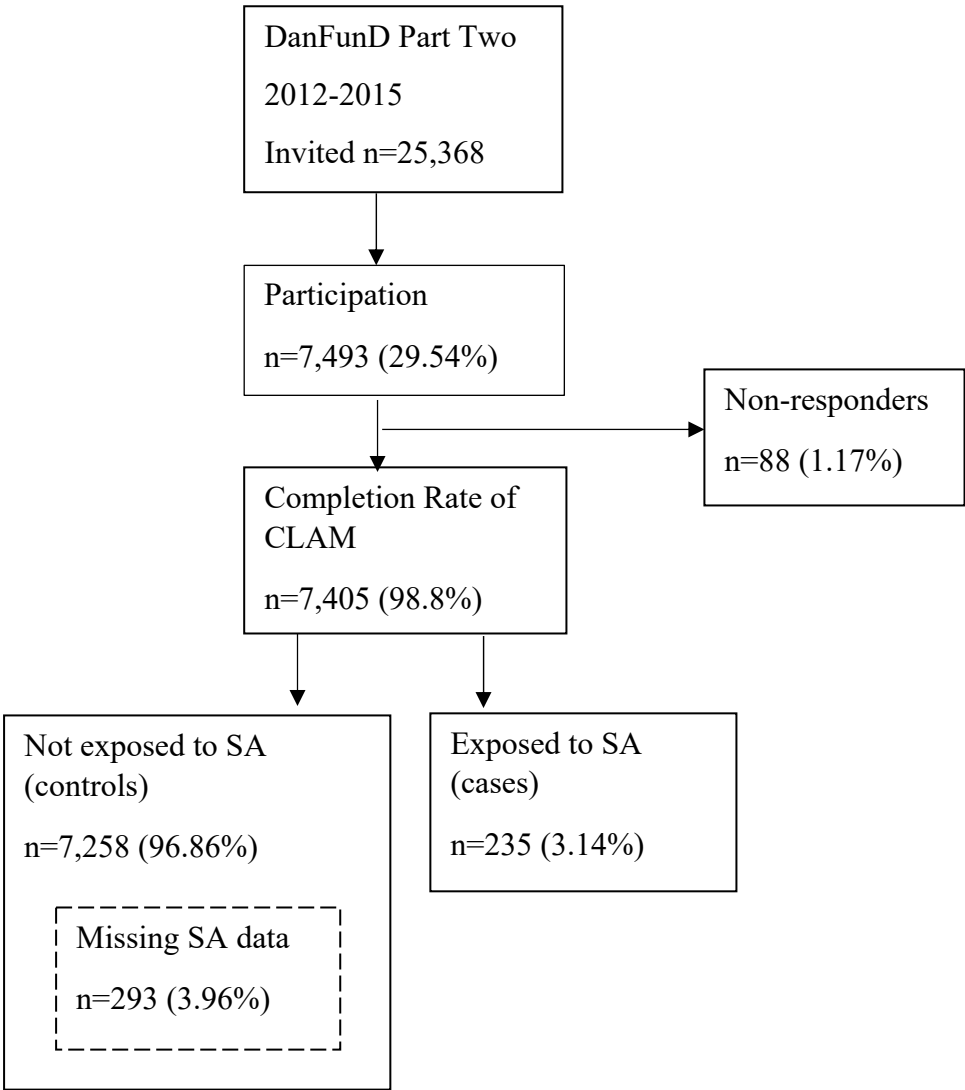


**Supplementary Digital Files: Are Sexual Assaults related to Functional Somatic Disorders? A cross-sectional study**

**Figure S1: Flow chart of participation from the DanFunD population sample**



<b>Table S1, Abbreviations</b>	
Abbreviations	Description
SA	Sexual Assault
FSD	Functional Somatic Disorder
FSS	Functional Somatic Syndromes
CWP	Chronic Widespread Pain
IB	Irritable Bowel
CF	Chronic Fatigue
MCS	Multiple Chemical Sensitivity
WAD	Whiplash-Associated Disorder
BDS	Bodily Distress Syndrome
PTSD	Post-traumatic Stress Disorder
DanFunD	The Danish Study of Functional Disorders
ISTDP	Intensive Short-Term Dynamic Psychotherapy
EAET	Emotional Awareness and Expression Therapy
CLAM	Cumulative Lifetime Adversity Measure
SCL-8	Symptom checklist, derived from the 90-item SCL-90-R
CI	Confidence interval
RR	Risk Ratio
SSD	Somatic Symptom Disorder

