**Table S1. Sociodemographic characteristics by clusters of labour market trajectories. (Percent) Supplementary table using complete case analysis.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **N** | **Grand mean** | **Cluster 1** | **Cluster 2** | **Cluster 3** |
| **Sociodemographic characteristics and class of origin** |  |  |  |  |  |
|  Gender (% female) | 3100 | 48.0 | 60.0 | 38.6 | 50.0 |
|  Household disposable income (mean equivalented in Dkr) | 3056 | 106,944 | 113,386 | 103,807 | 86,571 |
|  Parental education (% unskilled) | 3052 | 38.6 | 26.4 | 46.6 | 56.1 |
|  Lone parent (% living with single parent) | 3079 | 8.5 | 7.0 | 9.0 | 15.4 |
|  Number of children in household (mean) | 3101 | 2.4 | 2.5 | 2.4 | 2.1 |
| **Mean duration of state spaces (in months)** |  |  |  |  |  |
|  Basic school |  | 15.5 | 15.5 | 15.4 | 16.6 |
|  Upper secondary |  | 19.5 | 33.7 | 11.0 | 2.6 |
|  Vocational training |  | 20.8 | 4.1 | 33.5 | 13.3 |
|  Higher education |  | 27.5 | 60.7 | 6.1 | 0.6 |
|  Other education |  | 2.9 | 2.0 | 3.4 | 4.4 |
|  Employed |  | 84.8 | 63.8 | 105.9 | 17.1 |
|  Outside labour market |  | 33.0 | 24.3 | 28.7 | 149.4 |
| N (for register-based measures) (%) |  | 3264 | 1297(39.7) | 1797(55.1) | 170(5.2) |
| **Adverse childhood experiences** |  |  |  |  |  |
|  Mean number of adverse childhood experiences | 1788 | 0.7 | 0.6 | 0.8 | 1.5 |
|  Parental divorce |  | 18.8 | 14.5 | 21.9 | 35.0 |
|  Parental unemployment |  | 16.8 | 13.5 | 18.8 | 30.5 |
|  Parental death |  | 4.3 | 3.4 | 4.8 | 11.7 |
|  Parental drug or alcohol abuse |  | 11.6 | 9.0 | 13.2 | 22.0 |
|  Abuse or neglect |  | 4.6 | 3.3 | 4.9 | 19.0 |
|  Witness violent event |  | 4.8 | 2.7 | 3.1 | 10.0 |
|  Parental accident or serious illness |  | 12.2 | 11.2 | 12.3 | 20.3 |
|  |  |  |  |  |  |

**Table S2. Adverse childhood experiences (ACEs) (until age 16) and labour market trajectories (age 16–32). Multinomial logistic regression (95 % CI). Supplementary table using complete case analysis.**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Cluster membership** | **Model 1 (Bivariate associations)** | **Model 2 (Adjusted for SES)** |
| **Adverse childhood experiences (N = 1,710)** |  |  |  |
|  No. of adverse childhood experiences | 1 | 1 (ref) | 1 (ref) |
|  | 2 | 1.22 (1.11-1.35) | 1.17 (1.05-1.31) |
|  | 3 | 1.77 (1.45-2.18) | 1.67 (1.34-2.10) |
|  Parental divorce | 1  | 1 (ref) | 1 (ref) |
|  | 2 | 1.64 (1.27-2.12) | 1.63 (1.21-2.20) |
|  | 3 | 2.70 (1.43-5.09) | 2.09 (0.99-4.41) |
|  Parental death | 1 | 1 (ref) | 1 (ref) |
|  | 2 | 1.12 (0.67-1.88) | 0.97 (0.55-1.69) |
|  | 3 | 3.19 (1.18-8.63) | 2.39 (0.82-7.00) |
|  Parental drug or alcohol abuse | 1 | 1 (ref) | 1 (ref) |
|  | 2 | 1.46 (1.06-1.99) | 1.33 (0.96-1.85) |
|  | 3 | 2.87 (1.41-5.84) | 2.30 (1.10-4.81) |
|  Parental unemployment | 1 | 1 (ref) | 1 (ref) |
|  | 2 | 1.45 (1.11-1.89) | 1.20 (0.91-1.60) |
|  | 3 | 2.60 (1.36-4.98) | 1.99 (1.01-3.94) |
|  Abuse or neglect | 1 | 1 (ref) | 1 (ref) |
|  | 2 | 1.24 (0.74-2.08) | 1.34 (0.79-2.28) |
|  | 3 | 6.53 (2.89-14.74) | 6.00 (2.59-13.92) |
|  Witness violent event | 1 | 1 (ref) | 1 (ref) |
|  | 2 | 2.08 (1.26-3.45) | 1.87 (1.11-3.16) |
|  | 3 | 3.03 (1.01-9.11) | 2.60 (0.85-7.98) |
|  Parental accident or serious illness | 1 | 1 (ref) | 1 (ref) |
|  | 2 | 1.05 (0.77-1.42) | 0.98 (0.72-1.35) |
|  | 3 | 2.28 (1.13-4.59) | 2.00 (0.98-4.10) |
| **Sociodemographic characteristics and class of origin(N = 2,996)** |  |  |  |
|  Gender (male vs. female) | 1 | 1 (ref) | 1 (ref) |
|  | 2 | 0.41 (0.36-0.48) | 0.40 (0.35-0.47) |
|  | 3 | 0.67 (0.47-0.96) | 0.64 (0.45-0.92) |
|  Parents unskilled vs. Skilled | 1 | 1 (ref) | 1 (ref) |
|  | 2 | 2.42 (2.06-2.84) | 2.39 (2.03-2.82) |
|  | 3 | 3.69 (2.56-5.30) | 3.46 (2.40-4.99) |
|  Household disposable income (in 100.000 Dkr) | 1 | 1 (ref) | 1 (ref) |
|  | 2 | 0.75 (0.65-0.87) | 0.77 (0.65-0.90) |
|  | 3 | 0.40 (0.26-0.63) | 0.43 (0.27-0.70) |
|  Lone parent vs. two parents | 1 | 1 (ref) | 1 (ref) |
|  | 2 | 1.31 (0.98-1.74) | 1.20 (0.89-1.63) |
|  | 3 | 2.51 (1.48-4.25) | 2.01 (1.16-3.49) |
|  Number of children in household | 1 | 1 (ref) | 1 (ref) |
|  | 2 | 0.94 (0.88-1.01) | 0.93 (0.87-1.01) |
|  | 3 | 0.88 (0.73-1.07) | 0.86 (0.71-1.06) |