



Local Summary of Legionnaires' disease in Residents of England and Wales, 2014

West Midlands

This report provides a short summary of Legionella activity in residents of West Midlands, with particular emphasis on cases with onset of symptoms during 2014. Data for years 2012 and 2013 and in some tables and graphs, for years 2005 to 2013, are presented for comparative purposes.

For wider analysis of Legionella activity across England and Wales along with case definitions and a detailed methodology, please refer to the annual report, Legionnaires' disease in England and Wales; 2014, available on the Public Health England website at; <https://www.gov.uk/government/statistics/legionnaires-disease-in-england-and-wales-2014>

Figure 1: Number of cases of legionellosis (confirmed and presumptive) in residents of West Midlands by year of onset of symptoms; 2005 – 2014

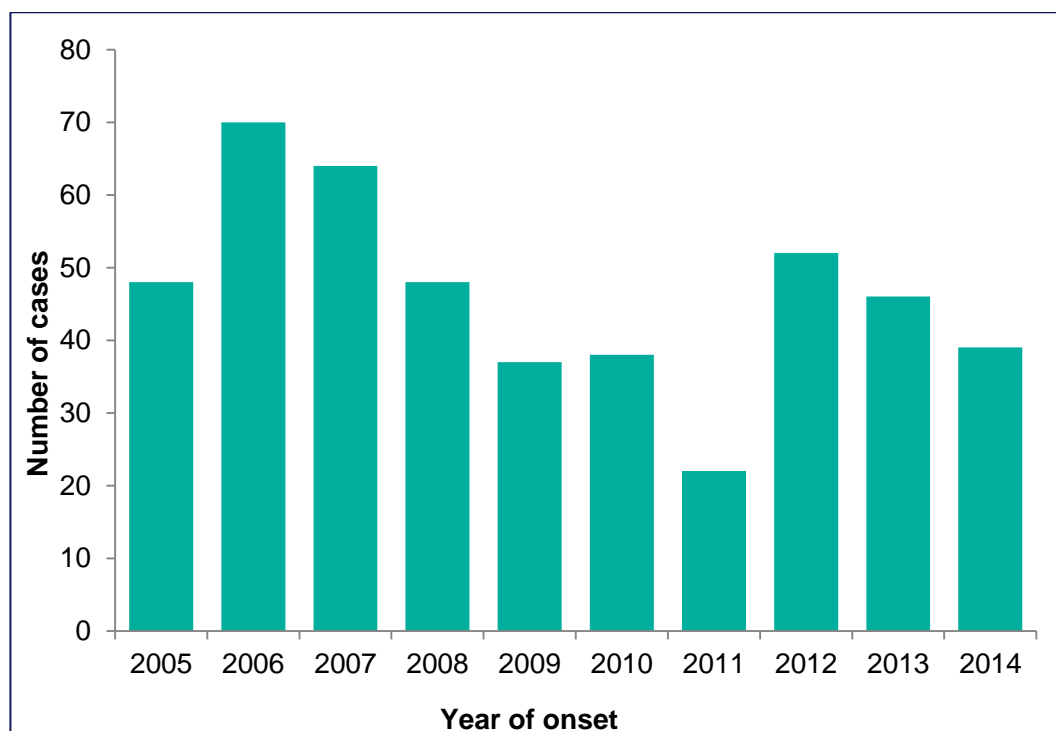


Table 1: Number of cases of legionellosis (confirmed and presumptive) in residents of West Midlands by disease type and year of onset; 2012 – 2014

	Number of confirmed (presumptive*) cases			
	2012	2013	2014	Total (2012 - 2014)
Legionnaires' disease	51	44	38(1)	134
Non-pneumonic Legionellosis	1	2	-	3
Pontiac fever	-	-	-	0
Total	52	46	39	137

* 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 West Midlands by year of onset; 2012 – 2014

