Supplemental table 1: Comparison of baseline characteristics between censored and uncensored participants for the single-item CVD analysis

Variable	**All** (*N* = 3427)	**Censored** (*n* =239)	**Uncensored** (*n* = 3188)	**p-value**
Sex (Women)	*n* = 1644 (48 %)	*n* = 97 (41 %)	*n* = 1547 (49 %)	0.019
Age groups				> 0.05
35–44	*n* = 1285 (38 %)	*n* = 89 (37 %)	*n* = 1196 (38 %)	
45–54	*n* = 1403 (41 %)	*n* = 84 (35 %)	*n* = 1319 (41 %)	
55–64	*n* = 739 (22 %)	*n* = 66 (28 %)	*n* = 673 (21 %)	
SES (categories)				> 0.05
Low	*n* = 157 (5 %)	*n* = 14 (6 %)	*n* = 143 (5 %)	
Medium	*n* = 1706 (50 %)	*n* = 123 (52 %)	*n* = 1583 (50 %)	
High	*n* = 1562 (46 %)	*n* = 102 (43 %)	*n* = 1460 (46 %)	

Supplemental table 2: Comparison of baseline characteristics between censored and uncensored participants for the five-item CVD analysis

Variable	**All** (*N* = 3875)	**Censored** (*n* =264)	**Uncensored** (*n* = 3611)	**p-value**
Sex (Women)	*n* = 1804 (47 %)	*n* = 109 (41 %)	*n* = 1695 (47 %)	0.084
Age groups				> 0.05
35–44	*n* = 1389 (36 %)	*n* = 90 (34 %)	*n* = 1299 (36 %)	
45–54	*n* = 1584 (41 %)	*n* = 100 (389 %)	*n* = 1484 (41 %)	
55–64	*n* = 902 (23 %)	*n* = 74 (28 %)	*n* = 828 (23 %)	
SES (categories)				> 0.05
Low	*n* = 178 (5 %)	*n* = 17 (6 %)	*n* = 161 (5 %)	
Medium	*n* = 1899 (49 %)	*n* = 130 (49 %)	*n* = 1769 (49 %)	
High	*n* = 1794 (46 %)	*n* = 117 (44 %)	*n* = 1677 (47 %)	

Supplemental table 3: Comparison of baseline characteristics between censored and uncensored participants for the workplace bullying trajectories analysis

Variable	**All** (*N* = 2341)	**Censored** (*n* =101)	**Uncensored** (*n* = 2240)	**p-value**
Sex (Women)	*n* = 1113 (48 %)	*n* = 38 (38 %)	*n* = 1075 (48 %)	0.042
Age groups				> 0.05
35–44	*n* = 1002 (43 %)	*n* = 37 (37 %)	*n* = 965 (43 %)	
45–54	*n* = 1075 (46 %)	*n* = 50 (50 %)	*n* = 1025 (46 %)	
55–64	*n* = 264 (11 %)	*n* = 14 (14 %)	*n* = 250 (11 %)	
SES (categories)				> 0.05
Low	*n* = 70 (3 %)	*n* = 2 (2 %)	*n* = 68 (3 %)	
Medium	*n* = 1136 (48 %)	*n* = 58 (57 %)	*n* = 1078 (48 %)	
High	*n* = 1133 (48 %)	*n* = 41 (41 %)	*n* = 1092 (49 %)	

Supplemental table 4: Association between workplace bullying and CVD (individual items of the five-items bullying instrument)

