

Supplementary Materials

Table S1. Characteristics of excluded WTC-exposed and non-WTC-exposed female firefighters actively employed on 9/11

	WTC-exposed	Non-WTC-exposed
Total N	28	585
Age on 9/11, mean ± SD	42.0±6.9	37.8±7.0
Race/ethnicity, N (%)		
White	20 (71.4)	362 (61.9)
Black	6 (21.4)	116 (19.8)
Hispanic	2 (7.1)	52 (8.9)
Other ^a	0	55 (9.4)
Smoking status, N (%)		
Current	1 (3.6)	14 (7.2) ^b
Former	12 (42.9)	56 (28.7) ^b
Never	15 (53.6)	125 (64.1) ^b
Alive at end of study period (12/31/2016), N (%)	25 (89.3)	572 (97.8)

^aIncludes Asian and Native American race categories; ^bN=195 who completed CFHS survey

Table S2. Poisson regression model assessing associations between WTC exposure level and all-cause mortality rate in male WTC-exposed and non-WTC-exposed firefighters (N=19,584)

Variable	Rate Ratio^{a,b}	95% Confidence Interval
WTC exposure/WTC site arrival time		
Morning of 9/11	0.69	0.59-0.81
Afternoon of 9/11	0.45	0.40-0.51
9/12/2001	0.48	0.40-0.57
9/13/2001 and later	0.71	0.61-0.82
Not exposed	ref	ref

^aAdjusted for age on 9/11 and race/ethnicity;

^bExcluding N=15 due to missing covariates

Table S3. Poisson regression model assessing associations between WTC exposure level and all-cause mortality rate within male WTC-exposed firefighters (N=10,723)

Variable	Rate Ratio^a	95% Confidence Interval
WTC exposure/WTC site arrival time		
Morning of 9/11	0.97	0.81-1.14
Afternoon of 9/11	0.70	0.61-0.82
9/12/2001	0.71	0.59-0.85
9/13/2001 and later	ref	ref

^aAdjusted for age on 9/11, race/ethnicity, and smoking status