

Annual Tuberculosis Report, 2024

Erie County Department of Health

About This Report

This report provides tuberculosis (TB) data and summaries of TB program activities for 2024 in Erie County, NY. These data reflect the most complete information available as of March 31, 2024. For additional details on the use of population data and definitions in this report, see the Technical Notes (Page 9).

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Tuberculosis Activities

Surveillance and Reporting

The ECDOH TB Control Program receives surveillance reports of suspected or confirmed TB cases. All reports are investigated to identify TB cases. These reports are used to conduct testing, case management and ensure treatment completion.

Clinical Care and Treatment

ECDOH provides TB clinical care and treatment for TB cases in Erie County, including TB testing, medical evaluation, treatment for active TB and latent tuberculosis infection (LTBI), and directly observed therapy (DOT) services for patients.

Case Management

ECDOH provides case management for all active TB cases. Case management includes patient interviews, TB education, chart reviews, contact investigation, treatment, and coordination with community resources to ensure optimal health and wellness. Patients with TB are isolated until they have received enough treatment to no longer be infectious. ECDOH helps connect patients and family members to services as needed, including food assistance, housing assistance, insurance, social services, immigration services, mental health services, and alcohol and substance use services. Directly Observed Therapy (DOT) is the standard of care for patients with active TB. ECDOH also utilizes video DOT (vDOT) for after hours and to accommodate patient travel. ECDOH staff ensure that contacts diagnosed with active TB or LTBI are evaluated.

ECDOH conducts TB contact investigations for every TB case in Erie County. Investigations include household and other congregate settings, including worksites. ECDOH staff evaluate each contact who was exposed to a patient with TB to determine if testing or additional intervention is needed.

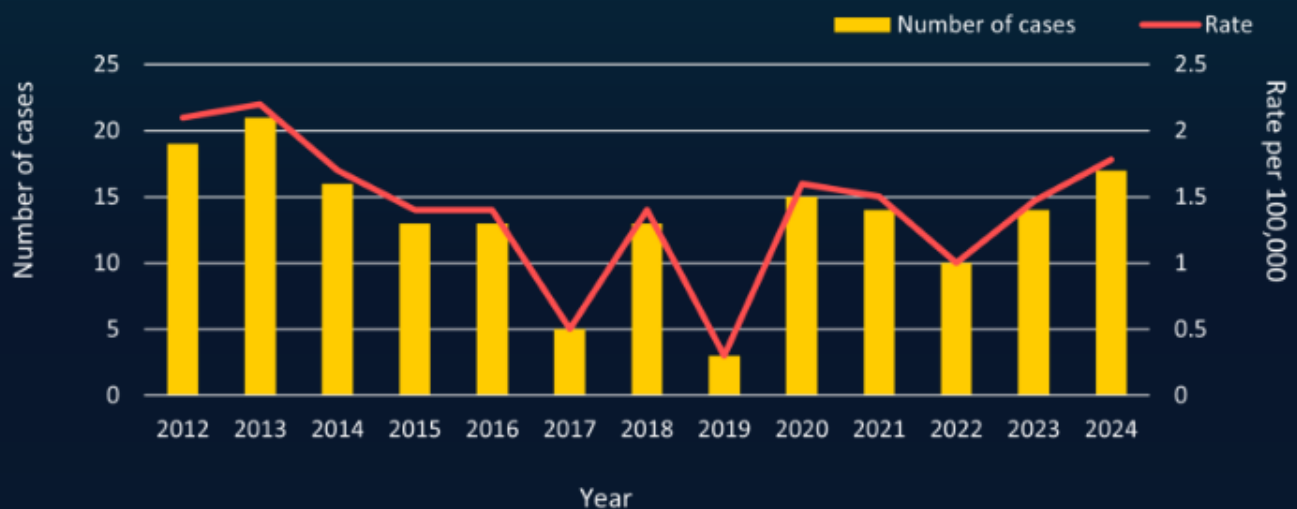
Refugee and asylum seekers

ECDOH provides health assessments for new refugee and asylum seeker arrivals to Erie County. The health assessment is designed to identify individuals with health conditions not observed during or developing after the overseas exam, provide appropriate immunizations, ensure patients with problems are referred to primary and specialty care, eliminate barriers to successful resettlement, and protect community health.

