

Table 39. Tuberculosis Risk Factors¹: Reporting Areas, 2016

Reporting area	Total	MDR patient contact		Missed contact		Infectious TB patient contact		Incomplete LTBI therapy		Diabetes mellitus		Renal disease		TNF- α inhibitors		Post-organ transplantation		Immuno-suppression		Other		None		Missing ²	
		No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)
United States	9,272	9	(0.1)	53	(0.6)	634	(6.8)	208	(2.2)	1,524	(16.4)	210	(2.3)	56	(0.6)	53	(0.6)	409	(4.4)	2,155	(23.2)	4,101	(44.2)	600	(6.5)
Alabama	112	0	(0)	4	(3.6)	23	(20.5)	4	(3.6)	9	(8.0)	0	(0)	0	(0)	1	(0.9)	6	(5.4)	10	(8.9)	61	(54.5)	0	(0)
Alaska	57	0	(0)	0	(0)	17	(29.8)	4	(7.0)	2	(3.5)	1	(1.8)	0	(0)	0	(0)	0	(0)	1	(1.8)	32	(56.1)	0	(0)
Arizona	188	1	(0.5)	0	(0)	4	(2.1)	4	(2.1)	39	(20.7)	4	(2.1)	1	(0.5)	1	(0.5)	3	(1.6)	28	(14.9)	121	(64.4)	0	(0)
Arkansas	91	0	(0)	3	(3.3)	21	(23.1)	11	(12.1)	7	(7.7)	1	(1.1)	0	(0)	0	(0)	3	(3.3)	21	(23.1)	36	(39.6)	1	(1.1)
California	2,062	1	(0)	6	(0.3)	84	(4.1)	27	(1.3)	464	(22.5)	75	(3.6)	13	(0.6)	9	(0.4)	91	(4.4)	613	(29.7)	870	(42.2)	37	(1.8)
Colorado	64	0	(0)	0	(0)	2	(3.1)	2	(3.1)	20	(31.3)	6	(9.4)	0	(0)	1	(1.6)	2	(3.1)	3	(4.7)	35	(54.7)	0	(0)
Connecticut	52	0	(0)	0	(0)	1	(1.9)	0	(0)	6	(11.5)	1	(1.9)	0	(0)	0	(0)	1	(1.9)	25	(48.1)	21	(40.4)	0	(0)
Delaware	16	0	(0)	0	(0)	0	(0)	2	(12.5)	1	(6.3)	0	(0)	0	(0)	0	(0)	1	(6.3)	10	(62.5)	3	(18.8)	0	(0)
District of Columbia	25	1	(4.0)	0	(0)	0	(0)	0	(0)	1	(4.0)	0	(0)	0	(0)	0	(0)	0	(0)	2	(8.0)	21	(84.0)	0	(0)
Florida	639	0	(0)	6	(0.9)	54	(8.5)	18	(2.8)	75	(11.7)	13	(2.0)	0	(0)	4	(0.6)	58	(9.1)	140	(21.9)	295	(46.2)	0	(0)
Georgia	302	0	(0)	2	(0.7)	48	(15.9)	16	(5.3)	51	(16.9)	6	(2.0)	2	(0.7)	2	(0.7)	13	(4.3)	78	(25.8)	130	(43.0)	5	(1.7)
Hawaii	119	0	(0)	0	(0)	8	(6.7)	4	(3.4)	47	(39.5)	4	(3.4)	0	(0)	0	(0)	2	(1.7)	18	(15.1)	46	(38.7)	4	(3.4)
Idaho	18	0	(0)	0	(0)	6	(33.3)	0	(0)	5	(27.8)	1	(5.6)	1	(5.6)	0	(0)	0	(0)	0	(0)	4	(22.2)	3	(16.7)
Illinois	342	0	(0)	2	(0.6)	41	(12.0)	6	(1.8)	48	(14.0)	12	(3.5)	3	(0.9)	4	(1.2)	18	(5.3)	35	(10.2)	197	(57.6)	3	(0.9)
