



California Health Interview Survey (CHIS) As An Oral Health Data Source for Community Needs Assessments

Andrew Juhnke, CHIS Compliance Officer & Data Product Manager
UCLA Center for Health Policy Research

California Oral Health Technical Assistance Center Convening | Redding | May 7, 2024

chis.ucla.edu

AGENDA



Overview of CHIS



**Using CHIS Data
Products for
Community Needs
Assessments**



**CHIS Oral Health
Data**



**AskCHIS & AskCHIS
NE Examples**

1. Overview of CHIS

2. Using CHIS Data Products for Community Needs Assessments

3. CHIS Oral Health Data

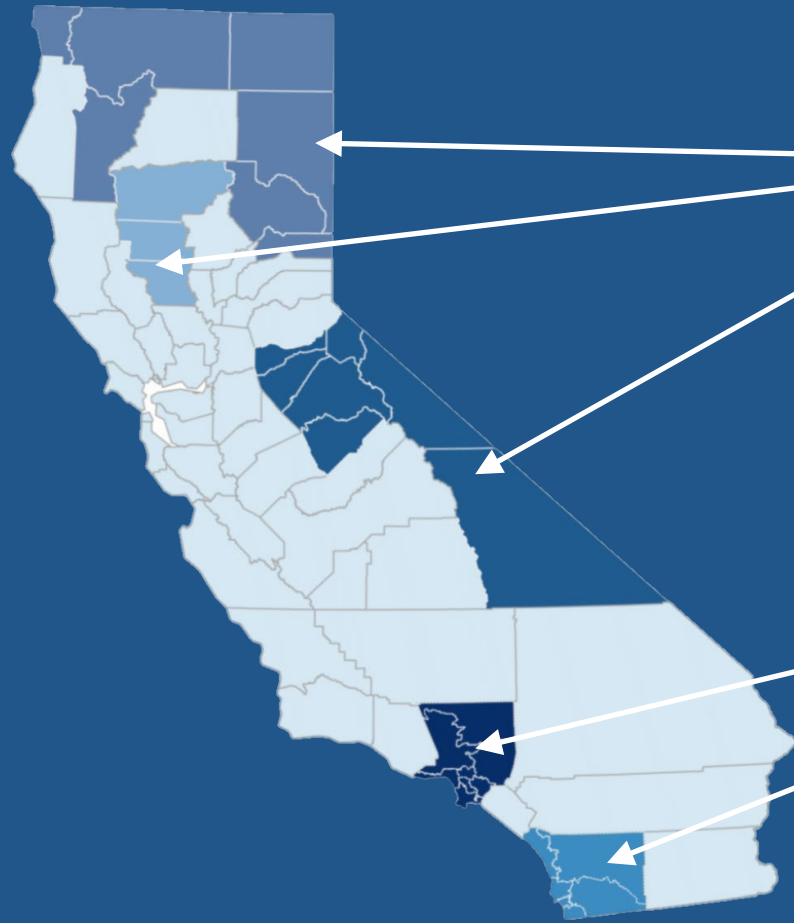
4. *AskCHIS* & *AskCHIS NE* Examples

What is CHIS?



- Nation's largest state health survey
- Most comprehensive source of health information on Californians
- Covers topics about health and healthcare of Californians
- Adult, teen, and child surveys
- Representative data on diverse groups (conducted in 6 languages other than English)
- Address-based sampling with web and telephone response

Geographic Sample Design



- 56 total geographically defined strata
 - Can produce direct estimates
 - 3 grouped county strata containing the 17 smallest counties (by population)
 - Remaining 39 counties each form their own individual strata
 - 2 counties with sub-county strata
 - Los Angeles: 8 Service Planning Areas
 - San Diego: 6 Health Regions
- Lower levels of geography (city, zip, tract) require 2 years of data to produce modeled estimates

2022 Data Collection Results

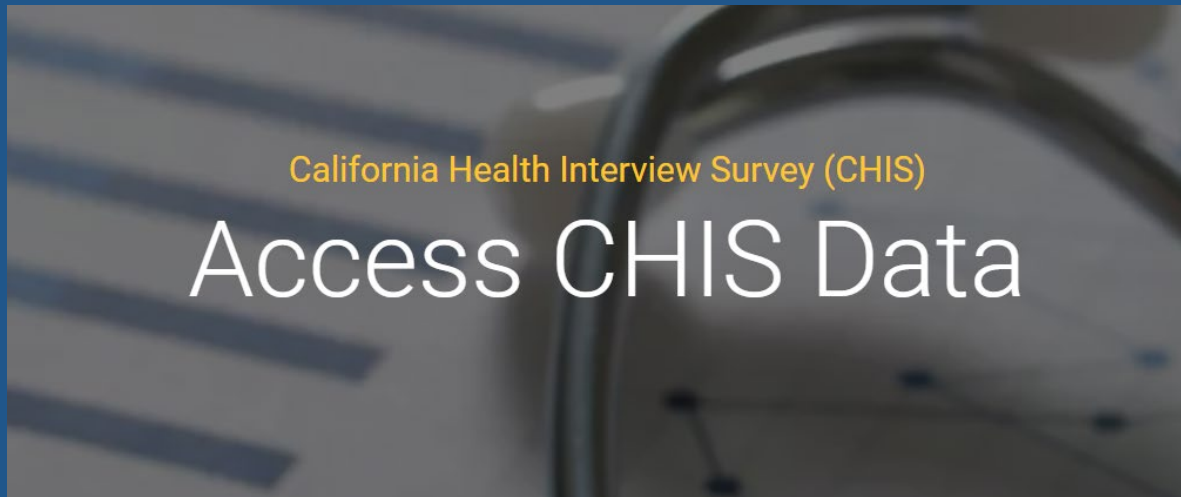
CHIS 2022 RACIAL/ETHNIC GROUP SAMPLES BY AGE

