



Preliminary Epidemiological Report of the Tuberculosis Control Program in Puerto Rico 2018-2020 (first 6 months: Jan-June)

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The Puerto Rico Tuberculosis Control Program (PCTBPR) maintains a registry that contains the elements for the Verified TB Case Report (RVCT). In addition, a record of contact details for confirmed TB cases is kept in the request for Aggregate Reports for the Evaluation of the Tuberculosis Program (ARPE) and the data that monitors immigrants with a TB condition. Class B referred by the Division of Global Migration and Quarantine (DGMQ) / Electronic Disease Notification (EDN). The data entered in these applications produces various reports. One of them is the National TB Indicators Project (NTIP), the National TB Surveillance System (NTSS), the ARPE report and the TB Case Genotypes report (TB-GIMS).

The following tables will present the frequencies of some elements of these reports.

Table 1. TB Cases by Demographics: Puerto Rico, January-June 2018-20

	2018 Jan-June		2019 Jan-June		2020 Jan-June	
	N	%	N	%	N	%
Case Status						
Case reported (count)	9		11		13	
Sex and age group						
Female	3	33.3	7	63.6	8	61.5
0-4	0	0	0	0	0	0
5-14	0	0	0	0	0	0
15-24	0	0	0	0	1	12.5
25-44	0	0	1	14.2	2	25.0
45-64	0	0	3	42.9	2	25.0
65 and Older	2	66.7	3	42.9	3	37.5
Male	6	66.7	4	36.4	5	38.5
0-4	0	0	0	0	1	20.0
5-14	0	0	0	0	0	0
15-24	1	16.7	0	0	0	0
25-44	0	0	0	0	0	0
45-64	3	50.0	1	25.0	2	40.0
65 and Older	0	0	3	75.0	2	40.0

Table 2. TB Cases by Health Region that cover the clinics: Puerto Rico, January-June 2018-20

	2018 Jan-June		2019 Jan-June		2020 Jan-June	
	N	%	N	%	N	%
Health Region						
Arecibo	0	0	1	9.1	1	7.7
Bayamón	1	11.1	2	18.2	2	15.4
Caguas	0	0	1	9.1	0	0.0
Fajardo	2	22.2	0	0	1	7.7
Mayagüez	0	0	2	18.2	1	7.7
Ponce	1	11.1	1	9.1	0	0.0
San Juan	5	55.6	4	36.4	8	61.5

Table 3. TB Cases by Health Provider: Puerto Rico, January-June 2018-20

	2018 Jan-June		2019 Jan-June		2020 Jan-June	
	N	%	N	%	N	%
Health Provider						
Health department	8	88.9	8	72.7	7	53.8
Private outpatient	0	0	0	0	5	38.5
Institutional/Correctional	0	0	0	0	0	0.0
Inpatient care only	1	11.1	3	27.3	0	0.0
Other	0	0	0	0	1	7.7

Table 4. TB Cases by Place of Birth: Puerto Rico, January-June 2018-20

Place of Birth	2018 Jan-June		2019 Jan-June		2020 Jan-June	
	N	%	N	%	N	%
Foreign-born	3	33.3	3	27.3	3	23.1
PR-Born	6	66.7	8	72.7	10	76.9

Table 5. TB Cases by Clinical Factors: Puerto Rico, January-June 2018-20

Diagnosis status	2018 Jan-June		2019 Jan-June		2020 Jan-June	
	N	%	N	%	N	%
Alive	8	88.9	10	90.9	13	100
Death	1	11.1	1	9.1	0	0
Death on Treatment	1	11.1			1	7.7
Previous TB	1	11.1	0	0	0	0
Site						
Pulmonary	9	10	9	81.8	13	100
Extra Pulmonary	0	0	2	18.2	0	0
Both	0	0	0	0	0	0
Positive culture	8	88.9	10	90.9	11	84.6
MDR	0	0	1	9.1	1	7.7
INH resistance	0	0	1	9.1	1	7.7
RIF resistance	0	0	0	0	0	0

