



Local summary of Legionnaires' disease in residents of England and Wales, 2010 – 2012

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 2012. Data for years 2010 and 2011, and in some tables and graphs, for years 2003 to 2011, are presented for comparative purposes.

For a wider analysis of Legionella activity across England and Wales, please refer to the Legionnaires' disease annual report – 2012, available on the Public Health England website.

Figure 1: Cases of legionellosis (confirmed and presumptive) in residents of Avon, Gloucestershire and Wiltshire by year of onset of symptoms; 2003 – 2012

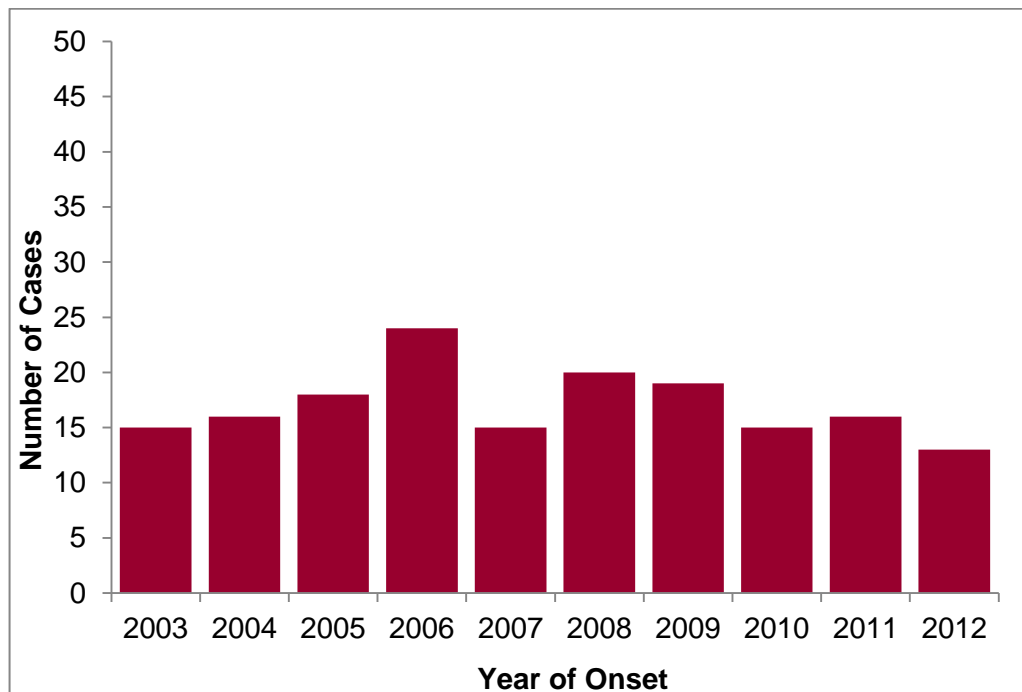


Table 1: Cases of legionellosis (confirmed and presumptive) in residents of Avon, Gloucestershire and Wiltshire by disease type and year of onset; 2010 – 2012

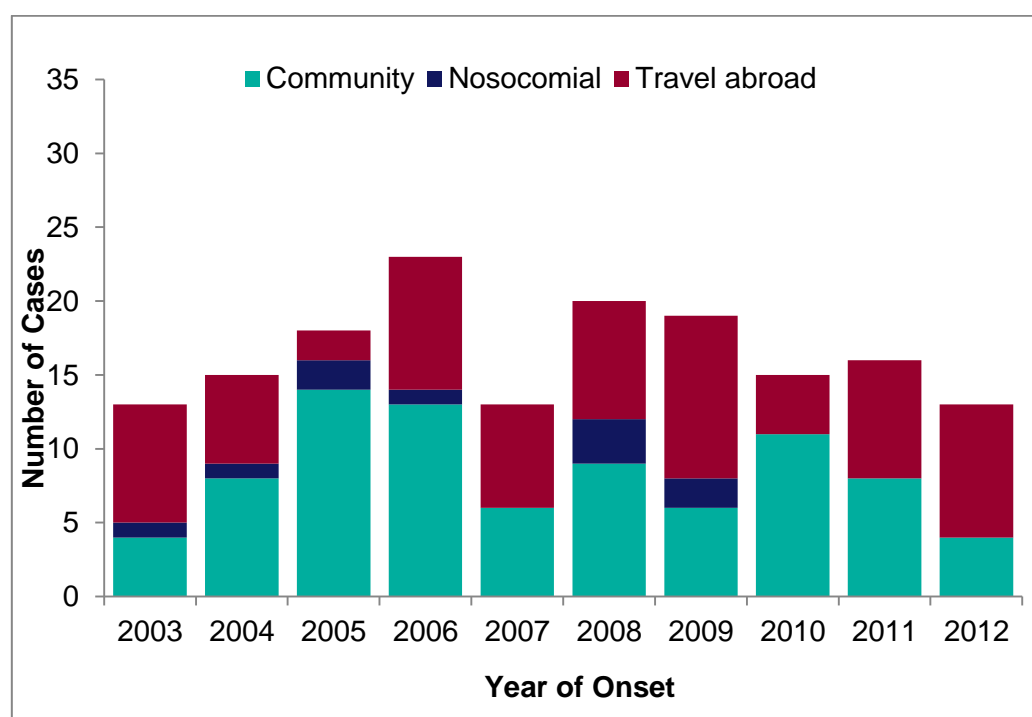
	Number of confirmed (presumptive*) cases			
	2010	2011	2012	Total (2010-2012)
Legionnaires' disease	15	16	13	44
Non-pneumonic Legionellosis	-	-	-	0
Pontiac fever	-	-	-	0
Total	15	16	13	44