Table S2		Population Characteristics, women			
Variables <small>(Measure)</small>	Categories	Type of assault			
		Total Population <i>n</i> = 4,037	Exposed to Sexual Assault <i>n</i> = 209	Subdivisions on Sexual Assault	
				Rape <i>n</i> = 126	Groping <i>n</i> = 155
Age at inclusion: <small>Median (IQR)</small>	Baseline	51.6 (43-62)	50.2 (42-61)	51.5 (44-62)	49.9 (42-60)
Age at exposure of SA % (n)	<5 years		11.0 (23)	6.3 (8)	14.8 (23)
	6-11 years		29.2 (61)	18.3 (23)	33.5 (52)
	12-18 years		39.2 (82)	38.1 (48)	37.4 (58)
	>18 years		20.6 (43)	37.3 (47)	14.9 (22)
Vocational training % (n)	No education	11.4 (459)	12.0 (25)	17.5 (16)	14.8 (18)
	<3 years	20.7 (835)	18.7 (39)	20.1 (26)	21.5 (32)
	3-4 years	43.5 (1757)	35.9 (75)	38.9 (43)	39.6 (54)
	>4 years	21.4 (864)	29.2 (61)	16.8 (36)	16.8 (44)
	<i>Missing 3.0 (122)</i>				
Adverse Childhood -environment % (n)	<i>Missing 1.3 (53)</i>	6.4 (260)	9.6 (20)	8.7 (11)	11.6 (18)
Physical abuse % (n)	<i>Missing 1.2 (47)</i>	12.3 (496)	50.7 (106)	60.3 (76)	54.2 (84)
Emotional abuse % (n)	<i>Missing 3.7 (148)</i>	7.7 (311)	37.3 (78)	45.2 (57)	38.7 (60)
Abuse (physical and/or emotional) % (n)	<i>Missing 3.7 (148)</i>	15.8 (636)	61.2 (128)	69.1 (87)	65.8 (102)
Social Status  <small>Median (IQR)</small>		7 (6-8)	6n (5-7)	6 (5-7)	6 (5-7)
Emotional distress % (n)	<i>Missing 1.5 (60)</i>	6.0 (241)	11.5 (24)	8.7 (13)	10.1 (15)
Health anxiety % (N)	<i>Missing 0.5 (39)</i>	6.2 (251)	11.5 (24)	13.5 (17)	12.3 (19)
FSD % (n)	Single-organ	19.3 (778)	31.6 (66)	34.1 (43)	29.7 (46)
	<i>Missing 2.2 (90)</i>				
	Multi-organ	1.6 (64)	5.7 (12)	6.4 (8)	7.1 (11)
	Missing 20.0 (804)				

FSS % (n)	CWP	6.4 (257)	9.1 (19)	10.3 (13)	10.3 (16)
	Missing 1.2 (48)				
	IB	4.9 (198)	10.1 (21)	11.9 (15)	9.0 (14)
	Missing 2.1 (85)				
	CF	11.7 (473)	23.9 (50)	27.8 (35)	27.1 (42)
	Missing 1.3 (53)				
	MCS	2.6 (104)	7.2 (15)	7.9 (10)	6.5 (10)
	Missing 1.4 (55)				
	WAD	1.8 (71)	4.3 (9)	4.8 (6)	3.9 (6)
	Missing 2.0 (82)				

*Table S2: SA: sexual Assault; FSD: functional somatic disorder; FSS: functional somatic syndrome; CWP: chronic widespread pain; IB: irritable bowel; CF: chronic fatigue; MCS: multiple chemical sensitivity; WAD: whiplash-associated disorder; IQR: Interquartile range.*

Individuals missing answers on SA items:  $n = 138$

<b>Table S3</b>	<b>Characteristics: Missing data of SA</b>	
<b>Variables</b> (Measure)	<b>Categories</b>	<b>Missing SA-cases <i>n</i> = 293</b>
Age at inclusion: Median (IQR)	Baseline	58 (48-66)
Sex % ( <i>n</i> )	Male	52.90 (155)
	Female	47.10 (138)
Vocational training % ( <i>n</i> )	No education	11.95 (35)
	<3 years	16.04 (47)
	3-4 years	40.27 (18)
	>4 years	26.28 (77)
Upbringing % ( <i>n</i> )		0 (0)
Social Status Median (IQR)		7 (6-8)
Emotional distress % ( <i>n</i> )		6.83 (20)
Health anxiety % ( <i>n</i> )		0 (0)
Physical abuse % ( <i>n</i> )		0 (0)
Emotional abuse % ( <i>n</i> )		2.13 (5)
Abuse % ( <i>n</i> )		2.13 (5)
FSD % ( <i>n</i> )	Single-organ	3.63 (46)
	Multi-organ	4.76 (4)
FSS % ( <i>n</i> )	CWP	5.46 (16)
	IB	3.41 (10)
	CF	8.53 (25)
	MCS	2.05 (6)
	WAD	1.71 (5)

