

## First-Line Drug Susceptibility Results for Tuberculosis Cases by Country of Birth, Minnesota, 2012 - 2016

Country of birth	Isoniazid			Rifampin			Pyrazinamide			Ethambutol			Multi-Drug Resistance**		
	No. Tested*	Resistant		No. Tested*	Resistant		No. Tested*	Resistant		No. Tested*	Resistant		No. Tested*	Resistant	
		No.	%		No.	%		No.	%		No.	%		No.	%
Afghanistan	2	0	0%	2	0	0%	2	0	0%	2	0	0%	2	0	0%
Bangladesh	1	0	0%	1	0	0%	1	0	0%	1	0	0%	1	0	0%
Bhutan	2	0	0%	2	0	0%	2	0	0%	2	0	0%	2	0	0%
Bosnia and Herzegovina	1	0	0%	1	0	0%	1	1	100%	1	0	0%	1	0	0%
Brazil	1	0	0%	1	0	0%	1	0	0%	1	0	0%	1	0	0%
Cambodia	16	1	6%	16	0	0%	16	9	56%	16	0	0%	16	0	0%
Cameroon	5	0	0%	5	0	0%	5	0	0%	5	0	0%	5	0	0%
China	11	1	9%	11	0	0%	10	1	10%	11	0	0%	11	0	0%
Cuba	1	0	0%	1	0	0%	1	0	0%	1	0	0%	1	0	0%
Djibouti	1	0	0%	1	0	0%	1	0	0%	1	0	0%	1	0	0%
Ecuador	6	1	17%	6	0	0%	6	0	0%	6	0	0%	6	0	0%
El Salvador	2	0	0%	2	0	0%	2	0	0%	2	0	0%	2	0	0%
Equatorial Guinea	2	1	50%	2	0	0%	2	0	0%	2	0	0%	2	0	0%
Eritrea	3	0	0%	3	0	0%	3	0	0%	3	0	0%	3	0	0%
Ethiopia	69	8	12%	69	1	1%	69	4	6%	69	2	3%	69	1	1%
Guatemala	7	0	0%	7	0	0%	7	0	0%	7	0	0%	7	0	0%
Guinea	1	0	0%	1	0	0%	1	1	100%	1	0	0%	1	0	0%
Honduras	1	0	0%	1	0	0%	1	0	0%	1	0	0%	1	0	0%
India	28	4	14%	28	1	4%	26	5	19%	28	1	4%	28	1	4%
Indonesia	1	0	0%	1	0	0%	1	0	0%	1	0	0%	1	0	0%
Iraq	3	1	33%	3	1	33%	3	0	0%	3	0	0%	3	1	33%
Israel	1	0	0%	1	0	0%	1	0	0%	1	0	0%	1	0	0%
Kazakhstan	1	1	100%	1	0	0%	1	0	0%	1	0	0%	1	0	0%
Kenya	18	0	0%	18	0	0%	18	1	6%	18	0	0%	18	0	0%
Kuwait	1	1	100%	1	0	0%	1	0	0%	1	0	0%	1	0	0%
Lao People's Democratic Republic	54	17	31%	54	5	9%	53	3	6%	54	10	19%	54	5	9%
Liberia	18	3	17%	18	0	0%	18	0	0%	18	0	0%	18	0	0%
Malaysia	1	0	0%	1	0	0%	1	1	100%	1	0	0%	1	0	0%
Mexico	25	2	8%	25	0	0%	26	3	12%	25	0	0%	25	0	0%

