



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

North East

This report provides a short summary of Legionella activity in residents of the North East, 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: Number of cases of legionellosis (confirmed and presumptive) in residents of North East by year of onset of symptoms; 2004 – 2013

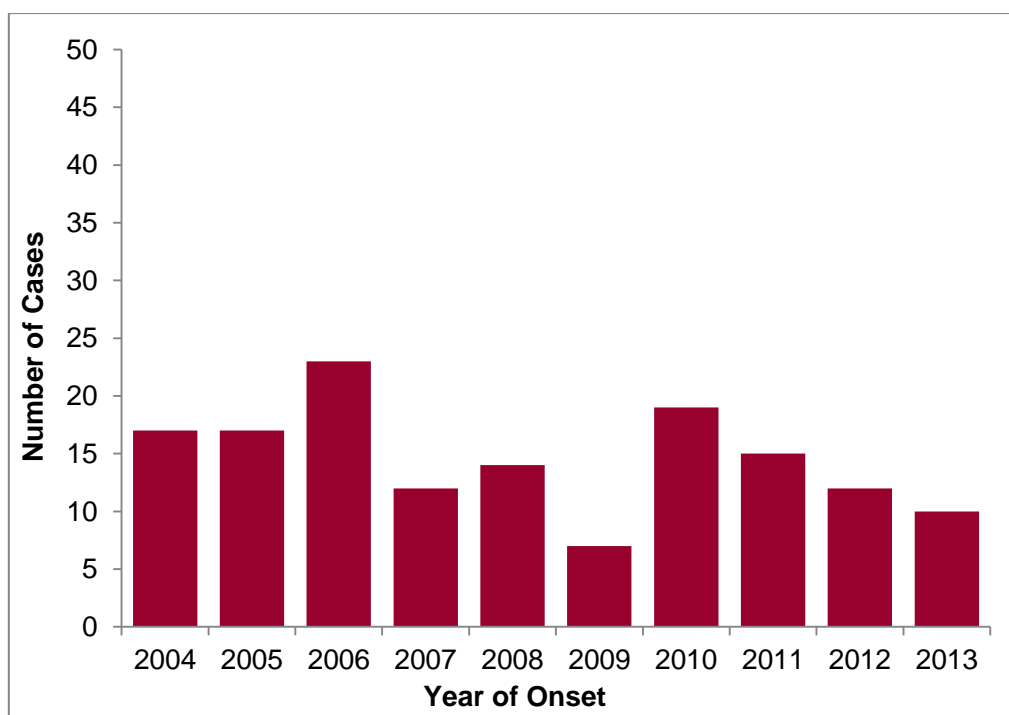


Table 1: Number of cases of legionellosis (confirmed and presumptive) in residents of North East by disease type and year of onset; 2011 – 2013

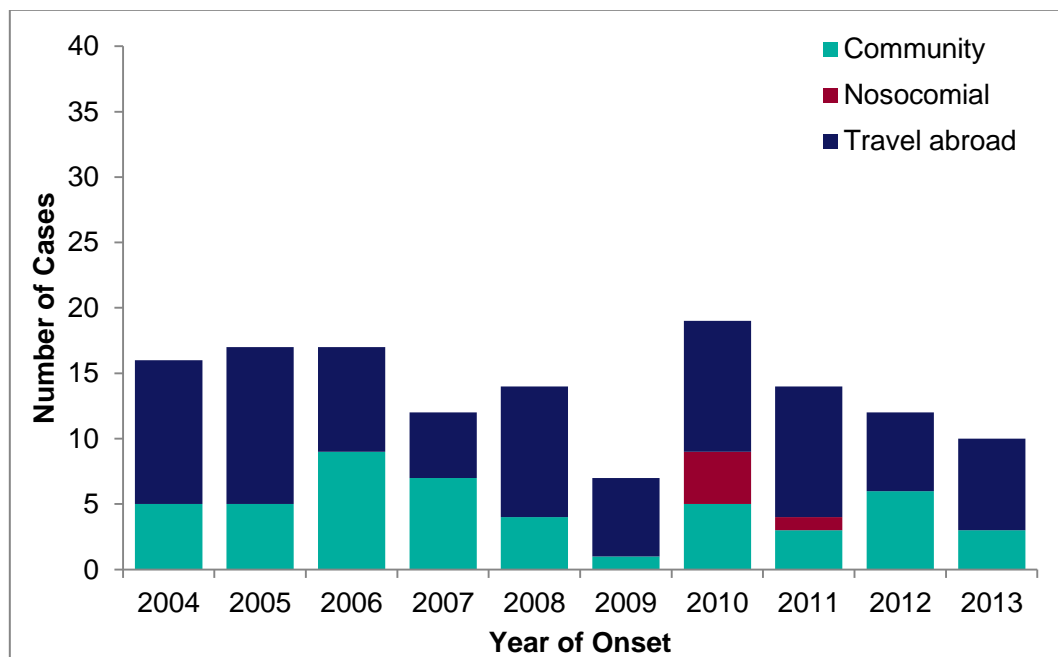
	Number of confirmed (presumptive*) cases			
	2011	2012	2013	Total (2011 - 2013)
Legionnaires' disease	15	12	10	37
Non-pneumonic Legionellosis	-	-	-	0
Pontiac fever	-	-	-	0
Total	15	12	10	37

* 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 North East by year of onset; 2011 – 2013

Region	2011		2012		2013		Total (2011 - 2013)	
	n	Rate	n	Rate	n	Rate	n	Rate
North East	14	5.39	12	4.62	10	3.85	36	4.62
National	235	4.18	306	5.45	284	5.06	825	4.90

Figure 2: Number of confirmed Legionnaires' disease cases^o in residents of North East by year of onset and category; 2004 – 2013



