## Colorectal Cancer in California: an Update

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UC Davis Comprehensive Cancer Center





#### **CCR and CalCARES Program**

California Cancer Registry (CCR): statewide cancer surveillance system, collects information on most cancers diagnosed in CA since 1988.

Since 2012, CalCARES, UC Davis Comprehensive Cancer Center, has partnered with the California Department of Public Health.

Program manages daily operations of the state mandated CCR

# In 2017 – last year with complete reporting





Colorectal cancer (CRC): 3<sup>rd</sup> most common cancer among males and females, and the 3<sup>rd</sup> in number of cancer deaths

> 7,640 cases

≥ 2,730 deaths

7,006 cases 2,555 deaths

### Current CRC Age-Adjusted Incidence and Mortality Rates (per 100,000) in California

2017	1988

▶ Incidence

► Male	s: 38.0	67.7

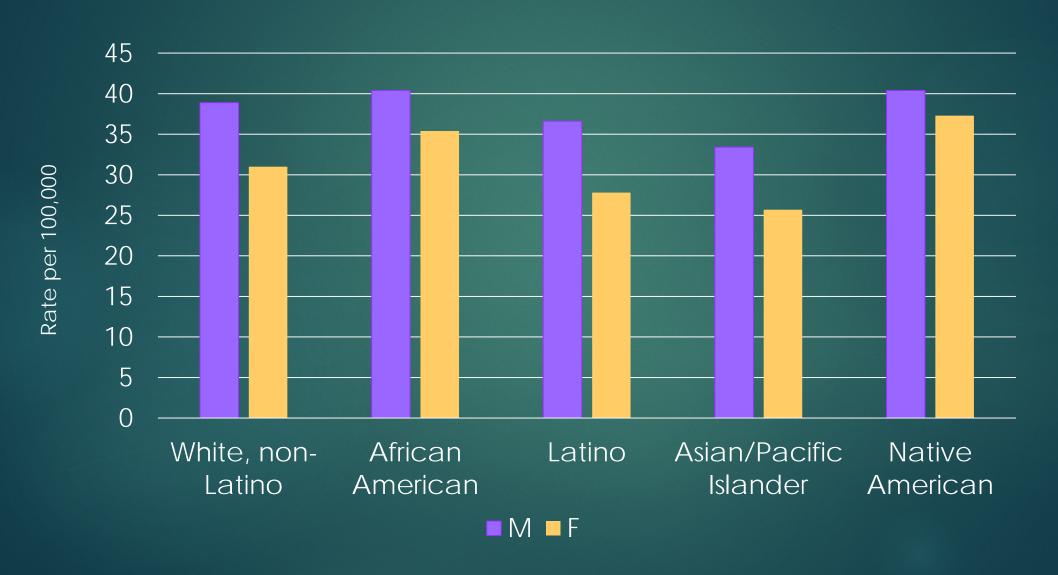
▶Females: 30.1 49.4

▶ Mortality

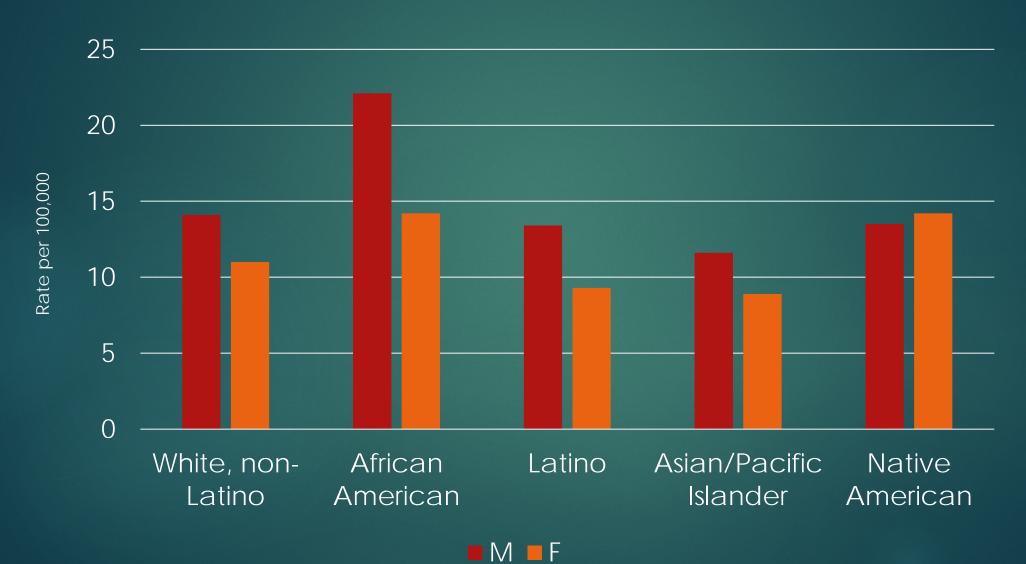
	►Males:	14.0	27.3
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▶ Females: 10.6 19.8

