -3472.01                             |
| 6 trajectories  | No                                            | Yes                 | -3478.79                             |
| 7 trajectories  | Yes                                           | Yes                 | -3492.20                             |
| Quadratic       |                                               |                     | -3452.72                             |
| 2 trajectories  | No                                            | No                  | -3451.19                             |
| 3 trajectories  | No                                            | Yes                 | -3435.70                             |
| 4 trajectories  | No                                            | Yes                 | -3438.88                             |
| 5 trajectories  | No                                            | Yes                 | -3447.09                             |
| 6 trajectories  | No                                            | Yes                 | -3446.46                             |
| 7 trajectories  | No                                            | Yes                 | -3453.10                             |
| Cubic           |                                               |                     | -3451.19                             |
| 4 trajectories* | No                                            | No                  | -3458.17                             |
| 6 trajectories  | No                                            | Yes                 | -3458.11                             |
| 7 trajectories  | Yes                                           | Yes                 | -3461.80                             |

* The lower the BIC, the better the model fit.

*Preferred model. Model with nonsymmetric or highly singular variance matrix were disqualified, as were models with one or more small groups (n<5%). Thus, remaining models were: the two-trajectory model with quadratic polynomial, as well as the two-, three-, and four-trajectory models with cubic polynomial. Of these, the four-trajectory model had the lowest BIC and was thus chosen.
eTable 3. Fitted coefficients (maximum likelihood estimates) for the preferred model (logit model with four trajectories and a cubic polynomial function), derived from group-based trajectory modelling (n=525).

| Trajectory/Group | Parameter | Estimate | Standard error | T for H0: Parameter=0 | Prob > |T|
|------------------|-----------|----------|----------------|-----------------------|--------|
| 1                | Intercept | -7.02994 | 94.02447       | -0.075                | 0.9404 |
|                  | Linear    | 0.23768  | 11.60894       | 0.020                 | 0.9837 |
|                  | Quadratic | 0.01555  | 0.47375        | 0.033                 | 0.9738 |
|                  | Cubic     | -0.00068 | 0.00639        | -0.107                | 0.9151 |
| 2                | Intercept | -6.86354 | 10.41104       | -0.659                | 0.5097 |
|                  | Linear    | -0.15216 | 0.97813        | -0.156                | 0.8764 |
|                  | Quadratic | 0.02152  | 0.03016        | 0.713                 | 0.4757 |
|                  | Cubic     | -0.00068 | 0.00031        | -1.230                | 0.2187 |
| 3                | Intercept | -2.32132 | 3.96600        | -0.585                | 0.5583 |
|                  | Linear    | -0.10704 | 0.31857        | -0.336                | 0.7369 |
|                  | Quadratic | 0.00294  | 0.00793        | 0.370                 | 0.7112 |
|                  | Cubic     | -0.00002 | 0.00006        | -0.340                | 0.7339 |
| 4                | Intercept | -132.59235 | 111.02507   | -1.194                | 0.2324 |
|                  | Linear    | 7.07719  | 6.62292        | 1.069                 | 0.2853 |
|                  | Quadratic | -0.12435 | 0.13080        | -0.951                | 0.3418 |
|                  | Cubic     | 0.00070  | 0.00086        | 0.819                 | 0.4125 |

| Group membership | %     |         |               | Prob > 0.00000        |
|------------------|-------|---------|---------------|-----------------------|
| 1                | 12.13288 | 2.54780 | 4.762         | 0.0000                |
| 2                | 32.38007 | 4.33939 | 7.462         | 0.0000                |
| 3                | 41.22317 | 7.13070 | 5.781         | 0.0000                |
| 4                | 14.26388 | 5.20628 | 2.740         | 0.0062                |

*The percentages are based on predicted group membership and do therefore do not exactly correspond to the percentages presented in the manuscript for the same groups.*
eTable 4. Distribution of suicide across trajectories of hospitalization due to suicide attempts (n=14,559).

| Variables                                      | Suicide |
|------------------------------------------------|---------|
| n                                              | %       |
| 154                                             | 1.1     |
| **Hospitalization due to suicide attempts**     |         |
| No                                             | 107     | 0.8   |
| Yes                                            | 47      | 9.0   |
| **Trajectories of hospitalization due to suicide attempts** |         |
| Trajectory 1: Peak in middle adulthood          | 8       | 12.1  |
| Trajectory 2: Stable low across adulthood       | 9       | 5.4   |
| Trajectory 3: Peak in young adulthood           | 23      | 11.0  |
| Trajectory 4: Peak in emerging adulthood        | 7       | 8.5   |

The coding of suicide (ages 20-65) is based on the same (underlying) ICD diagnoses as for suicide attempts. Information based on death records in the Cause of Death Register.
eFigure 1. Distribution (%) of the number of hospitalizations due to suicide attempts across the trajectories (n=525). Mean number of hospitalizations: Trajectory 1=2.30; Trajectory 2=2.20; Trajectory 3=2.08; Trajectory 4=1.39.