



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

Wales

This report provides a short summary of Legionella activity in Welsh residents, 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 Wales by year of onset of symptoms; 2003 – 2012

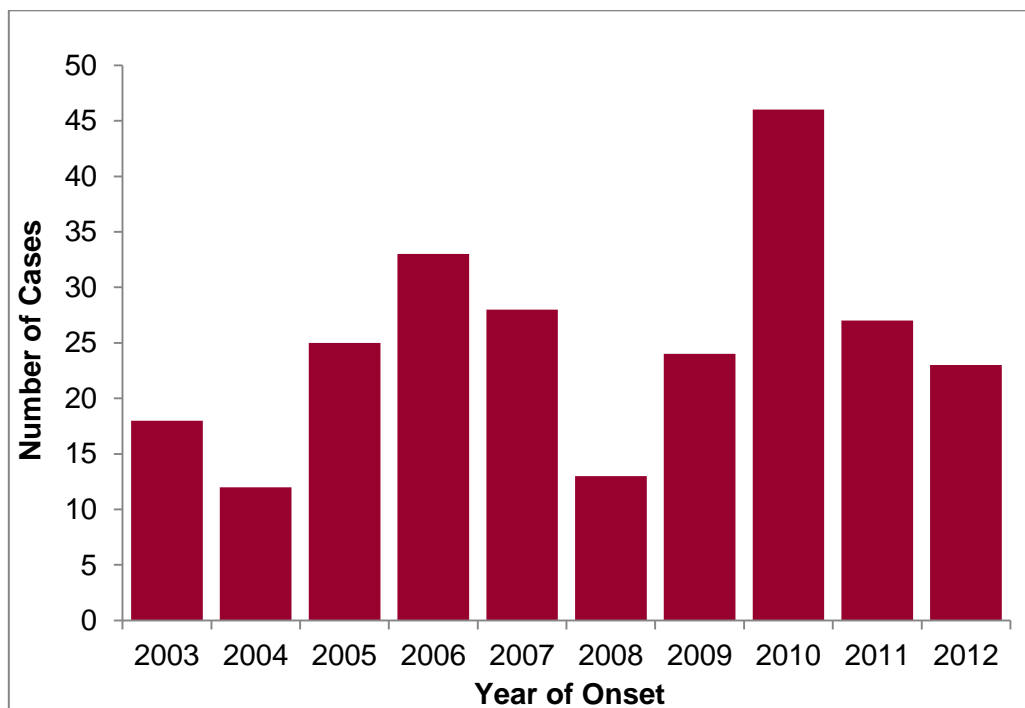


Table 1: Number of cases of legionellosis (confirmed and presumptive) in residents of Wales by disease type and year of onset; 2010 – 2012

	Number of confirmed (presumptive*) cases			
	2010	2011	2012	Total (2010-2012)
Legionnaires' disease	44	25	22	91
Non-pneumonic Legionellosis	2	2	1	5
Pontiac fever	-	-	-	0
Total	46	27	23	96

* 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 Wales by year of onset; 2010 – 2012

Region	2010		2011		2012		Total (2010-2012)	
	n	Rate	n	Rate	n	Rate	n	Rate
Wales	44	14.36	25	8.16	22	7.18	91	9.90
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 Wales by year of onset and category; 2003-2012

