

Supplementary Table 1. General characteristics of 4,144 male pesticide applicators excluded from analyses due to missing information on smoking and alcohol consumption at enrollment by stroke mortality outcome, Agricultural Health Study, 1993-2008.

	Cases ^b		Noncases ^c	
	(N = 82)	%	(N = 4062)	%
Site				
NC	71	86.6	2746	67.6
Iowa	11	13.4	1316	32.4
Smoking status ^d				
Never	19	46.3	928	42.2
Past	14	34.1	817	37.2
Current	8	19.5	454	20.6
Age (years)				
<50	5	6.1	1885	46.4
50-59	6	7.3	952	23.4
60-69	33	40.2	816	20.1
70+	38	46.3	409	10.1
Race/Ethnicity				
White, non-Hispanic	51	78.5	2667	88.1
Other	14	21.5	362	12
Education				
High school or less	46	83.6	2097	83.6
Beyond high school	9	16.4	676	16.4
BMI (kg/m ²)				
<25	14	30.4	695	26.3
25-29.9	19	41.3	1320	49.9
≥30	13	28.3	630	23.8
Drinks per month at enrollment ^e				
None	5	71.4	127	45.7
1-4 drinks	1	14.3	55	19.8
5-30 drinks	1	14.3	59	21.2
>30	0	0	37	13.3
Heart disease				
No	12	75.0	775	92.5
Yes	4	25.0	63	7.5
Diabetes				
No	15	93.8	794	95.9
Yes	1	6.3	34	4.1
Hypertension ^f				
No	12	44.4	1028	77.4
Yes	15	55.6	301	22.6

^a Data not available for all participants due to missing values in some categories.

^b Cases are defined as deaths with an underlying or contributing cause attributed to stroke on state death certificates by using *International Classification of Diseases*, Tenth Revision, codes I60-I69.

^c Non-cases are participants who did not experience a stroke-related death during study follow-up.

^d Individuals reporting information regarding smoking but not alcohol intake.

^e Individuals reporting information regarding alcohol intake but not smoking.

^f The hypertension question asked on the take-home questionnaire was answered by 23,170 participants (161 stroke deaths).

Supplementary Table 2. Associations of pesticide use and stroke mortality among 51,603 male pesticide applicators, Agricultural Health Study, 1993-2008.^a

	Cases ^b		Non-cases ^c		Hazard Ratio ^d	95% Confidence Interval	
	(N = 308)	%	(N = 51,295)	%		Interval	
Insecticides ^e	286	93	47299	92	1.02	0.66	1.57
Carbamates	233	77	33245	65	0.94	0.71	1.25
Aldicarb	44	17	5791	12	1.09	0.77	1.53
Carbaryl	200	71	27167	55	0.96	0.72	1.26
Carbofuran	84	30	12941	27	1.05	0.81	1.35
Organochlorines	210	72	25322	51	0.91	0.69	1.18
Aldrin	79	30	8946	19	1.03	0.78	1.35
Chlordane	115	43	12036	25	1.01	0.79	1.30
Dieldrin	30	12	3189	7	0.90	0.61	1.33
DDT	154	56	11817	24	0.92	0.72	1.19
Heptachlor	57	22	7301	15	0.96	0.70	1.32
Lindane	44	17	8799	18	0.90	0.65	1.25
Toxaphene	70	27	6809	14	0.98	0.74	1.30
Organophosphates ^e	263	85	44964	88	1.03	0.74	1.41
Chlorpyrifos	91	30	21225	42	0.85	0.66	1.08
Coumaphos	17	6	3876	8	0.74	0.45	1.21
Diazinon	94	35	15330	32	0.89	0.69	1.16
Dichlorvos	21	8	4761	10	1.11	0.70	1.74
Fonofos	45	16	10276	21	1.18	0.84	1.68
Malathion	206	73	34127	69	0.99	0.76	1.29
Parathion	71	27	7358	15	1.07	0.80	1.42
Phorate	75	28	15669	32	1.02	0.76	1.35
Terbufos	78	28	18459	38	0.98	0.75	1.29
Pyrethroids							
Permethrin (animals)	16	6	5977	12	1.06	0.64	1.77
Permethrin (crops)	22	8	7087	15	0.74	0.48	1.14
Herbicides	295	96	49390	96	0.95	0.54	1.66
Phenoxys	237	77	39673	77	1.13	0.86	1.49
2,4-D	222	74	38543	76	1.04	0.80	1.36
2,4,5-T	90	35	10184	21	1.06	0.82	1.38
2,4,5-TP	32	13	4541	9	0.97	0.67	1.41
Triazines	206	67	39404	77	0.93	0.72	1.19
Atrazine	193	64	35716	70	1.03	0.81	1.32
Cyanazine	78	28	20584	42	0.90	0.67	1.20
Metribuzin	70	27	22111	46	0.69	0.52	0.93
Alachlor	136	48	26091	53	0.94	0.74	1.19
Butylate	58	22	15606	32	0.80	0.60	1.08
Chlorimuron-ethyl	53	20	18675	39	0.74	0.54	1.00
Dicamba	89	33	24932	51	0.90	0.68	1.21

	Cases ^b		Non-cases ^c		Hazard Ratio ^d	95% Confidence Interval	
	(N = 308)	%	(N = 51,295)	%			
EPTC	32	12	10155	21	0.92	0.63	1.36
Glyphosate	235	78	38820	76	1.09	0.83	1.43
Imazethapyr	55	20	21167	44	0.81	0.57	1.14
Metolachlor	97	35	23060	47	0.95	0.74	1.23
Paraquat	91	34	12069	25	1.16	0.88	1.51
Pendimethalin	93	35	22539	46	0.86	0.66	1.11
Petroleum oil	100	38	22669	47	0.93	0.72	1.20
Trifluralin	111	40	25875	53	0.80	0.62	1.03
Fumigants	111	36	11916	23	1.08	0.85	1.39
Carbon tetrachloride/carbon disulfide	31	12	2687	6	1.15	0.79	1.68
Aluminum phosphide	7	3	2820	6	0.71	0.34	1.52
Ethylene dibromide	15	6	1780	4	1.00	0.59	1.69
Methyl bromide	87	29	7488	15	1.21	0.92	1.60
Fungicides ^f	148	48	18445	36	1.06	0.83	1.36
Benomyl	52	19	5123	11	1.08	0.78	1.49
Captan	26	9	5024	10	0.96	0.64	1.45
Chlorothalonil	37	12	4250	8	1.04	0.73	1.48
Maneb/Mancozeb	41	15	4689	10	0.85	0.60	1.21
Metalaxyl	90	32	11281	23	1.06	0.80	1.40

^a Data not available for all participants due to missing values in some categories.

^b Cases are defined as deaths with an underlying or contributing cause attributed to stroke on state death certificates by using *International Classification of Diseases*, Tenth Revision, codes I60-I69.

^c Non-cases are participants who did not experience a stroke-related death during study follow-up.

^d Results were obtained from Cox proportional hazards regression adjusted for state, smoking status, and alcohol intake. The referent group for the pesticide class hazard ratio is made up of those with no exposure to that class, and the referent for individual pesticide hazard ratios is made up of those with no exposure to each individual pesticide.

^eIncludes ever use of trichlorfon

^fIncludes ever use of ziram