



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

Devon, Cornwall and Somerset

This report provides a short summary of Legionella activity in residents of Devon, Cornwall and Somerset, 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: Cases of legionellosis (confirmed and presumptive) in residents of Devon, Cornwall and Somerset by year of onset of symptoms; 2003 – 2012

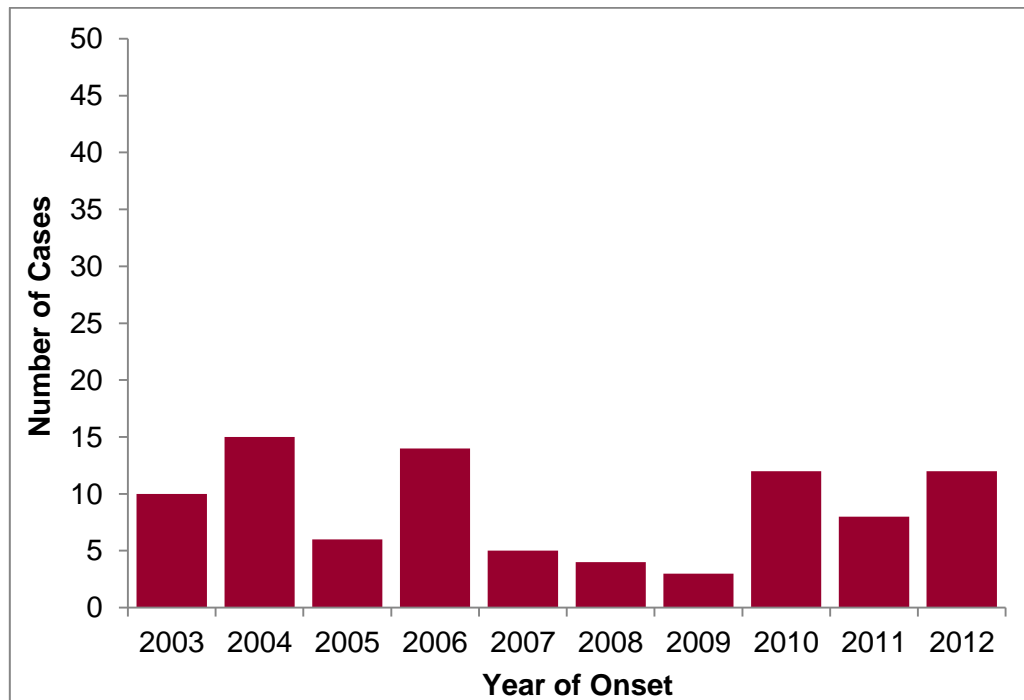


Table 1: Cases of legionellosis (confirmed and presumptive) in residents of Devon, Cornwall and Somerset by disease type and year of onset; 2010 – 2012