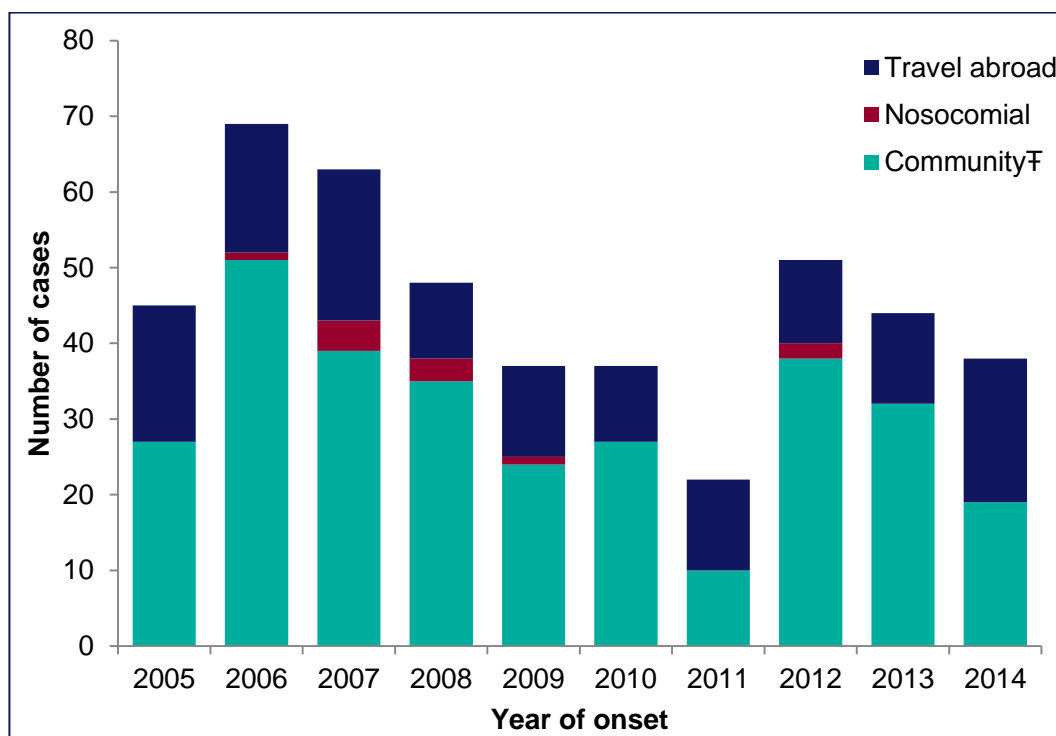
Region	2012		2013		2014		Total (2012 - 2014)	
	n	Rate	n	Rate	n	Rate	n	Rate
West Midlands	51	8.99	44	7.75	38	6.70	133	7.81
National	306	5.40	285	5.03	331	5.84	922	5.42

Table 3: Number and proportion of confirmed Legionnaires' disease cases in residents of West Midlands by likely exposure category; 2012 – 2014

Category	2012	2013	2014	Total	National Total (2012 - 2014)
Community[‡]	38 (74.5)	32 (72.7)	19 (50.0)	89 (66.9)	546 (59.2)
Nosocomial	2 (3.9)	-	-	2 (1.5)	22 (2.4)
Travel abroad	11 (21.6)	12 (27.3)	19 (50.0)	42 (31.6)	354 (38.4)
Total	51	44	38	133	922

[‡] includes travel UK cases

Figure 2: Number of confirmed Legionnaires' disease cases[°] in residents of West Midlands by year of onset and category; 2005 – 2014



‡ includes travel UK cases

[°]confirmed LD case: diagnosis by culture, urinary antigen or serology with a four-fold rise (FFR) and evidence of pneumonia

Table 4: Number and proportion of confirmed Legionnaires' disease cases in residents of West Midlands by age group and gender, with age specific case-fatality rates; 2012 – 2014

Age Groups	Number (%) of cases			No. Deaths	Age Specific CFR (95%CI)
	Female	Male	Total (2012-2014)		
Under 50 years	5 (22.7)	17 (77.3)	22 (16.5)	-	0.0 (0.0 - 15.4 [‡])
50-59 years	6 (21.4)	22 (78.6)	28 (21.1)	1	3.6 (0.09 - 18.3)
60-69 years	10 (25.6)	29 (74.4)	39 (29.3)	1	2.6 (0.06 - 13.5)
70 years & over	9 (20.5)	35 (79.5)	44 (33.1)	6	13.6 (5.2 - 27.4)
Total	30 (22.6)	103 (77.4)	133 (100.0)	8	6.0 (2.6 - 11.5)

[‡] one-sided, 97.5% confidence interval

Figure 3: Number of confirmed Legionnaires' disease cases in residents of West Midlands by month and year of onset; 2012 – 2014

