Additional File 5, supplementary tables

Supplementary Table 1. Baseline characteristics of the participants

	Intervention group (N=99)	Control group (N=100)
Sex, boy, no (%)	45 (45%)	40 (40%)
Age at inclusion (mean, SD)	10.9 (2.1)	10.7 (2.0)
Madicina usa		
Medicine use	02 (020/)	00 (000/)
Non-prescriptive (yes)	92 (93%)	88 (88%)
Prescriptive medicine (yes)	5 (5%)	3 (3%)
Previous examination* (yes)	63 (64%)	54 (54%)
Examination by general practitioner	58 (59%)	52 (52%)
Previous treatment* (yes)	18 (18%)	23 (23%)
Treatment by chiropractor	8 (8%)	10 (10%)
Previous trauma head and/or neck (yes)	78 (79%)	73 (73%)
Reasons for sick leave*		
Headache	84 (85%)	79 (79%)
Sick days latest year due to headache		
0 days	13 (13%)	15 (15%)
1-5 days	45 (46%)	46 (46%)
5-20 days	36 (36%)	34 (34%)
More than 20 days	5 (5%)	5 (5%)
Neck pain within latest year (yes)	57 (58%)	70 (70%)
Back pain within latest year (yes)	43 (43%)	44 (44%)
Parents and/or sibling with headache (yes)	73 (74%)	75 (75%)
Allergies (yes)	30 (30%)	37 (37%)
Frequency of suffering from stomachache		
No	20 (20%)	14 (14%)
Sometimes (1-12 times per year)	47 (48%)	53 (53%)
Often (more than 1 time per month)	32 (32%)	33 (33%)
Number of weekly sports sessions		

0 times	5 (5%)	6 (6%)
1-3 times	72 (73%)	68 (68%)
More than 3 times	22 (22%)	26 (26%)
Number of screen time hours per day		
0-1 hour	2 (2%)	14 (14%)
2-4 hours	75 (76%)	64 (64%)
More than 4 hours	22 (22%)	22 (22%)
Numbers of hours of sleep per night		
6-8 hours	21 (21%)	18 (18%)
9-12 hours	78 (79%)	82 (82%)

* For these variables the frequency of the most frequent category is reported

	Control (n=100)	Intervention (n=99)
	n (%)	n (%)
Duration		
0.5 to 1 year	22 (22%)	17 (17%)
1 to 3 years	53 (53%)	47 (47%)
More than 3 years	25 (25%)	35 (35%)
Frequency		
1-2 days a week	40 (40%)	38 (38%)
3-5 days a week	46 (46%)	49 (49%)
Almost every day	14 (14%)	12 (12%)
Duration of attack		
Less than 2 hours	13 (13%)	12 (12%)
2 hours up to half a day	67 (67%)	64 (65%)
The whole day	19 (19%)	20 (20%)
All day and all night	2 (2%)	2 (2%)
Typical onset of attack		
Morning	10 (10%)	11 (11)
Before noon	17 (17%)	21 (21%)
Afternoon	27 (27%)	19 (19%)
Evening/night	4 (4%)	0 (0%)
Varies over day and night	42 (42%)	48 (48%)
Typical onset place		
The entire head	15 (15%)	13 (13%)
Back side of the head	4 (4%)	3 (3%)
One side of the head	13 (13%)	8 (8%)
The neck	2 (2%)	2 (2%)
The forehead	32 (32%)	38 (38%)
Behind one eye	6 (6%)	5 (5%)
Varies a lot	28 (28%)	30 (30%)
Other cooccurring symptoms		
Nausea	56 (56%)	51 (52%)
Vomiting	22 (22%)	21 (21%)
Dizziness	53 (53%)	53 (54%)
Stomachache	37 (37%)	31 (31%)
Visual disorder	22 (22%)	29 (29%)
Seeing dots	17 (17%)	24 (24%)
Numbness arms	8 (8%)	7 (7%)
Light sensitivity	48 (48%)	61 (62%)
Sound sensitivity	57 (57%)	65 (66%)
Other symptoms	9 (9%)	11 (11%)
Activities/pain causing headache (yes)		
Neck pain	53 (53%)	42 (42%)

Supplementary Table 2. Headache characteristics at baseline

24 (24%)	19 (19%)
43 (43%)	36 (36%)
34 (34%)	41 (41%)
40 (40%)	34 (34%)
29 (29%)	27 (27%)
51 (51%)	50 (51%)
2 (2%)	8 (8%)
51 (51%)	59 (60%)
82 (82%)	83 (84%)
31 (31%)	29 (29%)
53 (53%)	55 (56%)
44 (44%)	50 (51%)
13 (13%)	15 (15%)
74 (74%)	76 (77%)
Mean (p10-p90	Mean (p10-p90)
2.8 (2.5-3.1)	2.7 (2.5-3.0)
5.2 (5.0-5.5)	5.2 (4.9-5.4)
0.4 (0.4-0.5)	0.5 (0.4-0.5)
	43 (43%) 34 (34%) 40 (40%) 29 (29%) 51 (51%) 2 (2%) 51 (51%) 82 (82%) 31 (31%) 53 (53%) 44 (44%) 13 (13%) 74 (74%) Mean (p10-p90 2.8 (2.5-3.1) 5.2 (5.0-5.5)

