



THE CALIFORNIA HEALTH INTERVIEW SURVEY (CHIS)

An Overview of the CHIS and CHIS Data Dissemination Tools

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January 20, 2022 Champion Provider Fellowship Program Webinar

chis.ucla.edu

Today's Webinar:

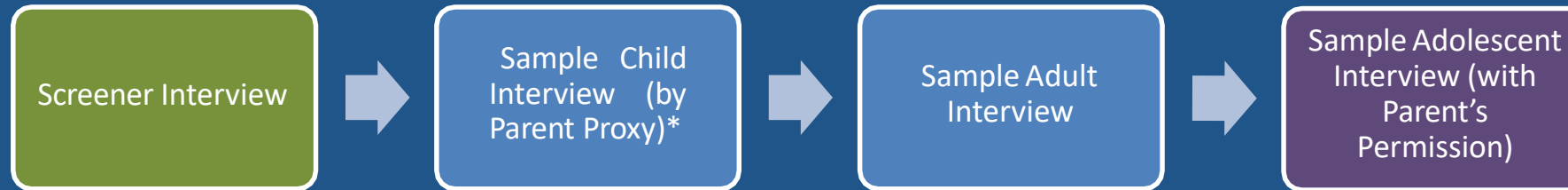
- An overview of the CHIS
- CHIS Data Dissemination Tools
- How to use the AskCHIS system to access CHIS data
- Data highlights from the 2020 CHIS
- Discussion and Q&A (>15 minutes)

What Is CHIS?

- Nation's largest state health survey
- Most comprehensive source of health information on Californians
- Comprehensive range of health topics
 - Health Status
 - Health Conditions
 - Mental Health
 - Oral Health
 - Health Behaviors
 - Access to & Use of Health Care
 - Health Insurance
 - Employment
 - Respondent Characteristics

CHIS Survey

- CHIS interviews
 - An adult (age 18+) in the household, adolescent (ages 12–17) if present, and child (ages 0–11) if present

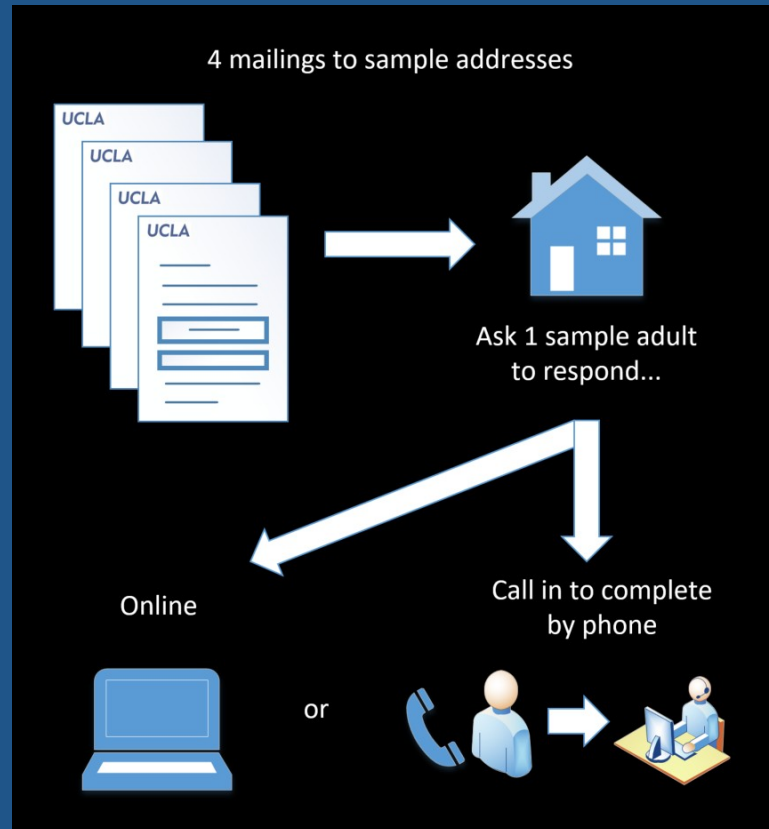


*Completing the sample child interview first for all households is new for 2019

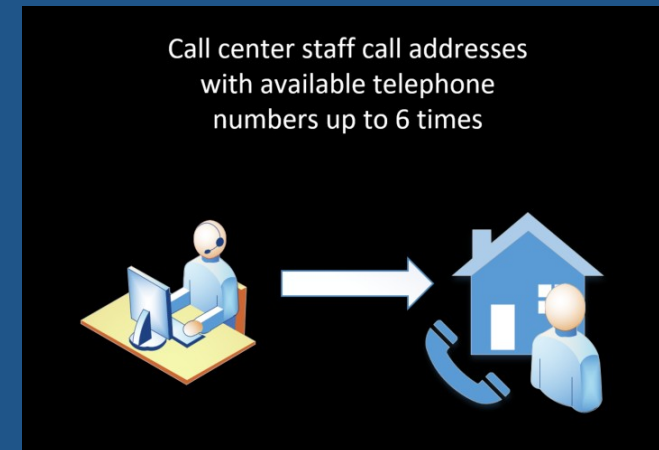
- CHIS conducted in multiple languages
 - English, Spanish, Chinese (both Cantonese and Mandarin dialects), Korean, Vietnamese, and Tagalog

