

UAW-GM Cohort Study

Suicide and fatal overdose after job loss (Cox analyses)

July 2, 2020

Tables and figures

Table 1: Summary of the UAW-GM Cohort restricted to men employed in or after 1970.

	Full cohort		Subset with complete work records ^b	
<i>N</i> (person-years)	26 804	(931 435)	17 553	(565 712)
Race, <i>n</i> (%)				
White	19 348	(72 %)	11 523	(66 %)
Black	5 250	(20 %)	3 844	(22 %)
Unknown	2 206	(8 %)	2 186	(12 %)
Plant^a, <i>n</i> (%)				
Plant 1	6 908	(26 %)	6 341	(36 %)
Plant 2	10 293	(38 %)	6 047	(34 %)
Plant 3	9 603	(36 %)	5 165	(29 %)
Complete work records	17 553	(65 %)	17 553	(100 %)
Year of hire	1967	(1956, 1975)	1963	(1952, 1969)
Age at hire	24	(20, 31)	26	(21, 34)
Year of birth	1942	(1927, 1950)	1933	(1922, 1946)
Year of worker exit	1991	(1981, 1995)	1984	(1977, 1991)
Age at worker exit	49	(40, 58)	53	(38, 61)
Age at death among deceased	69	(60, 79)	71	(61, 80)
Year of death among deceased	1999	(1989, 2008)	1997	(1988, 2006)
Suicide cases	202		171	
Fatal overdose cases	55		32	

Notes: Statistics shown are median (first quartile, third quartile), unless otherwise indicated.

^a Some subjects worked at several sites; plant indicates the site of longest work record time.

^b Left work by December 31, 1994 when employment records were truncated.

Table 2: Adjusted hazard ratio estimates for suicide by employment status in the full UAW-GM Cohort, using the recorded worker exit date and the reclassified worker exit date.

Job exit status	Recorded worker exit date			Reclassified worker exit date [‡]		
	<i>n</i>	HR	95% CI	<i>n</i>	HR	95% CI
At work	21	1.0	–	27	1.0	–
Not at work	150	16.1	9.8, 26.5	144	11.3	7.1, 17.8

Abbreviations: CI, confidence interval; HR, hazard ratio

Notes: Estimates were adjusted for race, plant, year of hire, and time-varying calendar year. Risk sets were indexed by age.

[‡] Cases that occurred within a week after the recorded worker exit date were assumed to have occurred while still employed.

Table 3: Adjusted hazard ratio estimates for suicide and the combined outcome of suicide and fatal overdose by age at worker exit in the subset of the UAW-GM Cohort with complete work records.

Age at worker exit	Suicide			Suicide and fatal overdose		
	<i>n</i>	HR	95% CI	<i>n</i>	HR	95% CI
55 or older	39	1.0	–	42	1.0	–
40 to 54	44	1.5	1.0, 2.3	47	1.5	1.0, 2.3
30 to 39	39	1.9	1.2, 3.0	51	2.4	1.6, 3.6
19 to 29	28	1.6	0.9, 2.6	40	2.2	1.3, 3.4

Abbreviations: CI, confidence interval; HR, hazard ratio

Notes: Estimates were adjusted for race, plant, and calendar year of worker exit. Risk sets were indexed by time since worker exit.

Figure 1: Directed acyclic graph representing the working causal assumptions.

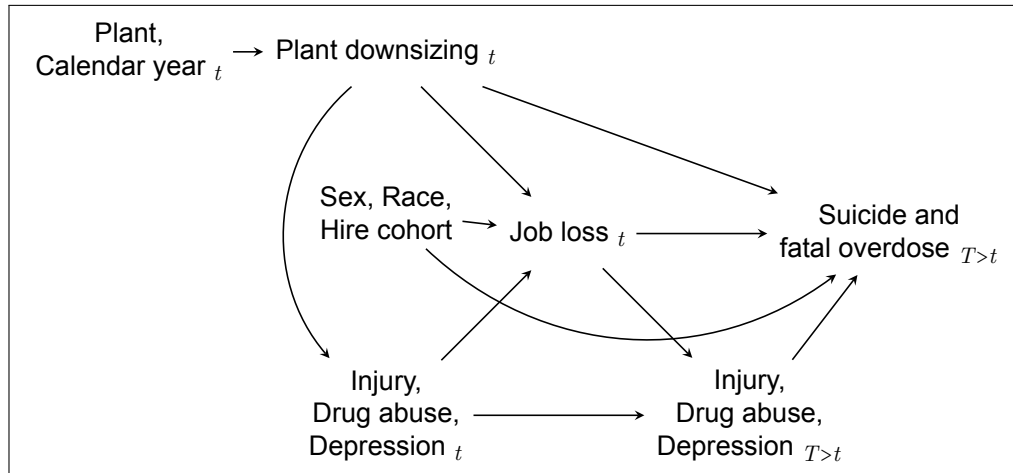


Figure 2: Crude rate (per 100,000 person-years) of suicide and the combined outcome of suicide and fatal overdose by calendar year in the full UAW-GM Cohort.

