Young adults exposed to traumatic events in childhood use more over-the-counter pain medication than unexposed.

Pain and psychological symptoms emerging in adolescence may in part explain this difference.

									Mod	del 1ª		Mod	lel 2 ^{a b}		Mod	del 3 ^{a b c}		Mod	iel 4 a b c
	Use of OTCA to	treat headaches		Use of OTCA to	treat musculoskeletal	l pain			(sex ar	nd age)		(back	ground)		(somatic	symptoms)		(psychologi	ical symptoms)
	Never/rarely	1-3 times/week	≥4 times/week	Never/rarely	1-3 times/week	≥4 times/week			(n=275	0-2768)		(n=26	36-2648)		(n=24)	78-2488)		(n=15	70-1576)
		,	·	, ,	,	•		n	OR (95%CI)	p-value	n	OR (95%CI)	p-value	n	OR (95%CI)	p-value	n	OR (95%CI)	p-value
rticipants	2133 (73.3%)	699 (24.0%)	79 (2.7%)	2457 (85.4%)		97 (3.4%)	Direct exposure to interpersonal violence by type												
Females	1163 (67.7%)	491 (24.4%%)	65 (3.8%)	1406 (82.5%)	223 (13.1%)	75 (4.4%)	Bullying	2750	1.84 (1.29,	0.001	2636	1.84 (1.28,	0.001	2478	1.56 (1.06,	0.025	1574	1.53 (1.01,	0.044
Males	970 (75.7%)	298 (23.2%)	14 (1.1%)	1051 (89.6%)	100 (8.5%)	22 (1.9%)	Co. alab as	2750	2.63)		2542	2.66)		2424	2.31)	0.110	4574	2.31)	
oung-HUNT3, mean	16.0 (SD 1.77)	16.0 (SD 1.76)	15.9 (SD 1.77)	16.0 (SD 1.76)	16.0 (SD 1.79)	16.1 (SD 1.81)	Sexual abuse	2758	1.61 (1.07 <i>,</i> 2.42)	0.023	2643	1.70 (1.12 <i>,</i> 2.57)	0.013	2484	1.38 (0.89 <i>,</i> 2.14)	0.148	1574	1.15 (0.72, 1.85)	0.553
UNT4, mean	27.1 (SD 1.96)	27.0 (SD 1.89)	26.9 (SD 1.71)	27.1 (SD1.95)	27.0 (SD 1.87)	27.1 (SD 1.89)	Physical violence	2757	1.50 (1.05,	0.024	2640	1.53 (1.07,	0.021	2481	1.27 (0.86,	0.230	1570	1.08 (0.72,	0.707
economic factors							by number of types		2.14)			2.19)			1.87)			1.63)	
Family economy below average	173 (8.6%)	54 (8.2%)	10 (13.7%)	199 (8.6%)	26 (8.7%)	7 (8.05%)	1 type of direct interpersonal	2758	1.60 (1.17,	0.003	2643	1.63 (1.18,	0.003	2484	1.48 (1.05,	0.024	1574	1.35 (0.94,	0.104
Household structure, living with both	1234 (58.4%)	387 (56.3%)	36 (46.8%)	1442 (59.3%)	153 (48.6%)	50 (51.6%)	violence		2.18)			2.24)			2.07)			1.95)	
parents	, ,	, ,	, ,	, ,	, ,	, ,	≥2 types of direct interpersonal violence	2758	2.05 (1.33, 3.16)	0.001	2643	2.12 (1.37, 3.30)	0.001	2484	1.66 (1.03, 2.68)	0.036	1574	1.48 (0.89,	0.132
interpersonal violence							Exposure to other potentially traumatic events, by		J.±0j			J.J0j			2.50)			2.48)	
Bullying	137 (6.7%)	52 (7.9%)	13 (17.6%)	155 (6.6%)	32 (10.5%)	12 (13.2%)	type												
Physical violence	172 (8.4%)	56 (8.5%)	11 (14.9%)	194 (8.2%)	32 (10.5%)	11 (12.1%)	Witness to violence	2758	1.42 (1.10, 1.85)	0.007	2641	1.40 (1.07 <i>,</i> 1.84)	0.013	2482	1.27 (0.96 <i>,</i> 1.68)	0.100	1572	1.19 (0.87,	0.277
sexual abuse	99 (4.8%)	40 (6.0%)	8 (10.8%)	111 (4.7%)		8 (8.8%)	Severe illness or death of	2768	1.30 (1.01,	0.042	2648	1.38 (1.06,	0.018	2488	1.26 (0.95,	0.106	1576	1.63) 1.37 (0.78,	0.271
	, ,	, ,			, ,	, ,	someone close		1.68)			1.80)			1.65)			2.38)	
By peer	77 (3.8%)	28 (4.2%)	5 (6.8%)	84 (3.6%)		6 (6.6%)	,	2765	1.34 (1.07,	0.010	2648	1.40 (1.11,	0.005	2488	1.31 (1.03,	0.029	1576	1.14 (0.85,	0.380
Dy adult	46 (2.2%)	17 (2.6%)	5 (6.8%)	54 (2.3%)	8 (2.6%)	3 (3.3%)	traumatic event		1.68)			1.76)			1.67)			1.53)	
o events		562 (84.5%) 67 (10.1%)	51 (68.9%) 16 (21.6%)	2020 (85.5%) 248 (10.5%)		67 (73.6%) 17 (18.7%)	Table 3. The association of exposure to potentially trau event and number of types of direct interpersonal viole		•		HUNT3, 2006-2			ter analgesics t			thood (HUN		
t interpersonal violence, number of types No events 1 type 2 or more types	s 1743 (85.0%)	, ,		, ,	41 (13.4%)	. ,			Mo	nood (Young-Fodel 1ª and age)	HUNT3, 2006-2	Mod	ver-the-count lel 2 ^{a b} ground)	ter analgesics t		el 3ªbc	thood (HUN	Mo	odel 4ªbc
t interpersonal violence, number of types No events 1 type	1743 (85.0%) 226 (11.0%)	67 (10.1%)	16 (21.6%)	248 (10.5%)	41 (13.4%)	17 (18.7%)			Mo (sex	odel 1ª	HUNT3, 2006-2	Mod (back	lel 2ªb	ter analgesics t	Mode (somatic s	el 3ªbc	thood (HUN	Mo (psycholo	odel 4ªbc
