



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

London

This report provides a short summary of Legionella activity in residents of London, 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: Number of cases of legionellosis (confirmed and presumptive) in residents of London by year of onset of symptoms; 2003 – 2012

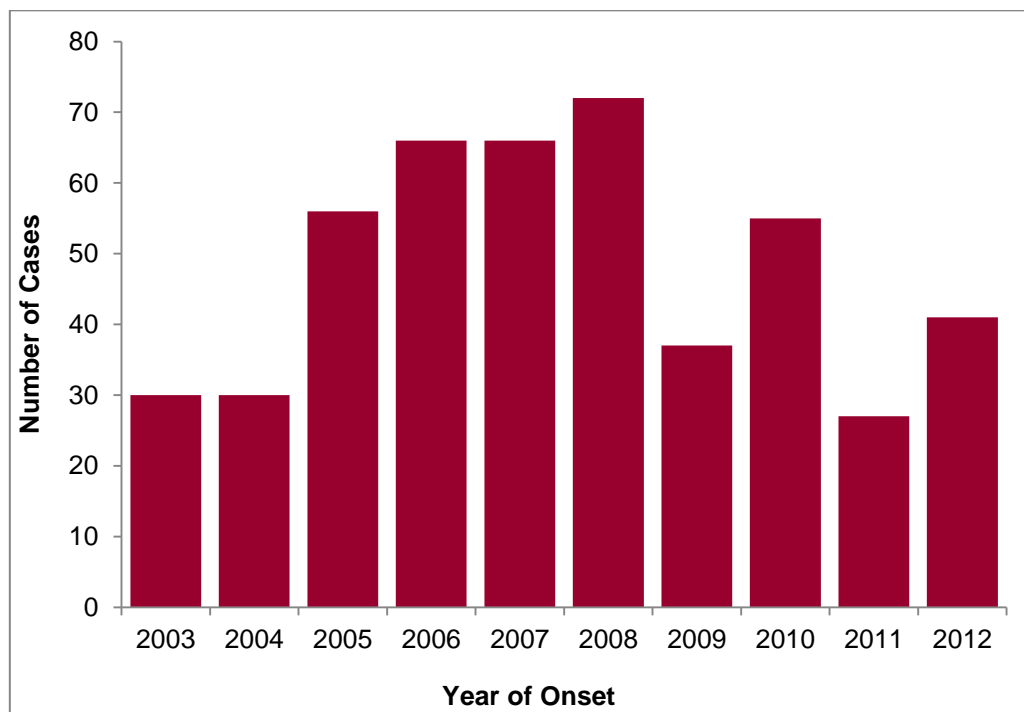


Table 1: Number of cases of legionellosis (confirmed and presumptive) in residents of London by disease type and year of onset; 2010 – 2012