Tuberculosis cases

There were 17 cases of active TB in 2024 in Erie County, NY. The Erie County incidence rate was 1.8 per 100,000.

Figure 1: TB cases and rates, Erie County NY, 2012-2024



2012 - 2018

Overall decrease: 32%
Average annual increase: 13%

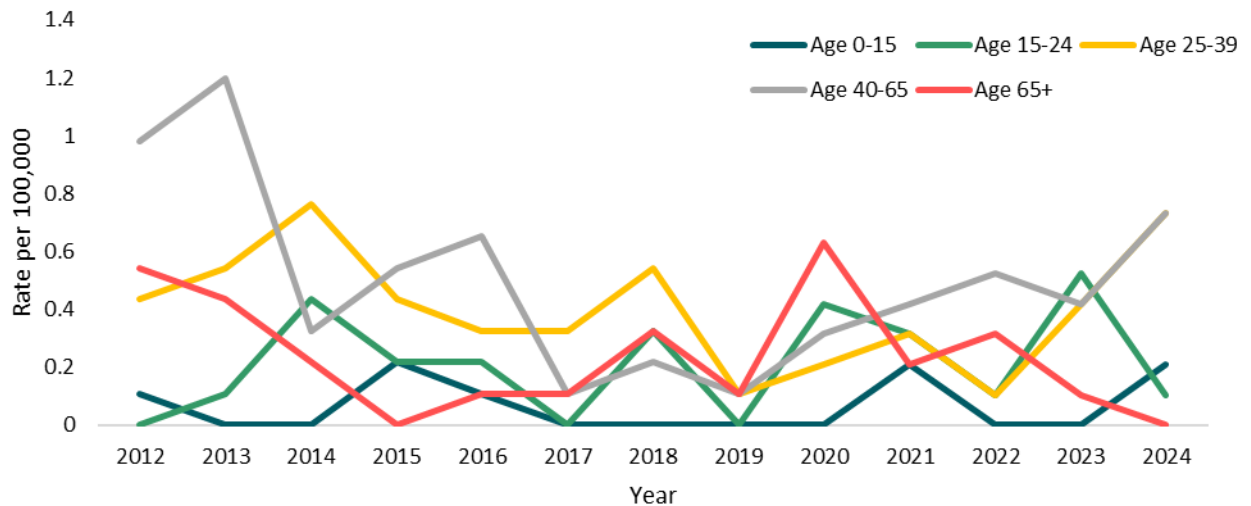
2019 - 2024

Overall increase: 467%
Average annual increase: 92%

TB in Erie County, NY

There were 17 cases of active TB disease in Erie County in 2024, a 21% increase from 2023.

Figure 2: TB rates by age group by year, Erie County NY, 2012-2024



Rates are based on U.S. Census Bureau Decennial Census, 2020.