Population	Exposure t_0	**Model 1[a]** (HR (95 % CI))	**Model 2[b]** (HR (95 % CI))	**Model 3[c]** (HR (95 % CI))	**Model 4[d]** **(HR (95 % CI))**	**Model 5[e]** **(HR (95 % CI))**
1. Do you get intentionally interrupted during oral contributions?						
All	**No Bullying**	1	1	1	1	1
	Bullying	1.20 (0.89–1.62) *N* = 3868 *n* = 245	1.21 (0.90–1.64) *N* = 3868 *n* = 245	1.22 (0.90–1.64) *N* = 3864 *n* = 244	1.25 (0.92–1.71) *N* = 3602 *n* =227	1.20 (0.88–1.63) *N* = 3847 *n* = 240
Men	**No Bullying**	1	1	1	1	1
	Bullying	1.08 (0.75–1.55) *N* = 2070 *n* = 167	1.17 (0.81–1.68) *N* = 2070 *n* = 167	1.17 (0.81–1.68) *N* = 2067 *n* = 166	1.27 (0.87–1.85) *N* = 1889 *n* = 149	1.18 (0.82–1.71) *N* = 2062 *n* = 165
Women	**No Bullying**	1	1	1	1	1
	Bullying	1.35 (0.79–2.31) *N* = 1798 *n* = 78	1.31 (0.77–2.25) *N* = 1798 *n* = 78	1.32 (0.77–2.26) *N* = 1797 *n* = 78	1.28 (0.75–2.20) *N* = 1713 *n* = 78	1.24 (0.71–2.17) *N* = 1785 *n* = 75
2. Does it happen that you receive no response/reaction when you want to speak to someone?						
All	**No Bullying**	1	1	1	1	1
	Bullying	1.56 (1.09–2.96) *N* = 3874 *n* = 244	1.62 (1.13–2.32) *N* = 3874 *n* = 244	1.58 (1.11–2.27) *N* = 3870 *n* = 243	1.54 (1.06–2.23) *N* = 3607 *n* = 226	1.52 (1.04–2.21) *N* = 3854 *n* = 239
Men	**No Bullying**	1	1	1	1	1
	Bullying	1.39 (0.89–2.18) *N* = 2070 *n* = 166	1.51 (0.96–2.36) *N* = 2070 *n* = 166	1.46 (0.93–2.29) *N* = 2067 *n* = 165	1.44 (0.89–2.31) *N* = 1888 *n* = 148	1.41 (0.88–2.26) *N* = 2069 *n* = 164

Women	**No Bullying**	1	1	1	1	1
	Bullying	1.91 (1.05–3.46) *N* = 1804 *n* = 78	1.85 (1.02–3.35) *N* = 1804 *n* = 78	1.87 (1.03–3.40) *N* = 1803 *n* = 78	1.75 (0.96–3.19) *N* = 1719 *n* = 78	1.69 (0.90–3.14) *N* = 1791 *n* = 75
3. Do you get blamed for others' mistakes or general operational problems?						
All	**No Bullying**	1	1	1	1	1
	Bullying	1.41 (1.04–1.91) *N* = 3863 *n* = 241	1.42 (1.04–1.93) *N* = 3863 *n* = 241	1.44 (1.06–1.95) *N* = 3859 *n* = 240	1.35 (0.98–1.87) *N* = 3598 *n* = 223	1.43 (1.05–1.95) *N* = 3843 *n* = 236
Men	**No Bullying**	1	1	1	1	1
	Bullying	1.22 (0.85–1.74) *N* = 2065 *n* = 164	1.34 (0.93–1.92) *N* = 2065 *n* = 164	1.36 (0.95–1.96) *N* = 2062 *n* = 163	1.29 (0.88–1.90) *N* = 1884 *n* = 146	1.39 (0.96–1.98) *N* = 2085 *n* = 162
Women	**No Bullying**	1	1	1	1	1
	Bullying	1.55 (0.87–2.76) *N* = 1798 *n* = 77	1.64 (0.92–2.92) *N* = 1798 *n* = 77	1.63 (0.91–2.91) *N* = 1797 *n* = 77	1.58 (0.88–2.82) *N* = 1714 *n* = 77	1.53 (0.85–2.77) *N* = 1785 *n* = 74
4. Were important influential or working areas taken away from you?						
All	**No Bullying**	1	1	1	1	1
	Bullying	1.89 (1.20–2.99) *N* = 3863 *n* = 240	1.77 (1.12–2.80) *N* = 3863 *n* = 240	1.70 (1.07–2.70) *N* = 3859 *n* = 239	1.89 (1.19–3.00) *N* = 3598 *n* = 222	1.59 (0.98–2.58) *N* = 3842 *n* = 235
Men	**No Bullying**	1	1	1	1	1

