



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

East of England

This report provides a short summary of Legionella activity in residents of East of England 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 East of England by year of onset of symptoms: 2007 – 2016

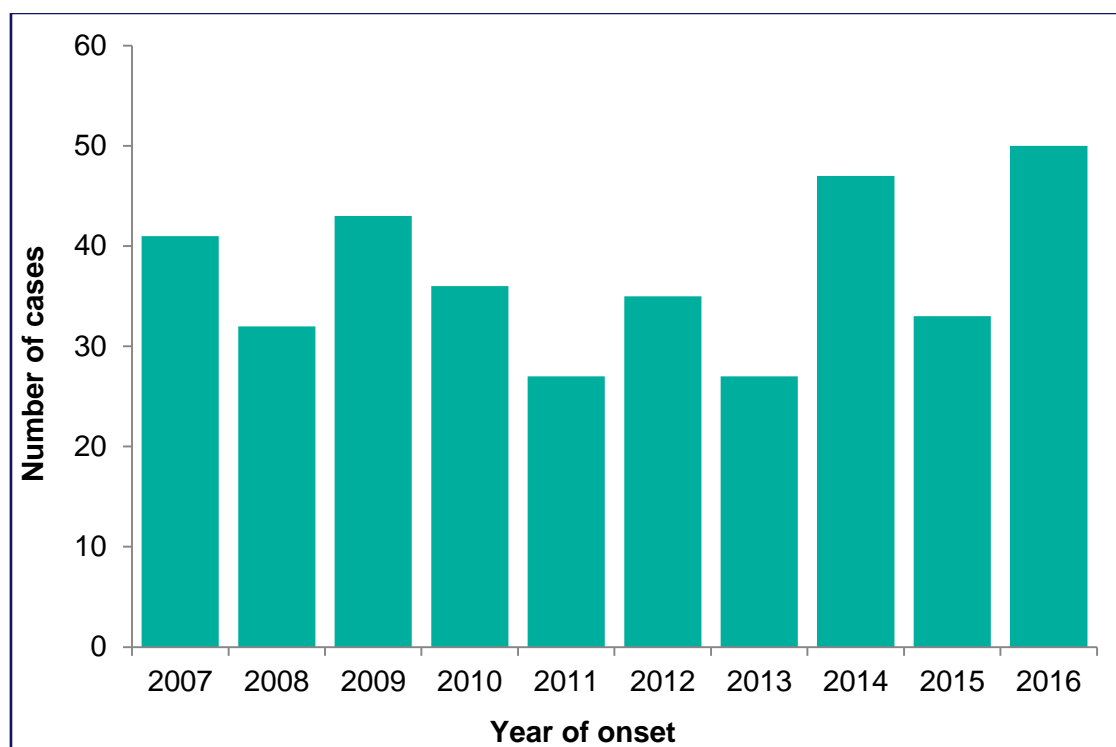


Table 1: Number of cases of legionellosis (confirmed and presumptive) in residents of East of England by disease type and year of onset: 2014 – 2016

	Number of confirmed (presumptive*) cases			
	2014	2015	2016	Total (2014 - 2016)
Legionnaires' disease	14	26	34	74
Non-pneumonic Legionellosis	1	-	1	2
Pontiac fever	-	-	-	0
Total	15	26	35	76

* 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 East of England by year of onset: 2014 – 2016

Region	2014		2015		2016		Total (2014 - 2016)	
	n	Rate	n	Rate	n	Rate	n	Rate
East of England	14	2.28	26	4.24	34	5.55	74	4.02
National	331	5.67	384	6.58	355	6.08	1070	6.11

