

The Shift in Seasonality of Legionellosis in the U.S.

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Supplementary Material

Table S1. Age distribution of reported cases to the CDC from 1993 to 2015.

Table S2. Summary of trend and peak timing estimates for reported legionellosis cases by the CDC during 1993 – 2015 (December cases removed).

Table S1. Age distribution of reported cases to the CDC from 1993 to 2013.

Year		Age group (years)								Summary		
		<1	1-4	5-14	15-24	25-39	40-64	65+	age not stated	Total	% 65+	
<i>period 1</i>	1993	4	5	7	29	171	1014*	50	1280	NA		
	1994	6	5	7	47	209	1303*	38	1615	NA		
	1995	4*		10	30	652*	518	27	1241	41.7		
	1996	4	3	5	32	142	484	516	12	1198	43.1	
	1997	4	1	5	24	144	517	454	14	1163	39.0	
	<i>period 1a</i>	1998	4	2	4	17	136	609	569	14	1355	42.0
		1999	3	1	5	25	120	503	440	11	1108	39.7
		2000	6	1	4	22	115	543	429	7	1127	38.1
		2001	3	2	8	7	128	590	421	9	1168	36.0
		2002	4	-	5	28	128	673	476	7	1321	36.0
<i>period 2</i>	<i>period 2a</i>	2003	2	-	5	29	191	1187	796	22	2232	35.7
		2004	6	1	8	27	194	1044	728	85	2093	34.8
		2005	3	2	13	25	180	1177	884	17	2301	38.4
		2006	4	3	4	29	209	1466	1111	8	2834	39.2
	2007	7	3	4	25	203	1386	1082	6	2716	39.8	
	2008	3	2	9	40	220	1649	1241	17	3181	39.0	
	2009	2	4	4	34	242	1825	1386	25	3522	39.4	
	2010	6	4	7	38	240	1699	1296	56	3346	38.7	
	2011	2	5	13	41	257	2107	1646	131	4202	39.2	
	2012	1	1	6	38	248	1863	1442	89	3688	39.1	
2013	4	9	5	39	287	2413	1844	353	4954	37.2		
2014	1	0	2	37	335	2374	2185	232	5166	42.3		
2015	3	5	4	57	404	2844	2559	203	6079	42.1		

* Age categories in 1993 to 1995 differed from the other years. In 1993 and 1994, the age categories for individuals above 39 were the following: 40-49, 50-59 and 60+. These correspond to values 180, 188, and 646 in 1993 and 259, 276, and 768 in 1994. In 1995, age category under 5 was listed with a value of 4 and categories 25-44 and 45-64 were listed with values of 255 and 397 respectively.

- These values were not defined the original CDC reports and were assumed as 0 since the corresponding rates of (0) were provided in parentheses.

NA: Not applicable

Table S2. Summary of trend and peak timing estimates for reported legionellosis cases by the CDC during 1993 – 2015 (December cases removed).

Term	<i>Estimate (95%CI)</i>	
	<i>period 1</i>	<i>period 2</i>
Trend as % change in disease counts per month	0.243 (0.206, 0.281)	0.851 (0.831, 0.870)
Peak timing in months	8.982 (8.796, 9.169)	8.205 (8.163, 8.247)
Peak timing	Aug 30 (Aug 25, Sep 5) CI-Low: 0.186 (5.59d) CI-High: 0.186 (5.59d)	Aug 6 (Aug 5, Aug 8) CI-Low: 0.042 (1.30d) CI-High: 0.042 (1.30d)