

Introduction

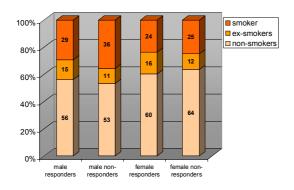
The study is part of a longitudinal questionnaire study that assesses families with adolescent and young adult twins every two year since 1991. In 2000 a questionnaire on health, personality, alcohol use and smoking was mailed to twins, siblings and spouses of twins.

	1991	1993	1995	1997	2000*
Fathers	1497	1785	1577	-	-
Mothers	1638	1923	1690	-	-
Twins	3394	3884	3408	3141	4356
Siblings	-	-	1500	1444	1351
Partners	-	-	-	-	681
Total	6529	7592	8175	4584	6388

Data collection is not finished yet.

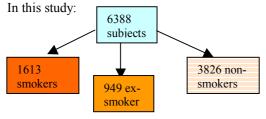
Selection bias?

Percentage smokers in the responders group (n=6359) and non-responders group (n=1908).

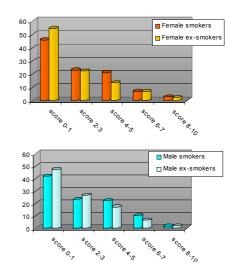


Nicotine dependence

Nicotine dependence is measured with the Fagerström Test for Nicotine Dependence



FTND-score



The number of subjects in a family with FTND score:

	FTND score:			
family (n)	>=0	>=2	>=5	>=6
1	985	550	298	185
2	517	153	47	18
3	115	16	6	3
4	31	2	1	
5	11	2		
6	3	1		
7	3			

Correlations

	Smoking		FTND-score	
	(tetrach c	or.)	(pearson cor.)	
	r	n	r	n
MZM	.82	241	.55	73
DZM	.64	137	.26	35
MZF	.82	835	.66	159
DZF	.43	312	.33	69
DOS	.38	306	.16	71
Br–br	.36	94	.31	29
Sis-sis	.65	179	.23	58
Br-sis	.40	222	.24	50
Spouse	.44	661	.48	154

Conclusions:

- Selection bias for men but not for women.
- ➢ FTND of 1613 smokers and 949 ex-smokers: 10,8 % of the smokers is highly dependent (FTND score ≥=6) on nicotine and 9,4% of the ex-smokers was highly dependent.
- Nicotine dependence: influenced by genetic factors
- > Future research: to collect dna from nicotine dependent sib-pairs for linkage analysis.