*Table S3: Abbreviations: SA: sexual assault; FSD: functional somatic disorder; FSS: functional somatic syndrome; CWP: chronic widespread pain; IB: irritable bowel; CF: chronic fatigue; MCS: multiple chemical sensitivity; WAD: whiplash-Associated disorder; SD: standard deviation.*

Table S4	Symptom severity	Severity;” The past 12 months, have you been bothered by...” % (N), $\chi^2$				
		Not at all	A bit	Somewhat	Quite a bit	A lot
Cardiopulmonary Symptoms						
<i>Heartpounding P&lt;0.001</i>						
No SA (6930)		65.3 (4525)	25.7 (1778)	6.4 (440)	2.3 (156)	0.5 (31)
SA (235)		51.9 (122)	31.5 (74)	9.4 (22)	6.0 (14)	1.9 (3)
Rape (139) * <i>p</i> >0.0001		52.5 (73)	27.3 (38)	10.1 (14)	8.6 (12)	1.4 (2)
Groping		50.3 (90)	33.0 (59)	10.1 (18)	5.6 (10)	1.1 (2)
<i>Precordinal discomfort P=0.002</i>						
No SA (6919)		76.6 (5301)	18.2 (1258)	3.8 (265)	1.2 (83)	0.2 (12)
SA (234)		65.4 (153)	23.5 (55)	6.8 (16)	3.9 (9)	0.4 (1)
Rape (138)		65.2 (90)	23.9 (33)	5.8 (8)	4.4 (6)	0.7 (1)
Groping (178) * <i>p</i> >0.0001		65.2 (116)	23.0 (41)	7.3 (13)	3.9 (7)	0.6 (1)
<i>Breathlessness without extortion P&lt;0.001</i>						
No SA (6926)		73.7 (5102)	18.5 (1281)	5.5 (380)	2.0 (136)	0.4 (27)
SA (234)		58.1 (136)	25.6 (60)	9.4 (22)	4.3 (10)	2.6 (6)
Rape (139)		56.8 (79)	23.7 (33)	12.2 (17)	3.6 (5)	3.6 (5)
Groping (178)		55.6 (99)	27.5 (49)	9.00 (16)	5.1 (9)	2.8 (5)
<i>Hyperventilation P&lt;0.001</i>						
No SA (6922)		90.2 (6240)	7.1 (492)	2.1 (144)	0.5 (37)	0.1 (9)
SA (233)		77.3 (180)	14.2 (33)	6.4 (15)	1.7 (4)	0.4 (1)
Rape (138)		72.5 (100)	17.4 (24)	7.3 (10)	2.2 (3)	0.7 (1)
Groping (177)		78.5 (139)	12.4 (22)	6.8 (12)	2.3 (4)	-
<i>Hot or cold sweats P&lt;0.001</i>						
No SA (6910)		67.6 (4672)	22.1 (1526)	6.5 (449)	3.1 (217)	0.7 (46)
SA (233)		53.2 (124)	23.6 (55)	14.6 (34)	7.7 (18)	0.9 (2)
Rape (137)		53.3 (73)	24.1 (33)	13.1 (18)	8.0 (11)	1.5 (2)
Groping (177)		50.3 (89)	28.3 (50)	15.3 (27)	6.2 (11)	-
<i>Dry Mouth P&lt;0.001</i>						
No SA (6912)		71.9 (4972)	19.6 (1356)	5.0 (338)	2.8 (190)	0.8 (56)
SA (235)		56.6 (133)	31.9 (75)	5.5 (13)	3.8 (9)	2.1 (5)
Rape (139)		57.6 (80)	29.5 (41)	4.3 (6)	5.8 (8)	2.9 (4)
Groping (179)		52.5 (94)	34.1 (61)	5.6 (10)	5.0 (9)	2.8 (5)
Gastrointestinal symptoms						
<i>Frequent loose bowel movements P=0.002</i>						
No SA (6924)		55.1 (3814)	31.1 (2154)	9.0 (623)	4.0 (276)	0.8 (57)
SA (234)		47.0 (110)	32.9 (77)	8.6 (20)	9.8 (23)	1.7 (4)
Rape (138)		43.5 (60)	33.3 (46)	10.9 (15)	10.9 (15)	1.5 (2)
Groping (178) * <i>p</i> =0.003		47.2 (84)	32.6 (58)	8.4 (15)	10.1 (18)	1.7 (3)
<i>Abdominal pain P&lt;0.001</i>						
No SA (6897)		64.2 (4429)	26.6 (1834)	6.2 (430)	2.5 (171)	0.5 (33)

