

Table S1 Differences between the classes in demographic and admission characteristics (N = 270)

	Overall mean	Class 1 (n = 119)	Class 2 (n = 70)	Class 3 (n = 49)	Class 4 (n = 32)	Wald	p	Post hoc
Age at admission, in years	16.9	16.9	17.6	16.8	15.6	24.44	.000	1,2,3 > 4 2 > 3
Immigrants (1 st or 2 nd generation)	34.8%	26.4%	58.3%	21.7%	35.4%	13.70	.003	2 > 1,3
Most recent IQ	93.9	93.2	91.9	97.2	97.1	6.13	.110	-
Earliest age of (outpatient) care	8.6	9.1	9.2	8.0	6.8	8.33	.040	1,2 > 4
Only child	15.4%	11.6%	15.8%	17.5%	25.6%	2.91	.410	-
Judicial measure						16.09	.013	2,3 ≠ 4
Criminal law	47.8%	46.1%	68.9%	46.6%	10.0%			
Civil law	43.7%	45.7%	29.5%	36.1%	79.1%			
Voluntary	8.5%	8.2%	1.7%	17.3%	10.9%			

Table S2 Differences between the classes in psychopathology and substance use (N = 270)

	Overall mean	Class 1 (n = 119)	Class 2 (n = 70)	Class 3 (n = 49)	Class 4 (n = 32)	Wald	p	Post hoc
Disruptive behaviour disorder	48.9%	54.4%	60.8%	29.8%	32.2%	11.37	.010	1,2 > 3 2 > 4
Autism spectrum disorder	42.6%	50.0%	17.4%	74.5%	20.1%	28.64	.000	1,3 > 2,4 3 > 1
Attention deficit/hyperactivity disorder	23.3%	28.7%	11.3%	23.3%	29.9%	4.01	.260	-
Substance disorder	22.6%	33.1%	31.7%	0.2%	0.6%	194.67	.000	1,2 > 3,4
Reactive attachment disorder	12.6%	3.0%	23.8%	5.7%	35.0%	15.83	.001	2,4 > 1,3
Schizophrenia or another psychotic disorder	9.3%	11.9%	15.6%	0.1%	0.1%	103.47	.000	1,2 > 3,4
Mood disorder	8.5%	8.9%	8.0%	8.9%	7.6%	.08	.990	-
Anxiety disorder	8.1%	3.6%	8.9%	10.1%	20.7%	7.38	.061	-
Personality disorder	11.3%	5.5%	29.8%	2.0%	11.3%	6.87	.076	-
Mental retardation	5.9%	6.4%	9.9%	3.0%	0.2%	6.16	.100	-
Soft drug use	69.5%	98.0%	89.1%	2.8%	27.1%	49.64	.000	1,2 > 3,4 4 > 3
Hard drug use	27.2%	37.0%	44.3%	0.2%	0.7%	214.33	.000	1,2 > 3,4
Alcohol use	72.7%	89.6%	89.3%	31.8%	39.8%	41.83	.000	1,2 > 3,4

Table S3 Differences between the classes in criminal behaviour (N = 270)

	Overall mean	Class 1 (n = 119)	Class 2 (n = 70)	Class 3 (n = 49)	Class 4 (n = 32)	Wald	p	Post hoc
No conviction	18.9%	13.4%	10.5%	21.9%	53.1%	18.03	.000	4 > 1,2,3
Drug offence	4.4%	7.5%	2.6%	1.7%	1.3%	2.65	.450	-
Vandalism (property)	30.7%	40.7%	40.6%	10.3%	3.8%	12.59	.006	1,2 > 3,4
Property offence without violence	45.2%	52.7%	67.6%	9.6%	23.7%	22.69	.000	1,2 > 3,4
Moderate violent offence	50.0%	55.8%	62.7%	36.3%	21.9%	12.25	.007	1,2 > 4 2 > 3
Violent property offence	19.6%	25.4%	29.6%	4.7%	0.3%	48.21	.000	1,2 > 3,4 3 > 4
Serious violent offence	7.8%	11.7%	7.0%	4.4%	0.2%	13.52	.004	1,2,3 > 4
Sex offence	13.3%	2.0%	12.9%	44.1%	9.1%	21.37	.000	3 > 1,2,4
Manslaughter	3.3%	0.1%	5.0%	4.2%	10.7%	2.61	.460	-
Arson	0.7%	0.6%	1.8%	0%	0.1%	10.62	.014	1,2 > 3
Murder	2.6%	1.0%	5.8%	3.7%	0%	12.10	.007	2,3 > 4
Age first criminal behaviour	13.8	14.2	13.2	13.9	13.8	3.49	.320	-
Age first violent behaviour	14.4	14.8	14.1	14.7	12.9	5.53	.140	-

Table S4 Differences between the classes in life events (N = 270)

	Overall mean	Class 1 (n = 119)	Class 2 (n = 70)	Class 3 (n = 49)	Class 4 (n = 32)	Wald	P	Post hoc
Chronic illness or hospitalization	15.0%	15.5%	20.5%	8.6%	11.2%	2.43	.490	-
Victim physical abuse (outside the family)	12.7%	8.4%	19.9%	9.6%	18.3%	4.20	.240	-
Victim sexual abuse	8.3%	2.9%	17.4%	8.0%	9.5%	4.52	.210	-
Victim discrimination	2.7%	3.7%	4.0%	0.1%	0%	8.44	.038	1,2 > 4
Financial problems	18.1%	18.5%	36.1%	2.7%	2.6%	10.42	.015	2 > 1,3
Migration	17.1%	12.3%	29.9%	13.1%	13.2%	7.38	.061	-
Fled from another country	3.7%	6.8%	2.8%	0.1%	0.1%	15.68	.001	1,2 > 3 1 > 4
Out-of-home-placement	46.5%	42.6%	48.3%	30.2%	82.4%	11.42	.010	4 > 1,2,3
Chronic illness or hospitalization of parents	21.7%	14.0%	27.0%	28.4%	28.1%	4.46	.220	-
Chronic illness or hospitalization of brother/sister	3.1%	5.8%	1.1%	1.8%	0%	14.73	.002	1,3 > 4
Drug abuse parents	31.2%	9.2%	70.8%	7.7%	61.3%	41.56	.000	2,4 > 1,3
Psychopathology parents	39.9%	26.7%	60.1%	36.2%	51.3%	11.41	.010	2 > 1,3
Psychopathology brother/sister	19.0%	15.1%	29.0%	13.4%	22.0%	3.59	.310	-
Divorced parents	64.3%	47.5%	87.7%	58.1%	86.0%	20.13	.000	2,4 > 1,3
Problems with new parent(s)	19.0%	14.7%	32.9%	3.4%	29.4%	10.39	.016	2,4 > 3 2 > 1
Financial problems parents	18.3%	5.7%	36.9%	13.3%	33.9%	14.70	.002	2,4 > 1 2 > 3
Work problems or unemployment parents	25.0%	21.7%	29.2%	20.8%	35.0%	2.26	.520	-
Deceased parents	9.5%	8.3%	13.8%	7.0%	9.3%	1.39	.710	-
Deceased brother/sister	3.4%	4.1%	4.7%	0%	3.4%	22.92	.000	1,2,4 > 3
Victim bullying	49.2%	40.6%	50.3%	86.1%	19.5%	18.10	.000	3 > 1,2,4 2 > 4
Impregnated a girl	1.9%	0.3%	2.2%	0%	10.2%	19.03	.000	2,4 > 3