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# Clinical Significance, Species Distribution, and Temporal Trends of Nontuberculous Mycobacteria, Denmark, 1991–2022

## Appendix

**Appendix Table 1.** Species distribution of nontuberculous mycobacteria by disease categories\* in Denmark from 1991–2022.

Species**	Definite disease, n (%)	Possible disease, n (%)	Isolation, n (%)
<i>M. avium</i> complex	1,478 (58)	692 (27)	377 (15)
<i>M. avium</i>	1,296 (63)	482 (24)	268 (13)
<i>M. intracellulare</i>	130 (39)	137 (41)	67 (20)
<i>M. chimaera</i>	38 (32)	52 (44)	29 (24)
Other/unspecified	14 (29)	21 (44)	13 (27)
<i>M. abscessus-chelonae</i> complex	132 (48)	46 (17)	97 (35)
<i>M. xenopi</i> group	86 (37)	72 (31)	73 (32)
<i>M. fortuitum-smegmatis</i> group	31 (15)	54 (27)	117 (58)
<i>M. malmoense</i>	114 (68)	31 (18)	23 (14)
<i>M. marinum</i>	128 (100)	0	0
<i>M. celatum</i> group	47 (40)	42 (36)	28 (24)
<i>M. kansasii</i>	45 (56)	27 (33)	9 (11)
<i>M. simiae</i> complex	19 (44)	12 (28)	12 (28)
<i>M. parascrofulaceum/scrofulaceum</i>	8 (20)	7 (18)	25 (62)
<i>M. szulgai</i>	15 (38)	16 (41)	8 (21)
<i>M. interjectum</i>	6 (27)	4 (18)	12 (55)
<i>M. terrae</i> group	3 (17)	4 (22)	11 (61)
<i>M. phocaicum/mucogenicum</i>	2 (12)	2 (12)	13 (76)
Other***	44 (23)	51 (26)	100 (51)
Total, n = 4123 (%)	2158 (52)	1060 (26)	905 (22)

\*See methods for criteria.

\*\*Species were grouped using phylogenetic classifications described by Tortoli et al. (1).

\*\*\*Defined as *Mycobacteria* spp. and species with n < 15 throughout the study period.

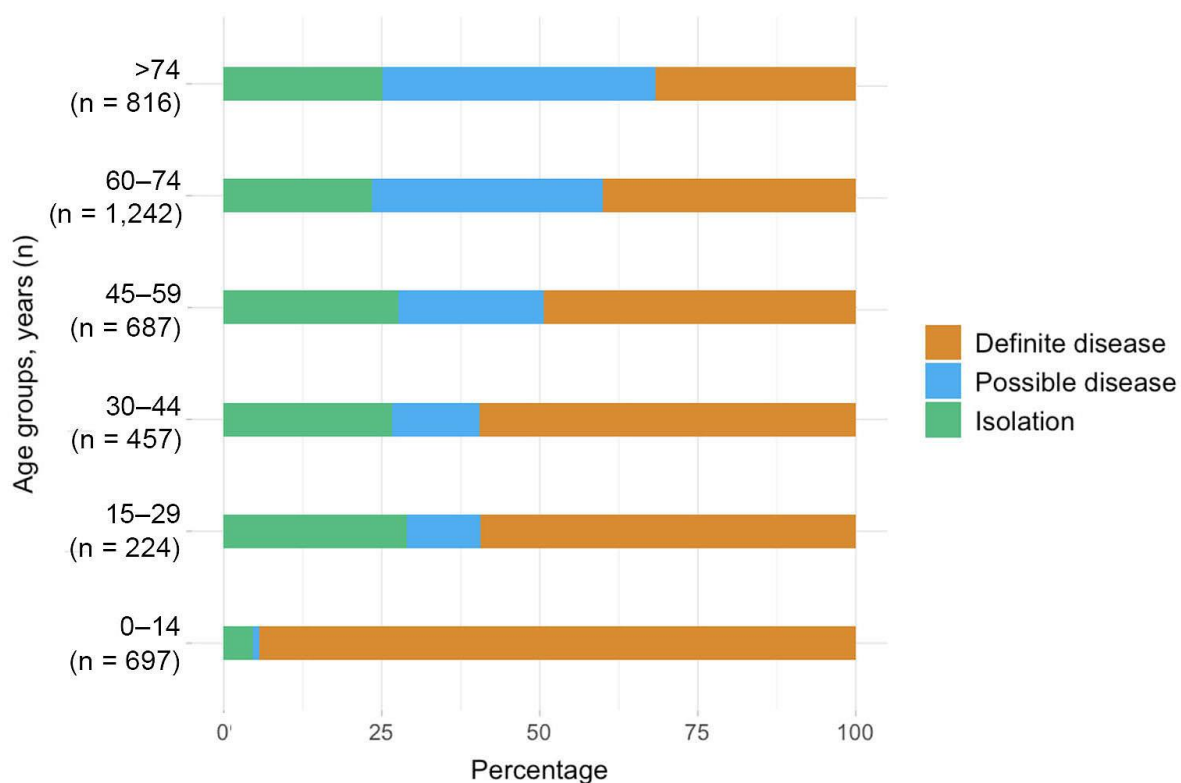
**Appendix Table 2.** Species distribution of nontuberculous mycobacteria by disease localization in Denmark from 1991–2022.