Demographics

Figure 3: TB cases by age group by year, Erie County NY, 2024

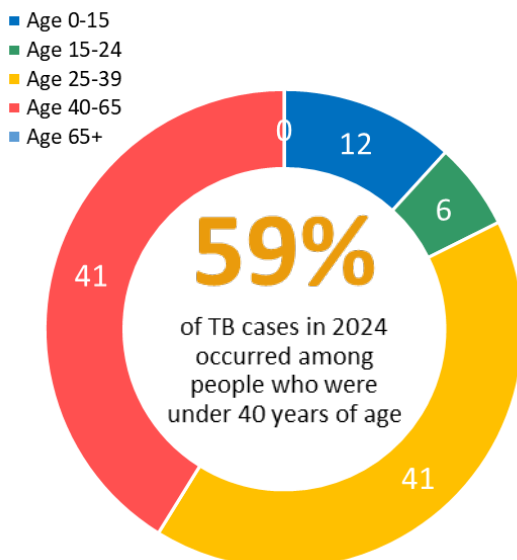


Figure 4: TB cases by sex, Erie County NY, 2024

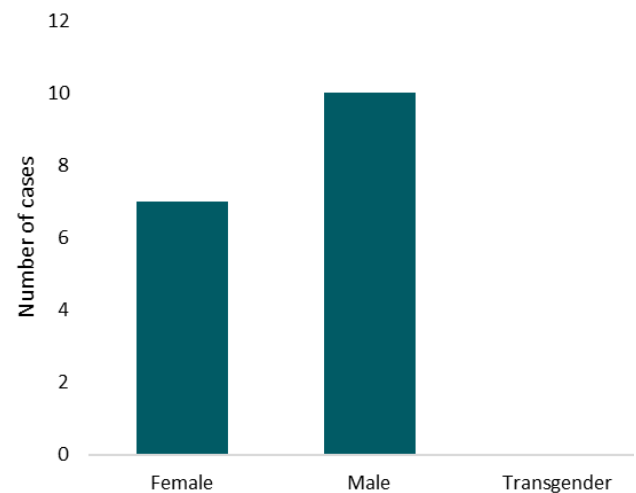
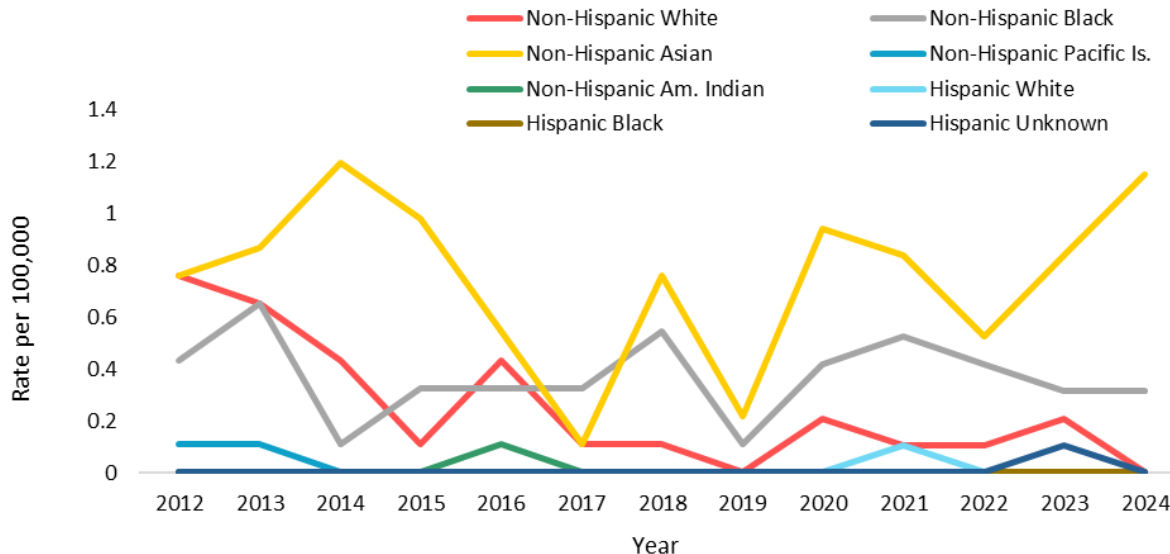