interpersonal violence, number of types No events type or more types potentially traumatic events	1743 (85.0%) 226 (11.0%) 82 (4.0%)	67 (10.1%) 36 (5.4%)	16 (21.6%) 7 (9.5%)	248 (10.5%) 94 (4.0%)	41 (13.4%) 22 (7.2%)	17 (18.7%) 7 (7.7%)	event and number of types of direct interpersonal viole		Mo (sex	odel 1ª and age) 790-2799)	lUNT3, 2006-2	Mod (back	del 2ª ^b ground) 67-2679)	ter analgesics t	Mode (somatic s (n=250	el 3 ^{a b c} symptoms)	thood (HUN	Mo (psycholo (n=1	odel 4 ^{abc} gical symptom
interpersonal violence, number of types No events 1 type 2 or more types potentially traumatic events Witness to violence	1743 (85.0%) 226 (11.0%) 82 (4.0%) 416 (20.3%)	67 (10.1%) 36 (5.4%) 150 (22.6%)	16 (21.6%) 7 (9.5%) 12 (16.2%)	248 (10.5%) 94 (4.0%) 471 (19.9%)	41 (13.4%) 22 (7.2%) 82 (26.8%)	17 (18.7%) 7 (7.7%) 15 (16.7%)			Mo (sex : (n=27	odel 1ª and age) 790-2799)	1UNT3, 2006-2	Mod (back (n=26	del 2ª ^b ground) 67-2679)	ter analgesics t	Mode (somatic s (n=250	el 3 ^{abc} symptoms) 07-2517)	thood (HUN	Mo (psycholo (n=1	odel 4 ^{abc} gical symptom 1587-1593)
t interpersonal violence, number of types No events 1 type 2 or more types potentially traumatic events Witness to violence Disease or death of someone close	1743 (85.0%) 226 (11.0%) 82 (4.0%) 416 (20.3%) 1467 (71.3%)	67 (10.1%) 36 (5.4%) 150 (22.6%) 526 (78.7%)	16 (21.6%) 7 (9.5%) 12 (16.2%) 59 (79.7%)	248 (10.5%) 94 (4.0%) 471 (19.9%) 1713 (72.3%)	41 (13.4%) 22 (7.2%) 82 (26.8%) 235 (76.3%)	17 (18.7%) 7 (7.7%) 15 (16.7%) 76 (82.6%)	event and number of types of direct interpersonal viole		(sex (n=27) OR (95%CI) *1.41 (1.03,	odel 1ª and age) 790-2799) p-value	n 2667	Mod (back (n=26 OR (95%CI) *1.40 (1.02,	del 2ª ^b ground) 67-2679) p-value	n 2507	Mode (somatic s (n=250 OR (95%CI)	el 3 ^{abc} symptoms) 07-2517)	n 1591	(psycholo (n=1 OR (95%C)	odel 4 ^{a b c} gical symptom 1587-1593)) p-value
interpersonal violence, number of types lo events type or more types potentially traumatic events Vitness to violence Disease or death of someone close evere accident, disaster or other	1743 (85.0%) 226 (11.0%) 82 (4.0%) 416 (20.3%)	67 (10.1%) 36 (5.4%) 150 (22.6%)	16 (21.6%) 7 (9.5%) 12 (16.2%)	248 (10.5%) 94 (4.0%) 471 (19.9%)	41 (13.4%) 22 (7.2%) 82 (26.8%) 235 (76.3%)	17 (18.7%) 7 (7.7%) 15 (16.7%)	event and number of types of direct interpersonal viole Direct exposure to interpersonal violence by type	n	Mc (sex : (n=27 OR (95%CI)	odel 1ª and age) 790-2799) p-value	n	Mod (back (n=26 OR (95%CI)	del 2ª ^b ground) 67-2679) p-value	n	Mode (somatic s (n=250 OR (95%CI) 1.40 (1.00, 1.97)	el 3 ^{abc} symptoms) 07-2517) p-value	n	Mo (psycholo (n=1 OR (95%C)	odel 4 ^{a b c} gical symptom 1587-1593)) p-value 0.108
interpersonal violence, number of types No events L type Or more types potentially traumatic events Witness to violence Disease or death of someone close Severe accident, disaster or other traumatic event	1743 (85.0%) 226 (11.0%) 82 (4.0%) 416 (20.3%) 1467 (71.3%)	67 (10.1%) 36 (5.4%) 150 (22.6%) 526 (78.7%)	16 (21.6%) 7 (9.5%) 12 (16.2%) 59 (79.7%)	248 (10.5%) 94 (4.0%) 471 (19.9%) 1713 (72.3%)	41 (13.4%) 22 (7.2%) 82 (26.8%) 235 (76.3%)	17 (18.7%) 7 (7.7%) 15 (16.7%) 76 (82.6%)	Direct exposure to interpersonal violence by type Bullying Sexual abuse	n 2790 2789	(sex a (n=27 OR (95%CI) *1.41 (1.03, 1.93) 1.25 (0.87, 1.79)	odel 1 ^a and age) 790-2799) p-value 0.031 0.227	n 2667 2674	(back (n=26 OR (95%CI) *1.40 (1.02, 1.94) 1.23 (0.85, 1.77)	del 2 ^{ab} ground) 67-2679) p-value 0.040 0.276	n 2507 2513	Mode (somatic s (n=250 OR (95%CI) 1.40 (1.00, 1.97) 1.10 (0.75, 1.62)	el 3 a b c symptoms) 07-2517) p-value 0.052	n 1591 1591	(psycholo (n=1 OR (95%Cl) 1.35 (0.94, 1.94) 1.03 (0.68, 1.56)	odel 4 ^{a b c} gical symptoms 1587-1593)) p-value 0.108 0.885