	ADULT (Age 18+)	ADOLESCENT (Ages 12-17)	CHILD (Ages 0-11)
Total Sample Size	21,463	985	3,395
RACE*			
White	13,739	574	1,902
Asian	3,281	142	567
Native Hawaiian/Pacific Islander	66	3	13
African American	1,147	40	169
American Indian/Alaska Native	516	28	76
Other single race	1,580	94	258
Two or More Races	1,134	104	410
LATINO ETHNICITY			
Latino	5,719	443	1,567
Non-Latino	15,744	542	1,828

CHIS 2022 includes interviews conducted between February and November 2022

1. Overview of CHIS
2. **Using CHIS Data Products for Community Needs Assessments**
3. CHIS Oral Health Data
4. *AskCHIS & AskCHIS NE* Examples

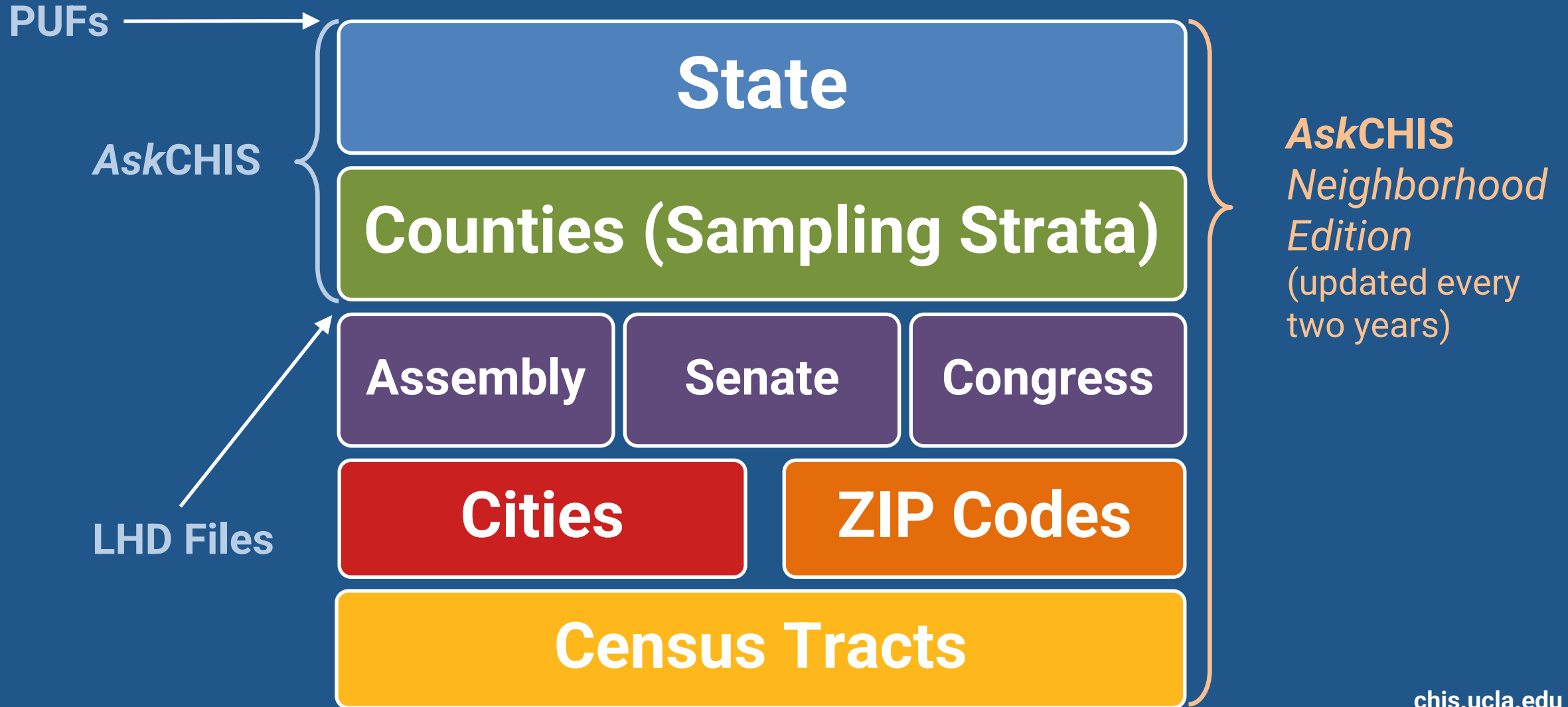
CHIS Dissemination & Data Products



- Public Data Products
 - **AskCHIS**
 - **AskCHIS Neighborhood Edition (NE)**
 - Public Use Files (PUFs)
 - Health Profiles
- Confidential Data Products
 - Data Estimate Requests (DERs)
 - **Local Health Department (LHD) Files**
 - Data Access Center (DAC) Projects

Note: To access CHIS data products, register for FREE accounts at <https://healthpolicy.ucla.edu/user/login> and <https://ask.chis.ucla.edu>

Data Across Geographies



Notes On CHIS Data

- CHIS 2022 was released in October
- CHIS 2023 will be released around October 2024
- The survey questions asked can change from year to year, so variable availability may differ by year
- Not all CHIS questions are asked of every respondent; some questions are based on answers to previous questions
- Not all variables are included in every data product

Notes On CHIS Data (cont'd)

- Resources for additional details about CHIS variables:
 - **Master Variable List:** <https://healthpolicy.ucla.edu/our-work/data-access-center/dac-application-process>
 - **Source Data Dictionaries:** <https://healthpolicy.ucla.edu/our-work/california-health-interview-survey-chis/access-chis-data/resources#dictionary>
 - **Questionnaires:** <https://healthpolicy.ucla.edu/our-work/california-health-interview-survey-chis/chis-design-and-methods/survey-topics-and-questionnaires>

For Community Needs Assessments

- CHIS data can be very useful since new data is released annually, and multiple years can be combined as needed!
- Can explore demographics of a geographic area before diving into data on oral health
- Able to be examined in connection with other data sources by geography
- Collaboration with CHIS is possible: for special data requests, to add new questions, to oversample certain populations
- Collaboration between LOHPs is also key!