SA (233)	45.9 (107)	33.9 (79)	12.0 (28)	7.7 (18)	0.4 (1)
Rape (139)	44.6 (62)	33.1 (46)	12.2 (17)	9.4 (13)	0.7 (1)
Groping (177)	47.5 (84)	33.9 (60)	11.3 (20)	7.3 (13)	-
<b><i>Feeling bloated P&lt;0.001</i></b>					
No SA (6917)	49.8 (3445)	33.5 (2317)	10.3 (715)	5.2 (360)	1.2 (80)
SA (235)	28.9 (68)	38.7 (91)	17.9 (42)	11.5 (27)	3.0 (7)
Rape (139)	26.6 (37)	38.9 (54)	18.0 (25)	12.2 (17)	4.3 (6)
Groping (179)	29.1 (52)	40.2 (72)	17.9 (32)	10.1 (18)	2.8 (5)
<b><i>Diarrhoea P&lt;0.001</i></b>					
No SA (6921)	73.2 (5066)	21.8 (1506)	3.6 (246)	1.1 (74)	0.4 (29)
SA (235)	60.4 (142)	27.2 (64)	8.1 (19)	3.8 (9)	0.4 (1)
Rape (139)	58.3 (81)	28.1 (39)	9.4 (13)	4.3 (6)	-
Groping (179)	60.9 (109)	27.9 (50)	6.7 (12)	3.9 (7)	0.6 (1)
<b><i>Regurgitations P&lt;0.001</i></b>					
No SA (6895)	64.8 (4469)	25.4 (1753)	6.5 (450)	2.6 (178)	0.7 (45)
SA (233)	53.2 (124)	33.5 (78)	8.6 (20)	4.7 (11)	-
Rape (138)	48.6 (67)	34.1 (47)	11.6 (16)	5.8 (8)	
Groping (178)	54.5 (97)	33.2 (59)	8.4 (15)	3.9 (7)	
<b><i>Nausea P&lt;0.001</i></b>					
No SA (6935)	79.3 (5499)	16.9 (1172)	2.7 (189)	0.9 (64)	0.2 (11)
SA (235)	62.1 (146)	25.1 (59)	8.1 (19)	3.8 (9)	0.9 (2)
Rape (139)	59.0 (82)	26.6 (37)	8.6 (12)	4.3 (6)	1.4 (2)
Groping (179)	62.0 (111)	25.1 (45)	8.9 (16)	3.4 (6)	0.6 (1)
<b><i>Burning sensation in upper part of stomach P&lt;0.001</i></b>					
No SA (6934)	76.8 (5328)	15.7 (1089)	4.9 (341)	2.1 (147)	0.4 (29)
SA (232)	64.7 (150)	21.1 (49)	7.8 (18)	5.6 (13)	0.9 (2)
Rape (136)	60.3 (82)	22.1 (30)	9.6 (13)	6.6 (9)	1.5 (2)
Groping (179)	65.4 (117)	21.2 (38)	7.8 (14)	5.0 (9)	0.6 (1)
<b>Musculoskeletal symptoms</b>					
<b><i>Pains in arms or legs P&lt;0.001</i></b>					
No SA (6925)	49.4 (3421)	26.9 (1865)	13.0 (902)	8.1 (565)	2.5 (172)
SA (235)	33.6 (79)	23.0 (54)	22.1 (52)	14.8 (34)	6.8 (16)
Rape (139)	30.2 (42)	22.3 (31)	20.9 (29)	17.3 (24)	9.4 (13)
Groping (179)	34.1 (61)	23.5 (42)	20.7 (37)	15.1 (27)	6.7 (12)
<b><i>Muscular aches or pain P&lt;0.001</i></b>					
No SA (6907)	37.6 (2599)	38.0 (2622)	14.7 (1014)	8.0 (549)	1.8 (123)
SA (234)	28.2 (66)	30.8 (72)	21.4 (50)	13.7 (32)	6.0 (14)
Rape (139)	24.5 (34)	30.2 (42)	23.0 (32)	13.7 (19)	8.6 (12)
Groping (179)	29.2 (52)	29.8 (53)	20.2 (36)	14.6 (26)	6.2 (11)
<b><i>Pains in the joints P&lt;0.001</i></b>					
No SA (6880)	44.0 (3024)	30.4 (2088)	14.5 (997)	9.1 (627)	2.1 (144)
SA (231)	32.5 (75)	26.4 (61)	19.1 (44)	14.7 (34)	7.4 (17)
Rape (138)	29.7 (41)	26.8 (37)	18.1 (25)	15.2 (21)	10.1 (14)

