

## Smoking During Adolescence as a Risk Factor for Attention Problems

### *Supplemental Information*

**Table S1. Socio demographic characteristics and concordance on smoking status**

<b>Adult MZ Twins (Group I)</b> <i>n</i> = 1,987 pairs / 3,974 individuals		<b>Adolescent MZ Twins (Group III)</b> <i>n</i> = 648 pairs / 1,296 individuals	
Concordant never smoking, <i>n pairs</i> (%)	731 (36.8)	Concordant never smoking, <i>n pairs</i> (%)	500 (77.2)
Concordant ever smoking, <i>n pairs</i> (%)	721 (36.3)	Concordant ever smoking, <i>n pairs</i> (%)	76 (11.7)
Discordant, <i>n pairs</i> (%)	454 (22.8)	Discordant, <i>n pairs</i> (%)	63 (9.7)
Concordance missing, <i>n pairs</i> (%)	81 (4.1)	Concordance missing, <i>n pairs</i> (%)	9 (1.4)
Age, M (SD)	33.8 (13.8)	Age, M (SD)	15.0 (0.9)
Sex, <i>n individuals</i> (%)		Sex, <i>n individuals</i> (%)	
Male	1,050 (26.4)	Male	414 (31.9)
Female	2,922 (73.6)	Female	882 (68.1)
Educational achievement, <i>n individuals</i> (%)		Educational achievement, <i>n individuals</i> (%)	
Low	567 (15.3)	Low	351 (33.5)
Intermediate	1,189 (32.1)	Intermediate	293 (28.0)
High	1,943 (52.5)	High	403 (38.5)
Employment, <i>n individuals</i> (%)			
Full-time (>32 hrs)	1,170 (35.3)		
Part-time (≤32 hrs)	1,022 (30.8)		
No paid job	1,121 (33.8)		
In a steady relationship, <i>n individuals</i> (%)			
Yes	2,456 (65.9)		
No	1,273 (34.1)		

Concordance was missing if it could not be determined due to missing answers for one or both of the twins; to determine educational achievement the participants were asked about their current educational level, this variable had the following categories: primary school/lower vocational schooling (low), intermediate vocational/upper secondary school (intermediate) and upper vocational/university (high); the employment category 'No paid job' included the status of housewife/man, student and involuntarily unemployed.

## **Supplemental text**

In the adult twins of group I, age at first cigarette was determined by the question 'At what age did you smoke your first cigarette?', with answer categories '11 years or younger', '12 years', '13 years', '14 years', '15 years', '16 years', '17 years', '18 years or older' (obtained from surveys sent in 1993, 1995, 1997 & 2009). When participants answered this question in multiple surveys, but gave slightly different answers (with a maximum of 2 years difference), the lowest age was selected (16.5% of the cases). Age at first cigarette was coded as unknown when answers between surveys differed 3 or more years (5.6%). When information on the variable age at first cigarette was available, the attention problems score from before this age was used (21.1%). If age at first cigarette was not available but the smoking twin answered 'No' when asked 'Have you ever smoked?' in one of the adolescent surveys, the attention problems score from that time-point was used as the pre-smoking measure (remaining 78.9%).