^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 North East by likely exposure category; 2011 – 2013

Category	2011	2012	2013	Total	National Total (2011 - 2013)
Community [‡]	3 (21.4)	6 (50.0)	3 (30.0)	12 (33.3)	466 (56.5)
Nosocomial	1 (7.1)	-	-	1 (2.8)	28 (3.4)
Travel abroad	10 (71.4)	6 (50.0)	7 (70.0)	23 (63.9)	331 (40.1)
Total	14	12	10	36	825

[‡] includes travel UK cases

Table 4: Number and proportion of confirmed Legionnaires' disease cases in residents of North East 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	2 (33.3)	4 (66.7)	6 (16.7)	2	33.3 (4.3 - 77.7)
50-59 years	3 (27.3)	8 (72.7)	11 (30.6)	0	0.0 (0.0 - 28.5 [‡])
60-69 years	3 (23.1)	10 (76.9)	13 (36.1)	2	15.4 (1.9 - 45.4)
70 years & over	1 (16.7)	5 (83.3)	6 (16.7)	1	16.7 (0.4 - 64.1)
Total	9 (25.0)	27 (75.0)	36 (100.0)	5	13.9 (4.7 - 29.5)

[‡] one sided confidence interval

Figure 3: Number of confirmed Legionnaires' disease cases in residents of North East by month and year of onset; 2011 – 2013

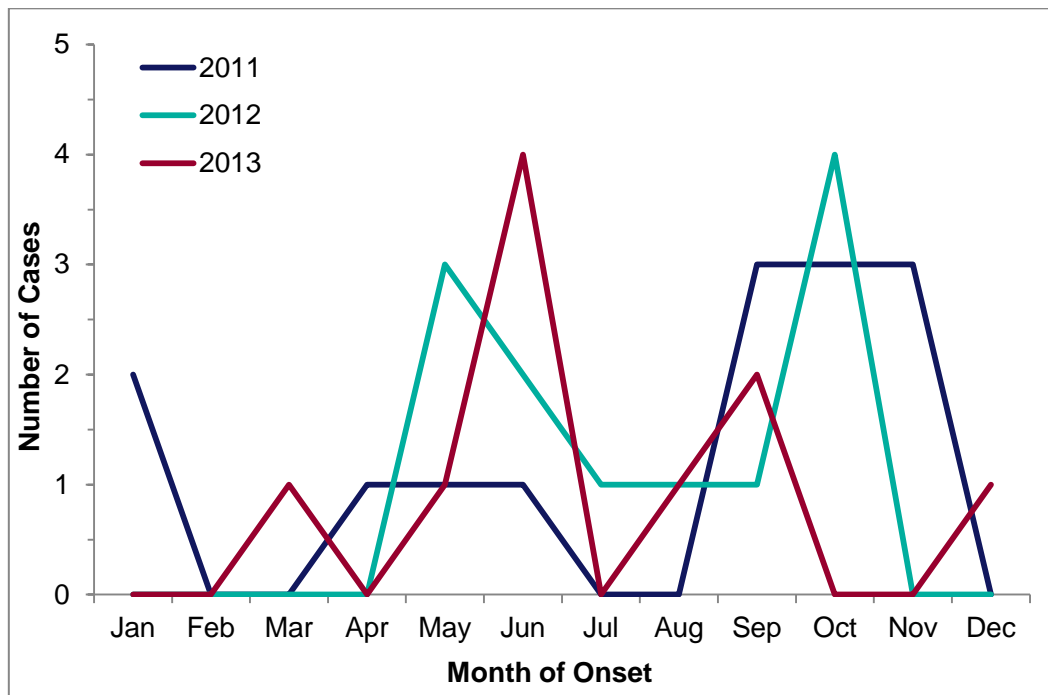


Table 5: Legionnaires' disease cases in residents of North East by diagnostic test and year of onset; 2011 - 2013~

North East	2011	2012	2013	Total (2011 - 2013)	National Total (2011 - 2013)
Case Numbers[†]	14	12	10	36	825
Culture	3 (21.4)	2 (16.7)	3 (30.0)	8 (22.2)	190 (23.0)
Urine	13 (92.9)	12 (100.0)	10 (100.0)	35 (97.2)	810 (98.2)
Serology (SHT)	2 (14.3)	-	-	2 (5.6)	5 (0.6)
Serology (FFR)	-	-	-	0 (0.0)	1 (0.1)
PCR	1 (7.1)	3 (25.0)	5 (50.0)	9 (25.0)	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: Number of confirmed Legionnaires' disease cases in residents of North East by Local Authority (Upper-Tier) and year of onset; 2011 – 2013

Local Authority	2011	2012	2013	Total (2011-2013)
County Durham UA	1	1	1	3
Darlington	2	-	-	2
Gateshead	-	-	1	1
Hartlepool	-	3	1	4
Middlesbrough	1	1	2	4
Newcastle upon Tyne	1	1	-	2
North Tyneside	1	2	-	3
Northumberland UA	2	1	2	5
Redcar and Cleveland	1	1	1	3
South Tyneside	1	-	-	1
Stockton on Tees	2	-	2	4
Sunderland	2	2	-	4
Total	14	12	10	36

Table 7: Number and type of outbreaks/clusters with associated number of North East cases of Legionnaires' disease; 2011 – 2013

Category	2011		2012		2013		Total (2011 - 2013)	
	OB	Cases	OB	Cases	OB	Cases	OB	Cases
Community	-	-	1	3	-	-	1	3
Nosocomial	-	-	-	-	-	-	0	0
Travel UK	-	-	-	-	-	-	0	0
Total	0	0	1	3	0	0	1	3

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