1. Overview of CHIS
2. Using CHIS Data Products for Community Needs Assessments
3. **CHIS Oral Health Data**
4. *AskCHIS & AskCHIS NE* Examples

CHIS 2022 Oral Health Questions

- Adult:
 - How long since last visit to a dentist
 - Last visit was for routine checkup or specific problem
 - Have any insurance that pays for all or part of dental care
 - Condition of teeth
 - Received telehealth care for dental health problem in past year
- Teen:
 - How long since last visit to dentist
 - Missed school (and how many days) because of dental problem in past year
 - Condition of teeth

CHIS 2022 Oral Health Questions

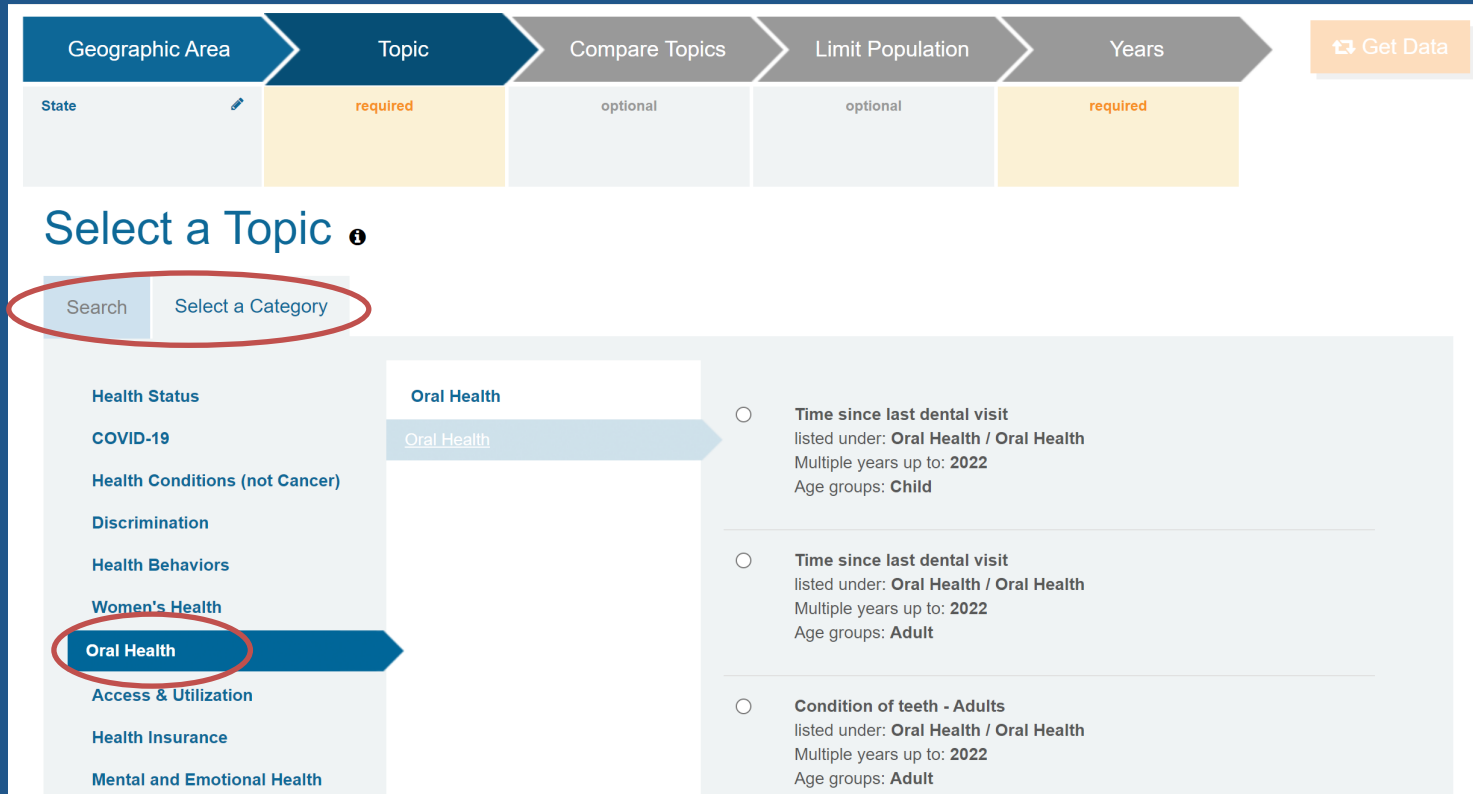
- Child:
 - Has any teeth
 - How long since last visit to dentist
 - Number of times (and where) received dental service in past year
 - Where received information about oral health/preventive treatments
 - Main reason have never visited a dentist
 - Particular place usually go for dental care
 - Needed dental care but could not afford it in past year
 - Have any insurance that pays for all or part of dental care

CHIS 2022 Oral Health Questions

- Child (cont'd):
 - Pay for any/all cost of dental insurance plan
 - Anyone else (and who) pays for any/all cost of dental insurance plan
 - Time when had no dental insurance at all in past year
 - Main reason did not have dental insurance in past year
 - Use any free community/public dental programs for care
 - Needed dental care but didn't get it in past year
 - Main reason didn't get needed dental care in past year
 - Visited ER / urgent care because of dental problem in past year
 - Missed school (and how many days) because of dental problem in past year

1. Overview of CHIS
2. Using CHIS Data Products for Community Needs Assessments
3. CHIS Oral Health Data
4. **AskCHIS & AskCHIS NE Examples**

AskCHIS Oral Health Data



Geographic Area: State (optional)

