

Protecting and improving the nation's health

Local Summary of Legionnaires' disease in Residents of England and Wales, 2016

Yorkshire and Humber

This report provides a short summary of Legionella activity in residents of Yorkshire and Humber, amongst individuals with onset of symptoms during 2016. It is recommended that this report be read in conjunction with either the 2016 official statistics which provides statistics on Legionella activity across the whole of England and Wales during 2016 and can be found on the Public Health England (PHE) website at the following address:

www.gov.uk/government/statistics/legionnaires-disease-in-england-and-wales-2016 Alternatively, the annual report; Legionnaires' disease in residents of England and Wales: 2016 can be referred to and is located at: www.gov.uk/government/publications/legionnaires-disease-in-residents-of-england-and-wales-2016.

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 in England and Wales during 2016.

The data in this report primarily focuses on cases with onset of symptoms during 2016 but data for years 2014 and 2015 and in some tables and figures, for years 2007 to 2015, are presented for comparative purposes.

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 that is managed by the Respiratory diseases department, National Infection Service, PHE.

Figure 1: Number of cases of legionellosis (confirmed and presumptive) in residents of Yorkshire and Humber by year of onset of symptoms: 2007 – 2016

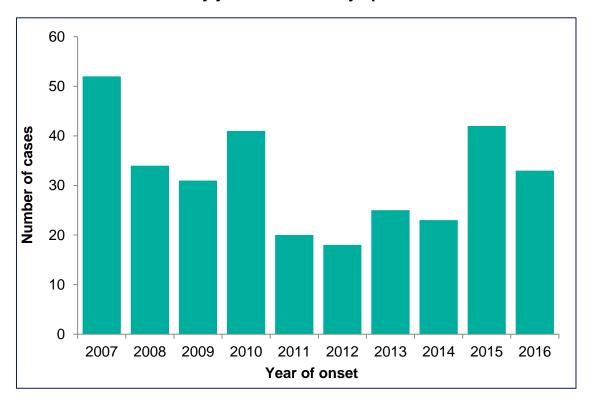


Table 1: Number of cases of legionellosis (confirmed and presumptive) in residents of Yorkshire and Humber by disease type and year of onset: 2014 – 2016

	Number of confirmed (presumptive*) cases					
	2014	2015	2016	Total (2014 - 2016)		
Legionnaires' disease	22	40	32	94		
Non-pneumonic Legionellosis	1	2	1	4		
Pontiac fever	-	-	-	0		
Total	23	42	33	98		

^{*} 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 Yorkshire and Humber by year of onset: 2014 - 2016

Region	20)14	20)15	2016		Total (2014 - 2016)	
	n	Rate	n	Rate	n	Rate	n	Rate
Yorkshire and Humber	22	4.05	40	7.37	32	5.90	94	5.77
National	331	5.67	384	6.58	355	6.08	1070	6.11

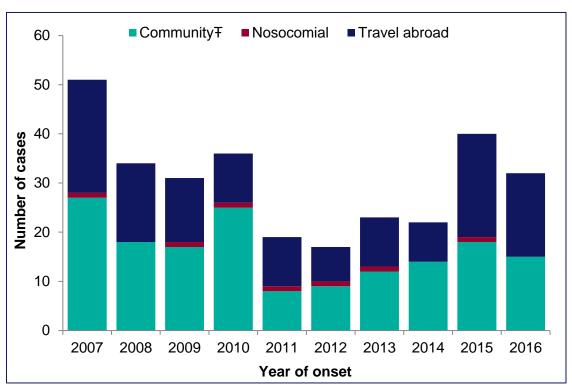
[¥] Rate calculated using mid-2016 population estimates for England and Wales from office of national statistics

Table 3: Number and proportion of confirmed Legionnaires' disease cases in residents of Yorkshire and Humber by likely exposure category: 2014 – 2016

Category	2014 (%)	2015 (%)	2016 (%)	Total (%)	National Total (%) (2014 - 2016)
Community [∓]	14 (63.6)	18 (45.0)	15 (46.9)	47 (50.0)	580 (54.2)
Nosocomial	-	1 (2.5)	-	1 (1.1)	27 (2.5)
Travel abroad	8 (36.4)	21 (52.5)	17 (53.1)	46 (48.9)	463 (43.3)
Total	22	40	32	94	1070 (100.0)

