Additional file 7
Relative risk ratio (RRR) of spinal pain according to the secondary definition of screen-based activity (based on computer games etc. and tv viewing) and physical activity, respectively, among the 45,555 pre-adolescents included in the study population (The Danish National Birth Cohort, born 1996-2003)

	Model 1 ^{ab}			Model 2 ^{bc}		Model 3 ^{bd}	
	No. of cases	Moderate pain	Severe pain	Moderate pain	Severe pain	Moderate pain	Severe pain
	Moderate/Severe	RRR (95% CI)	RRR (95% CI)	RRR (95% CI)	RRR (95% CI)	RRR (95% CI)	RRR (95% CI)
SBA, Girls (h/day)							
< 2	2,340/1,022	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
2 to < 4	3,581/1,550	1.19 (1.11-1.26)	1.18 (1.08-1.28)	1.18 (1.10-1.26)	1.16 (1.06-1.27)	1.17 (1.10-1.25)	1.14 (1.04-1.24)
4 to < 6	1,029/507	1.44 (1.32-1.59)	1.63 (1.45-1.84)	1.42 (1.29-1.56)	1.58 (1.40-1.79)	1.39 (1.27-1.53)	1.49 (1.32-1.69)
\geq 6	300/196	1.65 (1.41-1.94)	2.47 (2.05-2.97)	1.61 (1.37-1.88)	2.35 (1.95-2.83)	1.57 (1.34-1.84)	2.18 (1.81-2.63)
SBA, Boys (h/day)							
< 2	996/319	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
2 to < 4	2,832/904	1.04 (0.95-1.13)	1.04 (0.91-1.19)	1.03 (0.95-1.13)	1.03 (0.90-1.18)	1.03 (0.95-1.13)	1.01 (0.88-1.16)
4 to < 6	1,706/564	1.28 (1.17-1.41)	1.32 (1.14-1.53)	1.26 (1.15-1.39)	1.29 (1.12-1.50)	1.24 (1.13-1.37)	1.24 (1.07-1.44)
\geq 6	708/326	1.33 (1.18-1.50)	1.91 (1.62-2.27)	1.29 (1.14-1.45)	1.82 (1.54-2.16)	1.25 (1.11-1.41)	1.68 (1.42-2.00)
Physical activity behavior							
Inactive	1,627/769	1.25 (1.16-1.33)	1.56 (1.42-1.71)	1.15 (1.07-1.24)	1.32 (1.20-1.45)	1.13 (1.05-1.21)	1.24 (1.13-1.37)
Lightly active	6,225/2,474	1.14 (1.09-1.19)	1.20 (1.12-1.28)	1.11 (1.06-1.16)	1.13 (1.06-1.21)	1.09 (1.04-1.14)	1.09 (1.02-1.17)
Moderately active	5,066/1,914	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Vigorously active	574/231	0.98 (0.88-1.09)	1.04 (0.90-1.21)	1.00 (0.90-1.11)	1.08 (0.93-1.25)	1.00 (0.90-1.11)	1.07 (0.92-1.25)

a Crude model (SBA was analyzed as the interaction between SBA and child's sex)

Test of interaction between SBA and physical activity: P = 0.018

b Reference categories: For explanatory variables; less than 2 hours used on SBA daily and being moderately physically active, and for outcome variables; not having reported moderate or severe spinal pain in DNBC-11 (No pain)

c Simultaneously modeled for the interaction between SBA and child's sex, and physical activity behavior, but without further adjustments.

d Adjusted for child's age, parity, family type, parental education, household income and simultaneously modeled for physical activity and the interaction between SBA and child's sex