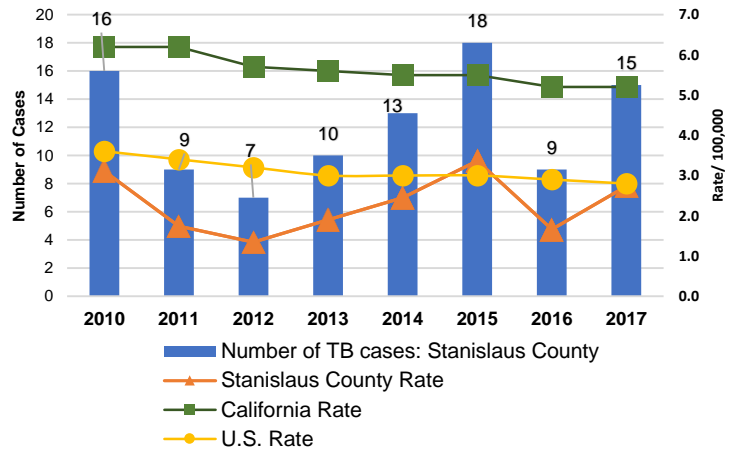


## Stanislaus County Annual Tuberculosis Report - 2017

### OVERVIEW

- In 2017, Stanislaus County reported 15 cases<sup>1</sup> of active Tuberculosis (TB). Since 2010 TB cases reported per year have ranged from seven (in 2012) to 18 (in 2015).
- In 2017, Stanislaus County had a TB case rate of 2.7 per 100,000 population.
- For the past eight years, Stanislaus County TB case rates<sup>1</sup> have remained below the California TB case rates as well as U.S. rates except during 2015 when Stanislaus County's TB case rate increased to 3.4 per 100,000 population and exceeded the national TB case rate of three cases per 100,000 population.

**Figure 1. Annual TB Disease Cases & Rates for Stanislaus County, California and U.S. (2010-2017)**



### GENDER & AGE GROUP

- The highest burden of active TB from 2015-2017 was in adults 65 years and older (10.4/ 100,000 three year average case rate).
- The majority of active TB reported in 2017 was in males (66.7%).
- One case was reported in a child aged less than five years.

### RACE & ETHNICITY

- Asians/Pacific Islanders had the highest burden of active TB among all races (three year average case rate of 19.6/ 100,000). TB rates among the Asian/Pacific Islander population was almost twenty times higher than the non-Hispanic White population and about four times higher than the non-Hispanic Black population.
- Non-Hispanic Whites had the lowest average race-specific rate of one per 100,000 while non-Hispanic Blacks had an average case rate of 4.5/ 100,000.
- Hispanics accounted for 40% of TB cases and comprise 45.6% of the county population.<sup>3</sup>

**Table 1. TB Cases (2017) & Average Case Rates<sup>2</sup> (2015-2017), Stanislaus County**

	Percent Number		Three Year Average Case Rate per 100,000	
<b>Gender</b>	Male	66.7	10	3.2
	Female	33.3	5	1.9
<b>Age Group</b>	0-4 yrs.	6.7	1	1.7
	5-14 yrs.	0.0	0	0.4
	15-24 yrs.	0.0	0	0.4
	25-44 yrs.	13.3	2	1.2
	45-64 yrs.	46.7	7	3.1
	65+ yrs.	33.3	5	10.4
<b>Race &amp; Ethnicity</b>	Asian/ Pacific Islander	33.3	5	19.6
	Black	6.7	1	4.5
	Hispanic	40.0	6	2.3
	White	20.0	3	1.0

<sup>1</sup>Case report data from California Department of Public Health and Stanislaus County Health Services Agency.

<sup>2</sup>California Department of Finance reports: Document E-4 :Historical population estimates for cities, county and the state Document P-2 County Population Projections by Age, Sex and Age group and Race / Ethnicity (1 yr. increments)

<sup>3</sup>U.S. Census Bureau, 2016 American Community Survey 1-Year Estimates

## Stanislaus County Annual Tuberculosis Report – 2017 – Continued

### PLACE OF BIRTH

- 60% of the reported TB cases in 2017 were among people who were born outside the United States.
- Mexico and the Philippines were the top two countries of birth reported by foreign-born people with TB in 2017.

### COMORBIDITIES & RISK FACTORS

- Diabetes triples the risk of developing active TB<sup>4</sup> and is considered to be a major risk factor.
- 26.7% of people with TB had diabetes at the time of TB diagnosis in 2017.

### ACTIVE TB SITE OF DISEASE (2010-2017)

- Overall, 75% of people with active TB had pulmonary TB only. Three percent of people with active TB were reported to have extra-pulmonary TB in addition to pulmonary TB while 22% had extra-pulmonary TB only.

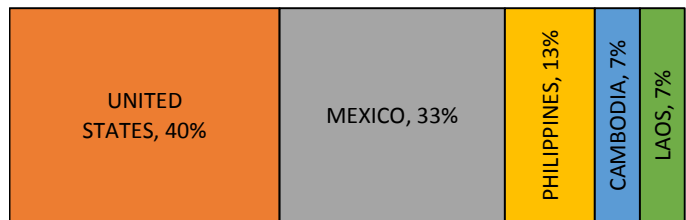
### DRUG SUSCEPTIBILITY

- Ten out of 15 people with TB identified in 2017 were diagnosed through a TB culture.
- One of the TB isolates was found to be resistant to pyrazinamide in 2017 and one was found to be resistant to the same drug in 2016.

### DEATHS DUE TO ACTIVE TB

- TB was found to be the cause of death for one person diagnosed with TB in 2017.

**Figure 2. TB Cases by National Origin, Stanislaus County (2017)**



**Table 2. TB Cases by Select Comorbidities and Risk Factors, Stanislaus County (2016-2017)**

	2017		2016	
	%*	#	%*	#
Status post-organ transplant	6.7	1	-	0
Diabetes	26.7	4	11.1	1
End stage renal disease	6.7	1	-	0
HIV/AIDS	6.7	1	-	0

\*15 Cases in 2017 and 9 cases in 2016

**Table 3. Culture Positive TB cases by Initial Drug Susceptibility, Stanislaus County (2016- 2017)**

	# 2017	#2016
TB culture test positive	10	7
Sensitive to all 1st line drugs	9	6
Resistant to 1 or more drugs	1	1
Isoniazid resistance	0	0
Rifampin resistance	0	0
Pyrazinamide resistance	1	1
Any other drug resistance	0	0

<sup>4</sup>World Health Organization. Tuberculosis & Diabetes. [http://www.who.int/tb/publications/diabetes\\_tb.pdf](http://www.who.int/tb/publications/diabetes_tb.pdf).