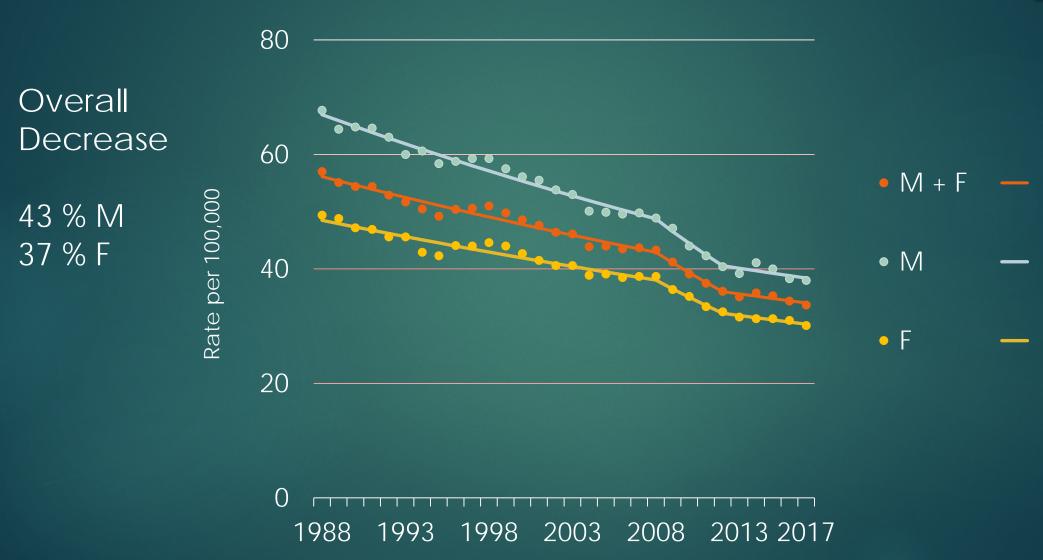
### CRC Age-Adjusted Incidence Rates: California, 2017



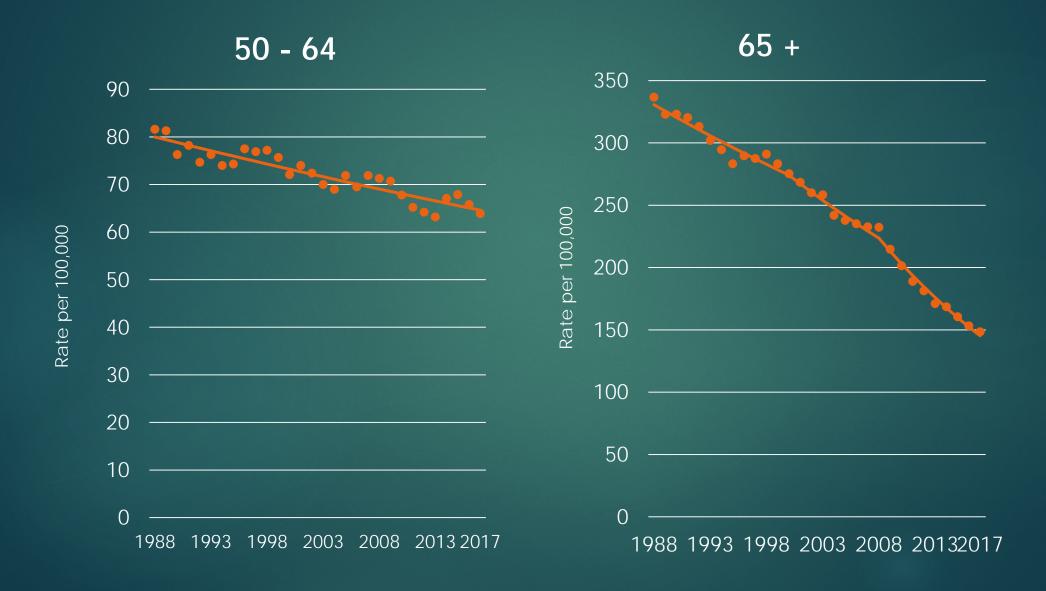
### CRC Age-Adjusted Mortality Rates: California 2017