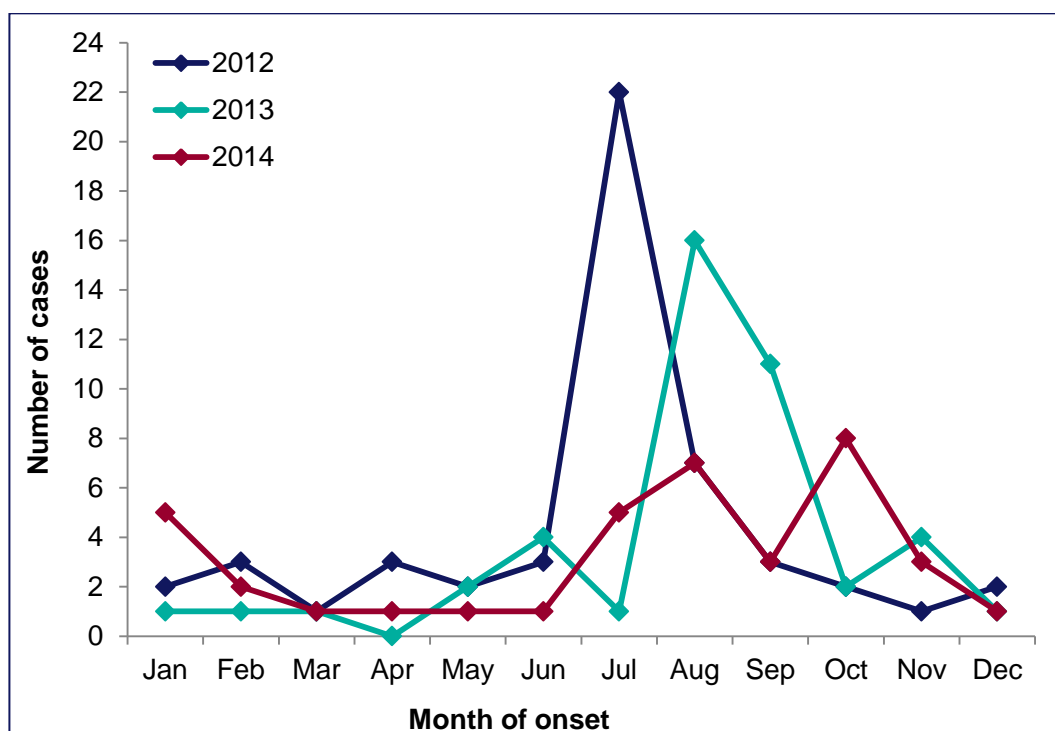


Table 5: Legionnaires' disease cases in residents of West Midlands by diagnostic test and year of onset; 2012 - 2014~

	2012	2013	2014	Total (2012 - 2014)	National Total (2012 - 2014)
Case Numbers[†]	51	44	38	133	922
Culture	10 (19.6)	10 (22.7)	2 (5.3)	22 (16.5)	211 (22.9)
Urine	51 (100.0)	44 (100.0)	37 (97.4)	132 (99.3)	905 (98.2)
Serology (SHT)	-	-	-	-	0
Serology (FFR)	-	-	-	-	0
PCR	12 (23.5)	16 (36.7)	5 (13.2)	33 (24.8)	246 (26.7)

~ 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: Number of confirmed Legionnaires' disease cases in residents of West Midlands by Local Authority (Upper-Tier) and year of onset; 2012 – 2014

Local Authority	2012	2013	2014	Total (2012 - 2014)
Birmingham	8	12	6	26
Bromsgrove	-	1	-	1
Cannock Chase	-	1	-	1
Coventry	2	3	1	6
Dudley	4	1	3	8
East Staffordshire	1	-	1	2
Hereford	-	1	4	5
Lichfield	1	2	-	3
Malvern Hills	1	-	1	2
Newcastle under Lyme	5	3	-	8
North Warwickshire	1	2	-	3
Nuneaton and Bedworth	-	1	3	4
Redditch	-	-	1	1
Rugby	-	1	-	1
Sandwell	2	4	2	8
Shropshire UA	-	1	-	1
Solihull	-	3	2	5
South Staffordshire	-	1	-	1
Stafford	2	2	-	4
Staffordshire Moorlands	3	-	2	5
Stoke on Trent	14	1	5	20
Stratford on Avon	1	1	1	3
Tamworth	-	1	-	1
Telford and Wrekin	-	1	-	1
Walsall	1	-	2	3
Warwick		1	1	2
Wolverhampton	1	-	1	2
Worcester	2	-	-	2
Wychavon	2	-	1	3
Wyre Forest	-	-	1	1
Total	51	44	38	133

Table 7: Number and type of outbreaks/clusters with associated number of West Midlands cases of Legionnaires' disease; 2012 – 2014

	2012		2013		2014		Total (2012 - 2014)	
	OB	Cases	OB	Cases	OB	Cases	OB	Cases
Community	1	23	-	-	-	-	1	23
Nosocomial	-	-	-	-	-	-	0	0
Travel UK	-	-	-	-	-	-	0	0
Total	1	23	0	0	0	0	1	23

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