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Local Summary of Legionnaires' disease in Residents of England and Wales, 2015

North East

This report provides a short summary of Legionella activity in residents of North East, in individuals with onset of symptoms during 2015. This report should be read in conjunction with either the 2015 official statistics which provides data on Legionella activity across the whole of England and Wales during 2015.

It can be found at the following location on the Public Health England (PHE) website: www.gov.uk/government/statistics/legionnaires-disease-in-england-and-wales-2015.

Or the 2015 annual report for Legionnaires' disease in residents of England and Wales: www.gov.uk/government/publications/legionnaires-disease-in-england-and-wales-report-2015.

The annual report provides wider analysis of Legionella activity across England and Wales along with case definitions, detailed methodology and discussion on key aspects of Legionella activity.

The data in this report primarily focuses on cases with onset of symptoms during 2015 but data for years 2013 and 2014, and in some tables and figures for years 2006 to 2014, are presented for comparative purposes.

All data presented in this report are based on cases of legionellosis reported to the National Surveillance Scheme for Legionnaires' disease in Residents of England and Wales which is managed by the Respiratory Diseases Department, National Infection Service, Public Health England.

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Figure 1: Number of cases of legionellosis (confirmed and presumptive) in residents of North East by year of onset of symptoms 2006 to 2015

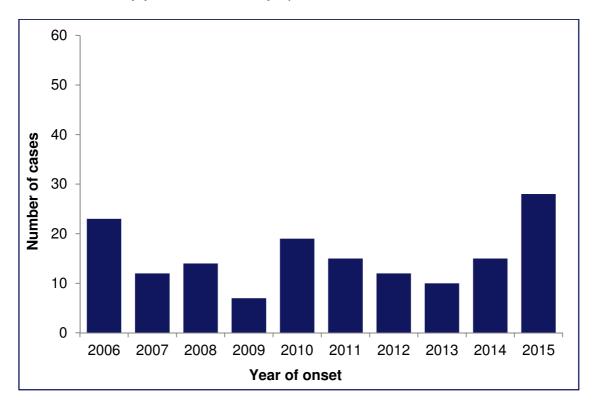


Table 1: Number of cases of legionellosis (confirmed and presumptive) in residents of North East by disease type and year of onset 2013 to 2015

	Number of co	Total			
	2013	2014	2015	(2013 - 2015)	
Legionnaires' disease	10	15	27	52	
Non-pneumonic Legionellosis	-	-	1	1	
Pontiac fever	-	-	-	0	
Total	10	15	28	53	

^{*} 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 North East by year of onset 2013 to 2015

Region	2	013	2	014	2015		Total (2013 - 2015)	
	n	Rate	n	Rate	n	Rate	n	Rate
North East	10	3.82	15	5.73	27	10.31	52	6.62
National	285	4.96	331	5.77	382	6.65	998	5.79

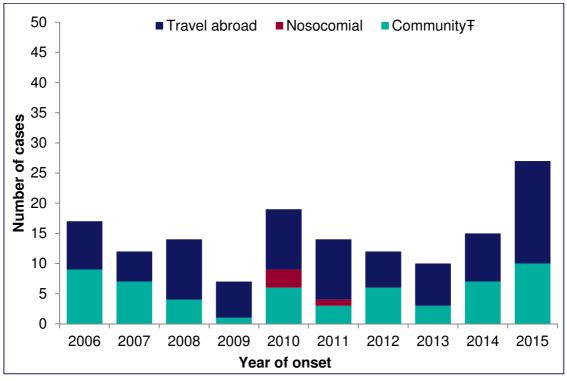
[¥] Rate calculated using mid-2014 population estimates for England and Wales from office of national statistics

Table 3: Number and proportion of confirmed Legionnaires' disease cases in residents of North East by likely exposure category 2013 to 2015

Category	2013 (%)	2014 (%)	2015 (%)	Total (%)	National Total (%) (2013 - 2015)
Community [∓]	3 (30.0)	7 (46.7)	10 (37.0)	20 (38.5)	569 (57.0)
Nosocomial	-	-	-	0	25 (2.5)
Travel abroad	7 (70.0)	8 (53.3)	17 (63.0)	32 (61.5)	404 (40.5)
Total	10	15	27	52	998 (100.0)