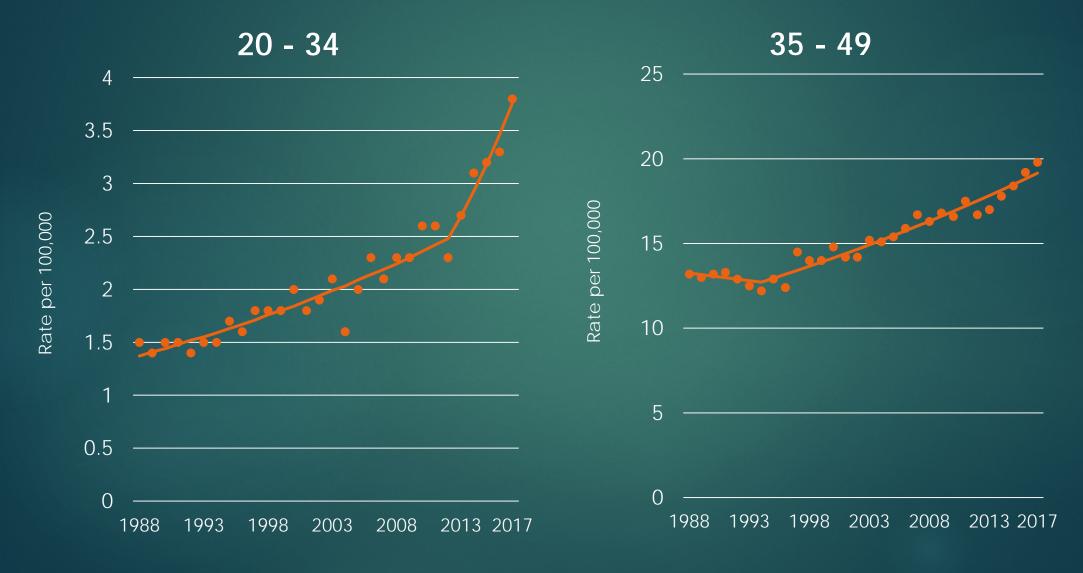
### Trends in Age-Adjusted CRC Incidence Rates: California, 1988-2017



#### Incidence trends differ by age



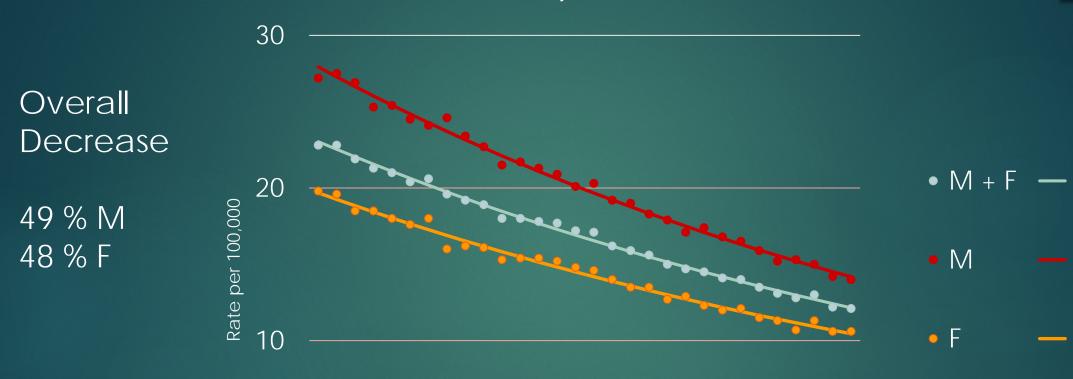
### Incidence: lower but increasing among younger persons



### Overall percent change in CRC incidence: California, 1988 - 2017

Race/Ethnicity	Male	es	Femal	es
White, non-Latino	-44 %	$\downarrow$	-39 %	<b>←</b>
African American	-44 %	$\downarrow$	-43 %	$\downarrow$
Latino	-16 %	$\downarrow$	-14 %	$\downarrow$
Asian/Pacific Islander	-34 %	$\downarrow$	-34 %	$\downarrow$
Native American	41 %	***	73 %	<b>↑</b>

