



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

South Midlands and Hertfordshire

This report provides a short summary of Legionella activity in residents of South Midlands and Hertfordshire, 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 South Midlands and Hertfordshire by year of onset of symptoms; 2003 – 2012

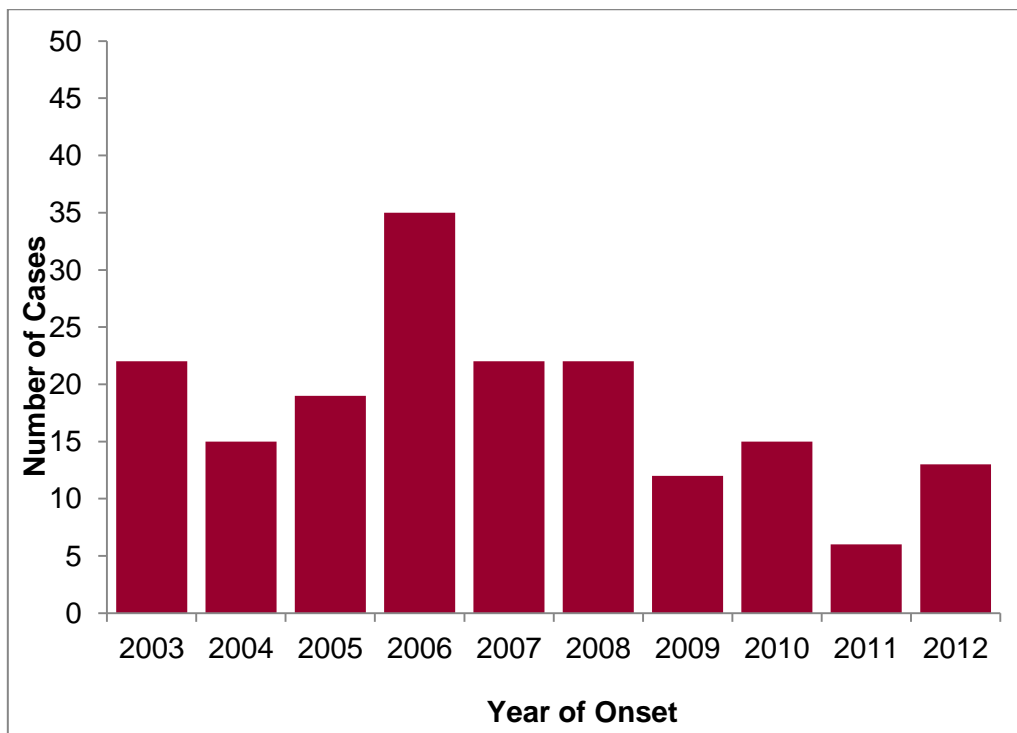


Table 1: Cases of legionellosis (confirmed and presumptive) in residents of South Midlands and Hertfordshire by disease type and year of onset; 2010 – 2012

