



Laboratory reports of *Mycoplasma pneumoniae* infection made to CIDSC from PHE and NHS laboratories in England and Wales: January to March 2016.

Background

These analyses are based on laboratory reports of *Mycoplasma pneumoniae* (Mpn) from January to March 2016 in England and Wales (EW), extracted from Public Health England's (PHE) voluntary surveillance database Second Generation Surveillance System (SGSS), with data from the past five years shown for comparison and context.

Laboratory reports included were limited to the following methods and samples:

- Serological methods: on blood, serum or plasma
- Genomic methods, including polymerase chain reaction (PCR): on blood, serum, plasma, throat, nose/nasal, bronchial, upper respiratory tract, broncho-alveolar lavage (BAL), alveolar, naso-pharyngeal aspirate (NPA), endotracheal aspirate, trachea or sputum

The data presented here may differ in some instances from those in earlier publications, partly due to the inclusion of late reports.

Rates of laboratory detection were calculated using mid-year resident population estimates for the respective year [1]. Geographical analyses were based on location of the reporting laboratory.

It is recommended that results from serological analyses are interpreted with caution, as genomic methods are considered to produce a more robust indication of acute infection.

The increase in cases observed in early 2016 was reported in [HPR](#) [2] in March 2016

Overall Mpn cases reported: January 2011 to March 2016

Table 1: Cases of Mpn reported, by genomic methods.

Year	Cases	Gender			Overall annual rate of detection/million population
		Male	Female	Unknown	
2011	10	8	0	2	0.18
2012	14	7	7	0	0.25
2013	8	4	4	0	0.14
2014	52	29	23	0	0.91
2015	161	78	83	0	2.80
2016*	120	64	56	0	*

*Data up to the end of March 2016 only

Table 2: Cases of Mpn reported, by serological methods.

Year	Cases	Gender			Overall annual rate of detection/million population
		Male	Female	Unknown	
2011	564	264	293	7	10.04
2012	644	322	314	8	11.38
2013	462	230	230	2	8.11
2014	377	182	193	2	6.57
2015	417	210	206	1	7.26
2016*	174	95	77	2	*

*Data up to the end of March 2016 only

Table 3: Cases of Mpn by age group, reported by genomic methods.

Year	Number of cases per age group in years (%)							Total cases
	0-4	5-9	10-14	15-44	45-64	65+	Unknown	
2011	1 (10.0)	2 (20.0)	0 (0.0)	4 (40.0)	3 (30.0)	0 (0.0)	0 (0.0)	10
2012	3 (21.4)	3 (21.4)	0 (0.0)	6 (42.9)	1 (7.1)	1 (7.1)	0 (0.0)	14
2013	2 (25.0)	0 (0.0)	1 (12.5)	3 (37.5)	2 (25.0)	0 (0.0)	0 (0.0)	8
2014	20 (38.5)	9 (17.3)	0 (0.0)	19 (36.5)	3 (5.8)	1 (1.9)	0 (0.0)	52
2015	53 (32.9)	17 (10.6)	6 (3.7)	58 (36.0)	16 (9.9)	11 (6.8)	0 (0.0)	161
2016*	39 (32.5)	15 (12.5)	3 (2.5)	50 (41.7)	10 (8.3)	3 (2.5)	0 (0.0)	120

*Data up to the end of March 2016 only

Table 4: Cases of Mpn by age group, reported by serological methods.

Year	Number of cases per age group in years (%)							Total cases
	0-4	5-9	10-14	15-44	45-64	65+	Unknown	
2011	63 (11.2)	101 (17.9)	65 (11.5)	216 (38.3)	69 (12.2)	49 (8.7)	1 (0.2)	564
2012	79 (12.5)	80 (12.4)	65 (10.1)	237 (36.8)	115 (17.9)	68 (10.6)	0 (0.0)	644
2013	33 (7.1)	54 (11.7)	41 (8.9)	151 (32.7)	102 (22.1)	81 (17.5)	0 (0.0)	462
2014	27 (7.2)	36 (9.5)	27 (7.2)	152 (40.3)	60 (15.9)	74 (19.6)	1 (0.3)	377
2015	26 (6.2)	49 (11.8)	32 (7.7)	162 (38.8)	87 (20.9)	60 (14.4)	1 (0.2)	417
2016*	15 (8.6)	16 (9.2)	17 (9.8)	69 (39.7)	29 (16.7)	27 (15.5)	1 (0.6)	174

*Data up to the end of March 2016 only

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References

1. Office for National Statistics (ONS) mid-year population estimates for England and Wales, <http://www.ons.gov.uk/ons/rel/pop-estimate/population-estimates-for-uk--england-and-wales--scotland-and-northern-ireland/index.html>.
2. Public Health England. Health Protection Report volume 10 issue 9: news (4 March)

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Figure 1: Laboratory detection of Mpn in England and Wales (3-weekly moving average January 2010 to March 2016).