### Trends in Age-Adjusted CRC Mortality Rates: California, 1988-2017





### Overall percent change in CRC mortality: California, 1988 - 2017

Race/Ethnicity	Males		Females	
White, non-Latino	-53 %	Ψ	-48 % <b>J</b>	
African American	-39 %	$\mathbf{\psi}$	-46 % <b>\</b>	
Latino	-14 %	***	-27 % <b>J</b>	
Asian/Pacific Islander	-41 %	$\downarrow$	-35 % <b>\</b>	
Native American	117 %	<b>1</b>	88 % ~	~

#### **Highest Rates**:

- \* Colusa-Glenn-Tehama Sierra-Yuba
- \* Butte
- \* San Bernardino
- \* Stanislaus

#### **Lowest Rates:**

Southern Bay Area Central Coast Gold Country Age-Adjusted Invasive Cancer Incidence Rates in California Colon & Rectum, 2013 - 2017 By County Age-Adjusted to the 2000 U.S. Standard Population California Rate: 34.81 / per 100,000 27.32 - 32.30 32.50 - 34.62 34.64 - 36.35 36.57 - 41.18 https://www.cancerrates.info/ca/

<sup>\*</sup> significant difference

#### **Highest Rates:**

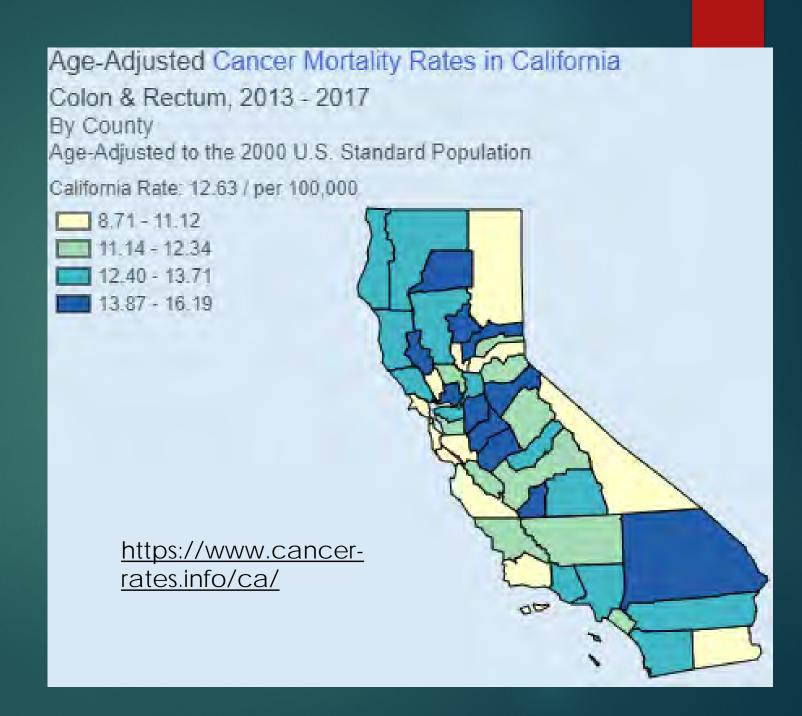
Sierra-Yuba

- \* Stanislaus
- \* Shasta
- \* San Bernardino
- \* San Joaquin

#### **Lowest Rates:**

Bay Area / Central Coast Eastern Sierra

\* Significant difference



### CRC Screening in California: Percent Compliance (at time of recommendation)



#### Late Stage Diagnoses

Examined by Summary Stage System