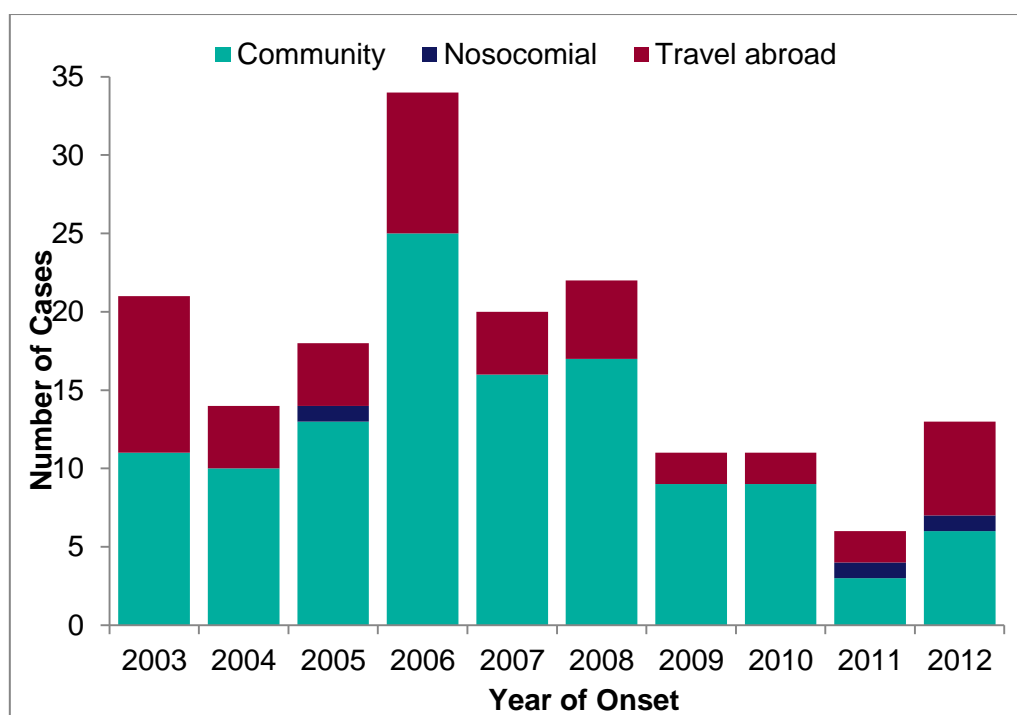
	Number of confirmed (presumptive*) cases			
	2010	2011	2012	Total (2010-2012)
Legionnaires' disease	12	6	13	31
Non-pneumonic Legionellosis	3	-	-	3
Pontiac fever	-	-	-	0
Total	15	6	13	34

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

Table 2: Number & population rate per million of confirmed cases of Legionnaires' disease in residents of South Midlands and Hertfordshire by year of onset; 2010 – 2012

Region	2010		2011		2012		Total (2010-2012)	
	n	Rate	n	Rate	n	Rate	n	Rate
South Midlands and Hertfordshire	11	5.43	6	2.96	13	6.42	30	4.94
National	357	6.36	235	4.18	306	5.45	898	5.33

Figure 2: Number of confirmed Legionnaires' disease cases^o in residents of South Midlands and Hertfordshire by year of onset and category; 2003-2012



^o 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 South Midlands and Hertfordshire by likely exposure category; 2010 – 2012

Category	2010	2011	2012	Total (2010-2012)	National Total (2010-2012)
Community [†]	9 (81.8)	3 (50.0)	6 (46.2)	18 (60.0)	497 (55.4)
Nosocomial	-	1 (16.7)	1 (7.7)	2 (6.7)	44 (4.9)
Travel abroad	2 (18.2)	2 (33.3)	6 (46.2)	10 (33.3)	357 (39.8)
Total	11	6	13	30	898

[†] includes travel UK cases

Table 4: Number and proportion of confirmed Legionnaires' disease cases in residents of South Midlands and Hertfordshire 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	1 (20.0)	4 (80.0)	5 (16.7)	0	0 (0.0 - 52.2 [‡])
50-59 years	2 (20.0)	8 (80.0)	10 (33.3)	0	0 (0.0 - 30.8 [‡])
60-69 years	2 (20.0)	8 (80.0)	10 (33.3)	1	10.0 (2.5 - 44.5)
70 years & over	2 (40.0)	3 (60.0)	5 (16.7)	1	20.0 (0.5 - 71.6)
Total	7 (23.3)	23 (76.7)	30 (100.0)	2	6.7 (0.8 - 22.1)

[‡] one sided confidence interval

Figure 3: Number of confirmed Legionnaires' disease cases in residents of South Midlands and Hertfordshire by month and year of onset; 2010 – 2012