interpersonal violence, number of types lo events type or more types potentially traumatic events Vitness to violence Disease or death of someone close evere accident, disaster or other raumatic event oms	1743 (85.0%) 226 (11.0%) 82 (4.0%) 416 (20.3%) 1467 (71.3%) 613 (29.8%)	67 (10.1%) 36 (5.4%) 150 (22.6%) 526 (78.7%) 205 (30.8%)	16 (21.6%) 7 (9.5%) 12 (16.2%) 59 (79.7%) 29 (39.2%)	248 (10.5%) 94 (4.0%) 471 (19.9%) 1713 (72.3%) 692 (29.2%)	41 (13.4%) 22 (7.2%) 82 (26.8%) 235 (76.3%) 111 (36.3%)	17 (18.7%) 7 (7.7%) 15 (16.7%) 76 (82.6%) 31 (34.1%)	Direct exposure to interpersonal violence by type Bullying Sexual abuse Physical violence	n 2790	(sex a (n=27 OR (95%CI) *1.41 (1.03, 1.93) 1.25 (0.87,	odel 1 ^a and age) 790-2799) p-value 0.031 0.227	n 2667	(back (n=26 OR (95%CI) *1.40 (1.02, 1.94) 1.23 (0.85,	del 2 ^{a b} ground) 67-2679) p-value 0.040	n 2507	Mode (somatic s (n=250 OR (95%CI) 1.40 (1.00, 1.97) 1.10 (0.75,	el 3 ^{a b c} symptoms) 07-2517) p-value 0.052	n 1591	(psycholo (n=1 OR (95%Cl) 1.35 (0.94, 1.94) 1.03 (0.68,	odel 4 ^{a b c} gical symptom 1587-1593)) p-value 0.108 0.885
interpersonal violence, number of types No events I type I or more types potentially traumatic events Witness to violence Disease or death of someone close Severe accident, disaster or other raumatic event oms Posttraumatic stress, sum score (0-3),	1743 (85.0%) 226 (11.0%) 82 (4.0%) 416 (20.3%) 1467 (71.3%)	67 (10.1%) 36 (5.4%) 150 (22.6%) 526 (78.7%)	16 (21.6%) 7 (9.5%) 12 (16.2%) 59 (79.7%)	248 (10.5%) 94 (4.0%) 471 (19.9%) 1713 (72.3%) 692 (29.2%)	41 (13.4%) 22 (7.2%) 82 (26.8%) 235 (76.3%) 111 (36.3%)	17 (18.7%) 7 (7.7%) 15 (16.7%) 76 (82.6%)	Direct exposure to interpersonal violence by type Bullying Sexual abuse Physical violence by number of types	n 2790 2789 2789	*1.41 (1.03, 1.93) 1.25 (0.87, 1.79) *1.25 (0.92, 1.69)	odel 1 ^a and age) 790-2799) p-value 0.031 0.227 0.148	n 2667 2674 2671	*1.40 (1.02, 1.94) 1.23 (0.85, 1.77) 1.23 (0.90, 1.68)	del 2 ^{ab} ground) 67-2679) p-value 0.040 0.276 0.191	n 2507 2513 2510	Mode (somatic s (n=250 OR (95%CI) 1.40 (1.00, 1.97) 1.10 (0.75, 1.62) 1.02 (0.73, 1.43)	el 3 ^{abc} symptoms) 07-2517) p-value 0.052 0.625 0.906	n 1591 1591 1587	(psycholo (n=1 OR (95%Cl) 1.35 (0.94, 1.94) 1.03 (0.68, 1.56) 0.91 (0.64, 1.30)	odel 4 ^{abc} gical symptom 1587-1593) p-value 0.108 0.885 0.608
No events 1 type 2 or more types 1 potentially traumatic events Witness to violence Disease or death of someone close Severe accident, disaster or other traumatic event toms Posttraumatic stress, sum score (0-3), mean	1743 (85.0%) 226 (11.0%) 82 (4.0%) 416 (20.3%) 1467 (71.3%) 613 (29.8%) 0.74 (SD 0.96)	67 (10.1%) 36 (5.4%) 150 (22.6%) 526 (78.7%) 205 (30.8%) 0.86 (SD 1.00)	16 (21.6%) 7 (9.5%) 12 (16.2%) 59 (79.7%) 29 (39.2%)	248 (10.5%) 94 (4.0%) 471 (19.9%) 1713 (72.3%) 692 (29.2%)	41 (13.4%) 22 (7.2%) 82 (26.8%) 235 (76.3%) 111 (36.3%) 1.21 (SD 1.06)	17 (18.7%) 7 (7.7%) 15 (16.7%) 76 (82.6%) 31 (34.1%) 1.06 (SD 1.16)	Direct exposure to interpersonal violence by type Bullying Sexual abuse Physical violence	n 2790 2789	*1.41 (1.03, 1.93) 1.25 (0.87, 1.79) *1.25 (0.92,	odel 1 ^a and age) 790-2799) p-value 0.031 0.227 0.148	n 2667 2674	*1.40 (1.02, 1.94) 1.23 (0.85, 1.77) 1.23 (0.90,	del 2 ^{ab} ground) 67-2679) p-value 0.040 0.276 0.191	n 2507 2513	Mode (somatic s (n=250 OR (95%CI) 1.40 (1.00, 1.97) 1.10 (0.75, 1.62) 1.02 (0.73,	el 3 ^{abc} symptoms) 07-2517) p-value 0.052 0.625 0.906	n 1591 1591	(psycholo (n=1 OR (95%Cl) 1.35 (0.94, 1.94) 1.03 (0.68, 1.56) 0.91 (0.64,	odel 4 ^{abc} gical symptom 1587-1593)) p-value 0.108 0.885 0.608
