Case-Control Study of Arsenic in Drinking Water and Lung Cancer in California and Nevada

Table 1. Smoking and drinking water characteristics for 30 subjects with \geq 85 ug/L arsenic in drinking water at least 40 years before enrollment, western Nevada and central California, 2002–2005.

Lung cancer	Smoked	Packs/ week*	CA	Public water ≥ 85 μg/L	Arsenic in drinking water						
					Highest 5-year mean (μg/L)			Cumulative			
					≥40 years before	>5 years before	<40** years before	(μg/L-years) >5 years before	Years since ≥ 85 μg/L**	Years since > 10 μg/L**	
											1
1	1	21	1	1	110	110	106	1,592	29	0	
1	1	20	1	1	110	110	83	1,337	27	0	
1	1	18	1	1	110	110	110	1,572	27	0	
1	1	14	1	1	110	110	106	1,449	29	0	
1	1	11	1	1	99	110	110	563	34	9	
1	1	7	1	1	110	110	3	896	44	42	
1	1	7	1	1	110	110	88	1,287	35	14	
1	1	7	1	1	110	110	110	1,947	28	2	
1	1	4	1	1	110	110	8	1,027	58	58	
1	1	2	1	1	110	110	110	988	29	0	
1	1	7	0	0	1,460	1,460	1,460	27,314	0	0	
0	1	14	1	1	110	110	3	470	53	52	
0	1	11	1	1	110	110	102	1,135	30	0	
0	1	7	1	1	110	110	102	1,734	30	0	
0	1	4	1	1	110	110	102	1,284	34	0	
0	1	3	1	1	110	110	110	1,596	28	0	
0	1	14	0	1	90	90	4	349	65	65	
0	1	7	0	0	150	200	20	490	40	0	
0	0	0	1	1	88	110	102	971	30	0	
0	0	0	1	1	110	110	102	1,518	30	10	

Table 1. Cont.

Lung cancer	Smoked	Packs/ week*	CA	Public water ≥ _ 85 μg/L	Arsenic in drinking water						
					Highest 5-year mean (μg/L)			Cumulative			
					≥40 years before	>5 years before	<40** years before	(μg/L-years) >5 years before	Years since≥ 85 μg/L**	Years since > 10 μg/L**	
0	0	0	1	1	110	110	30	332	54	0	
0	0	0	1	1	110	110	39	875	78	0	
0	0	0	1	1	110	110	36	460	41	0	
0	0	0	1	1	110	110	3	482	42	42	
0	0	0	1	1	110	110	66	1,206	37	14	
0	0	0	1	1	110	110	110	1,229	27	10	
0	0	0	0	1	90	90	4	508	54	54	
0	0	0	0	1	90	96	96	748	10	0	
0	0	0	0	0	690	690	25	3,719	64	0	
Percent or .	Average										
Cases	100%	11.5	92%	92%	222	223	200	3,477	31	10	
Controls	39%	3.3	72%	89%	140	144	59	1,061	42	14	
p-Value (2-tailed)	0.0001	0.002	0.17	0.81	0.50	0.52	0.25	0.29	0.06	0.67	

CA California, 1 yes, 0 no. *Average packs of 20 cigarettes (or equivalent for cigars and pipes) usually smoked during period of regular smoking, if ever smoked >6 months. ** Exposures lasting <5 years before enrollment were not counted.

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