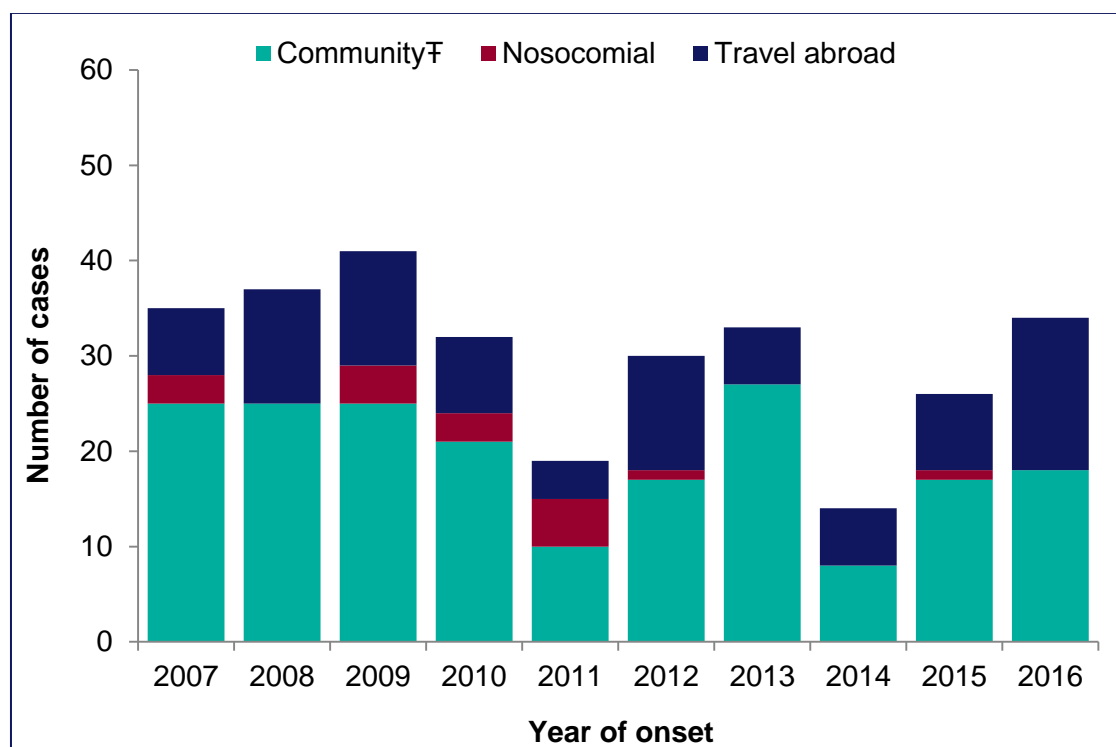
‡ Rate calculated using mid-2016 population estimates for England and Wales from office of national statistics

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

Category	2014 (%)	2015 (%)	2016 (%)	Total (%)	National Total (%) (2014 - 2016)
Community[‡]	8 (57.1)	17 (65.4)	18 (52.9)	43 (58.1)	580 (54.2)
Nosocomial	-	1 (3.8)	-	1 (1.4)	27 (2.5)
Travel abroad	6 (42.9)	8 (30.8)	16 (47.1)	30 (40.5)	463 (43.3)
Total	14	26	34	74	1070 (100.0)

‡ includes travel UK cases

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



‡ 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 East of England by age group and gender, with age specific case-fatality rates: 2014 – 2016

Age Groups	Number (%) of cases			No. Deaths	Age Specific CFR (95%CI)
	Female	Male	Total (2014-2016)		
Under 50 years	2 (20.0)	8 (80.0)	10 (13.5)	-	0.0 (0.0 - 30.8 [‡])
50-59 years	5 (27.8)	13 (72.2)	18 (24.3)	-	0.0 (0.0 - 18.5 [‡])
60-69 years	6 (26.1)	17 (73.9)	23 (31.1)	1	4.3 (0.1 - 21.9)
70 years & over	8 (34.8)	15 (65.2)	23 (31.1)	4	17.4 (5.0 - 38.8)
Total	21 (28.4)	53 (71.6)	74 (100.0)	5	6.8 (2.2 - 15.1)

