Additional file 5
Relative risk ratio (RRR) of mid back pain according to screen-based activity 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 <sup>ab</sup>			Model 2 <sup>bc</sup>		Model 3 <sup>bd</sup>	
	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	797/249	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
2 to < 4	1,619/556	1.12 (1.03-1.23)	1.24 (1.06-1.44)	1.11 (1.02-1.22)	1.22 (1.05-1.42)	1.09 (1.00-1.20)	1.18 (1.01-1.37)
4 to < 6	671/235	1.42 (1.27-1.59)	1.59 (1.32-1.91)	1.38 (1.24-1.55)	1.54 (1.28-1.85)	1.33 (1.19-1.49)	1.42 (1.18-1.71)
$\geq$ 6	278/140	1.82 (1.56-2.12)	2.93 (2.36-3.64)	1.75 (1.51-2.04)	2.78 (2.23-3.47)	1.65 (1.42-1.93)	2.45 (1.96-3.06)
SBA, Boys (h/day)							
< 2	397/86	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
2 to < 4	1,246/288	1.16 (1.03-1.31)	1.24 (0.97-1.59)	1.15 (1.02-1.30)	1.23 (0.96-1.57)	1.14 (1.01-1.29)	1.21 (0.95-1.55)
4 to < 6	777/189	1.43 (1.26-1.63)	1.60 (1.24-2.08)	1.39 (1.22-1.58)	1.56 (1.20-2.03)	1.36 (1.19-1.55)	1.49 (1.15-1.93)
$\geq$ 6	382/150	1.57 (1.35-1.83)	2.85 (2.17-3.74)	1.50 (1.29-1.75)	2.71 (2.06-3.56)	1.44 (1.23-1.68)	2.47 (1.88-3.25)
Physical activity behavior							
Inactive	796/298	1.33 (1.22-1.45)	1.65 (1.43-1.89)	1.21 (1.11-1.33)	1.32 (1.14-1.53)	1.18 (1.08-1.29)	1.25 (1.08-1.44)
Lightly active	2,927/859	1.21 (1-14-1.28)	1.17 (1.05-1.30)	1.17 (1.10-1.24)	1.09 (0.98-1.21)	1.15 (1.08-1.22)	1.04 (0.94-1.16)
Moderately active	2,185/662	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Vigorously active	259/74	1.03 (0.90-1.18)	0.97 (0.76-1.14)	1.05 (0.91-1.20)	1.01 (0.79-1.30)	1.05 (0.91-1.20)	1.01 (0.79-1.29)

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

Test of interaction between SBA and physical activity: P = 0.029

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 mid back 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 the interaction between SBA and child's sex, and physical activity behavior