CHIS 2019–2020 Data Collection Method for Adults: Address-Based Sampling with Web and Telephone Response

Phase 1: Push-to-Web



Phase 2: Telephone Nonresponse Follow-up



2020 Data Collection Results

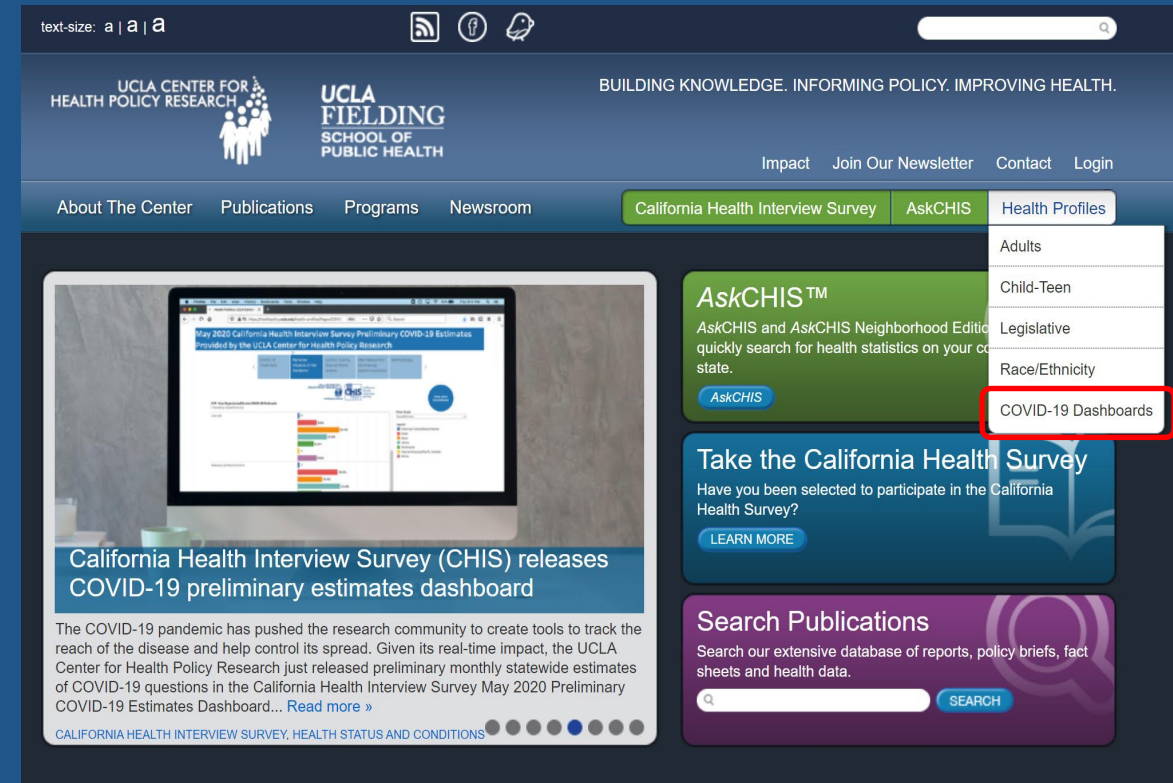
CHIS 2020 RACIAL/ETHNIC GROUP SAMPLES BY AGE

	ADULT (Age 18+)	ADOLESCENT (Ages 12-17)	CHILD (Ages 0-11)
Total Sample Size	21,949	1,365	3,548
RACE*			
White	16,243	920	2,344
Asian	2,792	155	433
Native Hawaiian/Pacific Islander	54	7	14
African American	796	47	115
American Indian/Alaska Native	293	18	42
Other single race	995	71	161
Two or More Races	776	147	439
LATINO ETHNICITY			
Latino	4,317	446	1,267
Non-Latino	17,632	919	2,281