Figure 5: TB rates by race/ethnicity, Erie County NY, 2012-2024



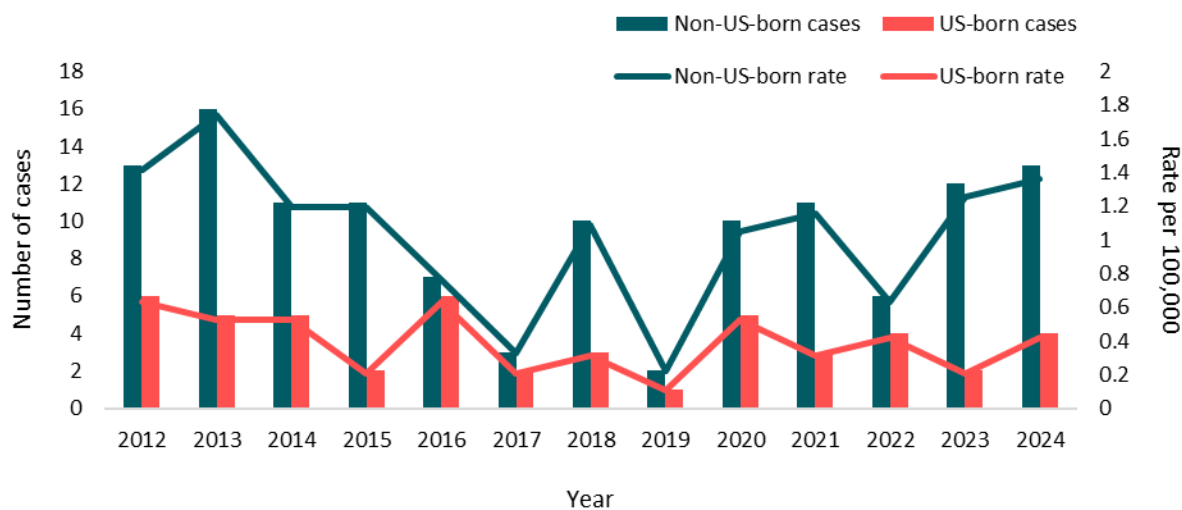
Excludes cases with unknown race/ethnicity.

Rates are based on U.S. Census Bureau Decennial Census, 2020.

Country of birth

There were 10 countries of birth among patients with active TB in 2024. Non-US-born patients had an average of 9 years in the US.

Figure 6: TB cases and rates by birth in the US, Erie County NY, 2012-2024



Rates are based on U.S. Census Bureau Decennial Census, 2020.

Figure 7: Countries of Birth, Erie County NY, 2012-2024

Country of birth	Number of cases
US	4
Bangladesh	3
Venezuela	2
Bhutan	1
India	1
Liberia	1
Nepal	1
Nigeria	1
Pakistan	1
Sudan	1
Taiwan	1

Clinical characteristics

In 2024, 65% of cases involved a pulmonary site, 35% of cases involved an extrapulmonary site, and no cases involved both.

Figure 8: TB cases by disease site, Erie County NY, 2024

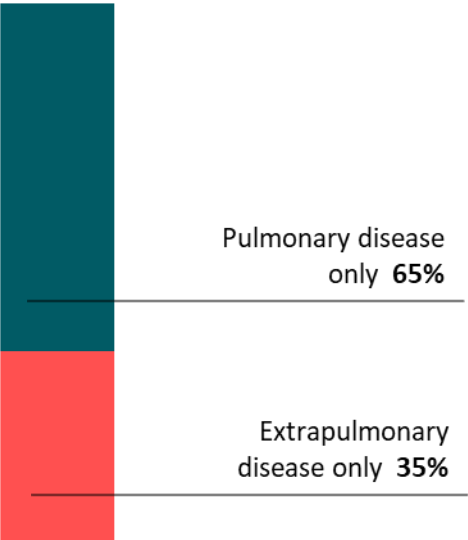
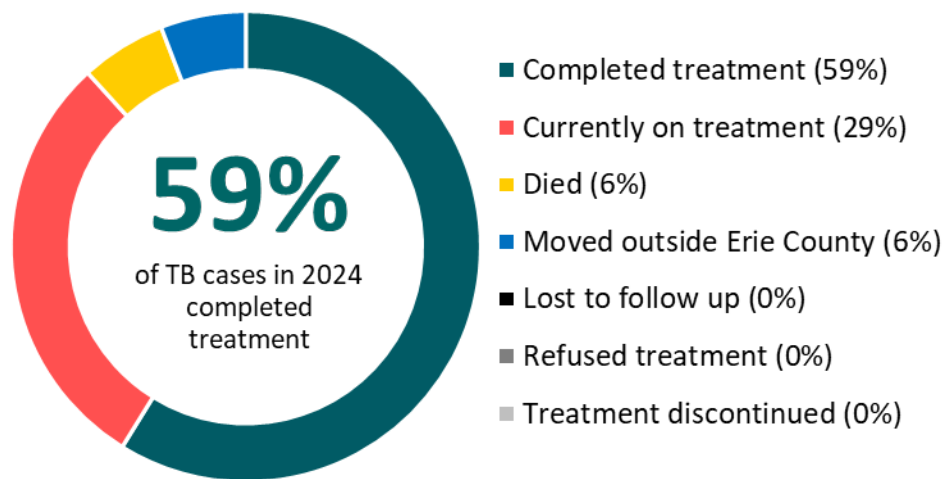


