

Wisconsin Mycobacteriology Laboratory Network Data Report | 2019

There were 51 new Report-Verified Cases of Tuberculosis in Wisconsin in 2019. 48 Wisconsin patients had culture-confirmed tuberculosis with susceptibility testing performed.

Number of Wisconsin Patients with New Isolations of *Mycobacterium tuberculosis* complex:

County of Residence	Clark	Dane	Kenosha	La Crosse	Marathon	Milwaukee	Outagamie	Ozaukee	Portage	Rock	Shawano	St. Croix	Vilas	Waukesha	Wood	TOTALS
Pulmonary	0	6	1	1	0	16	1	1	2	0	1	0	1	5	1	36
Extra-pulmonary	1	2	0	0	1	3	1	0	0	1	0	1	0	2	0	12
Totals	1	8	1	1	1	19	2	1	2	1	1	1	1	7	1	48

(*)Extra-Pulmonary sources of isolation: 3 lymph node, 2 pleural, 1 epidural, 1 spine, 2 neck, 1 skin, 1 blood, 1 peritoneal

<i>M. tuberculosis</i> complex First-Line Drug Susceptibility Testing[§]	
Susceptible to all first-line drugs	37
Resistant to INH (0.2 ug/ml) only	3
Resistant to both INH concentrations	1
Resistant to rifampin only	1
Resistant to ethambutol only	0
PZA resistant	2
PZA indeterminate	0
poly-resistant	2
Multi-drug resistant (MDR) [#]	0
non-viable, unable to perform	2*
TOTAL	48

(§)TB First-Line Drugs tested: isoniazid (INH) 0.2 and 1.0 ug/ml, rifampin 1.0 ug/ml, ethambutol 5.0 ug/ml, pyrazinamide (PZA) 100 ug/ml.

(#) MDR = resistant to at least INH and rifampin.

(*) These isolates were tested at CDC and presumed pan-susceptible via molecular detection of drug resistance testing and/or agar proportion testing

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Continued	Brown	Dane	Eau Claire	Fond du Lac	Kenosha	La Crosse	Manitowoc	Marathon	Milwaukee	Outagamie	Portage	Racine	Sauk	Sheboygan	Waukesha	Winnebago	Wood	
<i>M. lentiflavum</i>		1			1					4								6
<i>M. llatzerense</i>									1									1
<i>M. mageritense</i>									1	1								2
<i>M. malmoense</i>				1														1
<i>M. marinum</i>	1																	1
<i>M. mucogenicum</i>						1			1	2								4
<i>M. mucogenicum</i> group		1							6	5	1							13
<i>M. nebraskense</i>						1											1	2
<i>M. neoaurum</i>									1									1
<i>M. paraffinicum</i>	1				2				1									4
<i>M. peregrinum</i>		10	1			1			6								1	19
<i>M. phlei</i>		1																1
<i>M. porcinum</i>											1			1				2
<i>M. scrofulaceum</i>		1																1
<i>M. septicum</i>					1	2												3
<i>M. setense</i>														1				1
<i>M. shimoidei</i>								1										1
<i>M. simiae</i>		1							1									2
<i>M. simiae</i> complex																	1	1
<i>M. smegmatis</i>										1								1
<i>M. triplex</i>		1																1
<i>M. wolinskyi</i>									1									1
<i>M. xenopi</i>	2	6						1	10									19
Other Mycobacteria									1	1								2
Totals	23	164	33	19	20	40	1	27	942	91	11	1	1	9	1	1	21	1405

Table 1. Mycobacteria Groups and Complexes

Name	Species within group or complex (This list may not be exhaustive.)
<i>M. avium</i> complex ¹	<i>avium</i> subsp. <i>avium</i> , <i>avium</i> subsp. <i>silvaticum</i> , <i>avium</i> subsp. <i>paratuberculosis</i> , <i>avium</i> subsp. <i>hominissuis</i> , <i>intracellulare</i> , <i>chimaera</i> , <i>colombiense</i> , <i>vulneris</i> , <i>marseillense</i> , <i>timonense</i> , <i>bouchedurhonense</i> .
<i>M. chelonae-abscessus</i> group ¹	<i>chelonae</i> , <i>immunogenum</i> , <i>abscessus</i> subsp. <i>abscessus</i> , <i>abscessus</i> subsp. <i>bolletii</i> , <i>massiliense</i> , <i>salmoniphilum</i> , (<i>franklinii</i> , proposed)
<i>M. fortuitum</i> group ¹	<i>fortuitum</i> , <i>peregrinum</i> , <i>senegalense</i> , <i>setense</i> , <i>septicum</i> , <i>porcinum</i> , <i>houstonense</i> , <i>boenickei</i> , <i>brisbanense</i> , <i>neworleansense</i> , <i>alvei</i> , (<i>conceptionense</i> , proposed)
<i>M. mucogenicum</i> group ⁵	<i>mucogenicum</i> , <i>aubagnense</i> , <i>phocaicum</i>
<i>M. simiae</i> complex ^{3,4}	<i>simiae</i> , <i>genavense</i> , <i>triplex</i> , <i>lentiflavum</i> , <i>heidelbergense</i> , <i>europaeum</i>
<i>M. tuberculosis</i> complex ¹	<i>tuberculosis</i> , <i>bovis</i> , <i>bovis BCG</i> , <i>africanum</i> , <i>caprae</i> , <i>microti</i> , <i>canetti</i> , <i>pinnipedii</i> , <i>mungi</i>

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