* 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; 2010 – 2012

Region	2010		2011		2012		Total (2010-2012)	
	n	Rate	n	Rate	n	Rate	n	Rate
Avon, Gloucestershire & Wiltshire	15	6.38	16	6.80	13	5.53	44	6.23
National	357	6.36	235	4.18	306	5.45	898	5.33

Figure 2: Confirmed Legionnaires' disease cases° in residents of Avon, Gloucestershire and Wiltshire by year of onset and category; 2003-2012



°° 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; 2010 – 2012

Category	2010	2011	2012	Total	National Total (2010-2012)
Community [†]	11 (73.3)	8 (50.0)	4 (30.8)	23 (52.3)	497 (55.4)
Nosocomial	-	-	-	0	44 (4.9)
Travel abroad	4 (26.7)	8 (50.0)	9 (69.2)	21 (47.7)	357 (39.8)
Total	15	16	13	44	898

[†] 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; 2010 – 2012

Age Groups	Number (%) of cases			No. Deaths	Age Specific CFR (95%CI)
	Female	Male	Total (2010-2012)		
Under 50 years	-	3 (100.0)	3 (6.8)	0	0 (0.0 - 70.8 [‡])
50-59 years	2 (15.4)	11 (84.6)	13 (29.6)	0	0 (0.0 - 24.7 [‡])
60-69 years	5 (41.7)	7 (58.3)	12 (27.3)	1	8.3 (0.2 - 38.5)
70 years & over	4 (25.0)	12 (75.0)	16 (36.4)	2	12.5 (1.6 - 38.3)
Total	11 (25.0)	33 (75.0)	44 (100.0)	3	6.8 (1.4 - 18.7)

[‡] one sided confidence interval

Figure 3: Confirmed Legionnaires' disease cases in residents of Avon, Gloucestershire and Wiltshire by month and year of onset; 2010 – 2012

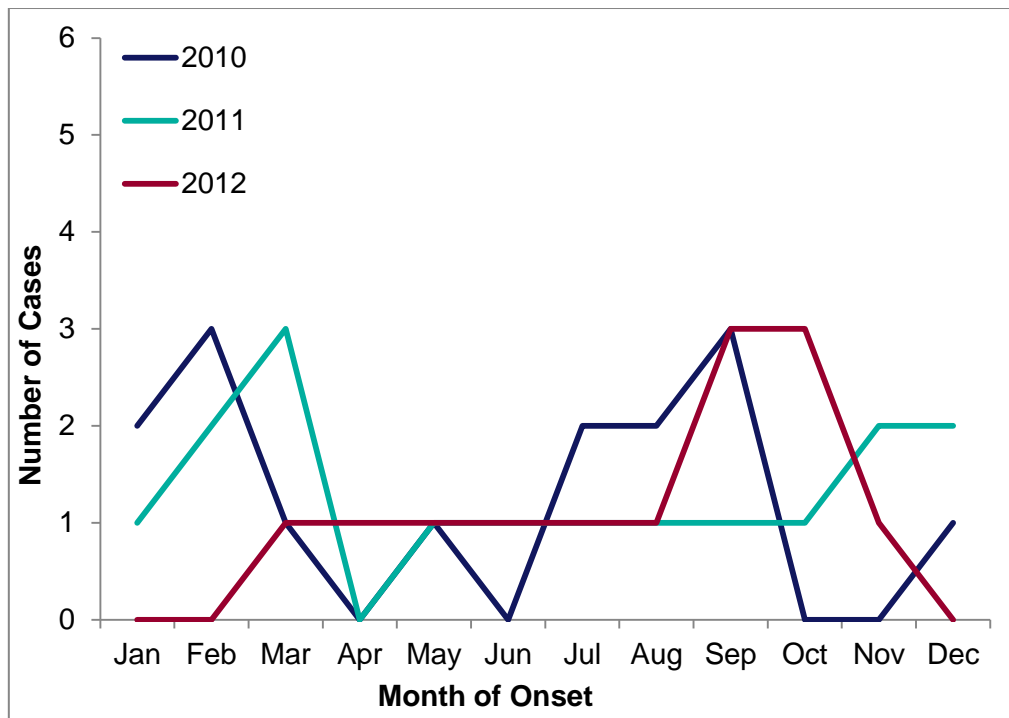


Table 5: Legionnaires' disease cases in residents of Avon, Gloucestershire and Wiltshire by diagnostic test and year of onset; 2010 - 2012~

	2010	2011	2012	Total (2010-2012)	National Total (2010-2012)
Case Numbers[†]	15	16	13	44	898
Culture	2	4	3	9	180 (20.0)
Urine	15	15	13	43	881 (98.0)
Serology (SHT)	-	-	-	-	13 (1.5)
Serology (FFR)	-	-	-	-	3 (0.3)
PCR	-	1	2	3	145 (16.2)

~ 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; 2010 – 2012

Local Authority	2010	2011	2012	Total (2010-2012)
Bath and North East Somerset	-	1	2	3
Bristol	3	3	2	8
Cheltenham	1	-	-	1
Cotswold	-	-	1	1
Forest of Dean	1	1	1	3
Gloucester	-	-	1	1
North Somerset	2	2	2	6
South Gloucestershire	2	-	1	3
Stroud	1	-	-	1
Swindon	-	3	2	5
Tewkesbury	-	1	-	1
Wiltshire UA	5	5	1	11
Total	15	16	13	44

Table 7: Number and type of outbreaks/clusters with associated number of Avon, Gloucestershire and Wiltshire cases of Legionnaires' disease; 2010 – 2012

Outbreak/Clusters
No outbreaks or clusters were identified with association Avon, Gloucestershire and Wiltshire.

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