Topic: required

Compare Topics: optional

Limit Population: optional

Years: required

Get Data

Select a Topic ⓘ

Search | Select a Category

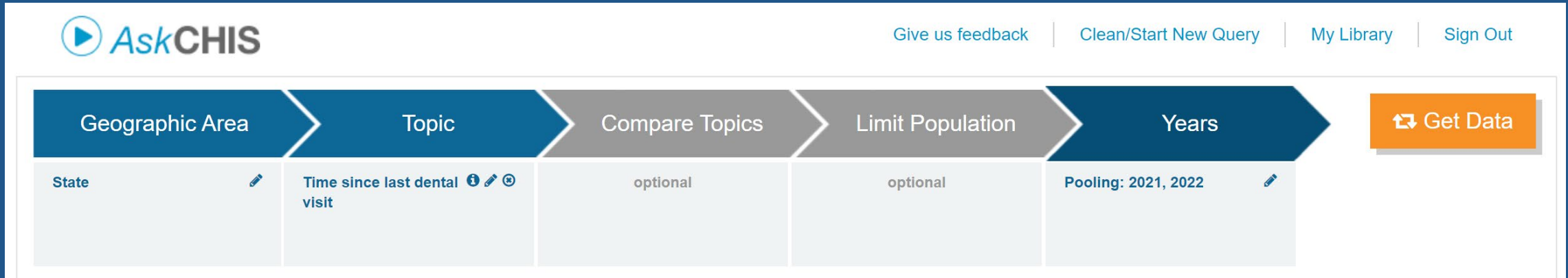
- Health Status
- COVID-19
- Health Conditions (not Cancer)
- Discrimination
- Health Behaviors
- Women's Health
- Oral Health**
- Access & Utilization
- Health Insurance
- Mental and Emotional Health

Oral Health

- Time since last dental visit
listed under: Oral Health / Oral Health
Multiple years up to: 2022
Age groups: Child
- Time since last dental visit
listed under: Oral Health / Oral Health
Multiple years up to: 2022
Age groups: Adult
- Condition of teeth - Adults
listed under: Oral Health / Oral Health
Multiple years up to: 2022
Age groups: Adult

- Most recent year: 2022
 - 2023 will be released around October 2024
- 18 indicators with 2022 data in the Oral Health topic area
- Indicators for adult, teen, and child data

AskCHIS Query Options



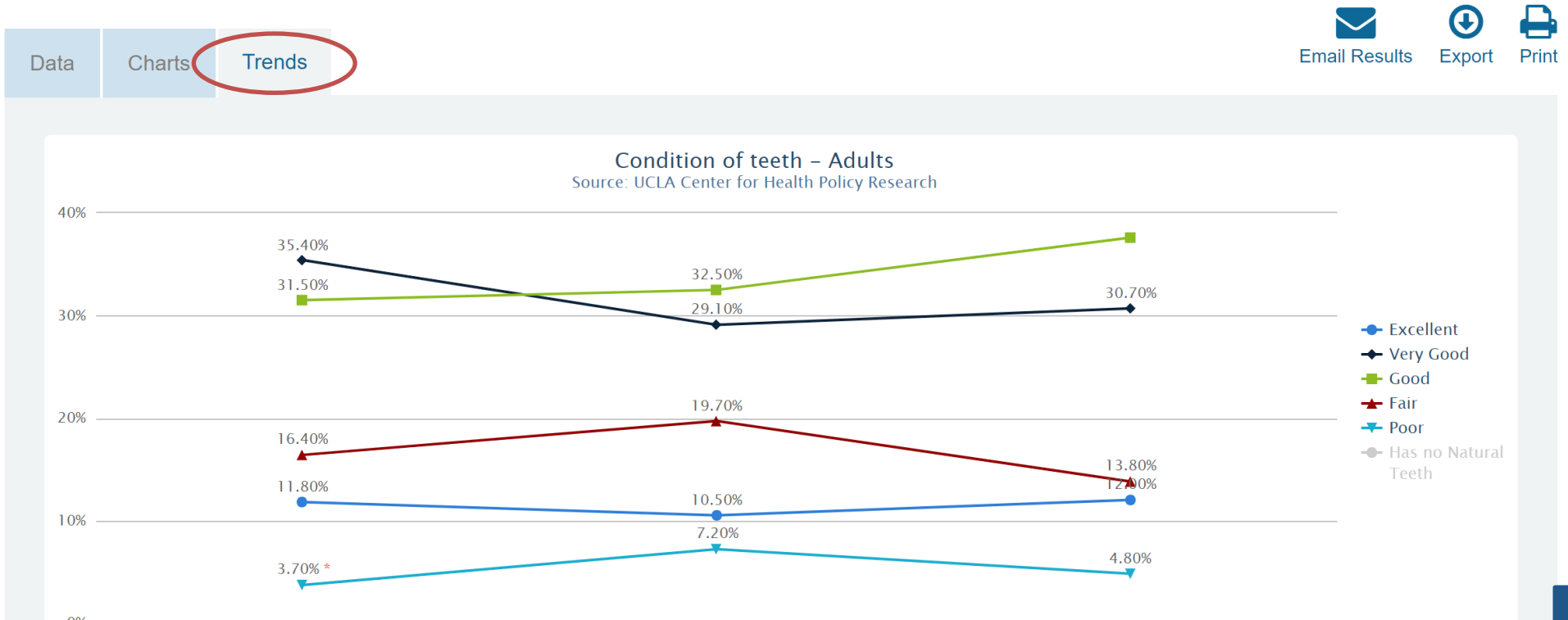
The screenshot shows the AskCHIS query builder interface. At the top left is the AskCHIS logo. On the top right are links for "Give us feedback", "Clean/Start New Query", "My Library", and "Sign Out". The main query builder consists of five chevron-shaped boxes: "Geographic Area", "Topic", "Compare Topics", "Limit Population", and "Years". Below these boxes are input fields: "State" with an edit icon, "Time since last dental visit" with an info icon, edit icon, and share icon, "optional" for Compare Topics, "optional" for Limit Population, and "Pooling: 2021, 2022" with an edit icon. An orange "Get Data" button is on the right.