Ŧ includes travel UK cases

Figure 2: Number of confirmed Legionnaires' disease cases in residents of North East by year of onset and category 2006 to 2015



T 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 2013 to 2015

	Nur	nber (%) of	cases	No.	Age Specific
Age Groups	Female	Male	Total (2013 -2015)	Deaths	CFR (95%CI)
Under 50 years	5 (62.5)	3 (37.5)	8 (15.4)	1	12.5 (0.3 - 52.7)
50-59 years	3 (15.0)	17 (85.0)	20 (38.5)	-	0.0 (0.0 - 16.8‡)
60-69 years	4 (40.0)	6 (60.0)	10 (19.2)	1	10.0 (0.3 - 44.5)
70 years & over	6 (42.9)	8 (57.1)	14 (26.9)	1	7.1 (0.2 - 33.9)
Total	18 (34.6)	34 (65.4)	52 (100.0)	3	5.8 (1.2 - 15.9)

[‡] one-sided, 97.5% confidence interval

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

Figure 3: Number of confirmed Legionnaires' disease cases in residents of North East by month and year of onset 2013 to 2015

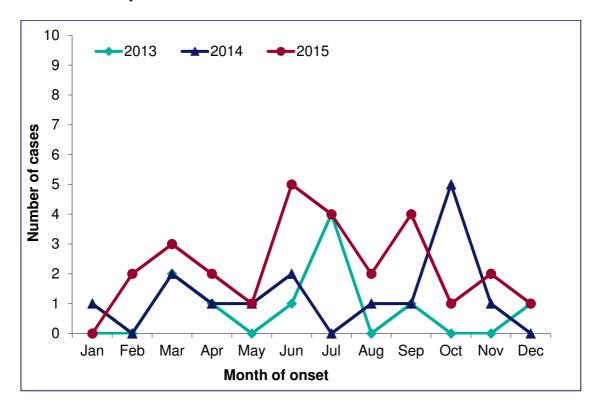


Table 5: Legionnaires' disease cases in residents of North East by diagnostic test and year of onset 2012 to 2014~

	2013 (%)	2014 (%)	2015 (%)	Total (%) (2013 - 2015)	National Total (%) (2013 - 2015)
Case Numbers [†]	10	15	27	105	998
Culture	3 (30.0)	6 (40.0)	18.5185	31 (29.5)	248 (24.9)
Urine	10 (100.0)	14 (93.3)	26 (96.3)	105 (100.0)	975 (97.7)
Serology (SHT)	-	-	-	-	0
Serology (FFR)	-	-	-	-	0
PCR	5 (50.0)	6 (40.0)	11 (40.7)	40 (38.1)	305 (30.6)

[~] 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 2013 to 2015

Local Authority	2013	2014	2015	Total (2013 - 2015)
County Durham UA	1	3	2	6
Darlington	-	-	1	1
Gateshead	1	2	2	5
Hartlepool	1	1	1	3
Middlesbrough	2	2	3	7
Newcastle upon Tyne	-	1	-	1
Northumberland UA	2	2	2	6
Redcar and Cleveland	1	-	1	2
South Tyneside	-	3	9	12
Stockton on Tees	2	-	5	7
Sunderland	-	1	1	2
Total	10	15	27	52

Table 7: Number and type of outbreaks/clusters with associated number of North East cases of Legionnaires' disease 2013 to 2015

	20	13	20	14	2015		Total (2014 - 2015)	
	ОВ	Cases	ОВ	Cases	ОВ	Cases	ОВ	Cases
Community	-	-	-	-	1	6 (1)	1	6 (1)
Nosocomial	-	-	-	-	-	-	0	0
Travel UK	-	-	-	-	-	-	0	0
Total	0	0	0	0	1	6 (1)	1	6 (1)

^() cases with onset of symptoms in other years that are included in the cluster/outbreak

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