



Laboratory reports of *Mycoplasma pneumoniae* infection made to CIDSC from PHE and NHS laboratories in England and Wales: January to March 2018.

Background

These analyses are based on laboratory reports of *Mycoplasma pneumoniae* from January to March 2018 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
- Nucleic acid amplification testing (NAAT), 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 NAAT methods are considered to produce a more robust indication of acute infection.

Overall *M. pneumoniae* cases reported: January 2013 to March 2018

Table 1: Cases of *M. pneumoniae* reported, by NAAT methods.

Year	Cases	Gender			Overall annual rate of detection/million population
		Male	Female	Unknown	
2013	8	4	4	0	0.14
2014	52	29	23	0	0.91
2015	161	78	83	0	2.78
2016	241	119	122	0	4.12
2017	65	35	30	0	1.11
2018*	24	13	11	0	-

*Includes data up to the end of March 2018 only

Table 2: Cases of *M. pneumoniae* reported, by serological methods.

Year	Cases	Gender			Overall annual rate of detection/million population
		Male	Female	Unknown	
2013	462	230	230	2	8.11
2014	377	182	193	2	6.57
2015	417	210	206	1	7.20
2016	462	232	226	4	7.91
2017	485	248	235	2	8.30
2018*	108	57	50	1	-

*Includes data up to the end of March 2018 only

Table 3: Cases of *M. pneumoniae* by age group, reported by NAAT methods.

Year	Number of cases per age group in years (%)							Total cases
	0-4	5-9	10-14	15-44	45-64	65+	Unknown	
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	76 (31.5)	22 (9.1)	7 (2.9)	103 (42.7)	27 (11.2)	6 (2.5)	0 (0.0)	241
2017	17 (26.2)	4 (6.2)	5 (7.7)	22 (33.8)	13 (20.0)	4 (6.2)	0 (0.0)	65
2018*	14 (58.3)	1 (4.2)	0 (0.0)	6 (25.0)	2 (8.3)	1 (4.2)	0 (0.0)	24

*Includes data up to the end of March 2018 only

Table 4: Cases of *M. pneumoniae* 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	
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	38 (8.2)	47 (10.2)	42 (9.1)	181 (39.2)	81 (17.5)	69 (14.9)	4 (0.9)	462
2017	51 (10.5)	69 (14.2)	59 (12.2)	158 (32.6)	76 (15.7)	72 (14.8)	0 (0.0)	485
2018*	6 (5.6)	19 (17.6)	9 (8.3)	35 (32.4)	17 (15.7)	22 (20.4)	0 (0.0)	108

*Includes data up to the end of March 2018 only

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This report is only made possible by the weekly contributions from microbiology colleagues in laboratories across England and Wales.

Information is available to the public about the specific work that PHE do and why we require information about people's health. It also explains who we sometimes share the information with, how we protect the information we use, and what the public's options are with regards to any information we may hold about them.

(https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/421854/PHE_fair_processing_notice.pdf).

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 *M. pneumoniae* in England and Wales (3-weekly moving average) January 2010 to March 2018.