Species*	Pulmonary, n (%)	Extra-pulmonary, n (%)	Disseminated, n (%)**
<i>M. avium</i> complex	1,640 (58)	763 (69)	144 (87)
<i>M. avium</i>	1,172 (57)	735 (36)	139 (6.8)
<i>M. intracellulare</i>	315 (94)	17 (5.1)	2 (0.6)
<i>M. chimaera</i>	115 (97)	2 (1.7)	2 (1.7)
Other/unspecified	38 (79)	9 (19)	1 (2.1)
<i>M. abscessus-chelonae</i> complex	215 (78)	54 (20)	6 (2.2)
<i>M. xenopi</i> group	221 (96)	6 (2.6)	4 (1.7)
<i>M. fortuitum-smegmatis</i> group	179 (89)	22 (11)	1 (0.5)
<i>M. malmoense</i>	121 (72)	46 (27)	1 (0.6)
<i>M. marinum</i>	0	128 (100)	0
<i>M. celatum</i> group	103 (88)	13 (11)	1 (0.9)
<i>M. kansasii</i>	66 (81)	10 (12)	5 (6.2)
<i>M. simiae</i> complex	33 (77)	8 (19)	2 (4.7)
<i>M. parascrofulaceum/scrofulaceum</i>	35 (88)	4 (10)	1 (2.5)
<i>M. szulgai</i>	37 (95)	2 (5.1)	0
<i>M. interjectum</i>	18 (82)	4 (18)	0
<i>M. terrae</i> group	15 (83)	3 (17)	0
<i>M. phocaicum/mucogenicum</i>	15 (88)	2 (12)	0
Other***	153 (78)	41 (21)	1 (0.5)
Total, n = 4123 (%)	2851 (69)	1106 (27)	166 (4)

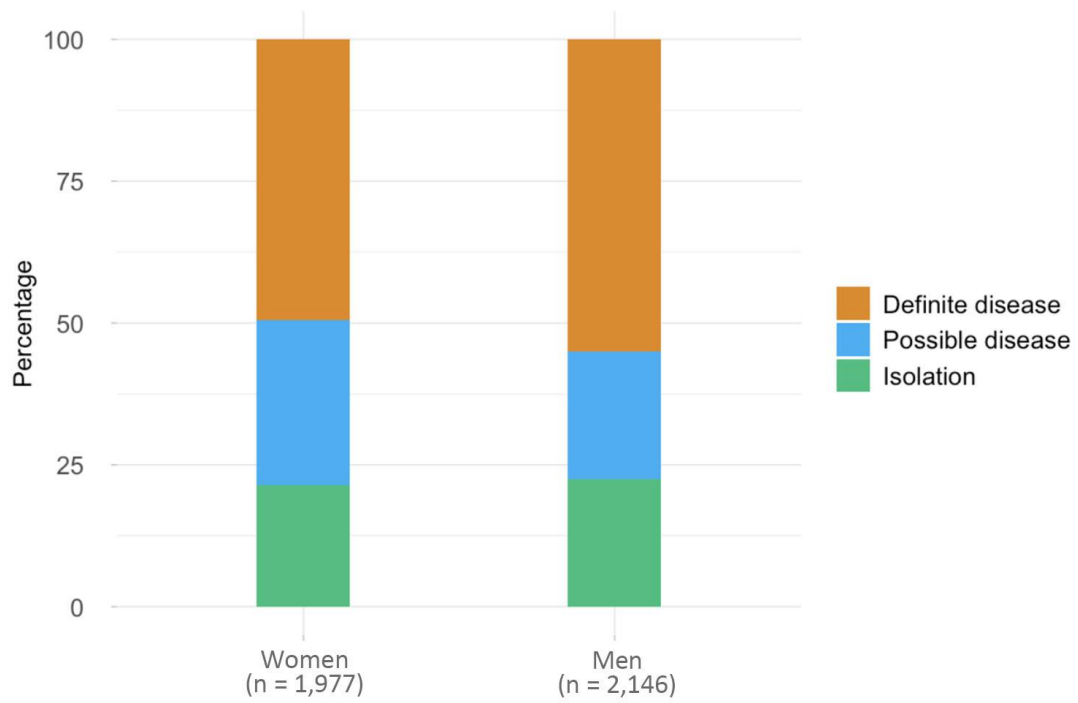
\*Species were grouped using phylogenetic classifications described by Tortoli et al. (1).

\*\*Patients with samples from both pulmonary and extra-pulmonary locations were categorized as disseminated disease.