	Bullying	1.78 (1.03–3.07) *N* = 2064 *n* = 164	1.77 (1.02–3.06) *N* = 2064 *n* = 164	1.68 (0.97–2.92) *N* = 2061 *n* = 163	1.88 (1.07–3.28) *N* = 1883 *n* = 146	1.68 (0.94–2.98) *N* = 2057 *n* = 162
Women	**No Bullying**	1	1	1	1	1
	Bullying	1.99 (0.86–4.58) *N* = 1799 *n* = 76	1.77 (0.77–4.09) *N* = 1799 *n* = 76	1.74 (0.76–4.02) *N* = 1798 *n* = 76	1.83 (0.79–4.23) *N* = 1715 *n* = 76	1.47 (0.61–3.50) *N* = 1785 *n* = 73
5. Did you receive unpleasant sexual offers or did you get sexually harassed?						
All	**No Bullying**	1	1	1	1	1
	Bullying	1.47 (0.37–5.90) *N* = 3872 *n* = 242	2.07 (0.51–8.34) *N* = 3872 *n* = 242	1.90 (0.47–7.66) *N* = 3868 *n* = 241	1.60 (0.39–6.49) *N* = 3606 *n* = 224	1.49 (0.37–6.09) *N* = 3851 *n* = 237
Men	**No Bullying**	1	1	1	1	1
	Bullying	1.88 (0.26–13.45) *N* = 2070 *n* = 165	2.54 (0.36–18.17) *N* = 2070 *n* = 165	2.17 (0.30–15.62) *N* = 2067 *n* = 164	2.59 (0.22–11.69) *N* = 1889 *n* = 147	1.71 (0.23–12.75) *N* = 2063 *n* = 163
Women	**No Bullying**	1	1	1	1	1
	Bullying	1.57 (0.22–11.26) *N* = 1802 *n* = 77	1.74 (0.24–12.49) *N* = 1802 *n* = 77	1.69 (0.24–12.19) *N* = 1801 *n* = 77	1.36 (0.19–9.84) *N* = 1717 *n* = 77	1.29 (0.18–9.40) *N* = 1788 *n* = 74

Abbreviations: CI confidence interval, HR hazard ratio, N number of participants, n number of events, t_0 Baseline

[a] unadjusted

[b] adjusted for (sex), age

[c] adjusted for (sex), age, socioeconomic status

[d] adjusted for (sex), age, socioeconomic status, smoking status, alcohol consumption, waist-to-height ratio, physical activity

[e] adjusted for (sex), age, socioeconomic status, depression, Type D personality, anxiety disorder

Supplemental table 5: Association between workplace bullying and incident arterial ischemic CVD

Population	Exposure t_0	Model 1[a] (HR (95 % CI))	Model 2[b] (HR (95 % CI))	Model 3[c] (HR (95 % CI))	Model 4[d] (HR (95 % CI))	Model 5[e] (HR (95 % CI))
Single-item bullying instrument						
All	**No Bullying**	1	1	1	1	1
	Bullying	1.36 (0.86–2.14) *N* = 3471 *n* = 119	1.46 (0.93–2.31) *N* = 3471 *n* = 119	1.36 (0.86–2.15) *N* = 3469 *n* = 119	1.33 (0.83–2.14) *N* = 3245 *n* = 112	1.26 (0.78–2.03) *N* = 3452 *n* = 118
Men	**No Bullying**	1	1	1	1	1
	Bullying	1.43 (0.84–2.43) *N* = 1813 *n* = 85	1.55 (0.91–2.64) *N* = 1813 *n* = 85	1.51 (0.88–2.59) *N* = 1811 *n* = 85	1.43 (0.81–2.50) *N* = 1659 *n* = 78	1.46 (0.83–2.56) *N* = 1806 *n* = 84
Women	**No Bullying**	1	1	1	1	1
	Bullying	1.20 (0.50–2.91) *N* = 1658 *n* = 34	1.26 (0.52–3.04) *N* = 1658 *n* = 34	1.09 (0.45–2.64) *N* = 1658 *n* = 34	1.06 (0.43–2.60) *N* = 1586 *n* = 34	0.93 (0.37–2.33) *N* = 1646 *n* = 34
Five-item bullying instrument						
All	**No Bullying**	1	1	1	1	1
	Bullying	1.28 (0.87–1.89) *N* = 3924 *n* = 143	1.19 (0.81–1.76) *N* = 3924 *n* = 143	1.19 (0.80–1.75) *N* = 3920 *n* = 143	1.18 (0.79–1.76) *N* = 3655 *n* = 133	1.10 (0.73–1.65) *N* = 3904 *n* = 142
Men	**No Bullying**	1	1	1	1	1
	Bullying	1.10 (0.70–1.74) *N* = 2103	1.10 (0.70–1.74) *N* = 2103	1.09 (0.69–1.72) *N* = 2100	1.12 (0.69–1.80) *N* = 2919	1.02 (0.64–1.64) *N* = 2096