Groping (175)	30.3 (53)	28.0 (49)	19.4 (34)	14.9 (26)	7.4 (13)
<b><i>Feeling of paresis or localized weakness P&lt;0.001</i></b>					
No SA (6897)	89.2 (6155)	6.7 (459)	2.4 (162)	1.3 (87)	0.5 (34)
SA (229)	81.2 (186)	9.2 (21)	5.7 (13)	2.2 (5)	1.8 (4)
Rape (134)	76.1(102)	9.7 (13)	8.2 (11)	3.0 (4)	3.0 (4)
Groping (175) <i>P</i> =0.003	80.6 (141)	10.3 (18)	5.1 (9)	2.3 (4)	1.7 (3)
<b><i>Backache P&lt;0.001</i></b>					
No SA (6905)	39.6 (2737)	33.9 (2342)	15.3 (1059)	8.4 (583)	2.7 (184)
SA (232)	31.5 (73)	33.2 (77)	14.7 (34)	15.1 (35)	5.6 (13)
Rape (137) <i>P</i> =0.005	32.1 (44)	33.6 (46)	12.4 (17)	16.1 (22)	5.8 (8)
Groping (176) <i>P</i> =0.001	31.8 (56)	35.2 (62)	11.9 (21)	13.6 (24)	7.4 (13)
<b><i>Pain moving from one place to another P&lt;0.001</i></b>					
No SA (6904)	83.0 (5728)	10.1 (694)	4.1 (284)	2.0 (139)	0.9 (59)
SA (233)	72.5 (169)	15.9 (37)	5.6 (13)	3.9 (9)	2.1 (5)
Rape (139)	69.1 (96)	16.6 (23)	7.2 (10)	3.6 (5)	3.6 (5)
Groping (179) <i>P</i> =0.007	74.0 (131)	13.6 (24)	6.2 (11)	3.4 (6)	2.8 (5)
<b><i>Unpleasant numbness or tingling sensations P&lt;0.001</i></b>					
No SA (6910)	83.5 (5771)	10.2 (706)	3.6 (248)	2.0 (135)	0.7 (50)
SA (235)	69.8 (164)	14.0 (33)	6.8 (16)	8.0 (19)	1.3 (3)
Rape (139)	71.2 (99)	11.5 (16)	7.2 (10)	8.6 (12)	1.4 (2)
Groping (179)	66.5 (119)	16.2 (29)	7.3 (13)	8.9 (16)	1.1 (2)
<b>General Symptoms</b>					
<b><i>Concentration difficulties P&lt;0.001</i></b>					
No SA (6945)	55.1 (3824)	32.6 (2262)	8.4 (585)	3.0 (211)	0.9 (63)
SA (235)	30.6 (72)	35.3 (83)	21.3 (50)	8.5 (20)	4.3 (10)
Rape (139)	28.1 (39)	35.3 (49)	21.6 (30)	12.2 (17)	2.9 (4)
Groping (179)	29.1 (52)	36.9 (66)	20.7 (37)	8.4 (15)	5.0 (9)
<b><i>Excessive fatigue P&lt;0.001</i></b>					
No SA (6949)	30.3 (2102)	42.1 (2930)	16.5 (3)	8.4 (586)	2.7 (185)
SA (235)	18.3 (43)	29.4 (69)	28.5 (67)	16.6 (39)	7.2 (17)
Rape (139)	15.8 (22)	30.2 (42)	25.2 (35)	21.6 (30)	7.2 (10)
Groping (179)	19.6 (35)	27.4 (49)	27.4 (49)	16.8 (30)	8.9 (16)
<b><i>Headache P&lt;0.001</i></b>					
No SA (6940)	53.5 (3713)	32.2 (2233)	8.9 (619)	4.1 (283)	1.3 (92)
SA (235)	34.9 (82)	37.0 (87)	15.3 (36)	9.4 (22)	3.4 (8)
Rape (139)	34.5 (48)	36.0 (50)	14.4 (20)	11.0 (15)	4.3 (6)
Groping (179)	32.4 (58)	39.7 (71)	14.0 (25)	10.1 (18)	3.9 (7)
<b><i>Impairment of memory P&lt;0.001</i></b>					
No SA (6949)	56.7 (3942)	31.6 (2193)	7.8 (541)	3.0 (205)	1.0 (68)
SA (235)	34.8 (81)	37.0 (87)	12.8 (30)	11.1 (26)	4.7 (11)
Rape (139)	30.2 (42)	39.6 (55)	11.5 (16)	13.7 (19)	5.0 (7)
Groping (179)	34.6 (62)	35.2 (63)	12.9 (23)	11.7 (21)	5.6 (10)