		of children with ion, n (%)*		consultations with tion, n (%)	Number of consultations with reaction by child, range		
	Control (N = 98)	Intervention (N = 96)	Control (N = 664)	Intervention (N = 1052)	Control	Intervention	
Fatigue (total)**	35 (35.7%)	25 (26.0%)	69 (10.4%)	80 (7.6%)	0-5	0-11	
0-2 hours	30 (30.6%)	20 (20.8%)	59 (8.9%)	46 (4.4%)	0-5	0-8	
2-24 hours	7 (7.1%)	11 (11.5%)	7 (1.1%)	20 (1.9%)	0-1	0-6	
24-48 hours	3 (3.1%)	6 (6.3%)	3 (0.5%)	14 (1.3%)	0-1	0-5	
Headache (total)**	36 (36.7%)	50 (52.1%)	53 (8.0%)	108 (10.3%)	0-5	0-12	
0-2 hours	23 (23.5%)	35 (36.5%)	34 (5.1%)	69 (6.6%)	0-5	0-11	
2-24 hours	14 (14.3%)	20 (20.8%)	14 (2.1%)	26 (2.5%)	0-1	0-3	
24-48 hours	5 (5.1%)	9 (9.4%)	5 (0.8%)	11 (1.1%)	0-1	0-2	
Persistent	0 (0%)	2 (2.1%)	0 (0%)	2 (0.2%)	0	0-1	
Local soreness (total)**	37 (37.8%)	50 (52.1%)	61 (9.2%)	139 (13.2%)	0-4	0-9	
0-2 hours	25 (25.5%)	38 (39.6%)	38 (5.7%)	73 (6.9%)	0-4	0-9	
2-24 hours	15 (15.3%)	27 (28.1%)	16 (2.4%)	43 (4.1%)	0-2	0-5	
24-48 hours	5 (5.1%)	12 (12.5%)	6 (1.0%)	21 (2.0%)	0-2	0-4	
Persistent	1 (1.0%)	2 (2.1%)	1 (0.2%)	2 (0.2%)	0-1	0-1	
Nausea (total)**	7 (7.1%)	9 (9.4%)	11 (1.7%)	13 (1.2%)	0-3	0-4	
0-2 hours	5 (5.1%)	5 (5.2%)	7 (1.1%)	8 (0.8%)	0-2	0-4	
2-24 hours	4 (4.1%)	0 (0%)	4 (0.6%)	0 (0%)	0-1	0	
24-48 hours	0 (0%)	5 (5.2%)	0 (0%)	5 (0.5%)	0	0-1	

Supplementary Table 3. Reported reactions to treatment by group by total number of consultations

Stomach ache (total)**	3 (3.1%)	4 (4.2%)	4 (0.6%)	5 (0.5%)	0-2	0-2
0-2 hours	3 (3.0%)	0 (0%)	4 (0.6%)	0 (0%)	0-2	0
2-24 hours	0 (0%)	2 (2.1%)	0 (0%)	2 (0.2%)	0	0-1
24-48 hours	0 (0%)	3 (3.1%)	0 (0%)	3 (0.3%)	0	0-1
Vomit (total)**	1 (1.0%)	1 (1.0%)	1 (0.2%)	1 (0.1%)	0-1	0-1
0-2 hours	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0	0
2-24 hours	1 (1.0%)	1 (1.0%)	1 (0.2%)	1 (0.1%)	0-1	0-1
24-48 hours	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0	0
Appearance of visual and/or sensibility disorder						
Yes	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0	0

*A child can appear in multiple subcategories within the same type of reaction, since they could have different degrees of reaction at different consultations.

**Number of children or consultations with at least one reaction of that type.

Supplementary Table 4. Results based on alternative definitions of pain intensity and medication use as described in the initial outcome data analysis report

	Control		Intervention					
	N Mean		Ν	Mean	Difference in mean (95%	p-	р-	Cohen's
					CI)	value	value*	d
Change in intensity (int1) (NRS 0-10)*	97	-1.04	96	-1.23	-0.18 (0.32; -0.69)	0.476	0.367	0.10
Change in intensity (int3) (NRS 0-10)**	91	-0.94	88	-0.85	0.09 (0.64; -0.46)	0.749	0.714	0.05
Change in fraction of weeks with	53	-0.19	55	-0.17	0.03 (0.15; -0.10)	0.673	0.565	0.08
medicine***								

*Original definition: weeks without pain are assigned an intensity of 0

** The mean over the last available four weeks with headache, but maximally going back 7 weeks

***Analysed only in children with at least two weeks with a pill in the pre-treatment period