

Supplemental data

Table S1. Selection of included workers

	Painters	Referents
Total in Register	25,336	121,414
Excluding women	420	204
Excluding men who had died, emigrated or had disability pension before 1976	1143	5,717
Excluding men younger than 15 or older than 64 at health examination	295	1,376
Excluding men with BMI of more than 35 or less than 18.5 kgg/m ²	- 833	2,848
Total included	23,065	111,269

Table S2 Basic characteristics of the construction workers, all men.

	Painters	Referents
Number of men ^a	23,065	111,269
Non-smokers (%)	41.1	39.7
BMI (mean)	23.7	24,1
Age at examination (mean)	32.9	34.5
Year of birth (mean)	1945.3	1943.6
Disability pension ^b		
All diagnoses		
N	4,812	24,439
Incidence rate ^c	11.06	12.02
Neurological diagnoses		
N	285	745
Incidence rate ^c	0.66	0.37
Psychiatric diagnoses		
N	632	1,983
Incidence rate ^c	1.45	0.98
Other diagnoses		
N	3,895	21,711
Incidence rate ^c	8.96	10.68

a) 20-64 years of age

b) 30-64 years of age

c) Crude rate, cases per 1000 person-years (painters 434,951 and referents 2,033,310 person-years respectively)

Table S3 Relative risks^a (RR; 95 % confidence intervals) in men 35-64 years old, 1976-2010

Cause of disability pension	Painters		Referents	
	N	RR ^a	N	RR
All	4,812	1.18 (1.08-1.30)	24,439	1
Neurological disorders	285	1.92 (1.67-2.20)	745	1
Psychiatric disorders	632	1.61 (1.42-1.82)	1,983	1
All causes except neurological or psychiatric disorders	3,895	0.96 (0.86-1.15)	21,711	1

a) Adjusted for age, time period, smoking habits and BMI

Table S4 Relative risks for Disability pension in painters compared to referents due to neurological disorders according to time period

Period	Cases	RR ^a	95 % CI	
1976-1981	34/99	1.96	1.32	2.89
1982-1986	54/96	3.34	2.39	4.67
1987-1991	39/86	2.46	1.68	3.60
1992-1996	53/113	2.29	1.65	3.17
1997-2001	33/106	1.48	1.00	2.19
2002-2010	72/245	1.35	1.04	1.75

a) P for difference in time trend 0.0006

Table S5 Relative risks for Disability pension in painters compared to referents due to psychiatric disorders according to time period

Period	Cases	RR ^a	95 % CI	
1976-1981	52/160	1.84	1.34	2.51
1982-1986	53/204	1.52	1.12	2.05
1987-1991	68/242	1.47	1.12	1.92
1992-1996	97/320	1.45	1.15	1.82
1997-2001	97/253	1.77	1.40	2.24
2002-2010	265/804	1.49	1.30	1.72

a) P for difference in time trend 0.98

Table S6 Relative risks for Disability pension in painters compared to referents except due to neurological or psychiatric disorders according to time period

Period	Cases	RR ^a	95 % CI	
1976-1981	668/4027	0.96	0.86	1.08
1982-1986	494/3802	0.84	0.74	0.97
1987-1991	552/3285	1.03	0.92	1.16
1992-1996	782/3912	1.03	0.94	1.13
1997-2001	471/2193	1.13	0.99	1.30
2002-2010	928/4492	0.96	0.90	1.08

a) P for difference in time trend 0.83

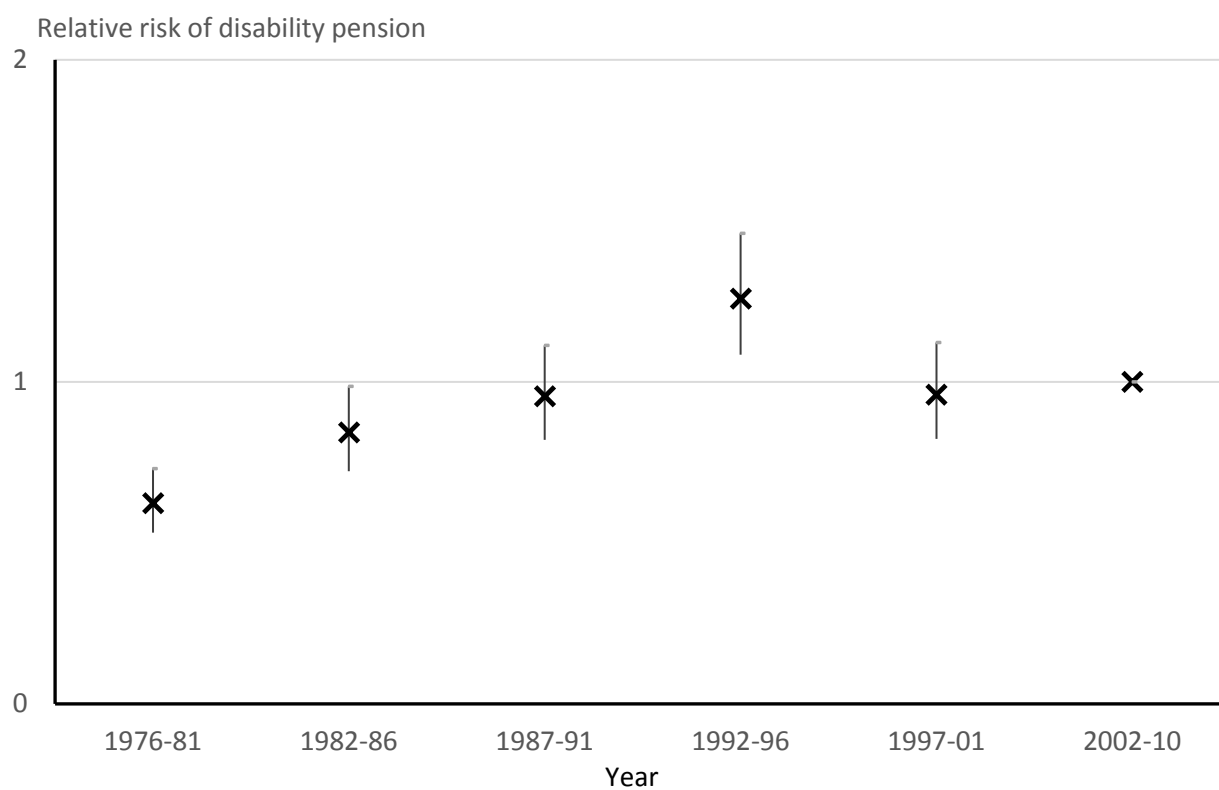


Figure S1 Relative risk of disability pension in all diagnosis in painters compared to referents (2002-2010 is the reference) with 95 % confidence intervals. The risks were adjusted for age, group, BMI and smoking habits.