interpersonal violence, number of types No events I type Or more types potentially traumatic events Witness to violence Disease or death of someone close Severe accident, disaster or other raumatic event oms Posttraumatic stress, sum score (0-3), mean Psychological distress, SCL-5, mean score	1743 (85.0%) 226 (11.0%) 82 (4.0%) 416 (20.3%) 1467 (71.3%) 613 (29.8%) 0.74 (SD 0.96)	67 (10.1%) 36 (5.4%) 150 (22.6%) 526 (78.7%) 205 (30.8%)	16 (21.6%) 7 (9.5%) 12 (16.2%) 59 (79.7%) 29 (39.2%) 1.25 (SD (1.20)	248 (10.5%) 94 (4.0%) 471 (19.9%) 1713 (72.3%) 692 (29.2%) 0.73 (SD 0.95)	41 (13.4%) 22 (7.2%) 82 (26.8%) 235 (76.3%) 111 (36.3%) 1.21 (SD 1.06)	17 (18.7%) 7 (7.7%) 15 (16.7%) 76 (82.6%) 31 (34.1%)	Direct exposure to interpersonal violence by type Bullying Sexual abuse Physical violence by number of types 1 type of direct interpersonal violence ≥2 types of direct interpersonal	n 2790 2789 2789	*1.41 (1.03, 1.93) 1.25 (0.87, 1.79) *1.25 (0.92, 1.69) *1.09 (0.83, 1.43) *1.55 (1.05,	odel 1 ^a and age) 790-2799) p-value 0.031 0.227 0.148	n 2667 2674 2671	*1.40 (1.02, 1.94) 1.23 (0.85, 1.77) 1.23 (0.90, 1.68) *1.05 (0.79, 1.39) *1.55 (1.05,	del 2 ^{ab} ground) 67-2679) p-value 0.040 0.276 0.191 0.755	n 2507 2513 2510	(somatic s (n=250 OR (95%CI) 1.40 (1.00, 1.97) 1.10 (0.75, 1.62) 1.02 (0.73, 1.43) *0.96 (0.71, 1.29) *1.39 (0.91,	el 3 ^{abc} symptoms) 07-2517) p-value 0.052 0.625 0.906	n 1591 1591 1587	(psychological (n=1) OR (95%Cl) 1.35 (0.94, 1.94) 1.03 (0.68, 1.56) 0.91 (0.64, 1.30) *0.90 (0.65 1.23) *1.27 (0.80	0del 4 ^{a b c} gical symptom 1587-1593) p-value 0.108 0.885 0.608
nterpersonal violence, number of types o events type or more types cotentially traumatic events //itness to violence isease or death of someone close evere accident, disaster or other raumatic event coms osttraumatic stress, sum score (0-3), nean sychological distress, SCL-5, mean score 1-4)	1743 (85.0%) 226 (11.0%) 82 (4.0%) 416 (20.3%) 1467 (71.3%) 613 (29.8%) 0.74 (SD 0.96)	67 (10.1%) 36 (5.4%) 150 (22.6%) 526 (78.7%) 205 (30.8%) 0.86 (SD 1.00)	16 (21.6%) 7 (9.5%) 12 (16.2%) 59 (79.7%) 29 (39.2%) 1.25 (SD (1.20)	248 (10.5%) 94 (4.0%) 471 (19.9%) 1713 (72.3%) 692 (29.2%) 0.73 (SD 0.95)	41 (13.4%) 22 (7.2%) 82 (26.8%) 235 (76.3%) 111 (36.3%) 1.21 (SD 1.06) 1.69 (SD 0.61)	17 (18.7%) 7 (7.7%) 15 (16.7%) 76 (82.6%) 31 (34.1%) 1.06 (SD 1.16)	Direct exposure to interpersonal violence by type Bullying Sexual abuse Physical violence by number of types 1 type of direct interpersonal violence ≥2 types of direct interpersonal violence	n 2790 2789 2790 2790	*1.41 (1.03, 1.93) 1.25 (0.87, 1.79) *1.25 (0.92, 1.69) *1.09 (0.83, 1.43)	odel 1 ^a and age) 790-2799) p-value 0.031 0.227 0.148	n 2667 2674 2674	*1.40 (1.02, 1.94) 1.23 (0.85, 1.77) 1.23 (0.90, 1.68) *1.05 (0.79, 1.39)	del 2 ^{ab} ground) 67-2679) p-value 0.040 0.276 0.191 0.755	n 2507 2513 2510	Mode (somatic s (n=250 OR (95%CI) 1.40 (1.00, 1.97) 1.10 (0.75, 1.62) 1.02 (0.73, 1.43) *0.96 (0.71, 1.29)	el 3 ^{abc} symptoms) 07-2517) p-value 0.052 0.625 0.906	n 1591 1591 1587	(psycholo (n=1 OR (95%Cl) 1.35 (0.94, 1.94) 1.03 (0.68, 1.56) 0.91 (0.64, 1.30) *0.90 (0.65	0del 4 ^{abc} gical symptom 1587-1593) p-value 0.108 0.885 0.608
nterpersonal violence, number of types o events type or more types otentially traumatic events /itness to violence isease or death of someone close evere accident, disaster or other aumatic event oms osttraumatic stress, sum score (0-3), nean sychological distress, SCL-5, mean score 1-4) sychological distress above cutoff (SCL-	1743 (85.0%) 226 (11.0%) 82 (4.0%) 416 (20.3%) 1467 (71.3%) 613 (29.8%) 0.74 (SD 0.96) 1.47 (SD 0.53)	67 (10.1%) 36 (5.4%) 150 (22.6%) 526 (78.7%) 205 (30.8%) 0.86 (SD 1.00) 1.59 (SD 0.55)	16 (21.6%) 7 (9.5%) 12 (16.2%) 59 (79.7%) 29 (39.2%) 1.25 (SD (1.20) 1.80 (SD 0.75)	248 (10.5%) 94 (4.0%) 471 (19.9%) 1713 (72.3%) 692 (29.2%) 0.73 (SD 0.95) 1.48 (SD 0.52)	41 (13.4%) 22 (7.2%) 82 (26.8%) 235 (76.3%) 111 (36.3%) 1.21 (SD 1.06) 1.69 (SD 0.61)	17 (18.7%) 7 (7.7%) 15 (16.7%) 76 (82.6%) 31 (34.1%) 1.06 (SD 1.16) 1.62 (SD 0.60)	Direct exposure to interpersonal violence by type Bullying Sexual abuse Physical violence by number of types 1 type of direct interpersonal violence ≥2 types of direct interpersonal	n 2790 2789 2790 2790	*1.41 (1.03, 1.93) 1.25 (0.87, 1.79) *1.25 (0.92, 1.69) *1.09 (0.83, 1.43) *1.55 (1.05,	odel 1 ^a and age) 790-2799) p-value 0.031 0.227 0.148	n 2667 2674 2674 2674	*1.40 (1.02, 1.94) 1.23 (0.85, 1.77) 1.23 (0.90, 1.68) *1.05 (0.79, 1.39) *1.55 (1.05,	del 2 ^{ab} ground) 67-2679) p-value 0.040 0.276 0.191 0.755	n 2507 2513 2510	(somatic s (n=250 OR (95%CI) 1.40 (1.00, 1.97) 1.10 (0.75, 1.62) 1.02 (0.73, 1.43) *0.96 (0.71, 1.29) *1.39 (0.91,	el 3 ^{abc} symptoms) 07-2517) p-value 0.052 0.625 0.906	n 1591 1591 1587	(psychological (n=1) OR (95%Cl) 1.35 (0.94, 1.94) 1.03 (0.68, 1.56) 0.91 (0.64, 1.30) *0.90 (0.65 1.23) *1.27 (0.80	0del 4 ^{a b c} gical symptom 1587-1593) p-value 0.108 0.885 0.608