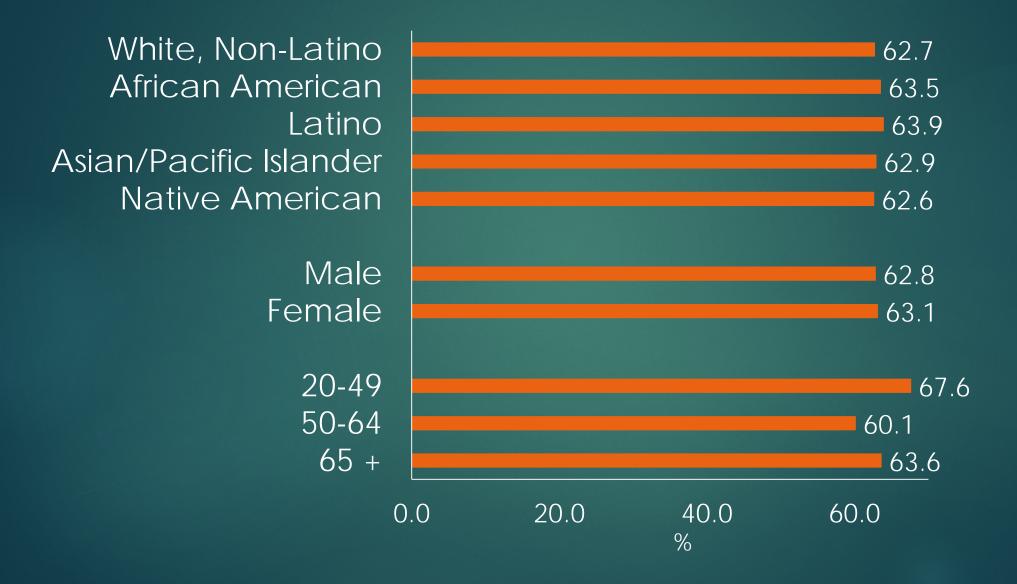
#### **►** Early

- In Situ and localized tumors
- ► Confined to colon and rectum

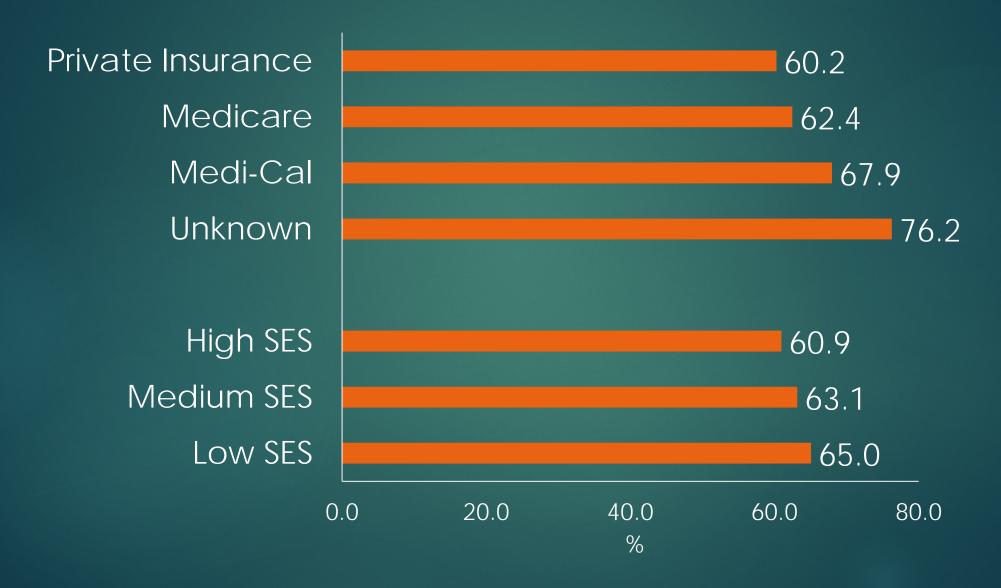
#### **▶** Late

- ▶ Regional Extension and Metastatic
- ►Tumor invades serosa (membrane covering the colon and other organs) and beyond

#### Percent Late Stage Diagnoses: California 2015-2017



#### Percent Late Stage Diagnoses: California 2015-2017



#### Percent Late Stage, 2015-17:

California: 60.1%

Colusa: 72.3

Yuba: 70.8 \*

Tehama: 69.9 \*

Amador: 69.8 \*

Plumas: 68.8

Lassen: 68.5

Mendocino: 66.4

Lake: 66.0

Santa Cruz 65.9 \*



<sup>\*</sup> significantly higher than State

### Advanced Stage at Diagnosis by Medical Service Study Area (MSSA)

CCR produces maps comparing proportion of latestage cancers in each MSSA with the statewide proportion late-stage in the non-Latino white, high SES population

Current maps only available for breast cancer, CRC will be available soon.



#### https://www.californiahealthmaps.org

Interactive mapping for incidence of the 12 most common cancers, by sex and race/ethnicity

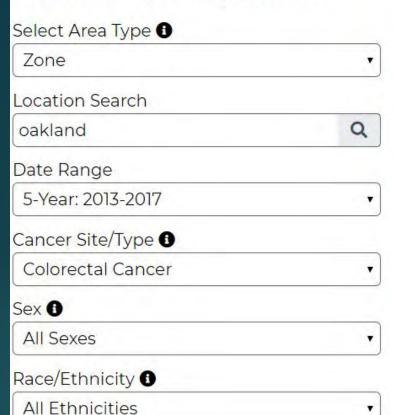
Maps show data for subcounty areas in California: Census tract "Zones", MSSA, Legislative Districts