		n = 105	*n* = 105	*n* = 105	*n* = 95	*n* = 104
Women	**No Bullying**	1	1	1	1	1
	Bullying	1.57 (0.75–3.32) *N* = 1821 *n* = 38	1.51 (0.71–3.19) *N* = 1821 *n* = 38	1.58 (0.75–3.34) *N* = 1820 *n* = 38	1.52 (0.72–3.23) *N* = 1736 *n* = 38	1.49 (0.68–3.25) *N* = 1808 *n* = 38

Abbreviations: CI confidence interval, HR hazard ratio, N number of participants, n number of events, t_0 Baseline

[a] unadjusted

[b] adjusted for (sex), age

[c] adjusted for (sex), age, socioeconomic status

[d] adjusted for (sex), age, socioeconomic status, smoking status, alcohol consumption, waist-to-height ratio, physical activity

[e] adjusted for (sex), age, socioeconomic status, depression, Type D personality, anxiety disorder

Supplemental table 6: Association between workplace bullying and hypertension (individual items of the five-items bullying instrument)

Population	Exposure t_0	Model 1[a] (RR (95 % CI))	Model 2[b] (RR (95 % CI))	Model 3[c] (RR (95 % CI))	Model 4[d] (HR (95 % CI))	Model 5[e] (HR (95 % CI))
1. Do you get intentionally interrupted during oral contributions?						
All	**No Bullying**	1	1	1	1	1
	Bullying	0.99 (0.83–1.19) *N* = 1960 *n* = 541	0.96 (0.80–1.15) *N* = 1960 *n* = 541	0.96 (0.80–1.15) *N* = 1959 *n* = 541	0.90 (0.75–1.08) *N* = 1823 *n* = 510	0.96 (0.80–1.16) *N* = 1955 *n* = 541
Men	**No Bullying**	1	1	1	1	1
	Bullying	1.04 (0.84–1.28) *N* = 967 *n* = 318	1.05 (0.85–1.28) *N* = 967 *n* = 318	1.05 (0.85–1.30) *N* = 966 *n* = 318	0.99 (0.79–1.23) *N* = 873 *n* = 293	1.07 (0.86–1.33) *N* = 965 *n* = 318
Women	**No Bullying**	1	1	1	1	1
	Bullying	0.79 (0.56–1.14) *N* = 993 *n* = 223	0.78 (0.55–1.11) *N* = 993 *n* = 223	0.77 (0.54–1.09) *N* = 993 *n* = 223	0.70 (0.49–0.99) *N* = 950 *n* = 217	0.74 (0.52–1.06) *N* = 990 *n* = 223
2. Does it happen that you receive no response/reaction when you want to speak to someone?						
All	**No Bullying**	1	1	1	1	1
	Bullying	1.19 (0.95–1.49) *N* = 1959 *n* = 540	1.17 (0.94–1.46) *N* = 1959 *n* = 540	1.16 (0.93–1.44) *N* = 1958 *n* = 540	1.15 (0.93–1.43) *N* = 1821 *n* = 509	1.19 (0.95–1.48) *N* = 1955 *n* = 540
Men	**No Bullying**	1	1	1	1	1