***Dizzines  $P<0.001$***

No SA (6942)	72.9 (5061)	20.4 (1418)	4.5 (310)	1.9 (132)	0.3 (21)
SA (235)	54.9 (129)	31.5 (74)	9.8 (23)	3.0 (7)	0.9 (2)
Rape (139)	48.2 (67)	37.4 (52)	11.5 (16)	2.9 (4)	-
Groping (179)	55.3 (99)	30.7 (55)	8.9 (16)	3.9 (7)	1.1 (2)

Table S5		Associations between FSD and sexual assault divided into rape and groping and both																
FSD Cases	Crude									Adjusted*								
	Groping (n=96)			Rape (n=56)			Groping and Rape (n=83)			Groping (n=96)			Rape (n=56)			Groping and Rape (n=83)		
	RR	95% CI	P-Value	RR	95% CI	P-Value	RR	95%CI	P-Value	RR	95% CI	P-Value	RR	95% CI	P-Value	RR	95% CI	P-Value
Single-organ	1.68	1.18-2.37	0.004	2.33	1.64-3.33	>0.001	2.31	1.70-3.14	>0.001	1.24	0.85-1.81	0.270	2.02	1.38-2.95	>0.001	1.50	1.07-2.09	0.018
Multi-organ	4.87	1.82-12.99	0.002	2.43	0.34-17.06	0.371	12.52	6.31-24.82	>0.001	1.44	0.36-5.71	0.607	1.92	0.28-13.34	0.508	6.26	3.25-12.06	>0.001
FSS Cases																		
CWP	1.41	0.65-3.09	0.388	1.21	0.40-3.66	0.736	3.03	1.73-5.31	>0.001	1.67	0.57-2.39	0.673	1.00	0.34-3.00	0.995	1.53	0.84-2.78	0.163
IB	1.80	0.82-3.94	0.142	3.67	1.82-7.41	>0.001	3.28	1.75-6.15	>0.001	1.16	0.49-2.75	0.729	2.92	1.45-5.88	0.003	2.36	1.26-4.40	0.007
CF	1.76	1.10-2.82	0.018	1.61	0.84-3.07	0.148	4.08	3.03-5.48	>0.001	1.29	0.80-2.10	0.299	1.46	0.78-2.72	0.234	2.50	1.87-3.34	>0.001
MCS	2.69	1.13-6.42	0.026	4.61	1.97-10.83	<0.001	4.47	2.16-9.25	>0.001	2.07	0.78-5.49	0.144	4.56	1.93-10.79	0.001	3.16	1.42-7.00	0.005
WAD-	2.74	1.03-7.30	0.043	3.56	1.16-10.86	0.026	3.26	1.23-8.63	0.017	1.98	0.63-6.15	0.238	3.55	1.16-10.91	0.027	2.76	(1.02-7.43)	0.044

Table S5: \*Adjusted for age at inclusion, sex, social status, vocational training, adverse childhood environment. Abbreviations: RR: risk ratio; SA: sexual assault; FSD: functional somatic disorders; BDS: bodily distress syndrome; FSS: functional somatic syndrome; CWP: chronic widespread pain; IB: irritable bowel; CF: chronic fatigue; MCS: multiple chemical sensitivity; WAD: whiplash-associated disorder.