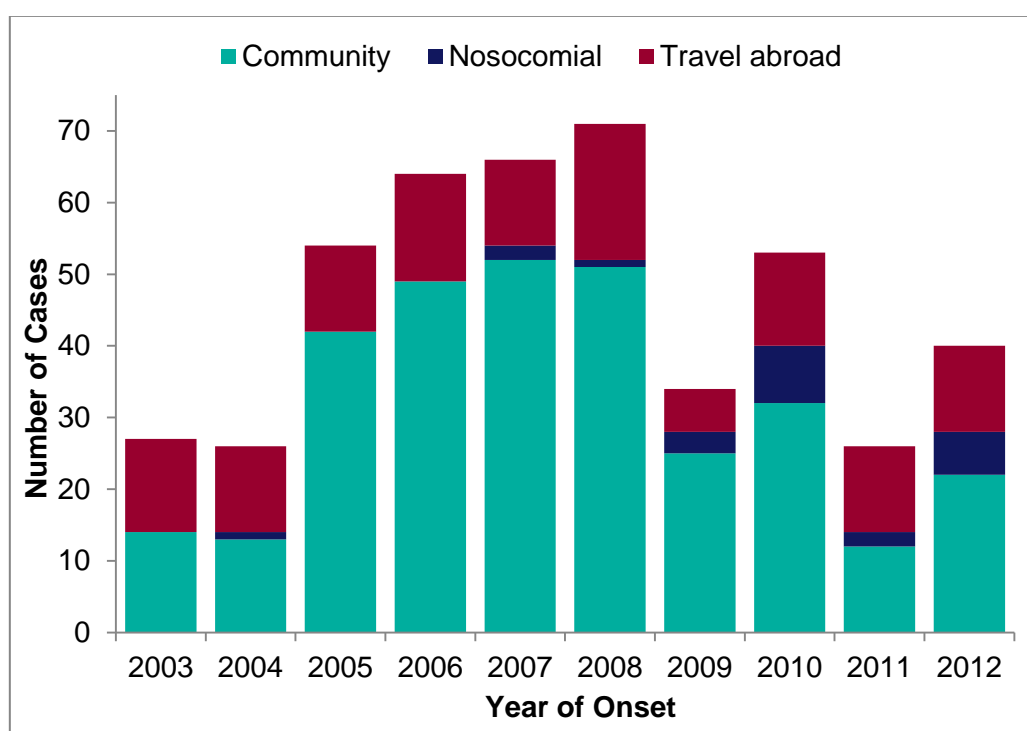
	Number of confirmed (presumptive*) cases			
	2010	2011	2012	Total (2010-2012)
Legionnaires' disease	53	26	40	119
Non-pneumonic Legionellosis	2	1	1	4
Pontiac fever	-	-	-	0
Total	55	27	41	123

* 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 London by year of onset; 2010 – 2012

Region	2010		2011		2012		Total (2010-2012)	
	n	Rate	n	Rate	n	Rate	n	Rate
London	53	6.46	26	3.17	40	4.88	119	4.83
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 London 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 London by likely exposure category; 2010 – 2012

Category	2010	2011	2012	Total (2010-2012)	National Total (2010-2012)
Community [†]	32 (60.4)	12 (46.2)	22 (55.0)	66 (55.5)	497 (55.4)
Nosocomial	8 (15.1)	2 (7.7)	6 (15.0)	16 (13.5)	44 (4.9)
Travel abroad	13 (24.5)	12 (46.2)	12 (30.0)	37 (31.1)	357 (39.8)
Total	53	26	40	119	898

[†] includes travel UK cases

Table 4: Number and proportion of confirmed Legionnaires' disease cases in residents of London 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	6 (20.7)	23 (79.3)	29 (24.4)	1	3.4 (0.1 - 17.8)
50-59 years	4 (12.5)	28 (87.5)	32 (26.9)	4	12.5 (3.5 - 29.0)
60-69 years	11 (33.3)	22 (66.7)	33 (27.7)	1	3.0 (0.1 - 15.8)
70 years & over	9 (36.0)	16 (64.0)	25 (21.0)	5	20.0 (6.8 - 40.7)
Total	30 (25.2)	89 (74.8)	119 (100.0)	11	9.2 (4.7 - 15.9)