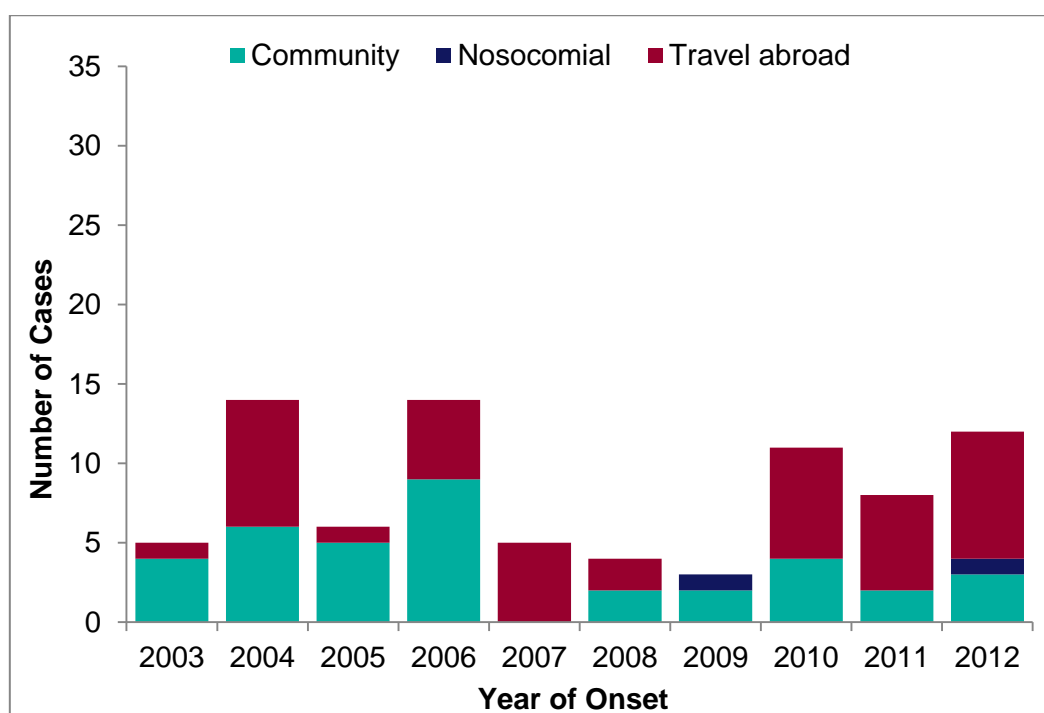
| | Number of confirmed (presumptive*) cases | | | |
|------------------------------------|--|----------|-----------|----------------------|
| | 2010 | 2011 | 2012 | Total (2010-2012) |
| Legionnaires' disease | 11 | 8 | 12 | 31 |
| Non-pneumonic Legionellosis | 1 | - | - | 1 |
| Pontiac fever | - | - | - | 0 |
| Total | 12 | 8 | 12 | 32 |

* 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 Devon, Cornwall and Somerset by year of onset; 2010 – 2012

| Region | 2010 | | 2011 | | 2012 | | Total (2010-2012) | |
|------------------------------------|------------|-------------|------------|-------------|------------|-------------|----------------------|-------------|
| | n | Rate | n | Rate | n | Rate | n | Rate |
| Devon Cornwall and Somerset | 11 | 4.99 | 8 | 3.63 | 12 | 5.45 | 31 | 4.69 |
| 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 Devon, Cornwall and Somerset 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 Devon, Cornwall and Somerset by likely exposure category; 2010 – 2012

| Category | 2010 | 2011 | 2012 | Total (2010-2012) | National Total (2010-2012) |
|------------------------|-----------|----------|-----------|----------------------|----------------------------------|
| Community [‡] | 4 (36.4) | 2 (25.0) | 3 (25.0) | 9 (29.0) | 497 (55.4) |
| Nosocomial | - | - | 1 (8.3) | 1 (3.2) | 44 (4.9) |
| Travel abroad | 7 (63.6) | 6 (75.0) | 8 (6.7) | 21 (67.7) | 357 (39.8) |
| Total | 11 | 8 | 12 | 31 | 898 |

[‡] includes travel UK cases

Table 4: Number and proportion of confirmed Legionnaires' disease cases in residents of Devon, Cornwall and Somerset 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 | - | 2 (100.0) | 2 (6.5) | 0 | 0 (0.0 - 84.2 [‡]) |
| 50-59 years | 3 (42.9) | 4 (57.1) | 7 (22.6) | 0 | 0 (0.0 - 41.0 [‡]) |
| 60-69 years | 4 (33.3) | 8 (66.7) | 12 (38.7) | 0 | 0 (0.0 - 26.5 [‡]) |
| 70 years & over | 3 (30.0) | 7 (70.0) | 10 (32.3) | 4 | 40.0 (12.2 - 73.8) |
| Total | 10 (32.3) | 21 (67.7) | 31 (67.7) | 4 | 12.9 (3.6 - 29.8) |