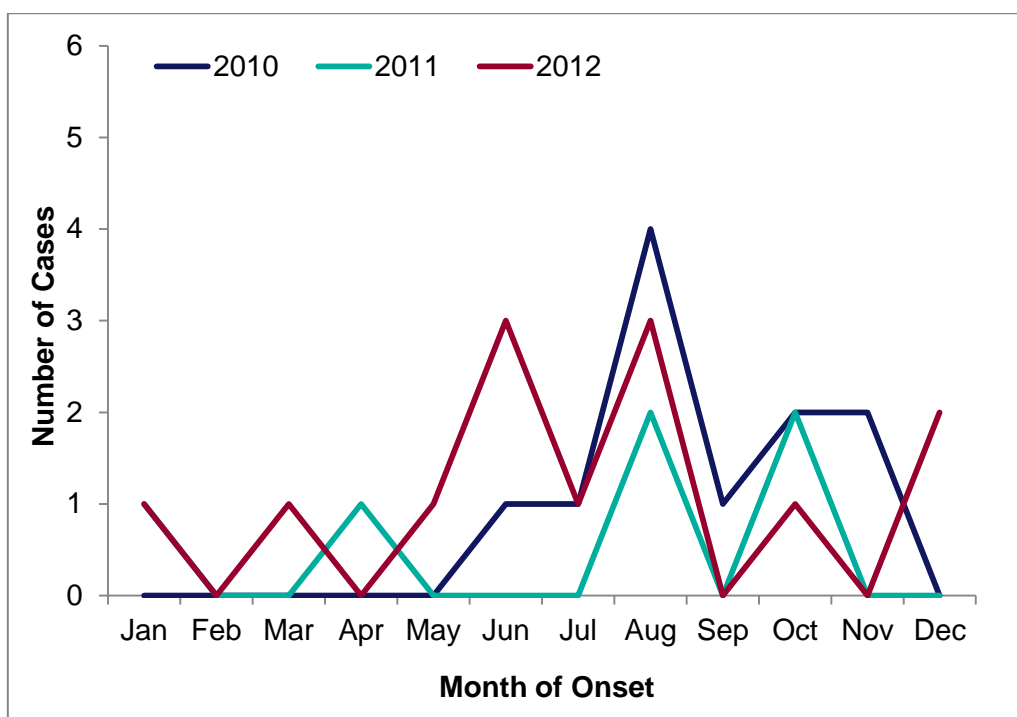


Table 5: Legionnaires' disease cases in residents of South Midlands and Hertfordshire by diagnostic test and year of onset; 2010 - 2012~

	2010	2011	2012	Total (2010-2012)	National Total (2010-2012)
Case Numbers[†]	11	6	13	30	898
Culture	4	3	1	8	180 (20.0)
Urine	11	6	13	30	881 (98.0)
Serology (SHT)	-	2	-	2	13 (1.5)
Serology (FFR)	-	-	-	-	3 (0.3)
PCR	2	4	-	6	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: Number of confirmed Legionnaires' disease cases in residents of South Midlands and Hertfordshire by Local Authority (Upper-Tier) and year of onset; 2010 – 2012

Local Authority	2010	2011	2012	Total (2010-2012)
Bedford UA	-	-	2	2
Broxbourne	1	1	-	2
Central Bedfordshire UA	1	-	-	1
Corby	-	-	1	1
Dacorum	1	-	-	1
East Hertfordshire	-	1	-	1
East Northamptonshire	-	1	1	2
Hertsmere	1	-	2	3
Luton	1	1	-	2
Milton Keynes	2	-	1	3
North Hertfordshire	1	1	-	2
Northampton	1	-	2	3
St Albans	-	-	2	2
Stevenage	1	-	-	1
Three Rivers	-	-	1	1
Wellingborough	-	1	-	1
Welwyn Hatfield	1	-	1	2
Total	11	6	13	30

Table 7: Number and type of outbreaks/clusters with associated number of South Midlands and Hertfordshire cases of Legionnaires' disease; 2010 – 2012

Outbreak/Clusters
No outbreaks or clusters were identified with association South Midlands and Hertfordshire.

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