Ŧ includes travel UK cases

Figure 2: Number of confirmed Legionnaires' disease cases in residents of Yorkshire and Humber by year of onset and category: 2007 – 2016



T 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 Yorkshire and Humber by age group and gender, with age specific case-fatality rates: 2014 – 2016

	Num	ber (%) of c	ases	No.	Age Specific
Age Groups	Female	Male	Total (2014-2016)	Deaths	CFR (95%CI)
Under 50 years	1 (5.3)	18 (94.7)	19 (20.2)	-	0.0 (0.0 - 17.6 [‡])
50-59 years	9 (42.9)	12 (57.1)	21 (22.3)	-	0.0 (0.0 - 16.1 [‡])
60-69 years	11 (35.5)	20 (64.5)	31 (33.0)	2	6.5 (0.8 - 21.4)
70 years & over	6 (26.1)	17 (73.9)	23 (24.5)	2	8.7 (1.1 - 28.0)
Total	27 (28.7)	67 (71.3)	94 (100.0)	4	4.3 (1.2 - 10.5)

‡ one-sided, 97.5% confidence interval

Figure 3: Number of confirmed Legionnaires' disease cases in residents of Yorkshire and Humber by month and year of onset: 2014 – 2016

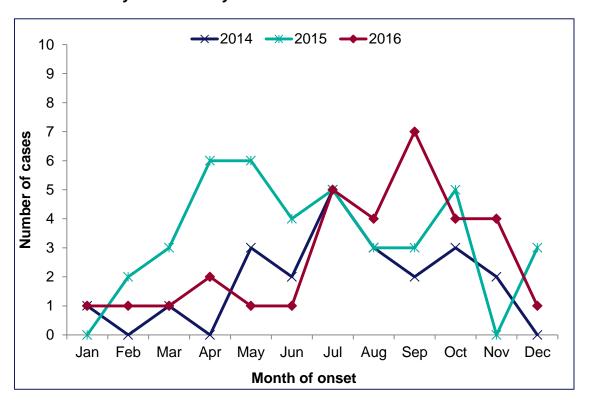


Table 5: Legionnaires' disease cases in residents of Yorkshire and Humber by diagnostic test and year of onset: 2014 – 2016~

	2014 (%)	2015 (%)	2016 (%)	Total (%) (2014 - 2016)	National Total (%) (2014 - 2016)
Case Numbers [†]	22	40	32	94	1070
Culture	3 (13.6)	9 (22.5)	9 (28.1)	21 (22.3)	241 (22.5)
Urine	22 (100.0)	40 (100.0)	32 (100.0)	94 (100.0)	1044 (97.6)
Serology (SHT)	-	-	-	-	0
Serology (FFR)	-	-	-	-	0
PCR	3 (13.6)	11 (27.5)	10 (31.3)	24 (25.5)	306 (28.6)

[~] this table shows the investigations carried out on each confirmed case

[†] please note that some cases have more than 1 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 Yorkshire and Humber by Local Authority and year of onset: 2014 – 2016

Local Authority	2014	2015	2016	Total (2014 - 2016)
Bradford	3	3	3	9
Calderdale	1	3	-	4
Doncaster	2	2	3	7
East Riding of Yorkshire	1	1	3	5
Kingston upon Hull, City of	-	3	1	4
Kirklees	1	4	2	7
Leeds	3	8	5	16
North East Lincolnshire	4	4	2	10
North Lincolnshire	1	2	3	6
North Yorkshire	1	4	4	9
Rotherham	2	4	1	7
Sheffield	1	2	2	5
Wakefield	1	-	3	4
York	1	-	-	1
Total	22	40	32	94

Table 7: Number and type of outbreaks/clusters with associated number of Yorkshire and Humber cases of Legionnaires' disease: 2014 – 2016

	2014		2015		2016		Total (2014 - 2016)	
	ОВ	Cases	ОВ	Cases	ОВ	Cases	ОВ	Cases
Community	1	4	1	4 [1]	1	2	3	10 [1]
Nosocomial	-	-	1	2	-	-	1	2
Travel UK	-	-	-	-	1	2 (1)	1	2 (1)
Total	1	4	2	6[1]	2	4 (1)	5	14 [1] (1)

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

First published: April 2019

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^[] non-pneumonic cases associated with cluster/outbreak