[‡] one sided confidence interval

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

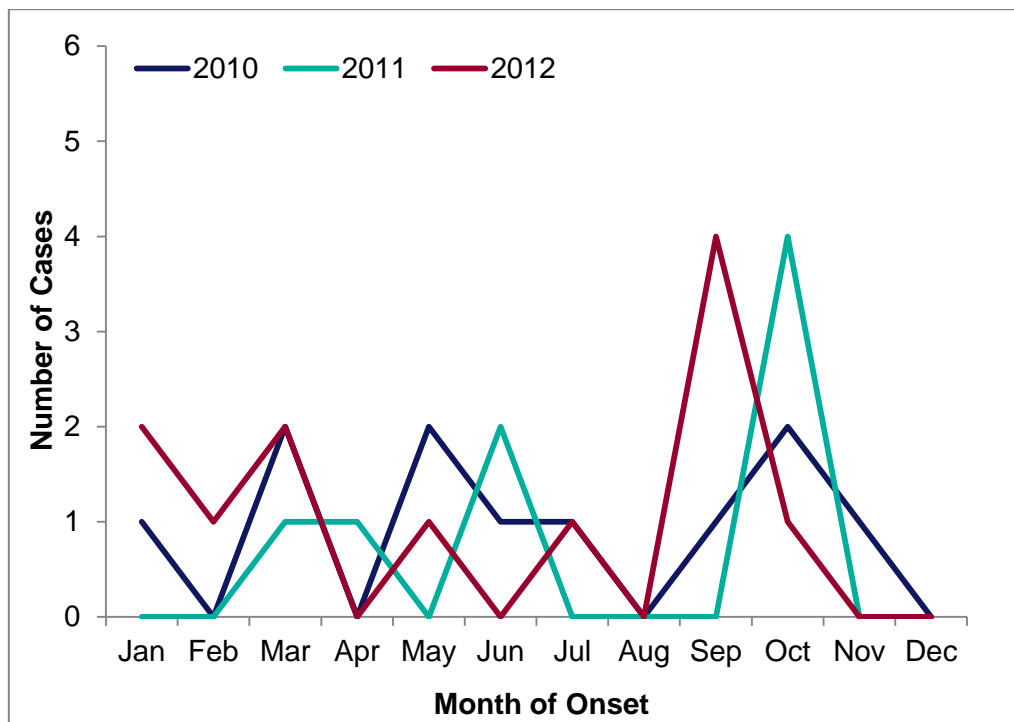


Table 5: Legionnaires' disease cases in residents of Devon, Cornwall and Somerset by diagnostic test and year of onset; 2010 - 2012~

| | 2010 | 2011 | 2012 | Total (2010-2012) | National Total (2010-2012) |
|---------------------------------|-----------|----------|-----------|----------------------|----------------------------------|
| Case Numbers[†] | 11 | 8 | 12 | 31 | 898 |
| Culture | 1 | 1 | 2 | 4 | 180 (20.0) |
| Urine | 11 | 8 | 12 | 31 | 881 (98.0) |
| Serology (SHT) | - | - | - | - | 13 (1.5) |
| Serology (FFR) | - | - | - | - | 3 (0.3) |
| PCR | 1 | - | 2 | 3 | 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 Devon, Cornwall and Somerset by Local Authority (Upper-Tier) and year of onset; 2010 – 2012

| Local Authority | 2010 | 2011 | 2012 | Total (2010-2012) |
|------------------------|-------------|-------------|-------------|------------------------------|
| Cornwall UA | 2 | 1 | 4 | 7 |
| Exeter | 1 | 2 | - | 3 |
| Mendip | 2 | 1 | 3 | 6 |
| Mid Devon | - | 1 | 1 | 2 |
| North Devon | 1 | - | - | 1 |
| Plymouth | 2 | 2 | 1 | 5 |
| South Hams | 2 | - | - | 2 |
| South Somerset | - | - | 2 | 2 |
| Teignbridge | 1 | - | - | 1 |
| West Devon | - | 1 | 1 | 2 |
| Total | 11 | 8 | 12 | 31 |

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

| Outbreak/Clusters |
|--|
| No outbreaks or clusters were identified with association to Devon, Cornwall and Somerset. |

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