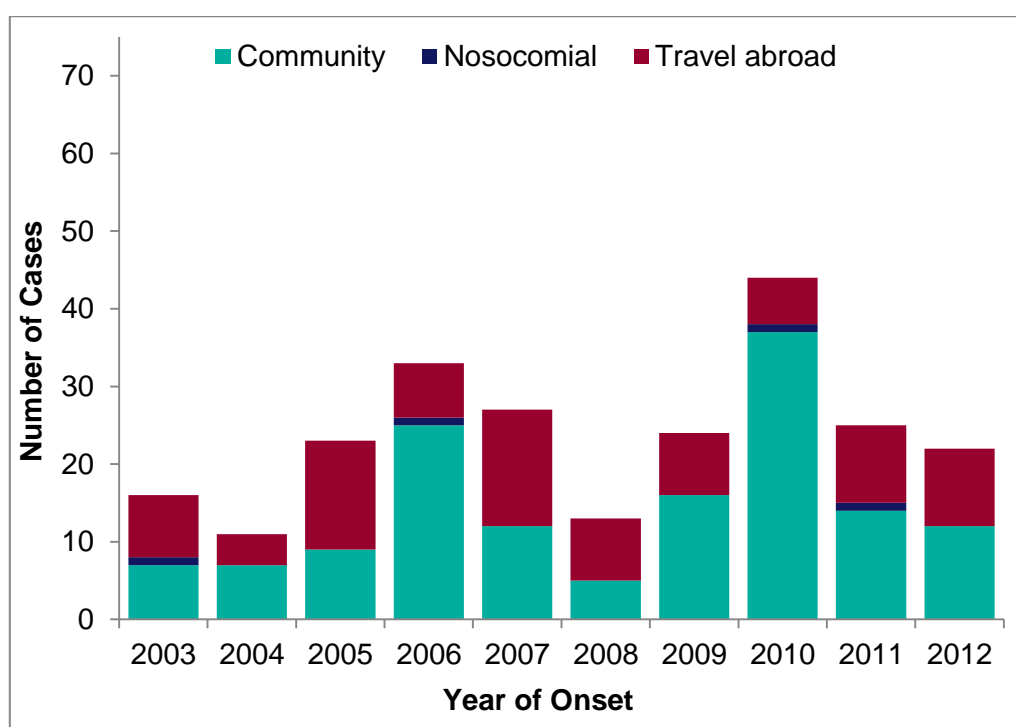


Table 3: Number and proportion of confirmed Legionnaires' disease cases in residents of Wales by likely exposure category; 2010 – 2012

Category	2010	2011	2012	Total (2010-2012)	National Total (2010-2012)
Community [‡]	37 (84.1)	14 (56.0)	12 (54.6)	63 (69.2)	497 (55.4)
Nosocomial	1 (2.3)	1 (4.0)	-	2 (2.2)	44 (4.9)
Travel abroad	6 (13.6)	10 (40.0)	10 (45.4)	26 (28.6)	357 (39.8)
Total	44	25	22	91	898

[‡] includes travel UK cases

Table 4: Number and proportion of confirmed Legionnaires' disease cases in residents of Wales 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	8 (44.4)	10 (55.6)	18 (19.8)	2	11.1 (1.4 - 34.7)
50-59 years	5 (35.7)	9 (64.3)	14 (15.4)	1	7.1 (0.2 - 33.9)
60-69 years	12 (32.4)	25 (67.6)	37 (40.7)	2	5.4 (0.7 - 18.2)
70 years & over	11 (50.0)	11 (50.0)	22 (24.2)	4	18.2 (5.2 - 40.3)
Total	36 (39.6)	55 (60.4)	91 (100.0)	9	9.9 (4.6 - 17.9)

