



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

Background

These analyses are based on laboratory reports of *Mycoplasma pneumoniae* (Mpn) from July to September 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 full 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 from those in earlier publications, due to the inclusion of late reports, for instance.

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.

Overall Mpn cases reported: January 2011 to September 2016

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

Year	Cases	Gender			Overall 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*	215	108	107	0	-

*Includes data up to the end of September 2016 only

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

Year	Cases	Gender			Overall 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*	356	187	167	2	-

*Includes data up to the end of September 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*	65 (30.2)	21 (9.8)	7 (3.3)	95 (44.2)	21 (9.8)	6 (2.8)	0 (0.0)	215

*Includes data up to the end of September 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*	29 (8.1)	38 (10.7)	31 (8.7)	139 (39.0)	66 (18.5)	51 (14.3)	2 (0.8)	356

*Includes data up to the end of September 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>.

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