- By state, region, county, LA SPAs, SD Health Regions
- Compare Topics
- Limit Population
- Pool or Compare years (Trend graphs when comparing years)
- Bar and Pie Chart graphics that can be exported

AskCHIS Case Example – Compare Years

Geographic Area	Topic	Compare Topics	Limit Population	Years
County or county group (Santa Clara)	Condition of teeth - Adults	optional	optional	Comparing: 2020, 2021, 2022

Your Data Results



AskCHIS Case Example – Pool Years (& Collapse Categories)

Geographic Area

Topic

Compare Topics

Limit Population

Years

↻ Get Data

County or county group (Shasta) ✎

Time since last dental visit ℹ ✎ Ⓞ

optional

optional

Pooling: 2021, 2022 ✎

↻ Your Data Results

Data

Charts

Trends

Email Results
 Export
 Print

Compare Geography ▾

Adjust layout ▾

Time since last dental visit	↕
6 months ago or less, More than 6 months up to 1 year ago	61.5% (43.9 - 79.1) 16,000
Never been to dentist, More than 1 year up to 2 years ago, More than 2 years up to 5 years ago, More than 5 years ago	38.5% (20.9 - 56.1) 9,000
Total	100.0% 25,000

AskCHIS Case Example – Pool Years (but examine over time)

Geographic Area | **Topic** | **Compare Topics** | **Limit Population** | **Years** | **Get Data**

County or county group (Del Norte, Siskiyou, Lassen, Trinity, Modoc, Plumas, Sierra) | Parent pays for any/all of child's dental insurance | optional | optional | Pooling: 2019, 2020, 2021

Your Data Results

Data | Charts | Trends | Email Results | Export | Print

Compare Geography | Adjust layout

Parent pays for any/all of child's dental insurance	
Parent pays any or all cost of child's dental insurance	53.1% (36.4 - 69.9) 7,000
Parent does not pay any or all cost of child's dental insurance	46.9% (30.1 - 63.6) 7,000
Total	100.0% 15,000

Geographic Area | **Topic** | **Compare Topics** | **Limit Population** | **Years** | **Get Data**

County or county group (Del Norte, Siskiyou, Lassen, Trinity, Modoc, Plumas, Sierra) | Parent pays for any/all of child's dental insurance | optional | optional | Pooling: 2020, 2021, 2022

Your Data Results

Data | Charts | Trends | Email Results | Export | Print

Compare Geography | Adjust layout

Parent pays for any/all of child's dental insurance	
Parent pays any or all cost of child's dental insurance	43.1% (26.7 - 59.5) 5,000
Parent does not pay any or all cost of child's dental insurance	56.9% (40.5 - 73.3) 7,000
Total	100.0% 12,000

AskCHIS Case Example – Cross-Tab (& By Region)

Geographic Area: **Regions in California (Sacramento Area Counties)** | Topic: **Delays in dental care in the past year** | Compare Topics: **Poverty Level** | Limit Population: optional | Years: Pooling: 2018, 2019, 2020, 2021, 2022 | [Get Data](#)

Your Data Results

Data | Charts | Trends

[Email Results](#) | [Export](#) | [Print](#)

Compare Geography | Adjust layout

Delays in dental care in the past year	Poverty Level		
	0-99% FPL, 100-199% FPL	200-299% FPL, 300% FPL and above	All
Had delays in dental care	6.6% (3.3 - 9.8) 6,000	8.4% (4.5 - 12.3) 19,000	7.7% (4.6 - 10.7) 25,000
Did not have delays in dental care	93.4% (90.2 - 96.7) 90,000	91.6% (87.7 - 95.5) 205,000	92.3% (89.3 - 95.4) 295,000
Total	100.0% 96,000	100.0% 224,000	100.0% 320,000

AskCHIS Case Example – Limit Population by Demographic

Geographic Area

Topic

Compare Topics

Limit Population

Years

↻ Get Data

County or county group (Fresno) ✎

Delays in dental care in the past year 📄 ✎ Ⓞ

optional

Race - OMB/Department of Finance (Latino, Black or African American (non-latino), American-Indian/Alaska Native (non-latino), Asian (non-latino), Native Hawaiian/Pacific Islander (non-latino), Two or More Races (non-latino)) ✎ Ⓞ

Pooling: 2018, 2019, 2020, 2021, 2022 ✎

↻ Your Data Results

Data

Charts

Trends

Email Results

Export

Print

Compare Geography ▾

Adjust layout ▾

Delays in dental care in the past year	↕
Had delays in dental care	6.4% (3.1 - 9.6) 8,000
Did not have delays in dental care	93.6% (90.4 - 96.9) 130,000
Total	100.0% 138,000