nterpersonal violence, number of types of events cype or more types otentially traumatic events itness to violence sease or death of someone close vere accident, disaster or other aumatic event ms esttraumatic stress, sum score (0-3), ean ychological distress, SCL-5, mean score (-4) ychological distress above cutoff (SCL- (-2.0)	1743 (85.0%) 226 (11.0%) 82 (4.0%) 416 (20.3%) 1467 (71.3%) 613 (29.8%) 0.74 (SD 0.96) 1.47 (SD 0.53)	67 (10.1%) 36 (5.4%) 150 (22.6%) 526 (78.7%) 205 (30.8%) 0.86 (SD 1.00) 1.59 (SD 0.55)	16 (21.6%) 7 (9.5%) 12 (16.2%) 59 (79.7%) 29 (39.2%) 1.25 (SD (1.20) 1.80 (SD 0.75)	248 (10.5%) 94 (4.0%) 471 (19.9%) 1713 (72.3%) 692 (29.2%) 0.73 (SD 0.95) 1.48 (SD 0.52)	41 (13.4%) 22 (7.2%) 82 (26.8%) 235 (76.3%) 111 (36.3%) 1.21 (SD 1.06) 1.69 (SD 0.61) 71 (22.4%)	17 (18.7%) 7 (7.7%) 15 (16.7%) 76 (82.6%) 31 (34.1%) 1.06 (SD 1.16) 1.62 (SD 0.60)	Direct exposure to interpersonal violence by type Bullying Sexual abuse Physical violence by number of types 1 type of direct interpersonal violence ≥2 types of direct interpersonal violence	n 2790 2789 2790 2790	(sex a (n=27) OR (95%CI) *1.41 (1.03, 1.93) 1.25 (0.87, 1.79) *1.25 (0.92, 1.69) *1.09 (0.83, 1.43) *1.55 (1.05, 2.27)	odel 1 ^a and age) 790-2799) p-value 0.031 0.227 0.148	n 2667 2674 2674	*1.40 (1.02, 1.94) 1.23 (0.85, 1.77) 1.23 (0.90, 1.68) *1.05 (0.79, 1.39) *1.55 (1.05, 2.31)	del 2 ^{ab} ground) 67-2679) p-value 0.040 0.276 0.191 0.755	n 2507 2513 2510	Mode (somatic s (n=250 OR (95%CI) 1.40 (1.00, 1.97) 1.10 (0.75, 1.62) 1.02 (0.73, 1.43) *0.96 (0.71, 1.29) *1.39 (0.91, 2.12)	el 3 a b c symptoms) 07-2517) p-value 0.052 0.625 0.906	n 1591 1591 1587	(psycholo (n=1) OR (95%Cl) 1.35 (0.94, 1.94) 1.03 (0.68, 1.56) 0.91 (0.64, 1.30) *0.90 (0.65, 1.23) *1.27 (0.80, 2.00)	0del 4 ^{a b c} gical symptom 1587-1593) p-value 0.108 0.885 0.608 5, 0.502
nterpersonal violence, number of types of events type or more types otentially traumatic events fitness to violence sease or death of someone close evere accident, disaster or other aumatic event oms osttraumatic stress, sum score (0-3), ean sychological distress, SCL-5, mean score (-4) sychological distress above cutoff (SCL- > 2.0)	1743 (85.0%) 226 (11.0%) 82 (4.0%) 416 (20.3%) 1467 (71.3%) 613 (29.8%) 0.74 (SD 0.96) 1.47 (SD 0.53) 251 (12.0%)	67 (10.1%) 36 (5.4%) 150 (22.6%) 526 (78.7%) 205 (30.8%) 0.86 (SD 1.00) 1.59 (SD 0.55) 103 (15.0%)	16 (21.6%) 7 (9.5%) 12 (16.2%) 59 (79.7%) 29 (39.2%) 1.25 (SD (1.20) 1.80 (SD 0.75) 21 (27.6%)	248 (10.5%) 94 (4.0%) 471 (19.9%) 1713 (72.3%) 692 (29.2%) 0.73 (SD 0.95) 1.48 (SD 0.52) 283 (11.7%)	41 (13.4%) 22 (7.2%) 82 (26.8%) 235 (76.3%) 111 (36.3%) 1.21 (SD 1.06) 1.69 (SD 0.61) 71 (22.4%) 143 (44.8%)	17 (18.7%) 7 (7.7%) 15 (16.7%) 76 (82.6%) 31 (34.1%) 1.06 (SD 1.16) 1.62 (SD 0.60) 17 (17.7%)	Direct exposure to interpersonal violence by type Bullying Sexual abuse Physical violence by number of types 1 type of direct interpersonal violence ≥2 types of direct interpersonal violence Exposure to other potentially traumatic events, by type Witness to violence Severe illness or death of someone	n 2790 2789 2790 2790 2790	*1.41 (1.03, 1.93) 1.25 (0.87, 1.79) *1.25 (0.92, 1.69) *1.09 (0.83, 1.43) *1.55 (1.05, 2.27) 1.28 (1.04, 1.58) 1.45 (1.18,	odel 1 ^a and age) 790-2799) p-value 0.031 0.227 0.148 0.545	n 2667 2674 2674 2674	*1.40 (1.02, 1.94) 1.23 (0.85, 1.77) 1.23 (0.90, 1.68) *1.05 (0.79, 1.39) *1.55 (1.05, 2.31) 1.28 (1.03, 1.59) 1.44 (1.17,	del 2 a b ground) 67-2679) p-value 0.040 0.276 0.191 0.755	n 2507 2513 2510 2513	(somatic s (n=250 OR (95%CI) 1.40 (1.00, 1.97) 1.10 (0.75, 1.62) 1.02 (0.73, 1.43) *0.96 (0.71, 1.29) *1.39 (0.91, 2.12) *1.19 (0.95, 1.51) 1.44 (1.15,	el 3 a b c symptoms) 07-2517) p-value 0.052 0.625 0.906	n 1591 1591 1587 1591	(psycholo (n=1) OR (95%Cl) 1.35 (0.94, 1.94) 1.03 (0.68, 1.56) 0.91 (0.64, 1.30) *0.90 (0.65, 1.23) *1.27 (0.80, 2.00) *1.07 (0.82, 1.39) 1.32 (0.87,	0.108 0.885 0.608 0.309