≠ one sided confidence interval

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

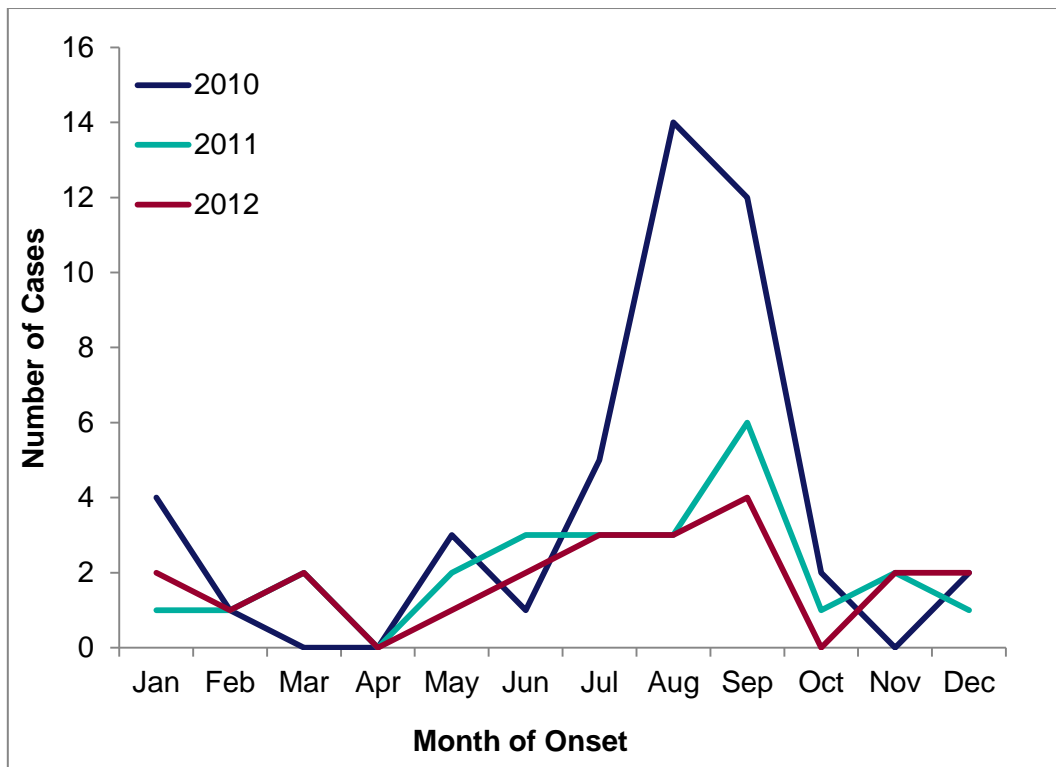


Table 5: Legionnaires' disease cases in residents of Wales by diagnostic test and year of onset; 2010 - 2012~

Wales	2010	2011	2012	Total (2010-2012)	National Total (2010-2012)
Case Numbers[†]	44	25	22	91	898
Culture	12	11	6	29	180 (20.0)
Urine	43	24	21	88	881 (98.0)
Serology (SHT)	2	-	-	2	13 (1.5)
Serology (FFR)	-	-	-	-	3 (0.3)
PCR	10	4	7	21	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 Wales by Local Authority (Upper-Tier) and year of onset; 2010 – 2012

Local Authority	2010	2011	2012	Total (2010-2012)
Blaenau Gwent	1	-	-	1
Bridgend	-	1	4	5
Caerphilly	6	2	1	9
Cardiff	5	1	1	7
Carmarthenshire	2	1	6	9
Ceredigion	-	1	-	1
Conwy	-	-	1	1
Flintshire	1	1	-	2
Gwynedd	-	2	-	2
Isle of Anglesey	-	1	1	2
Merthyr Tydfil	4	-	-	4
Monmouthshire	1	2	-	3
Neath and Port Talbot	5	-	1	6
Newport	2	4	-	6
Pembrokeshire	1	1	1	3
Powys	1	1	-	2
Rhondda, Cynon, Taff	6	1	2	9
Swansea	5	3	1	9
Torfaen	2	1	-	3
Vale of Glamorgan	-	-	1	1
Wrexham	2	2	2	6
Total	44	25	22	91

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

Category	2010		2011		2012		Total (2010-2012)	
	OB	Cases	OB	Cases	OB	Cases	OB	Cases
Community	2	20(1 [^])	-	-	1	4	3	24(1 [^])
Nosocomial	-	-	-	-	-	-	0	0
Travel UK	-	-	-	-	-	-	0	0
Total	2	20(1[^])	0	0	1	4	3	24(1[^])

[^] 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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