Indiana	109	0	(0)	0	(0)	12	(11.0)	3	(2.8)	17	(15.6)	0	(0)	1	(0.9)	1	(0.9)	5	(4.6)	17	(15.6)	56	(51.4)	2	(1.8)
Iowa	48	0	(0)	0	(0)	1	(2.1)	4	(8.3)	5	(10.4)	0	(0)	1	(2.1)	0	(0)	7	(14.6)	0	(0)	22	(45.8)	9	(18.8)
Kansas	39	0	(0)	0	(0)	1	(2.6)	0	(0)	5	(12.8)	0	(0)	1	(2.6)	0	(0)	2	(5.1)	3	(7.7)	26	(66.7)	1	(2.6)
Kentucky	91	0	(0)	0	(0)	10	(11.0)	2	(2.2)	11	(12.1)	2	(2.2)	1	(1.1)	0	(0)	10	(11.0)	30	(33.0)	35	(38.5)	0	(0)
Louisiana	127	0	(0)	6	(4.7)	5	(3.9)	1	(0.8)	20	(15.7)	1	(0.8)	1	(0.8)	1	(0.8)	5	(3.9)	10	(7.9)	54	(42.5)	25	(19.7)
Maine	23	0	(0)	0	(0)	3	(13.0)	2	(8.7)	2	(8.7)	0	(0)	0	(0)	0	(0)	3	(13.0)	5	(21.7)	9	(39.1)	0	(0)
Maryland	220	1	(0.5)	2	(0.9)	13	(5.9)	2	(0.9)	34	(15.5)	5	(2.3)	5	(2.3)	1	(0.5)	9	(4.1)	33	(15.0)	123	(55.9)	4	(1.8)
Massachusetts	190	0	(0)	1	(0.5)	7	(3.7)	3	(1.6)	11	(5.8)	7	(3.7)	0	(0)	1	(0.5)	0	(0)	36	(18.9)	132	(69.5)	3	(1.6)
Michigan	133	0	(0)	0	(0)	4	(3.0)	10	(7.5)	10	(7.5)	2	(1.5)	1	(0.8)	3	(2.3)	5	(3.8)	47	(35.3)	0	(0)	58	(43.6)
Minnesota	168	1	(0.6)	0	(0)	13	(7.7)	8	(4.8)	17	(10.1)	1	(0.6)	0	(0)	1	(0.6)	6	(3.6)	72	(42.9)	67	(39.9)	0	(0)
Mississippi	61	0	(0)	0	(0)	2	(3.3)	2	(3.3)	3	(4.9)	0	(0)	0	(0)	0	(0)	1	(1.6)	52	(85.2)	6	(9.8)	1	(1.6)
Missouri	101	0	(0)	0	(0)	18	(17.8)	0	(0)	10	(9.9)	1	(1.0)	0	(0)	0	(0)	13	(12.9)	16	(15.8)	51	(50.5)	2	(2.0)
Montana	4	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	4	(100.0)	0	(0)	0	(0)
Nebraska	28	0	(0)	1	(3.6)	5	(17.9)	1	(3.6)	4	(14.3)	1	(3.6)	0	(0)	0	(0)	1	(3.6)	6	(21.4)	3	(10.7)	6	(21.4)
Nevada	56	0	(0)	0	(0)	2	(3.6)	1	(1.8)	14	(25.0)	0	(0)	0	(0)	0	(0)	2	(3.6)	3	(5.4)	34	(60.7)	1	(1.8)
New Hampshire	15	0	(0)	1	(6.7)	2	(13.3)	1	(6.7)	3	(20.0)	1	(6.7)	0	(0)	0	(0)	0	(0)	3	(20.0)	8	(53.3)	0	(0)
New Jersey	294	0	(0)	2	(0.7)	17	(5.8)	4	(1.4)	58	(19.7)	8	(2.7)	1	(0.3)	2	(0.7)	32	(10.9)	30	(10.2)	153	(52.0)	10	(3.4)
New Mexico	39	0	(0)	0	(0)	3	(7.7)	0	(0)	7	(17.9)	3	(7.7)	0	(0)	2	(5.1)	1	(2.6)	12	(30.8)	16	(41.0)	0	(0)