[†] one sided confidence interval

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

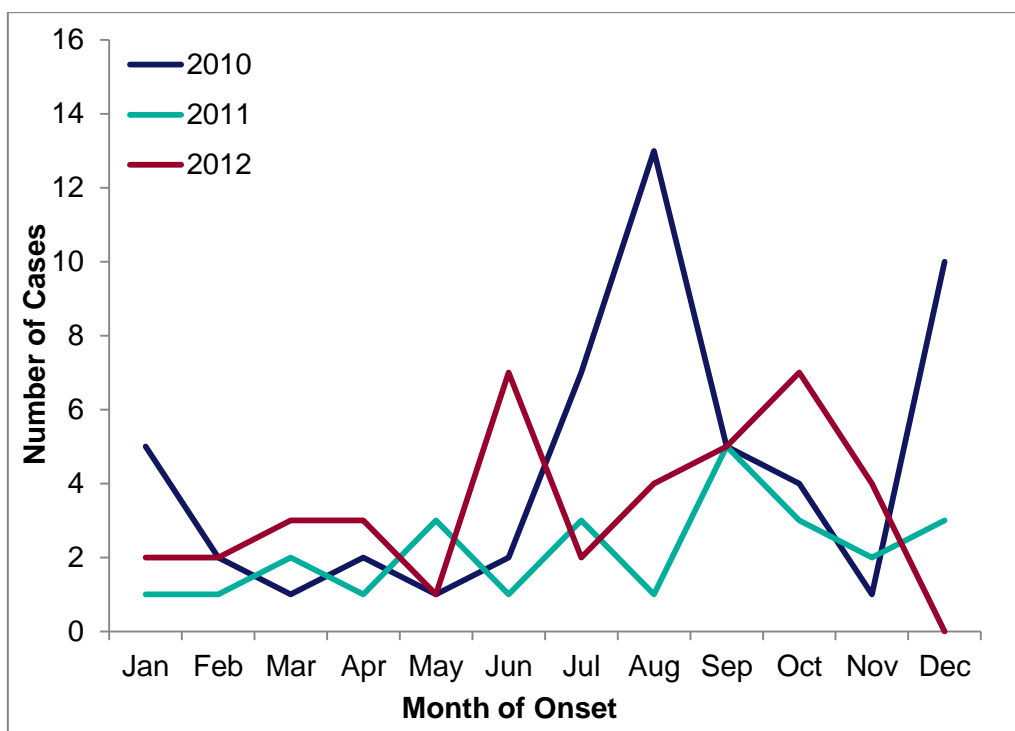


Table 5: Legionnaires' disease cases in residents of London by diagnostic test and year of onset; 2010 - 2012~

	2010	2011	2012	Total (2010-2012)	National Total (2010-2012)
Case Numbers[†]	53	26	40	119	898
Culture	16	6	9	31	180 (20.0)
Urine	52	26	40	118	881 (98.0)
Serology (SHT)	-	1	-	1	13 (1.5)
Serology (FFR)	-	-	-	-	3 (0.3)
PCR	10	5	14	29	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 London by Local Authority (Upper-Tier) and year of onset; 2010 – 2012

Local Authority	2010	2011	2012	Total (2010-2012)
Barking and Dagenham	1	-	-	1
Barnet	2	-	1	3
Bexley	2	4	1	7
Brent	2	-	2	4
Bromley	3	2	1	6
Camden	4	-	1	5
Croydon	-	1	4	5
Ealing	3	1	2	6
Enfield	1	2	1	4
Greenwich	3	2	2	7
Hackney	3	1	-	4
Hammersmith and Fulham	-	-	1	1
Haringey	2	3	1	6
Harrow	3	-	-	3
Havering	2	1	1	4
Hillingdon	-	1	1	2
Hounslow	1	-	1	2
Islington	2	1	1	4
Lambeth	2	-	3	5
Lewisham	2	-	1	3
Merton	2	-	2	4
Redbridge	1	1	2	4
Richmond upon Thames	1	1	4	6
Southwark	3	1	3	7
Tower Hamlets	2	-	1	3
Waltham Forest	2	-	-	2
Wandsworth	3	1	2	6
Westminster, City of	1	3	1	5
Total	53	26	40	119

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

Category	2010		2011		2012		Total (2010-2012)	
	OB	Cases	OB	Cases	OB	Cases	OB	Cases
Community	1	2	-	-	1	5	2	7
Nosocomial	3	12(1 [^])(4 [‡])	-	-	1	2	4	14(1 [^])(4 [‡])
Travel UK	-	-	-	-	-	-	0	0
Total	4	14(1[^])(4[‡])	0	0	2	7	6	21(1[^])(4[‡])

[^] outbreak includes one or more cases with onset of symptoms in 2007 - 2009

[‡] outbreak spanning across two or more years between 2010 - 2012 years; therefore only counted once

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