nterpersonal violence, number of types o events type or more types otentially traumatic events //itness to violence isease or death of someone close evere accident, disaster or other aumatic event oms osttraumatic stress, sum score (0-3), nean sychological distress, SCL-5, mean score 1-4) sychological distress above cutoff (SCL- > 2.0) requent musculoskeletal pain	1743 (85.0%) 226 (11.0%) 82 (4.0%) 416 (20.3%) 1467 (71.3%) 613 (29.8%) 0.74 (SD 0.96) 1.47 (SD 0.53) 251 (12.0%) 656 (31.0%)	67 (10.1%) 36 (5.4%) 150 (22.6%) 526 (78.7%) 205 (30.8%) 0.86 (SD 1.00) 1.59 (SD 0.55) 103 (15.0%) 293 (42.7%)	16 (21.6%) 7 (9.5%) 12 (16.2%) 59 (79.7%) 29 (39.2%) 1.25 (SD (1.20) 1.80 (SD 0.75) 21 (27.6%) 38 (49.4%)	248 (10.5%) 94 (4.0%) 471 (19.9%) 1713 (72.3%) 692 (29.2%) 0.73 (SD 0.95) 1.48 (SD 0.52) 283 (11.7%) 780 (32.1%)	41 (13.4%) 22 (7.2%) 82 (26.8%) 235 (76.3%) 111 (36.3%) 1.21 (SD 1.06) 1.69 (SD 0.61) 71 (22.4%) 143 (44.8%) 54 (16.9%)	17 (18.7%) 7 (7.7%) 15 (16.7%) 76 (82.6%) 31 (34.1%) 1.06 (SD 1.16) 1.62 (SD 0.60) 17 (17.7%) 55 (57.3%)	Direct exposure to interpersonal violence by type Bullying Sexual abuse Physical violence by number of types 1 type of direct interpersonal violence ≥2 types of direct interpersonal violence Exposure to other potentially traumatic events, by type Witness to violence	n 2790 2789 2790 2790 2790	*1.41 (1.03, 1.93) 1.25 (0.87, 1.79) *1.25 (0.92, 1.69) *1.09 (0.83, 1.43) *1.55 (1.05, 2.27)	0.031 0.027 0.027 0.022	n 2667 2674 2674 2674 2672	*1.40 (1.02, 1.94) 1.23 (0.85, 1.77) 1.23 (0.90, 1.68) *1.55 (1.05, 2.31) 1.28 (1.03, 1.59)	del 2 a b ground) 67-2679) p-value 0.040 0.276 0.191 0.755 0.029	n 2507 2513 2510 2513 2511	(somatic s (n=250 OR (95%CI) 1.40 (1.00, 1.97) 1.10 (0.75, 1.62) 1.02 (0.73, 1.43) *0.96 (0.71, 1.29) *1.39 (0.91, 2.12) *1.19 (0.95, 1.51)	el 3 a b c symptoms) 07-2517) p-value 0.052 0.625 0.906 0.771	n 1591 1587 1591 1591	(psychology) (n=1) OR (95%Cl) 1.35 (0.94, 1.94) 1.03 (0.68, 1.56) 0.91 (0.64, 1.30) *0.90 (0.65) 1.23) *1.27 (0.80) 2.00) *1.07 (0.82) 1.39)	0del 4 ^{a b c} gical symptom 1587-1593) p-value 0.108 0.885 0.608 0, 0.502 0, 0.309
interpersonal violence, number of types No events I type I or more types potentially traumatic events Witness to violence Disease or death of someone close Severe accident, disaster or other raumatic event oms Posttraumatic stress, sum score (0-3), mean Psychological distress, SCL-5, mean score 1-4) Psychological distress above cutoff (SCL- i> 2.0) Frequent musculoskeletal pain Pain in 1 site	1743 (85.0%) 226 (11.0%) 82 (4.0%) 416 (20.3%) 1467 (71.3%) 613 (29.8%) 0.74 (SD 0.96) 1.47 (SD 0.53) 251 (12.0%) 656 (31.0%) 312 (14.8%)	67 (10.1%) 36 (5.4%) 150 (22.6%) 526 (78.7%) 205 (30.8%) 0.86 (SD 1.00) 1.59 (SD 0.55) 103 (15.0%) 293 (42.7%) 126 (18.4%)	16 (21.6%) 7 (9.5%) 12 (16.2%) 59 (79.7%) 29 (39.2%) 1.25 (SD (1.20) 1.80 (SD 0.75) 21 (27.6%) 38 (49.4%) 10 (13.0%)	248 (10.5%) 94 (4.0%) 471 (19.9%) 1713 (72.3%) 692 (29.2%) 0.73 (SD 0.95) 1.48 (SD 0.52) 283 (11.7%) 780 (32.1%) 375 (15.4%)	41 (13.4%) 22 (7.2%) 82 (26.8%) 235 (76.3%) 111 (36.3%) 1.21 (SD 1.06) 1.69 (SD 0.61) 71 (22.4%) 143 (44.8%) 54 (16.9%) 44 (13.8%)	17 (18.7%) 7 (7.7%) 15 (16.7%) 76 (82.6%) 31 (34.1%) 1.06 (SD 1.16) 1.62 (SD 0.60) 17 (17.7%) 55 (57.3%) 18 (18.8%)	Direct exposure to interpersonal violence by type Bullying Sexual abuse Physical violence by number of types 1 type of direct interpersonal violence ≥2 types of direct interpersonal violence Exposure to other potentially