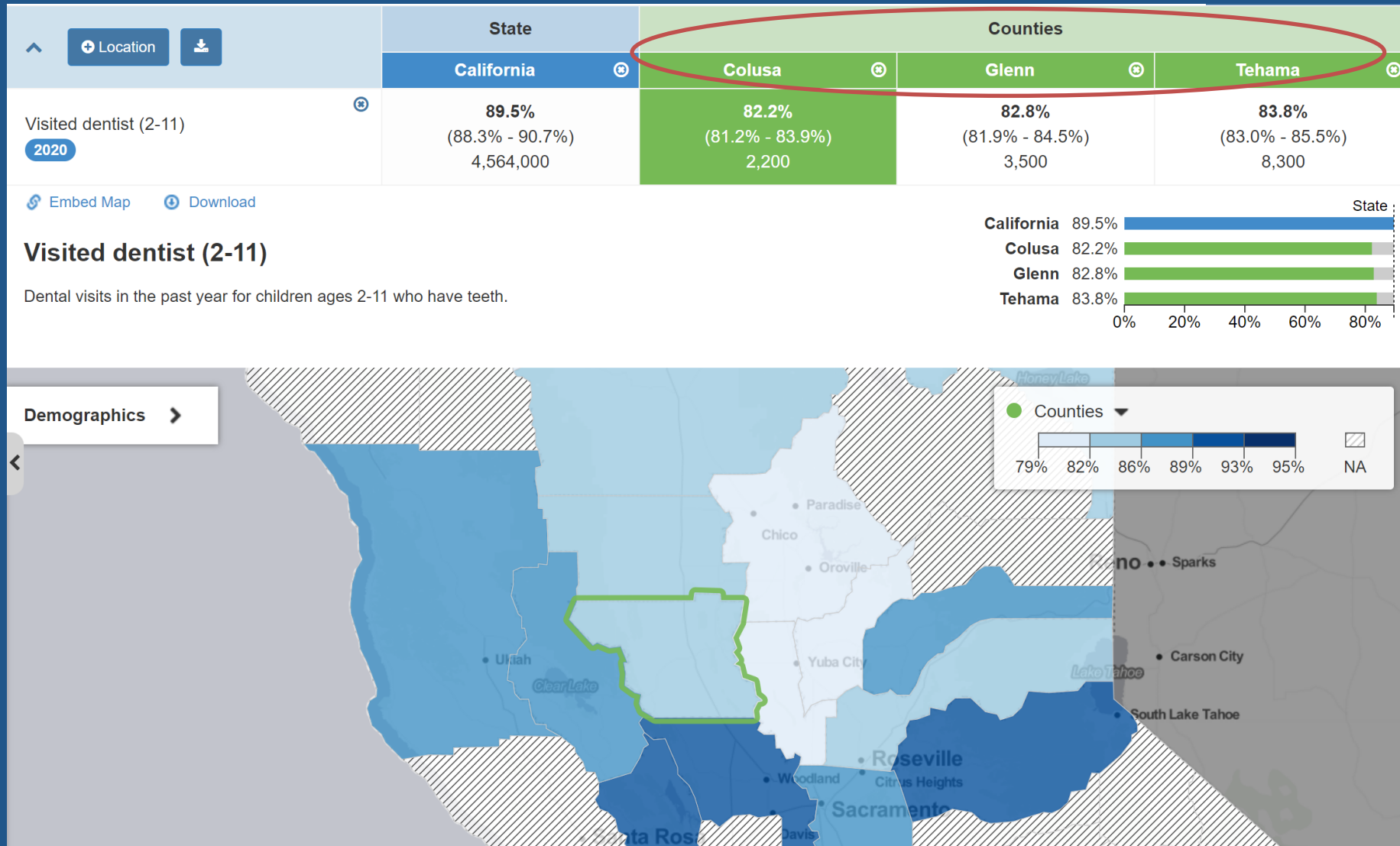
AskCHIS Neighborhood Edition (NE) Oral Health Data

The screenshot displays the AskCHIS Neighborhood Edition interface. On the left is a navigation menu with categories like Diabetes, Flu vaccine, Food insecurity, Health status, Heart disease, Life Expectancy, Mental health, Obese/Overweight, Oral health, 2012, 2014, 2016, 2018, 2020, Physical activity, Sugar Drinks, Tobacco, and Uninsured. The 'Oral health' and '2020' items are circled in red. The main content area shows data for 'Teeth in fair/poor condition (18+)'. At the top, 'Location' and 'Download' buttons are circled in red. A table compares California (25.3%) and Zip Code 90403 (16.9%). Below the table is a bar chart and a map of California with a legend for Zip Codes. A dropdown menu is open over the map, listing indicators: 'Teeth in fair/poor condition (18+)', 'Uninsured - dental insurance (18+)', 'Visited dentist (12-17)', 'Visited dentist (18+)', and 'Visited dentist (2-11)'. This menu is also circled in red.

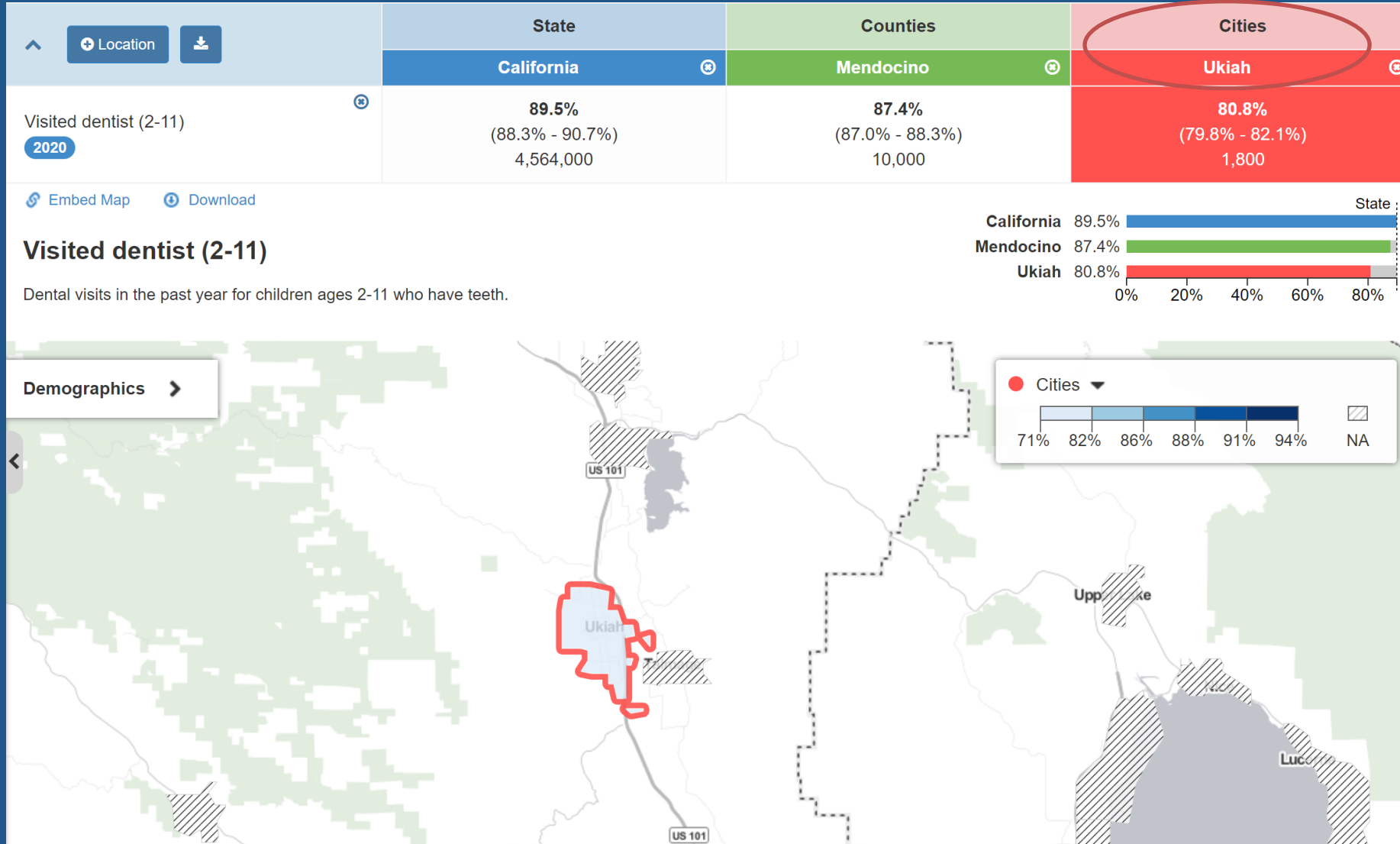
State	Zip Codes
California	90403
Teeth in fair/poor condition (18+)	
2020	
25.3% (24.8% - 25.9%) 29,684,900	16.9% (16.5% - 17.2%) 19,500