Table 1: Disease site among TB cases with extrapulmonary disease, Erie County NY, 2024

Disease site	Number of cases
Any extrapulmonary site	6
Lymphatic	2
Peritoneum	2
Liver	1
Pleura	1

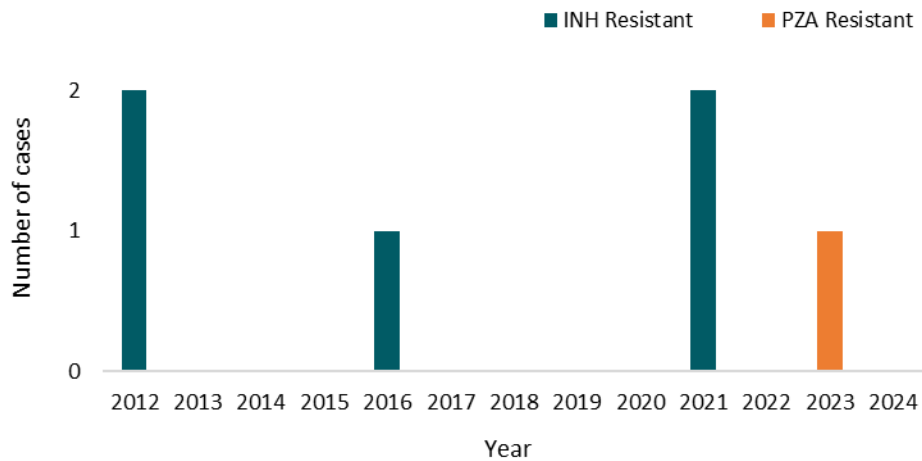
Figure 9: Treatment outcomes for TB cases, Erie County NY, 2024



Drug resistance

In 2024, there were no cases of isoniazid (INH) resistance, no cases of pyrazinamide (PZA) and no multi-drug resistance cases.

Figure 10: Drug resistance among TB cases, Erie County NY, 2024



Abbreviations: INH – isoniazid; PZA – pyrazinamide

Contact investigation

ECDOH conducts contact investigations to identify and evaluate contacts, ensure treatment of contacts with TB, and determine if transmission has occurred.

Table 2: Contact investigation outcomes by site, Erie County NY, 2024

	Household		Non household		Total	
	n	%	n	%	n	%
Number of sites	12	-	3	-	15	-
Total number of contacts	50	-	35	-	85	-
Contacts tested	50	100%	35	100%	85	100%
Contacts with positive TB test result	13	26%	3	9%	16	19%

Excludes contact investigations not completed by end of 2024.

Appendix

Technical Notes

- Data for 2024 are preliminary and reflect the most complete information available as of March 31, 2025.
- Data prior to 2024 have been updated since the release of the 2023 report. Data for these years reflect the final numbers.
- The sum of proportions do not always equal 100% due to rounding.
- All rates presented in this report are calculated per 100,000 population. The sources of denominator data are indicated throughout the report.
- The most recent U.S. Census Bureau Decennial Census population data are used for each year’s population.
- US-born refers to patients born in the 50 states, District of Columbia or other U.S. territories and outlying areas, including American Samoa, Baker Island, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Island, Navassa Island, Northern Mariana Islands, Palmyra Atoll, Puerto Rico, U.S. Minor Outlying Islands, US Pacific Islands, Virgin Islands and Wake Island. All others with a known country of birth are considered non-US-born.