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	No. Tested*	Resistant		No. Tested*	Resistant		No. Tested*	Resistant		No. Tested*	Resistant		No. Tested*	Resistant	
		No.	%		No.	%		No.	%		No.	%		No.	%
Micronesia	1	0	0%	1	0	0%	1	0	0%	1	0	0%	1	0	0%
Mongolia	1	1	100%	1	1	100%	1	1	100%	1	1	100%	1	1	100%
Myanmar	13	1	8%	13	0	0%	13	3	23%	13	0	0%	13	0	0%
Nepal	5	0	0%	5	0	0%	5	1	20%	5	0	0%	5	0	0%
Nigeria	8	0	0%	8	1	12%	8	0	0%	8	0	0%	8	0	0%
Palau	1	0	0%	1	0	0%	1	0	0%	1	0	0%	1	0	0%
Peru	1	1	100%	1	0	0%	1	1	100%	1	0	0%	1	0	0%
Philippines	20	5	25%	20	0	0%	20	3	15%	20	0	0%	20	0	0%
Romania	1	0	0%	1	0	0%	1	0	0%	1	0	0%	1	0	0%
Sierra Leone	2	0	0%	2	0	0%	2	0	0%	2	0	0%	2	0	0%
Somalia	114	6	5%	114	1	1%	114	6	5%	114	1	1%	114	0	0%
South Africa	1	0	0%	1	0	0%	1	0	0%	1	0	0%	1	0	0%
South Sudan	1	0	0%	1	0	0%	1	0	0%	1	0	0%	1	0	0%
Sudan	3	0	0%	3	0	0%	3	0	0%	3	0	0%	3	0	0%
Taiwan	2	0	0%	2	0	0%	2	0	0%	2	0	0%	2	0	0%
Thailand	7	2	29%	7	0	0%	7	1	14%	7	2	29%	7	0	0%
Togo	2	0	0%	2	0	0%	2	0	0%	2	0	0%	2	0	0%
USA	88	9	10%	88	2	2%	88	5	6%	88	0	0%	88	2	2%
Uganda	3	0	0%	3	0	0%	3	0	0%	3	0	0%	3	0	0%
Ukraine	2	0	0%	2	0	0%	2	0	0%	2	0	0%	2	0	0%
United Kingdom	2	1	50%	2	0	0%	2	1	50%	2	0	0%	2	0	0%
Viet Nam	32	6	19%	32	0	0%	30	4	13%	32	0	0%	32	0	0%
Zimbabwe	1	0	0%	1	0	0%	1	0	0%	1	0	0%	1	0	0%
<b>Total</b>	<b>594</b>	<b>73</b>	<b>12%</b>	<b>594</b>	<b>13</b>	<b>2%</b>	<b>589</b>	<b>55</b>	<b>9%</b>	<b>594</b>	<b>17</b>	<b>3%</b>	<b>594</b>	<b>11</b>	<b>2%</b>

\*Culture-confirmed cases of TB disease with drug susceptibility results available

\*\*Resistant to at least isoniazid and rifampin

## First-Line Drug Susceptibility Results for Tuberculosis Cases by Country of Birth, Minnesota, 2012 - 2016

Region of Birth	Isoniazid			Rifampin			Pyrazinamide			Ethambutol			Multi-Drug Resistance**		
	No. Tested*	Resistant		No. Tested*	Resistant		No. Tested*	Resistant		No. Tested*	Resistant		No. Tested*	Resistant	
		No.	%		No.	%		No.	%		No.	%		No.	%
Antarctica	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%
Australia/New Zealand	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%
East Asia/Pacific	37	7	19%	37	1	3%	36	5	14%	37	1	3%	37	1	3%
Eastern Europe	5	1	20%	5	0	0%	5	1	20%	5	0	0%	5	0	0%
Latin America/Caribbean	44	4	9%	44	0	0%	45	4	9%	44	0	0%	44	0	0%
North Africa/Middle East	5	2	40%	5	1	20%	5	0	0%	5	0	0%	5	1	20%
North America	88	9	10%	88	2	2%	88	5	6%	88	0	0%	88	2	2%
South/Southeast Asia	161	31	19%	161	6	4%	156	27	17%	161	13	8%	161	6	4%
Sub-Saharan Africa	252	18	7%	252	3	1%	252	12	5%	252	3	1%	252	1	0%
Unknown	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%
Western Europe	2	1	50%	2	0	0%	2	1	50%	2	0	0%	2	0	0%
<b>Total</b>	<b>594</b>	<b>73</b>	<b>12%</b>	<b>594</b>	<b>13</b>	<b>2%</b>	<b>589</b>	<b>55</b>	<b>9%</b>	<b>594</b>	<b>17</b>	<b>3%</b>	<b>594</b>	<b>11</b>	<b>2%</b>

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