- Most recent year: 2019-2020
 - 2021-2022 will be released summer 2024
- 5 indicators in the Oral Health topic area

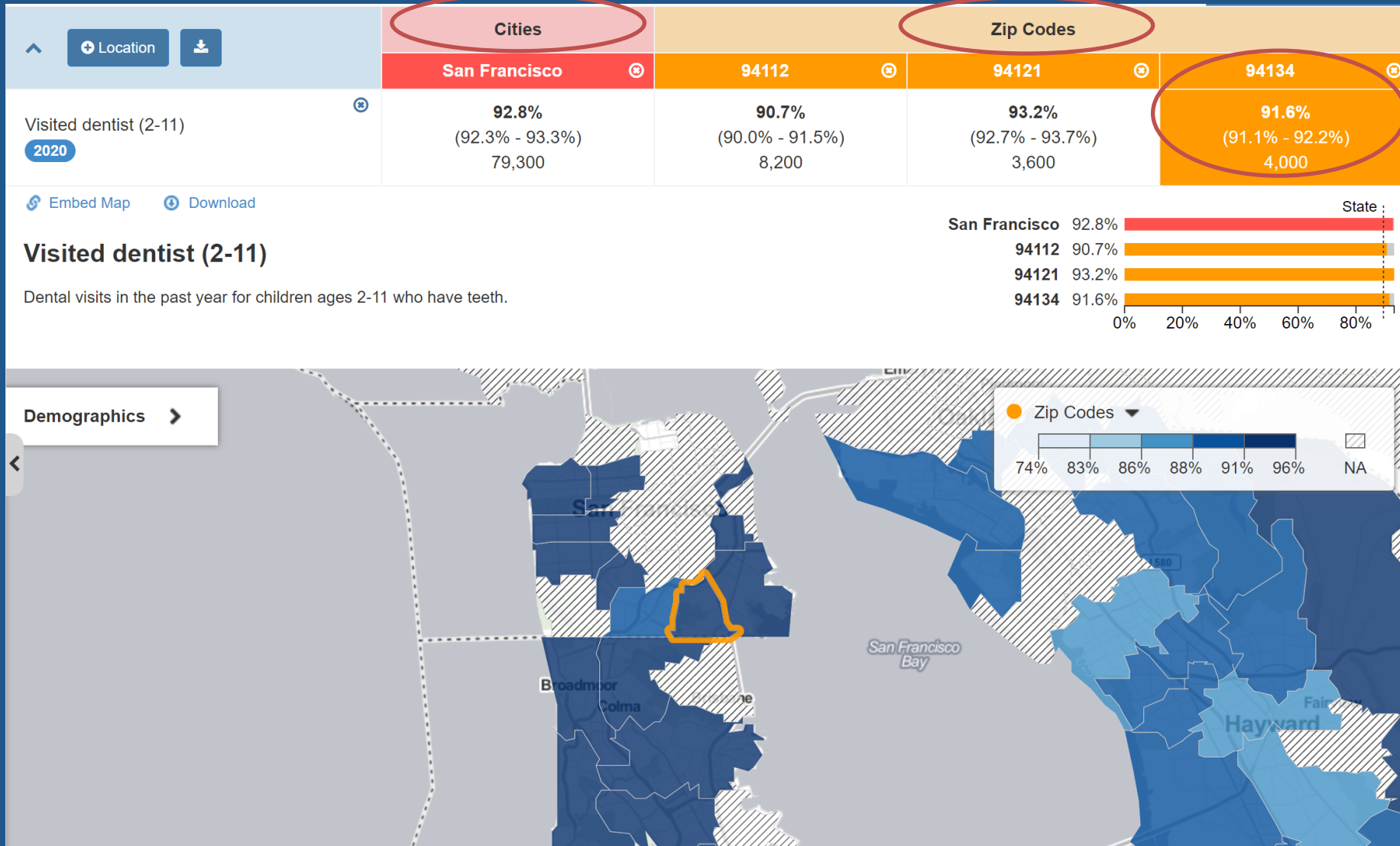
AskCHIS NE Case Example – Sub-Strata Geographies



AskCHIS NE Case Example – Sub-County Geographies



AskCHIS NE Case Example – Sub-County Geographies



AskCHIS NE Case Example – Searching for Census Tracts

Search Location + Combine Locations Find Legislative District Select Census Tracts

Selected Tracts (3): Stanislaus County Tract 0001.01, San Joaquin County Tract 0047.04, San Joaquin County Tract 0019

Add Selected Tracts Individually Combine Selected Tracts Clear Selection

Search for a census tract by address...