<http://chis.ucla.edu/methodology>

Using CHIS to Understand the COVID-19 Pandemic

- Multiple dashboards are available:
 - 2021 and 2020 CHIS COVID-19 Preliminary Monthly Estimates
 - *Uses 2021 and 2020 CHIS data for new survey questions regarding the COVID-19 pandemic!*
 - COVID-19 Rates and Risk Factors by California County dashboard
 - COVID-19 Rates and Risk Factors by California County data table
 - NHPI COVID-19 Data Policy Lab dashboard



The screenshot shows the CHIS website interface. At the top, there is a navigation bar with the UCLA Center for Health Policy Research logo and the text 'BUILDING KNOWLEDGE. INFORMING POLICY. IMPROVING HEALTH.'. Below this, there are links for 'Impact', 'Join Our Newsletter', 'Contact', and 'Login'. A secondary navigation bar contains 'About The Center', 'Publications', 'Programs', 'Newsroom', 'California Health Interview Survey', 'AskCHIS', and 'Health Profiles'. The 'Health Profiles' dropdown menu is open, showing options: 'Adults', 'Child-Teen', 'Legislative', 'Race/Ethnicity', and 'COVID-19 Dashboards'. The 'COVID-19 Dashboards' option is highlighted with a red box. Below the navigation, there is a featured article titled 'California Health Interview Survey (CHIS) releases COVID-19 preliminary estimates dashboard' with a thumbnail image of a computer monitor displaying a dashboard. To the right, there are three promotional boxes: 'AskCHIS™' with a search button, 'Take the California Health Survey' with a 'LEARN MORE' button, and 'Search Publications' with a search bar and 'SEARCH' button.

CHIS Dissemination

CHIS DATA

HealthDATA — Data. Advocacy. Training. Assistance.

Health data capacity building

Data Access Center (DAC)

Secure network that holds data and analysis, protecting confidentiality.

Public Use File (PUF)

Available as free download in SAS, SPSS, and STATA format.

AskCHIS

Premier online health data query tool. (Health Data All-Star – 2013)

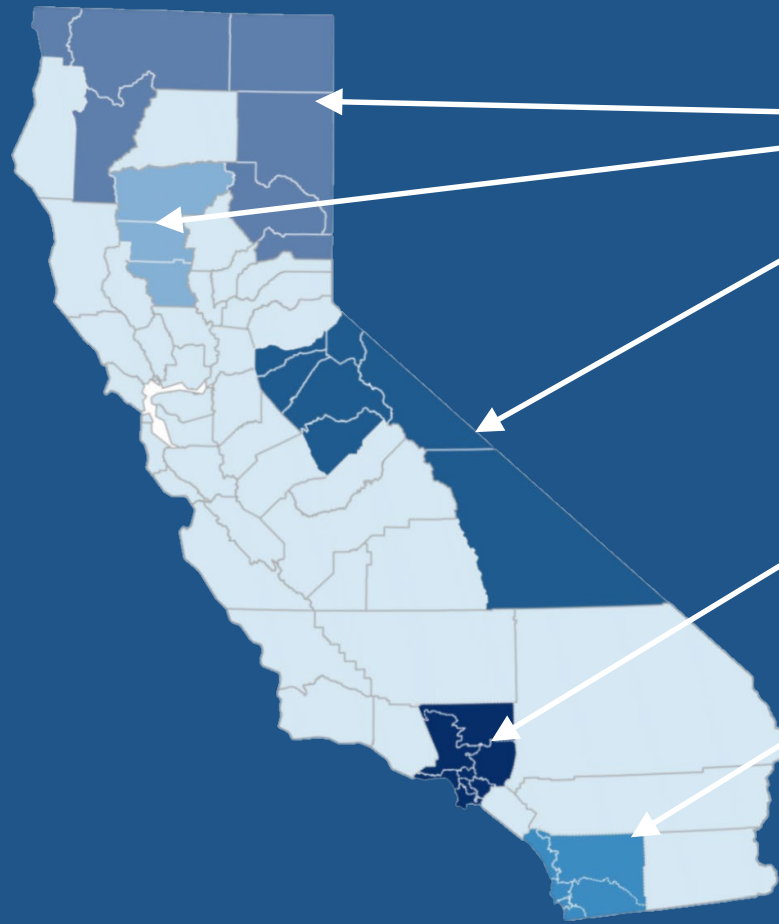
AskCHIS Neighborhood Edition and AskCHIS NE en Español

Granular health data beyond counties (Small Area Estimates).

Health Profiles

Reports on CHIS' most requested health topics.

Geographic Sample Design to Produce Direct Estimates for Each Sampling Stratum



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

Data Across Geographies

AskCHIS

State

Counties (56 Sampling Strata)

Assembly

Senate

Congress

Cities

Zip Codes

Now Available: Census Tracts

Now with
2020
CHIS data!