Table 39. (Con't) Tuberculosis Risk Factors¹: Reporting Areas, 2016

Reporting area	Total	MDR patient contact		Missed contact		Infectious TB patient contact		Incomplete LTBI therapy		Diabetes mellitus		Renal disease		TNF- α inhibitors		Post-organ transplantation		Immuno-suppression		Other		None		Missing ²	
		No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)
New York State ³	203	0	(0)	0	(0)	10	(4.9)	4	(2.0)	34	(16.7)	4	(2.0)	4	(2.0)	1	(0.5)	10	(4.9)	34	(16.7)	116	(57.1)	0	(0)
New York City	565	0	(0)	2	(0.4)	19	(3.4)	8	(1.4)	92	(16.3)	7	(1.2)	11	(1.9)	1	(0.2)	30	(5.3)	28	(5.0)	0	(0)	391	(69.2)
North Carolina	219	0	(0)	5	(2.3)	24	(11.0)	11	(5.0)	36	(16.4)	4	(1.8)	2	(0.9)	3	(1.4)	9	(4.1)	71	(32.4)	102	(46.6)	8	(3.7)
North Dakota	22	0	(0)	0	(0)	3	(13.6)	2	(9.1)	3	(13.6)	1	(4.5)	0	(0)	0	(0)	0	(0)	2	(9.1)	12	(54.5)	1	(4.5)
Ohio	140	0	(0)	1	(0.7)	10	(7.1)	6	(4.3)	21	(15.0)	2	(1.4)	2	(1.4)	1	(0.7)	7	(5.0)	16	(11.4)	73	(52.1)	1	(0.7)
Oklahoma	78	0	(0)	2	(2.6)	15	(19.2)	3	(3.8)	13	(16.7)	0	(0)	0	(0)	0	(0)	6	(7.7)	19	(24.4)	36	(46.2)	0	(0)
Oregon	70	1	(1.4)	1	(1.4)	3	(4.3)	0	(0)	10	(14.3)	2	(2.9)	1	(1.4)	0	(0)	4	(5.7)	14	(20.0)	38	(54.3)	1	(1.4)
Pennsylvania	173	0	(0)	1	(0.6)	6	(3.5)	3	(1.7)	23	(13.3)	5	(2.9)	1	(0.6)	4	(2.3)	9	(5.2)	35	(20.2)	95	(54.9)	3	(1.7)
Rhode Island	12	0	(0)	0	(0)	0	(0)	0	(0)	2	(16.7)	1	(8.3)	0	(0)	0	(0)	0	(0)	2	(16.7)	7	(58.3)	0	(0)
South Carolina	102	0	(0)	0	(0)	17	(16.7)	8	(7.8)	11	(10.8)	3	(2.9)	0	(0)	1	(1.0)	8	(7.8)	2	(2.0)	56	(54.9)	0	(0)
South Dakota	12	0	(0)	0	(0)	1	(8.3)	1	(8.3)	1	(8.3)	0	(0)	0	(0)	0	(0)	1	(8.3)	4	(33.3)	5	(41.7)	0	(0)
Tennessee	103	0	(0)	0	(0)	10	(9.7)	7	(6.8)	9	(8.7)	1	(1.0)	0	(0)	1	(1.0)	8	(7.8)	19	(18.4)	54	(52.4)	0	(0)
Texas	1,250	1	(0.1)	2	(0.2)	62	(5.0)	1	(0.1)	190	(15.2)	11	(0.9)	0	(0)	4	(0.3)	0	(0)	472	(37.8)	569	(45.5)	0	(0)
Utah	20	0	(0)	1	(5.0)	0	(0)	1	(5.0)	7	(35.0)	0	(0)	1	(5.0)	0	(0)	0	(0)	1	(5.0)	10	(50.0)	0	(0)
Vermont	5	0	(0)	0	(0)	0	(0)	1	(20.0)	1	(20.0)	0	(0)	0	(0)	0	(0)	1	(20.0)	5	(100.0)	0	(0)	0	(0)
Virginia	205	0	(0)	0	(0)	10	(4.9)	3	(1.5)	29	(14.1)	9	(4.4)	0	(0)	2	(1.0)	7	(3.4)	23	(11.2)	135	(65.9)	0	(0)
Washington	205	0	(0)	1	(0.5)	14	(6.8)	5	(2.4)	28	(13.7)	2	(1.0)	2	(1.0)	1	(0.5)	7	(3.4)	33	(16.1)	101	(49.3)	18	(8.8)
West Virginia	14	1	(7.1)	0	(0)	0	(0)	1	(7.1)	5	(35.7)	0	(0)	0	(0)	0	(0)	1	(7.1)	5	(35.7)	4	(28.6)	0	(0)
Wisconsin	40	1	(2.5)	1	(2.5)	3	(7.5)	1	(2.5)	3	(7.5)	2	(5.0)	0	(0)	0	(0)	1	(2.5)	7	(17.5)	21	(52.5)	1	(2.5)
Wyoming	1	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	1	(100.0)
American Samoa ⁴	1	0	(0)	0	(0)	0	(0)	0	(0)	1	(100.0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)
Fed. States of Micronesia ⁴	126	0	(0)	1	(0.8)	34	(27.0)	0	(0)	6	(4.8)	0	(0)	0	(0)	0	(0)	0	(0)	60	(47.6)	14	(11.1)	11	(8.7)
Guam ⁴	75	0	(0)	0	(0)	11	(14.7)	0	(0)	25	(33.3)	2	(2.7)	0	(0)	0	(0)	1	(1.3)	1	(1.3)	17	(22.7)	19	(25.3)
Marshall Islands ⁴	179	4	(2.2)	2	(1.1)	51	(28.5)	0	(0)	57	(31.8)	1	(0.6)	0	(0)	0	(0)	0	(0)	11	(6.1)	64	(35.8)	4	(2.2)
N. Mariana Islands ⁴	27	0	(0)	0	(0)	11	(40.7)	2	(7.4)	4	(14.8)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	1	(3.7)	9	(33.3)
Puerto Rico ⁴	69	0	(0)	0	(0)	13	(18.8)	2	(2.9)	12	(17.4)	0	(0)	1	(1.4)	0	(0)	0	(0)	7	(10.1)	34	(49.3)	0	(0)
Republic of Palau ⁴	21	0	(0)	0	(0)	3	(14.3)	0	(0)	7	(33.3)	0	(0)	0	(0)	0	(0)	4	(19.0)	0	(0)	8	(38.1)	0	(0)
U.S. Virgin Islands ⁴	0	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...

¹Includes the number of risk factors reported (which may be more than one per case) and the number of cases with no information on additional risk factors. The sum of risk factors is greater than the total number of cases because more than one risk factor may be selected per case.

²None of the options for additional risk factors was selected.

³Excludes New York City.

⁴Not included in U.S. totals.

Note: Ellipses (...) indicate that the percentage cannot be calculated, and the denominator is 0.