‡ one-sided, 97.5% confidence interval

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

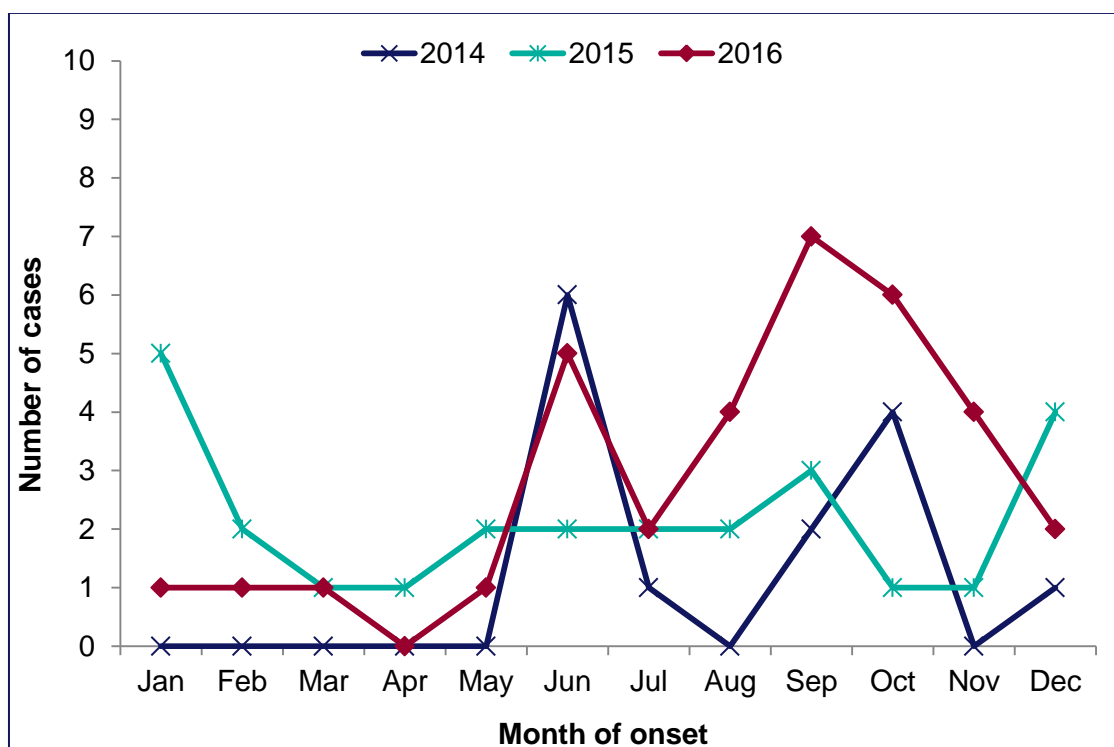


Table 5: Legionnaires' disease cases in residents of East of England by diagnostic test and year of onset: 2014 – 2016~

	2014 (%)	2015 (%)	2016 (%)	Total (%) (2014 - 2016)	National Total (%) (2014 - 2016)
Case Numbers[†]	14	26	34	74	1070
Culture	4 (28.6)	6 (23.1)	4 (11.8)	14 (18.9)	241 (22.5)
Urine	13 (92.9)	25 (96.2)	33 (97.1)	71 (96.0)	1044 (97.6)
Serology (SHT)	-	-	-	-	0
Serology (FFR)	-	-	-	-	0
PCR	3 (21.4)	7 (26.9)	5 (14.7)	15 (20.3)	306 (28.6)

~ 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 East of England by Local Authority and year of onset: 2014 – 2016

Local Authority	2014	2015	2016	Total (2014 - 2016)
Bedford	-	-	1	1
Cambridgeshire	-	2	6	8
Central Bedfordshire	-	1	1	2
Essex	1	4	7	12
Hertfordshire	1	12	2	15
Luton	-	1	1	2
Milton Keynes	2	-	4	6
Norfolk	6	3	6	15
Peterborough	-	1	-	1
Southend-on-Sea	2	-	2	4
Suffolk	1	1	3	5
Thurrock	1	1	1	3
Total	14	26	34	74

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

	2014		2015		2016		Total (2014 - 2016)	
	OB	Cases	OB	Cases	OB	Cases	OB	Cases
Community	-	-	2	6 (1)	-	-	2	6 (1)
Nosocomial	-	-	-	-	-	-	0	0
Travel UK	1	2	-	-	-	-	1	2
Total	1	2	2	6 (1)	0	0	3	8 (1)

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

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