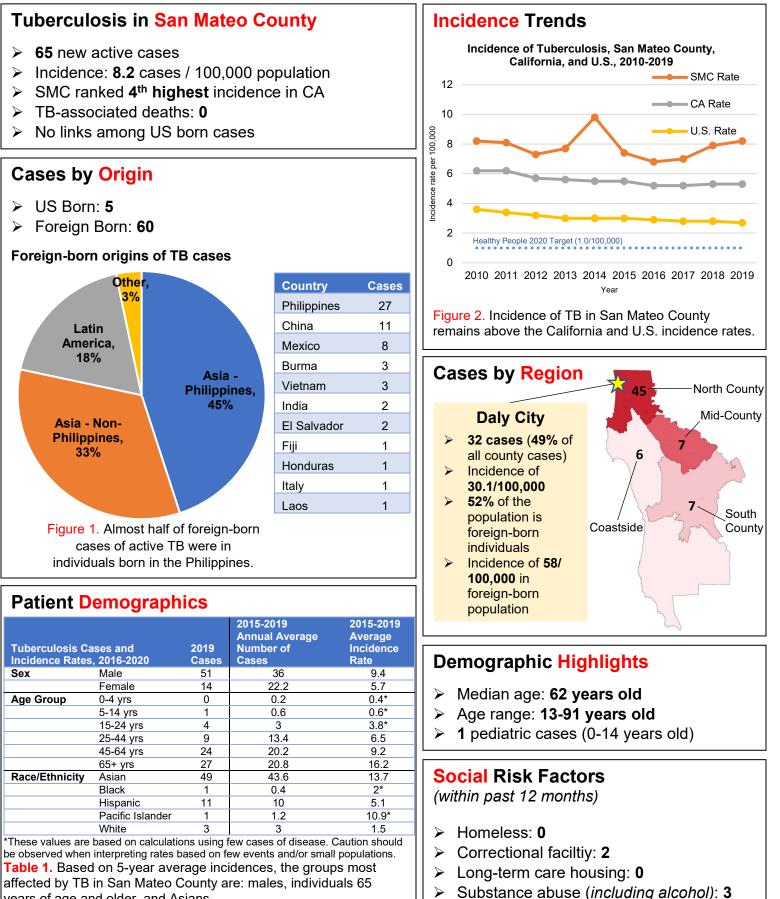
# 2019 Tuberculosis Annual Report

San Mateo County Health System Tuberculosis Control Program

Lisa Goozé. MD-TB Controller Scott Morrow, MD—Health Officer



years of age and older, and Asians.

## **Clinical** Characteristics

Clinical Characteristics of TB Cases, 2019	Feature	Number of cases	Percent
Site of disease	Pulmonary only	43	66.2%
Site of disease	, ,		
	Extrapulmonary only	17	26.2%
	Both pulmonary and extrapulmonary	5	7.7%
Culture status (sputum cultures from cases with any			
pulmonary infection) n=48	Culture Positive	40	83.3%
· · · · ·	Clinical Case	8	16.7%
Sputum smear status (for cases with positive sputum			
cultures) n=40	Positive	17	42.5%
·	Negative	23	57.5%
Comorbidities	HIV/AIDS	0	0.0%
	Diabetes mellitus	29	82.9%
	End-stage renal disease	3	8.6%
	Other immunosuppression	3	8.6%

Table 2. Over 55% of culture-positive sputum samples were smear-negative. The most common reported comorbidity was diabetes mellitus.

# **Microbiological** Characteristics

Microbiological Characteristics of TB Ca	ases, 2019	Number of cases	Percent
Culture Status (All)	Culture Positive	57	87.7%
	Clinical Case	8	12.3%
Drug Susceptibility (Culture positive only)	Susceptible	45	78.9%
	Resistant	12	21.1%
Anti-TB Drug Resistance	INH Only	6	-
	PZA Only	4	-
	INH, ETH	1	-
	INH, PZA, ETH,		
	RIF, RIB	1	-

 Table 3. Over 85% of TB cases were culture positive; 78.9% of culture positive cases were drug susceptible. Only 12 cases were drug resistant.

## For further information

#### Call 650-573-2346 Visit smchealth.org/TB

#### Additional resources:

California Department of Public Health:
 <u>cdph.ca.gov/Programs/CID/DCDC/Pages/TBCB.aspx</u>
 Centers for Disease Control: cdc gov/th

Centers for Disease Control: <u>cdc.gov/tb</u>

#### Authors:

Katie Lei, MPH, MS; Lisa Gooze, MD; Che Waterman, RN, MSN September 2021

#### Data sources:

CA Dept Public Health (2019 CA and US incidence rates, from 'TB in California: 2019 Snapshot'); CA Dept of Finance (population estimates for incidence calculations, from July 2020 P2 data projections); US Census Bureau (city-level population estimates, from American Community Survey 5-Year Estimates)







### **TB Control's Work Load**

The TB Control team followed up with 79 potential cases and 412 contacts in 2019. The treatment of 68 TB cases, including those confirmed and suspected, were monitored by the TB Control team using directly observed therapy (DOT) and video observed therapy (VOT) methods

#### **B-notifications**

The CDC sends B notifications to health departments as follow-up to the screening mandated by U.S. immigration law. In 2019, San Mateo County received **165 B notifications**.

## 2019 in Summary

Due to the COVID pandemic the TB Annual report for 2019 was delayed.

2019 saw 3.8% increase in incidence of TB in San Mateo County (8.2 cases/100,000 persons) compared to 2018 (7.9 cases/100,000 persons). TB incidence in California (5.3 cases/100,000 persons), and the US (2.7 cases/100,000 persons) remained about the same over the past four years. TB incidence in San Mateo County was the same in 2019 as in 2010. Incidences are still above the Health People 2020 Target (1.0 cases/100,000 persons).

As of October 1, 2018, civil surgeons are required to report latent tuberculosis infection (LTBI) to local health departments. The CDC Division of Global Migration and Quarantine revised its Tuberculosis Technical Instructions for civil surgeons screening applicants for immigration status adjustment. Civil surgeons are required to report tuberculosis (TB) screening outcomes that result in latent TB Infection (LTBI) diagnosis to public health departments. This effort to screen for LTBI and to treat LTBI to prevent future cases is another step toward achieving the US goal of TB elimination. In 2019, 140 cases were reported to our Public Health Department.

Diabetes continues to be the most common comorbidity found in our patients with active TB. In many of our cases diabetes was diagnosed at the time of the tuberculosis diagnosis.

Once again, the highest number of cases occurred in Daly City and most cases were foreign-born with 45% born in the Philippines.

The US born cases were not epidemiologically linked and there was no evidence of ongoing local transmission of TB.