



Local summary of Legionnaires' disease in residents of England and Wales, 2013

Avon, Gloucestershire and Wiltshire

This report provides a short summary of Legionella activity in residents of Avon, Gloucestershire and Wiltshire, with particular emphasis on cases with onset of symptoms during 2013. Data for years 2011 and 2012 and in some tables and graphs, for years 2004 to 2012, are presented for comparative purposes.

For a wider analysis of Legionella activity across England and Wales, please refer to the annual report, Legionnaires' disease in England and Wales; 2013, available on the Public Health England website at; <https://www.gov.uk/government/statistics/legionnaires-disease-in-england-and-wales-2013>

Figure 1: Cases of legionellosis (confirmed and presumptive) in residents of Avon, Gloucestershire and Wiltshire by year of onset of symptoms; 2004 – 2013

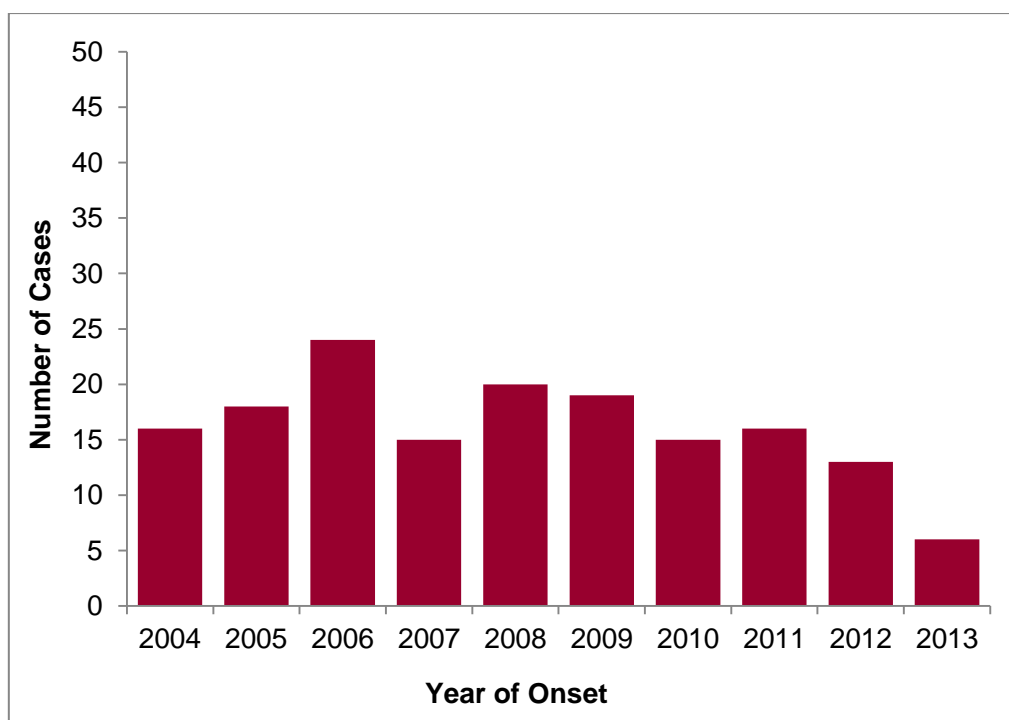


Table 1: Cases of legionellosis (confirmed and presumptive) in residents of Avon, Gloucestershire and Wiltshire by disease type and year of onset; 2011 – 2013

