

**SUPPLEMENT****Table S1:** Definition of analytic sample

N = 389 132	Exclusions
	Women (n = 19 418)
N = 369 714	
	Age at baseline examination > 64 years (n = 6843)
N = 362 871	
	Occupation not reported at any health examination (n = 18 436)
N = 344 435	
	Age > 64 years before 1987 (n = 40 963)
N = 303 472	
	Death before 1987 (n = 4548)
N = 298 924	
	Emigration between last health examination and 1987 (n = 2033)
N = 296 891	

**Table S2:** Occupation registered at last health examination and risk for incident suicidal behavior

Occupation at last health visit	Suicide (n = 296 352)		Non-fatal self-harm (n = 294 156)	
	All cases (n = 1618)	With known intent (n = 1309)	All cases (n = 4647)	With known intent (n = 2086)
	HR (95% CI) <sup>ab</sup>	HR (95% CI) <sup>ab</sup>	HR (95% CI) <sup>a</sup>	HR (95% CI) <sup>a</sup>
Road construction worker	1.31 (0.91, 1.90)	1.19 (0.78, 1.82)	1.02 (0.80, 1.31)	1.28 (0.90, 1.81)
Rock worker	1.48 (0.95, 2.30)	1.77 (1.12, 2.80)*	1.28 (0.92, 1.78)	1.14 (0.69, 1.88)
Laborer	1.43 (1.15, 1.80)**	1.40 (1.09, 1.80)**	1.08 (0.92, 1.27)	1.07 (0.85, 1.35)
Concrete worker	1.10 (0.93, 1.31)	1.00 (0.82, 1.22)	1.19 (1.07, 1.32)**	1.23 (1.05, 1.43)**
Carpenter	0.99 (0.87, 1.13)	0.99 (0.86, 1.14)	1.00 (0.93, 1.08)	0.94 (0.84, 1.06)
Bricklayer	1.27 (0.98, 1.65)	1.13 (0.83, 1.54)	0.89 (0.74, 1.07)	1.10 (0.86, 1.41)
Floor-layer	0.83 (0.57, 1.21)	0.86 (0.57, 1.30)	1.10 (0.90, 1.33)	1.08 (0.80, 1.45)
Glazier	0.95 (0.58, 1.56)	0.85 (0.47, 1.53)	1.15 (0.87, 1.51)	1.45 (1.02, 2.07)*
Insulation worker	1.07 (0.67, 1.71)	1.08 (0.64, 1.82)	0.97 (0.72, 1.31)	0.99 (0.65, 1.53)
Sheet-metal worker	1.18 (0.94, 1.47)	1.08 (0.84, 1.40)	1.23 (1.08, 1.40)**	1.25 (1.03, 1.51)*
Roofer	1.69 (1.01, 2.84)*	1.63 (0.91, 2.94)	1.41 (0.99, 2.01)	1.25 (0.71, 2.18)
Pipe fitter, plumber	0.98 (0.81, 1.18)	0.97 (0.79, 1.19)	1.08 (0.97, 1.21)	1.15 (0.98, 1.34)
Painter	1.16 (0.97, 1.38)	1.18 (0.97, 1.43)	1.14 (1.03, 1.27)*	1.41 (1.22, 1.62)***
Machine operator	0.90 (0.69, 1.18)	0.86 (0.63, 1.17)	0.90 (0.76, 1.08)	0.85 (0.65, 1.11)
Crane operator	1.15 (0.73, 1.82)	1.12 (0.67, 1.88)	1.11 (0.80, 1.53)	1.12 (0.70, 1.79)
Driver	0.43 (0.23, 0.80)**	0.48 (0.25, 0.93)*	1.06 (0.81, 1.39)	1.03 (0.69, 1.52)
Refrigeration mechanic	1.49 (0.85, 2.60)	1.50 (0.81, 2.78)	0.88 (0.58, 1.33)	0.86 (0.47, 1.60)
Reparation mechanic	0.81 (0.46, 1.41)	0.83 (0.45, 1.53)	0.86 (0.61, 1.22)	0.82 (0.49, 1.37)
Electrician	0.77 (0.65, 0.91)**	0.81 (0.68, 0.97)	0.71 (0.64, 0.78)***	0.57 (0.49, 0.67)***
Other construction work <sup>c</sup>	1.16 (0.96, 1.41)	1.26 (1.02, 1.55)*	1.13 (1.01, 1.26)*	1.20 (1.01, 1.41)*
Foreman	0.57 (0.47, 0.70)***	0.61 (0.49, 0.75)***	0.64 (0.57, 0.72)***	0.49 (0.40, 0.60)***
Clerk, employee	0.50 (0.37, 0.68)***	0.53 (0.38, 0.74)***	0.63 (0.52, 0.76)***	0.56 (0.42, 0.75)***

<sup>a</sup> Cox proportional hazard regression adjusted for age, year, and region (ref=overall mean)

<sup>b</sup> Further adjusted for self-harm before baseline

<sup>c</sup> Scaffold builder, welder, blacksmith etc.

\* p <.05, \*\* p <.01, \*\*\* p <.001