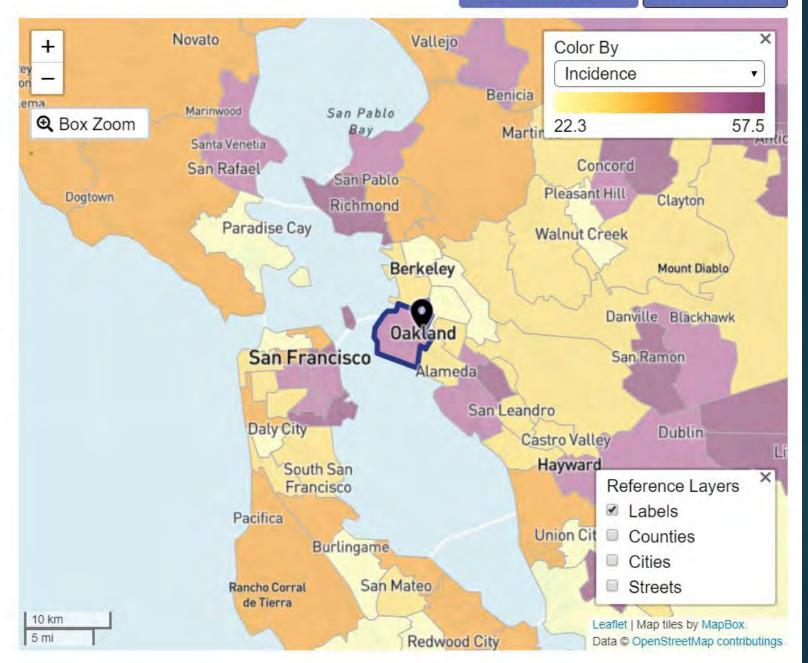
Demographic and health information for the area selected also shown

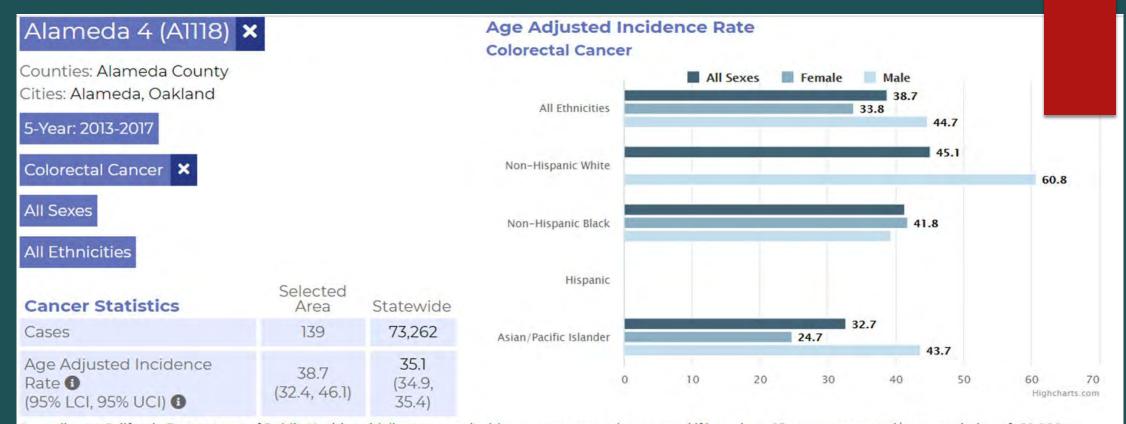


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 Land State 

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According to California Department of Public Health guidelines, cancer incidence rates cannot be reported if based on <15 cancer cases and/or a population of <10,000 to ensure confidentiality and stable statistical rates.

#### Alameda 4 (A1118)

Demographics	Selected Area	Statewide	Healthcare Access and Use	Selected Area	Statewide
Population	60,897	29,390,200	% Uninsured 1	18.6 %	17.8 %
% Non-Hispanic White 1	21.1 %	40.1 %	% Routine Checkups 1	67.3 %	82.5 %
% Non-Hispanic Black 1	35.4 %	5.8 %	% Delayed Care 1	18.6 %	19.3 %
% Hispanic 🚯	13.5 %	37.6 %	% Colorectal Cancer Screening 1	64.0 %	62.9 %
% Asian/Pacific Islander 1	25.2 %	13.4 %	% Mammograms 1	79.7 %	78.9 %

### Thank you!

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