traumatic events, by type Witness to violence Severe illness or death of someone close Severe accident, disaster or other	n 2790 2789 2790 2790 2790	*1.41 (1.03, 1.93) 1.25 (0.87, 1.79) *1.25 (0.92, 1.69) *1.09 (0.83, 1.43) *1.55 (1.05, 2.27) 1.28 (1.04, 1.58) 1.45 (1.18, 1.78) 1.11 (0.93,	0.031 0.027 0.027	n 2667 2674 2674 2674 2672	*1.40 (1.02, 1.94) 1.23 (0.85, 1.77) 1.23 (0.90, 1.68) *1.05 (0.79, 1.39) *1.55 (1.05, 2.31) 1.28 (1.03, 1.59) 1.44 (1.17, 1.78) 1.12 (0.93,	del 2 a b ground) 67-2679) p-value 0.040 0.276 0.191 0.755 0.029	n 2507 2513 2510 2513 2511	Mode (somatic s (n=250 OR (95%CI) 1.40 (1.00, 1.97) 1.10 (0.75, 1.62) 1.02 (0.73, 1.43) *0.96 (0.71, 1.29) *1.39 (0.91, 2.12) *1.19 (0.95, 1.51) 1.44 (1.15, 1.79) 1.01 (0.82,	el 3 a b c symptoms) 07-2517) p-value 0.052 0.625 0.906 0.771	n 1591 1587 1591 1591	(psycholo (n=1) OR (95%Cl) 1.35 (0.94, 1.94) 1.03 (0.68, 1.56) 0.91 (0.64, 1.30) *0.90 (0.65) 1.23) *1.27 (0.80) 2.00) *1.07 (0.82) 1.39) 1.32 (0.87, 2.03)	0del 4 ^{abc} gical symptom 1587-1593) p-value 0.108 0.885 0.608 0.7 0.0502 0.008
interpersonal violence, number of types lo events type or more types potentially traumatic events Vitness to violence Disease or death of someone close evere accident, disaster or other raumatic event oms Oosttraumatic stress, sum score (0-3), nean esychological distress, SCL-5, mean score 1-4) esychological distress above cutoff (SCL- > 2.0) requent musculoskeletal pain Pain in 1 site Pain in 2 sites Pain in 3-8 sites	1743 (85.0%) 226 (11.0%) 82 (4.0%) 416 (20.3%) 1467 (71.3%) 613 (29.8%) 0.74 (SD 0.96) 1.47 (SD 0.53) 251 (12.0%) 656 (31.0%) 312 (14.8%) 180 (8.5%)	67 (10.1%) 36 (5.4%) 150 (22.6%) 526 (78.7%) 205 (30.8%) 0.86 (SD 1.00) 1.59 (SD 0.55) 103 (15.0%) 293 (42.7%) 126 (18.4%) 93 (13.6%)	16 (21.6%) 7 (9.5%) 12 (16.2%) 59 (79.7%) 29 (39.2%) 1.25 (SD (1.20) 1.80 (SD 0.75) 21 (27.6%) 38 (49.4%) 10 (13.0%) 14 (18.2%)	248 (10.5%) 94 (4.0%) 471 (19.9%) 1713 (72.3%) 692 (29.2%) 0.73 (SD 0.95) 1.48 (SD 0.52) 283 (11.7%) 780 (32.1%) 375 (15.4%) 223 (9.2%)	41 (13.4%) 22 (7.2%) 82 (26.8%) 235 (76.3%) 111 (36.3%) 1.21 (SD 1.06) 1.69 (SD 0.61) 71 (22.4%) 143 (44.8%) 54 (16.9%) 44 (13.8%) 45 (14.1%)	17 (18.7%) 7 (7.7%) 15 (16.7%) 76 (82.6%) 31 (34.1%) 1.06 (SD 1.16) 1.62 (SD 0.60) 17 (17.7%) 55 (57.3%) 18 (18.8%) 16 (16.7%)	Direct exposure to interpersonal violence by type Bullying Sexual abuse Physical violence by number of types 1 type of direct interpersonal violence ≥2 types of direct interpersonal violence Exposure to other potentially traumatic events, by type Witness to violence Severe illness or death of someone close	n 2790 2789 2790 2790 2790 2799	*1.41 (1.03, 1.93) 1.25 (0.87, 1.79) *1.25 (0.92, 1.69) *1.09 (0.83, 1.43) *1.55 (1.05, 2.27) 1.28 (1.04, 1.58) 1.45 (1.18, 1.78)	odel 1 ^a and age) 790-2799) p-value 0.031 0.227 0.148 0.545 0.027 0.022 <0.001	n 2667 2674 2674 2674 2674 2679	*1.40 (1.02, 1.94) 1.23 (0.85, 1.77) 1.23 (0.90, 1.68) *1.05 (0.79, 1.39) *1.55 (1.05, 2.31) 1.28 (1.03, 1.59) 1.44 (1.17, 1.78)	del 2 a b ground) 67-2679) p-value 0.040 0.276 0.191 0.755 0.029 0.025 0.001	n 2507 2513 2510 2513 2511 2517	(somatic s (n=250 OR (95%CI) 1.40 (1.00, 1.97) 1.10 (0.75, 1.62) 1.02 (0.73, 1.43) *0.96 (0.71, 1.29) *1.39 (0.91, 2.12) *1.19 (0.95, 1.51) 1.44 (1.15, 1.79)	el 3 a b c symptoms) 07-2517) p-value 0.052 0.625 0.906 0.771 0.131	n 1591 1591 1591 1591 1593	(psychological (n=1) OR (95%Cl) 1.35 (0.94, 1.94) 1.03 (0.68, 1.56) 0.91 (0.64, 1.30) *0.90 (0.65 1.23) *1.27 (0.80 2.00) *1.07 (0.82 1.39) 1.32 (0.87, 2.03)	0del 4 ^{a b c} gical symptom 1587-1593) p-value 0.108 0.885 0.608 0, 0.502 0, 0.309