	Bullying	1.23 (0.95–1.58) *N* = 967 *n* = 317	1.25 (0.97–1.62) *N* = 967 *n* = 317	1.23 (0.95–1.58) *N* = 966 *n* = 317	1.24 (0.97–1.59) *N* = 872 *n* = 292	1.28 (0.99–1.66) *N* = 966 *n* = 317
Women	**No Bullying**	1	1	1	1	1
	Bullying	1.00 (0.64–1.54) *N* = 992 *n* = 223	0.99 (0.65–1.51) *N* = 992 *n* = 223	1.03 (0.67–1.56) *N* = 992 *n* = 223	0.95 (0.63–1.45) *N* = 949 *n* = 217	0.99 (0.65–1.51) *N* = 989 *n* = 223
3. Do you get blamed for others' mistakes or general operational problems?						
All	**No Bullying**	1	1	1	1	1
	Bullying	1.05 (0.87–1.27) *N* = 1952 *n* = 539	0.99 (0.82–1.20) *N* = 1952 *n* = 539	0.99 (0.82–1.19) *N* = 1951 *n* = 539	0.92 (0.76–1.11) *N* = 1816 *n* = 508	1.00 (0.83–1.21) *N* = 1948 *n* = 539
Men	**No Bullying**	1	1	1	1	1
	Bullying	1.03 (0.83–1.27) *N* = 965 *n* = 317	1.03 (0.83–1.28) *N* = 965 *n* = 317	1.03 (0.83–1.27) *N* = 965 *n* = 317	0.99 (0.80–1.23) *N* = 871 *n* = 292	1.05 (0.85–1.31) *N* = 964 *n* = 317
Women	**No Bullying**	1	1	1	1	1
	Bullying	0.88 (0.60–1.29) *N* = 987 *n* = 222	0.90 (0.62–1.31) *N* = 987 *n* = 222	0.89 (0.61–1.29) *N* = 987 *n* = 222	0.73 (0.49–1.08) *N* = 945 *n* = 216	0.89 (0.62–1.28) *N* = 984 *n* = 222
4. Were important influential or working areas taken away from you?						
All	**No Bullying**	1	1	1	1	1
	Bullying	1.20 (0.88–1.65) *N* = 1953 *n* = 539	1.13 (0.83–1.54) *N* = 1953 *n* = 539	1.09 (0.79–1.49) *N* = 1952 *n* = 539	1.08 (0.79–1.47) *N* = 1816 *n* = 508	1.10 (0.80–1.53) *N* = 1949 *n* = 539

Men	**No Bullying**	1	1	1	1	1
	Bullying	1.20 (0.85–1.69) *N* = 965 *n* = 317	1.21 (0.85–1.71) *N* = 965 *n* = 317	1.17 (0.82–1.67) *N* = 964 *n* = 317	1.17 (0.84–1.65) *N* = 871 *n* = 292	1.24 (0.86–1.78) *N* = 964 *n* = 317
Women	**No Bullying**	1	1	1	1	1
	Bullying	1.01 (0.52–1.95) *N* = 988 *n* = 222	0.90 (0.47–1.74) *N* = 988 *n* = 222	0.88 (0.46–1.71) *N* = 988 *n* = 222	0.85 (0.43–1.68) *N* = 945 *n* = 216	0.81 (0.41–1.61) *N* = 985 *n* = 222
5. Did you receive unpleasant sexual offers or did you get sexually harassed?						
All	**No Bullying**	1	1	1	1	1
	Bullying	1.82 (0.97–3.39) *N* = 1955 *n* = 540	2.21 (1.23–3.98) *N* = 1955 *n* = 540	2.04 (1.13–3.65) *N* = 1954 *n* = 540	2.14 (1.40–3.26) *N* = 1818 *n* = 509	2.09 (1.18–3.69) *N* = 1951 *n* = 540
Men	**No Bullying**	1	1	1	1	1
	Bullying	2.03 (0.91–4.55) *N* = 967 *n* = 318	2.32 (1.07–5.03) *N* = 967 *n* = 318	2.04 (0.97–4.31) *N* = 966 *n* = 318	2.14 (1.49–3.07) *N* = 873 *n* = 293	2.15 (1.11–4.18) *N* = 966 *n* = 318
Women	**No Bullying**	1	1	1	1	1
	Bullying	1.92 (0.81–4.55) *N* = 988 *n* = 222	2.09 (0.91–4.77) *N* = 988 *n* = 222	2.02 (0.87–4.72) *N* = 988 *n* = 222	2.01 (0.98–4.14) *N* = 945 *n* = 216	2.22 (1.04–4.72) *N* = 985 *n* = 222

Abbreviations: CI confidence interval, HR hazard ratio, N number of participants, n number of events, t_0 Baseline

[a] unadjusted

[b] adjusted for (sex), age

[c] adjusted for (sex), age, socioeconomic status

[d] adjusted for (sex), age, socioeconomic status, smoking status, alcohol consumption, waist-to-height ratio, physical activity

[e] adjusted for (sex), age, socioeconomic status, depression, Type D personality, anxiety disorder