Table 6. TB Cases by RFs and Facility: Puerto Rico, January-June 2018-20

Risk factor	2018 Jan-June		2019 Jan-June		2020 Jan-June	
	N	%	N	%	N	%
HIV positive at Dx	2/9	22.2	0/11	0	2/13	15.4
Injecting Drug Use	2/9	22.2	0/11	0	0/13	0
Non-Injecting Drug Use	2/9	22.2	0/11	0	0/13	0
Excess Alcohol Use	0	0	1/11	9.1	0/13	0
Homeless Within Past Year	1/9	11.1	0/11	0	0/13	0
Health Care Worker	0	0	1/11	9.1	0/13	0
Contact of Infectious TB Patient	1/9	22.2	0/11	0	2/13	15.4
Incomplete LTBI Therapy	0	0	0/11	0	0/13	0
Diabetes mellitus	4/9	44.4	3/11	27.3	0/13	0
Facility						
Correctional Facility-Resident	0	0	0/11	0	0/13	0
Long Term Care Facility-Res	0	0	1/11	9.1	0/28	0

Table 7. NTIP Indicator Summary in Puerto Rico, January-June 2018-20

	2018	2019	2020	PR 2020 Target	National Targets 2025**
	2018 Jan-June	2019 Jan-June	2020 Jan-June		
	Total Cases	Total Cases	Total Cases		
	9	11	13		
TB Incidence Rate (cases/100,000)*	Rate	Rate	Rate	Rate	Rate
General	0.3	0.3	0.4		1.3
PR/U.S. Born Persons	0.2	0.3	0.3	<1	0.4
Non-U.S.-Born Persons	3.5	3.5	3.5	<11	8.8
U.S. Born non-Hispanic Black	0	0	0	0	1.0
Children younger than 5 years of age	0	0	0.8	<0.8	0.1
Indicators for Case Management	%	%	%	%	%
Known HIV Status	100	100	100	>93	99
Treatment Initiation within 7 days	100	100	100	>95	96
Recommended Initial 4-Drug Therapy	100	100	100^	>95	97
Sputum Culture Result Reported	100	100	100	>90	99
Sputum Culture Conversion within 60 days	42.9	50.0	30.0	>55	83
Completion of Treatment within 12 months	75	100	18.2	>75	95
Indicators for Laboratory Reporting					
Drug-Susceptibility Results	100	100	81.8	>95	100
Universal Genotyping	100	90.0	54.5	>90	100
Data Reporting					
Data reporting-RVCT	100	96.9	84.8	>90	100
Data reporting-ARPE	100	100	88.9	>88	100
Data reporting-EDN	88.6	88.3	92.3	>88	93
Contact Investigation					
Contact Elicited	100	100	85.7	100	100
Contact Evaluated	82.7	87.5	68.9	75	94
LTBI Treatment Initiated	100	75.0	100	75	92
LTBI Treatment Completion	55.5	33.3	16.7	80	93

	2018	2019	2020	PR 2020 Target	National Targets 2025**
	2018 Jan-June	2019 Jan-June	2020 Jan-June		
Immigrants and Refugees	%	%	%	%	%
Examination Initiated within 30 days	83.8	84.6	66.7	>70	72
Examination Completion within 90 days	83.8	87.2	100	>75	78
LTBI Treatment Initiated	84.6	100	100	>90	87
LTBI Treatment Completion	81.8	82.4	40.0	>50	87

*U.S. Census Bureau; Annual Estimates of the Resident Population for Puerto Rico: April 1, 2010 to July 1, 2019), Table PEPANNRES; Selected Characteristics of the Native and Foreign-Born Populations 2013 to 2017 ACS-1 years), Table S0501; US Census: Hispanic or Latino Origin by Race 2013 to 2017 ACS-1 years), Table B03002; U.S. Census Bureau; Intercensal Estimates of the Resident Population by Sex and Age for Puerto Rico : April 1, 2000 to July 1, 2010), Table PR-EST00INT-01.

**National Targets 2025: <https://www.cdc.gov/tb/programs/evaluation/indicators/default.htm>

^ A 1-year-old child is added to the analysis, who meets Tx according to his age.