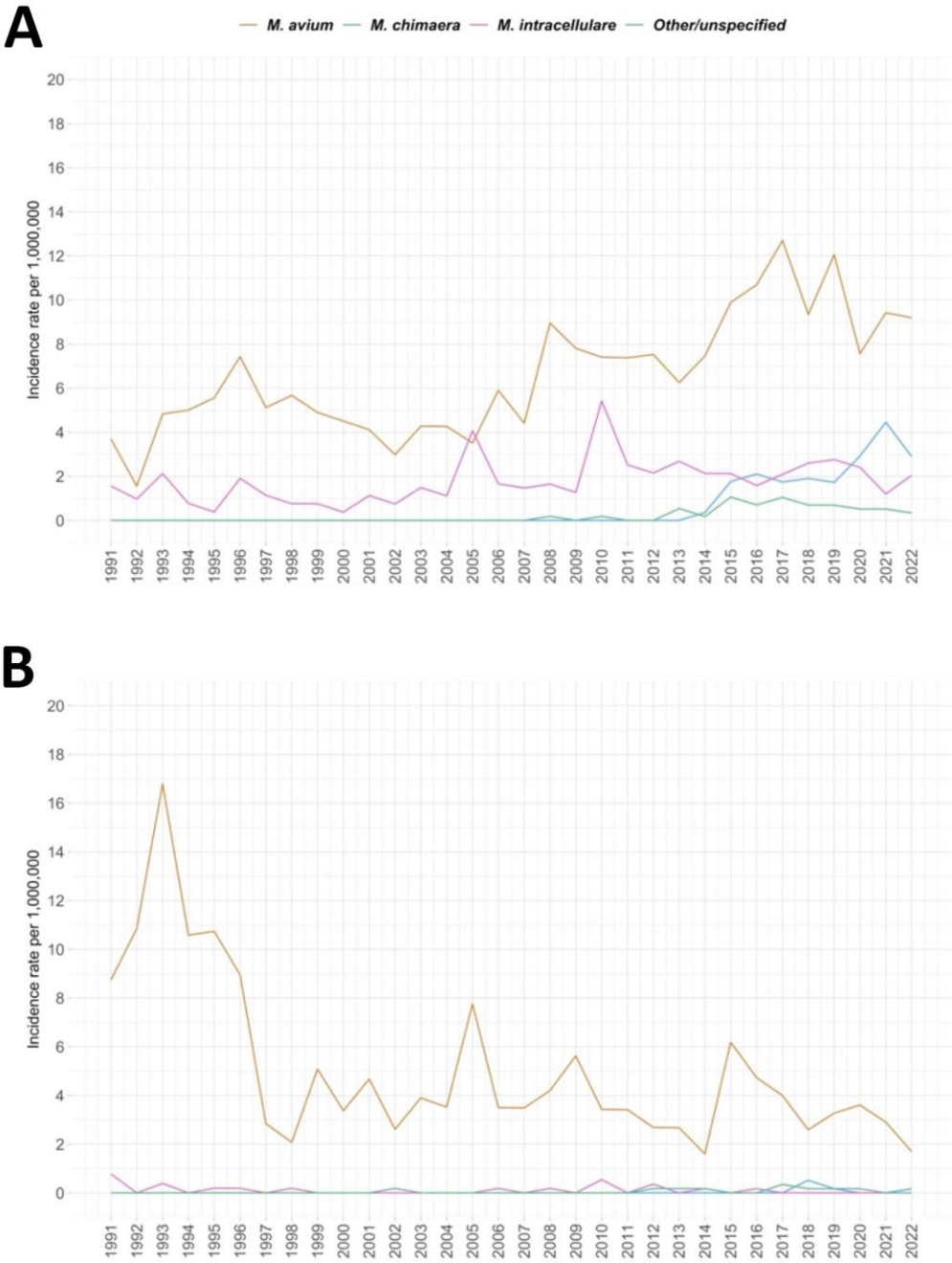
\*\*\*Defined as *Mycobacteria* spp. and species with n < 15 throughout the study period.



**Appendix Figure 1.** Clinical significance of nontuberculous mycobacteria by age groups in Denmark from 1991–2022. See methods for criteria.



**Appendix Figure 2.** Clinical significance of nontuberculous mycobacteria by sex in Denmark from 1991–2022. See methods for criteria.



**Appendix Figure 3.** Annual incidence rates (infections/1,000,000 persons) of unique patients with a first culture positive for *M. avium* complex Denmark from 1991–2022 by subspecies for patients with pulmonary (Panel A) and extrapulmonary and disseminated nontuberculous mycobacteria (Panel B). Patients with samples from both pulmonary and extrapulmonary locations were categorized as disseminated disease. Species were grouped using phylogenetic classifications described by Tortoli et al. (1).

## Reference

1. Tortoli E, Fedrizzi T, Meehan CJ, Trovato A, Grottola A, Giacobazzi E, et al. The new phylogeny of the genus *Mycobacterium*: the old and the news. *Infect Genet Evol.* 2017;56:19–25. [PubMed](#)  
<https://doi.org/10.1016/j.meegid.2017.10.013>