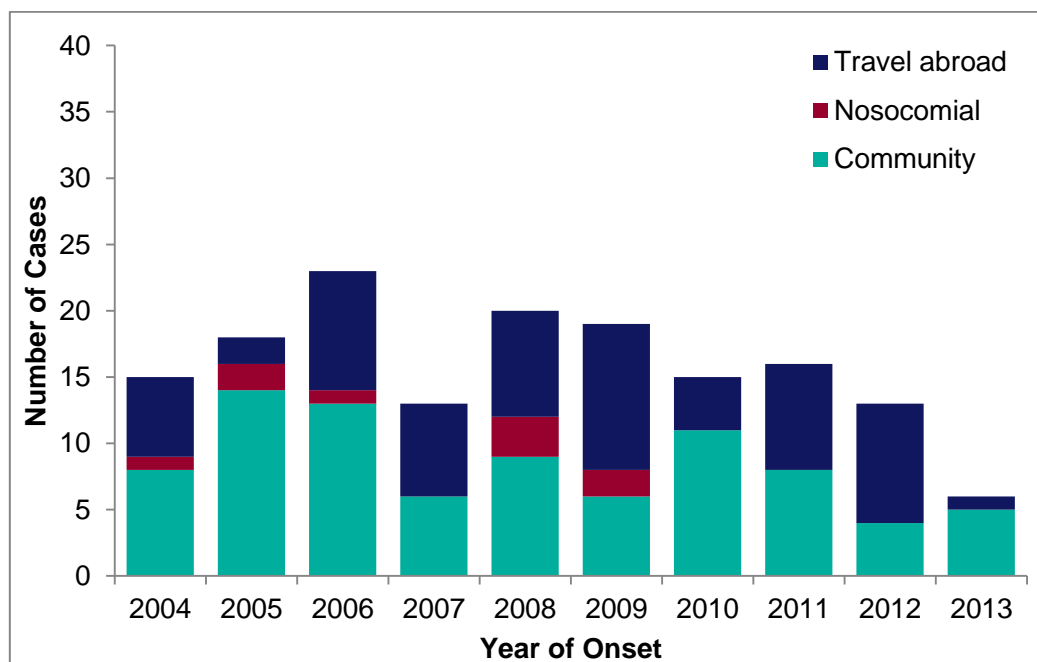
	Number of confirmed (presumptive*) cases			
	2011	2012	2013	Total (2011 - 2013)
Legionnaires' disease	16	13	6	35
Non-pneumonic Legionellosis	-	-	-	0
Pontiac fever	-	-	-	0
Total	16	13	6	35

* Presumptive cases with only a single high titre or PCR result

Table 2: Number and population rate per million of confirmed cases of Legionnaires' disease in residents of Avon, Gloucestershire and Wiltshire by year of onset; 2011 – 2013

Region	2011		2012		2013		Total (2011 - 2013)	
	n	Rate	n	Rate	n	Rate	n	Rate
Avon, Gloucestershire and Wiltshire	16	6.80	13	5.53	6	2.55	35	4.96
National	235	4.18	306	5.45	284	5.06	825	4.90

Figure 2: Confirmed Legionnaires' disease cases^o in residents of Avon, Gloucestershire and Wiltshire by year of onset and category; 2004 – 2013



^{oo} Confirmed LD case: diagnosis by culture, urinary antigen or FFR and evidence of pneumonia

Table 3: Number and proportion of confirmed Legionnaires' disease cases in residents of Avon, Gloucestershire and Wiltshire by likely exposure category; 2011 – 2013

Category	2011	2012	2013	Total	National Total (2011 - 2013)
Community [‡]	8 (50.0)	4 (30.8)	5 (83.3)	17 (48.6)	466 (56.5)
Nosocomial	-	-	-	0 (0.0)	28 (3.4)
Travel abroad	8 (50.0)	9 (69.2)	1 (16.7)	18 (51.4)	331 (40.1)
Total	16	13	6	35	825

[‡] includes travel UK cases

Table 4: Number and proportion of confirmed Legionnaires' disease cases in residents of Avon, Gloucestershire and Wiltshire by age group and gender, with age specific case-fatality rates; 2011 – 2013

Age Groups	Number (%) of cases			No. Deaths	Age Specific CFR (95%CI)
	Female	Male	Total (2011-2013)		
Under 50 years	-	4 (100.0)	4 (11.4)	0	0.0 (0.0 - 60.2 [‡])
50-59 years	1 (11.1)	8 (88.9)	9 (88.9)	0	0.0 (0.0 - 33.6 [‡])
60-69 years	3 (37.5)	5 (62.5)	8 (22.9)	1	12.5 (0.3 - 52.7)
70 years & over	4 (28.6)	10 (71.4)	14 (40.0)	1	7.1 (0.2 - 33.9)
Total	8 (22.9)	27 (77.1)	35 (100.0)	2	5.7 (0.7 - 19.2)

[‡] one sided confidence interval

Figure 3: Confirmed Legionnaires' disease cases in residents of Avon, Gloucestershire and Wiltshire by month and year of onset; 2011 – 2013