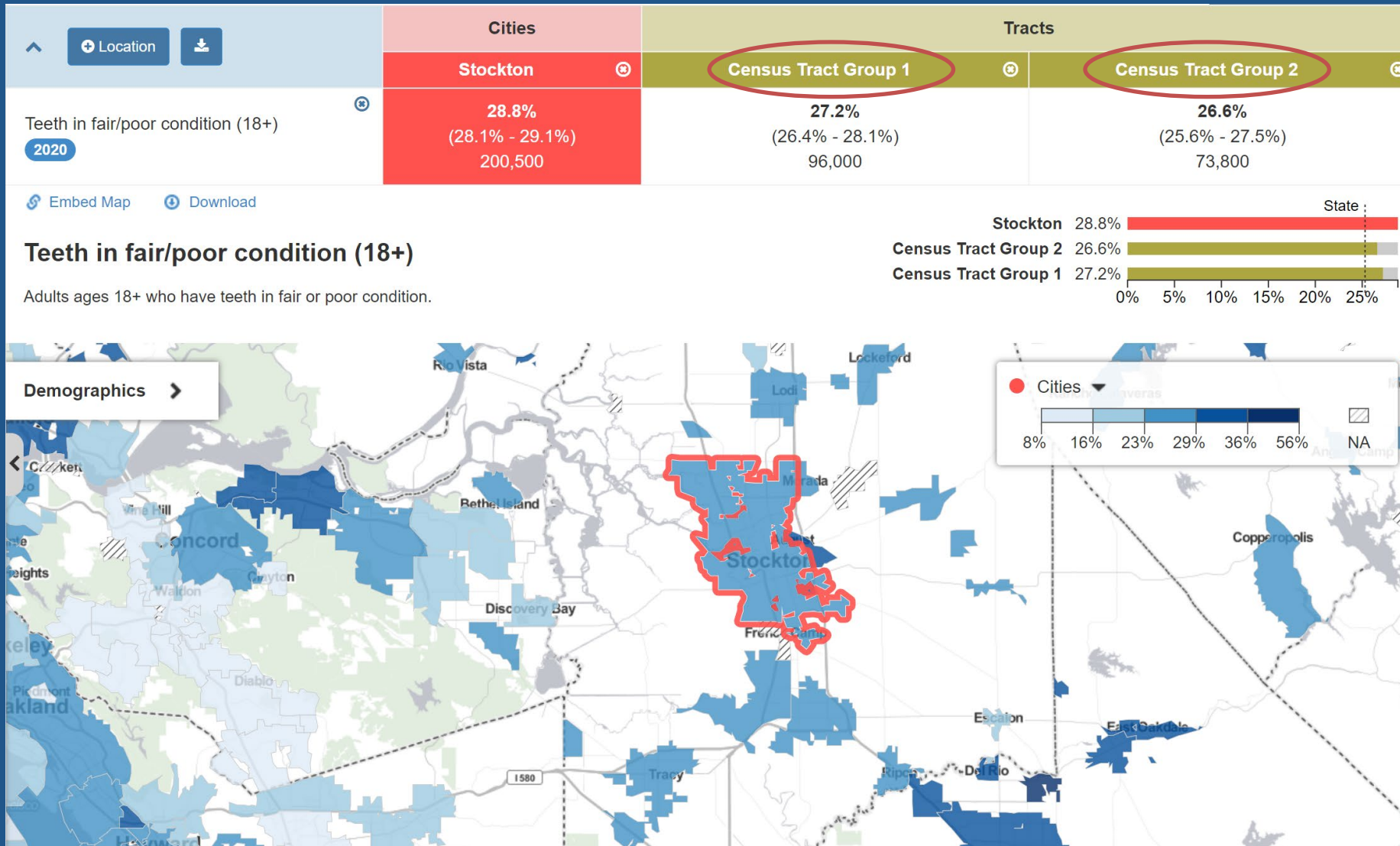
Search Location + Combine Locations Find Legislative District Select Census Tracts

Selected Tracts (29): San Joaquin County Tract 0031.10, San Joaquin County Tract 0032.15, San Joaquin County Tract 0031.09, San Joaquin County Tract 0034.06, San Joaquin County Tract 0033.05, San Joaquin County Tract 0034.07, San Joaquin County Tract 0031.06, San Joaquin County Tract 0031.08, San Joaquin County Tract 0032.03, San Joaquin

Add Selected Tracts Individually Combine Selected Tracts Clear Selection

Search for a census tract by address...

AskCHIS NE Case Example – Pooling Geographies



AskCHIS On-Demand Learning Center

Fast, free tutorials on how to use AskCHIS and
AskCHIS Neighborhood Edition®

<https://healthpolicy.ucla.edu/our-work/training>

Brief: Digestible, 10-minute segments!

Simple: Designed for those who have no experience or those who want to brush up on their skills.

Available 24/7: You can get the help you need when and how you need it!

AskCHIS Neighborhood Edition Trainings:

-  Introduction to AskCHIS NE
AskCHIS Neighborhood Edition allows you to access hyper-local California health data, including ZIP code, legislative district, city and more!
-  How to build a basic Community Profile
Learn how to select a health topic and up to five hyper-local geographical locations.
-  How to adjust and visualize your data
Learn how to adjust results, visualize your data, and more!

The tutorials cover:

- How to do a basic query
- Displaying data visually
- How to export your data in a variety of formats
- Confidence intervals, pooling, statistical stability, and much more!

Thank You!

Questions?



Contact: dacchpr@ucla.edu

<https://healthpolicy.ucla.edu/our-work/california-health-interview-survey-chis/access-chis-data>

<https://ask.chis.ucla.edu/>

<https://askchisne.ucla.edu/>