No events 1 type 2 or more types r potentially traumatic events Witness to violence Disease or death of someone close Severe accident, disaster or other traumatic event toms Posttraumatic stress, sum score (0-3), mean Psychological distress, SCL-5, mean score (1-4) Psychological distress above cutoff (SCL- 5> 2.0) Frequent musculoskeletal pain Pain in 1 site Pain in 2 sites	1743 (85.0%) 226 (11.0%) 82 (4.0%) 416 (20.3%) 1467 (71.3%) 613 (29.8%) 0.74 (SD 0.96) 1.47 (SD 0.53) 251 (12.0%) 656 (31.0%) 312 (14.8%) 180 (8.5%) 164 (7.8%)	67 (10.1%) 36 (5.4%) 150 (22.6%) 526 (78.7%) 205 (30.8%) 0.86 (SD 1.00) 1.59 (SD 0.55) 103 (15.0%) 293 (42.7%) 126 (18.4%) 93 (13.6%) 74 (10.8%)	16 (21.6%) 7 (9.5%) 12 (16.2%) 59 (79.7%) 29 (39.2%) 1.25 (SD (1.20) 1.80 (SD 0.75) 21 (27.6%) 38 (49.4%) 10 (13.0%) 14 (18.2%) 14 (18.2%)	248 (10.5%) 94 (4.0%) 471 (19.9%) 1713 (72.3%) 692 (29.2%) 0.73 (SD 0.95) 1.48 (SD 0.52) 283 (11.7%) 780 (32.1%) 375 (15.4%) 223 (9.2%) 182 (7.5%)	41 (13.4%) 22 (7.2%) 82 (26.8%) 235 (76.3%) 111 (36.3%) 1.21 (SD 1.06) 1.69 (SD 0.61) 71 (22.4%) 143 (44.8%) 54 (16.9%) 44 (13.8%) 45 (14.1%) 45 (14.6%)	17 (18.7%) 7 (7.7%) 15 (16.7%) 76 (82.6%) 31 (34.1%) 1.06 (SD 1.16) 1.62 (SD 0.60) 17 (17.7%) 55 (57.3%) 18 (18.8%) 16 (16.7%) 21 (21.9%)	Direct exposure to interpersonal violence by type Bullying Sexual abuse Physical violence by number of types 1 type of direct interpersonal violence ≥2 types of direct interpersonal violence Exposure to other potentially traumatic events, by type Witness to violence Severe illness or death of someone close Severe accident, disaster or other	n 2790 2789 2790 2790 2790 2797	*1.41 (1.03, 1.93) 1.25 (0.87, 1.79) *1.25 (0.92, 1.69) *1.09 (0.83, 1.43) *1.55 (1.05, 2.27) 1.28 (1.04, 1.58) 1.45 (1.18, 1.78) 1.11 (0.93, 1.33)	odel 1 ^a and age) 790-2799) p-value 0.031 0.227 0.148 0.545 0.027 0.022 <0.001	n 2667 2674 2674 2674 2674 2679	*1.40 (1.02, 1.94) 1.23 (0.85, 1.77) 1.23 (0.90, 1.68) *1.05 (0.79, 1.39) *1.55 (1.05, 2.31) 1.28 (1.03, 1.59) 1.44 (1.17, 1.78) 1.12 (0.93, 1.35)	del 2 a b ground) 67-2679) p-value 0.040 0.276 0.191 0.755 0.029 0.025 0.001	n 2507 2513 2510 2513 2511 2517	Mode (somatic s (n=250 OR (95%CI) 1.40 (1.00, 1.97) 1.10 (0.75, 1.62) 1.02 (0.73, 1.43) *0.96 (0.71, 1.29) *1.39 (0.91, 2.12) *1.19 (0.95, 1.51) 1.44 (1.15, 1.79) 1.01 (0.82, 1.23)	el 3 a b c symptoms) 07-2517) p-value 0.052 0.625 0.906 0.771 0.131	n 1591 1591 1591 1591 1593	(psycholo (n=1) OR (95%Cl) 1.35 (0.94, 1.94) 1.03 (0.68, 1.56) 0.91 (0.64, 1.30) *0.90 (0.65) 1.23) *1.27 (0.80) 2.00) *1.07 (0.82) 1.39) 1.32 (0.87, 2.03)	0del 4 ^{abc} gical symptoms 1587-1593) p-value 0.108 0.885 0.608 0, 0.502 0, 0.309

Killing pain. A prospective population-based study on trauma exposure in childhood as predictor for frequent use of over-the-counter analgesics in young adulthood. The HUNT Study.

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BACKGROUND: Frequent and increasing use of over-the-counter analgesics (OTCA) is a public health concern. We aimed to assess potentially traumatic events (PTEs) in childhood as predictors for frequent OTCA use in young adulthood.

METHODS

- A cohort study assessing exposure to PTEs in adolescence and use of OTCA in young adulthood, N=2947.
- Headache, musculoskeletal pain and psychological symptoms were also assessed in adolescence.
- Ordinal logistic regression was used to examine the impact of exposure to traumatic events on the two outcomes
 i) OTCA to treat headache ii) OTCA to treat musculoskeletal pain.

RESULTS: Overall, exposure to childhood PTEs, particularly direct interpersonal violence, was significantly and consistently related to more frequent use of OTCA to treat musculoskeletal pain and headaches in young adulthood. A higher burden of exposure to interpersonal violence was linked to more frequent OTCA use, indicating a doseresponse relationship. Adjusting for pain and psychological symptoms in adolescence attenuated the strength of the associations.

CONCLUSION: Adolescents exposed to PTEs in childhood are at increased risk of frequent use of OTCA as young adults. Pain and psychological symptoms emerging in adolescence are of importance for this relationship, emphasizing the need to address symptomatology and underlying causes at an early age.