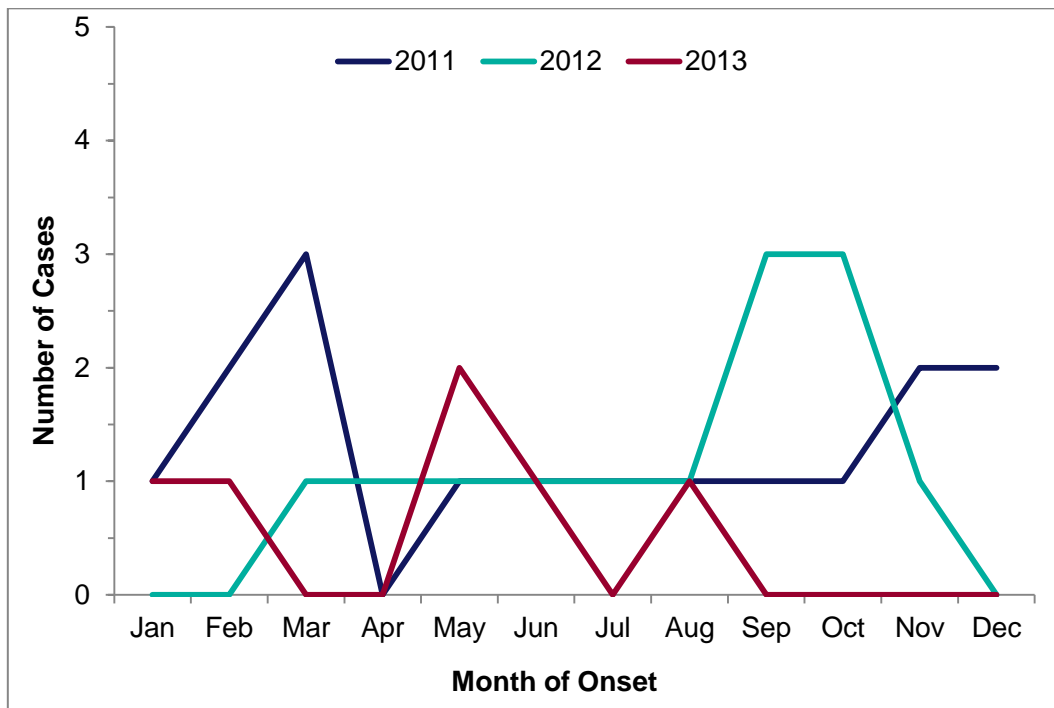


Table 5: Legionnaires' disease cases in residents of Avon, Gloucestershire and Wiltshire by diagnostic test and year of onset; 2011 - 2013~

	2011	2012	2013	Total (2011 - 2013)	National Total (2011 - 2013)
Case Numbers[†]	16	13	6	35	825
Culture	4 (25.0)	3 (23.1)	-	7 (20.0)	190 (23.0)
Urine	15 (93.8)	13 (100)	6 (100.0)	34 (97.1)	810 (98.2)
Serology (SHT)	-	-	-	0	5 (0.6)
Serology (FFR)	-	-	-	0	1 (0.1)
PCR	1 (6.3)	2 (15.4)	1 (16.7)	4 (11.4)	198 (24.0)

~ This table shows the investigations carried out on each confirmed case

[†] Please note that some cases have more than one diagnostic test carried out, therefore the sum of diagnostic tests does not equal the annual 'case number'.

Table 6: Confirmed Legionnaires' disease cases in residents of Avon, Gloucestershire and Wiltshire by Local Authority (Upper-Tier) and year of onset; 2011 – 2013

Local Authority	2011	2012	2013	Total (2011-2013)
Bath and North East Somerset	1	2	-	3
Bristol	3	2	-	5
Cotswold	-	1	-	1
Forest of Dean	1	1	-	2
Gloucester	-	1	-	1
North Somerset	2	2	-	4
South Gloucestershire	-	1	2	3
Swindon	3	2	1	6
Tewkesbury	1	-	1	2
Wiltshire UA	5	1	2	8
Total	16	13	6	35

Table 7: Number and type of outbreaks/clusters with associated number of Avon, Gloucestershire and Wiltshire cases of Legionnaires' disease; 2011 – 2013

Category	2011		2012		2013		Total (2011 - 2013)	
	OB	Cases	OB	Cases	OB	Cases	OB	Cases
Community	-	-	-	-	-	-	0	0
Nosocomial	-	-	-	-	-	-	0	0
Travel UK	1	2(1 [†])	-	-	-	-	1	2(1 [†])
Total	1	2(1[†])	0	0	0	0	1	2(1[†])

[†] outbreak spanning across two or more years between 2011 - 2013; therefore only counted once

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