2019-
2020 CHIS
data
coming in
mid-2022

AskCHIS
*Neighborhood
Edition*
(Updated every
two years)

Census Tract Estimates in AskCHIS Neighborhood Edition

Selected Tracts (4): San Joaquin County Tract 0033.06, San Joaquin County Tract 0033.07, San Joaquin County Tract 0033.05, San Joaquin County Tract 0033.10

Search for a census tract by address...

	State	Cities	Tracts	
	California	Stockton	San Joaquin County Tract 0033.06	Census Tract Group 1
Ever diagnosed with diabetes (18+) (2016)	9.7% (9.0% - 10.4%) 29,390,200	12.9% (12.4% - 13.2%) 191,500	14.1% (13.5% - 14.5%) 2,900	13.9% (12.2% - 15.7%) 11,700
Needed help for mental health problems (18+) (2016)	16.9% (15.9% - 17.9%) 29,390,200	17.1% (16.2% - 17.5%) 191,500	19.0% (17.9% - 19.4%) 2,900	18.7% (15.7% - 21.6%) 11,700

Embed Map Download

Needed help for mental health problems (18+)

Adult respondents ages 18+ who needed help for emotional/mental or alcohol/drug problem in past 12 months.

San Joaquin Tract 0033.05 ... San Joaquin Tract 0033.10

Federal Poverty Level

- 0-138% FPL
- 139-249% FPL
- 250-399% FPL
- 400%+ FPL

Race/Ethnicity

- Non-Hispanic White only
- Hispanic or Latino
- Non-Hispanic Asian only
- Non-Hispanic Black only
- Non-Hispanic Other

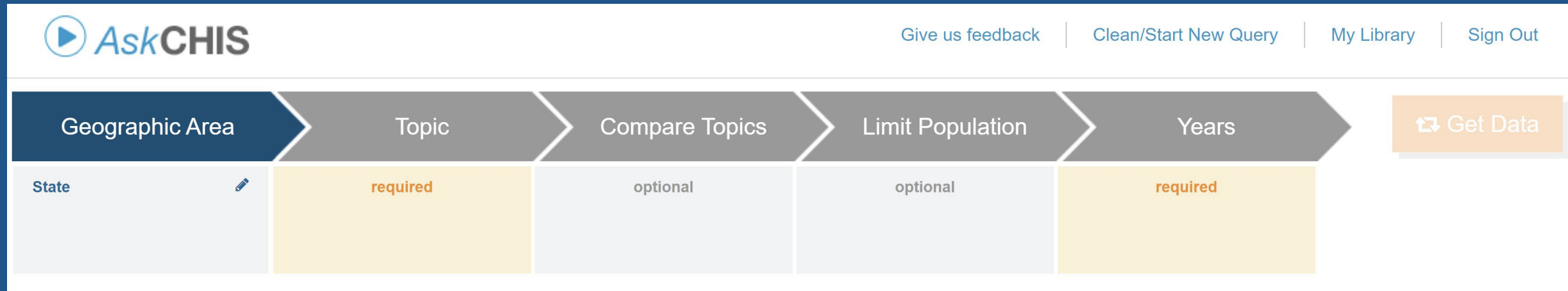
Population

Female Male

- 80+
- 65-79
- 40-64
- 25-39
- 18-24
- 12-17
- 0-11

Demonstration of How to Use AskCHIS to Create Custom Data Tables

- Access the system at ask.chis.ucla.edu
- Create a free account
- Go through the sequential steps below to create your custom data tables



The screenshot shows the AskCHIS interface with a navigation bar at the top containing the logo and links for 'Give us feedback', 'Clean/Start New Query', 'My Library', and 'Sign Out'. Below the navigation bar is a horizontal flowchart with five steps: 'Geographic Area', 'Topic', 'Compare Topics', 'Limit Population', and 'Years'. Each step is represented by a chevron-shaped box pointing to the right. Below each step is a corresponding input field. The 'Geographic Area' field contains 'State' and has a pencil icon. The 'Topic' field is highlighted in yellow and labeled 'required'. The 'Compare Topics' field is labeled 'optional'. The 'Limit Population' field is labeled 'optional'. The 'Years' field is highlighted in yellow and labeled 'required'. To the right of the flowchart is a large orange button labeled 'Get Data' with a refresh icon.

Step	Field Content	Requirement
Geographic Area	State	Optional
Topic		required
Compare Topics		optional
Limit Population		optional
Years		required

Select Your Geographic Area of Interest

Select a Geographic Area i

Search all of California

Counties and Regions

Los Angeles County Service Plan Areas (SPA)

San Diego County Health Regions



Los Angeles County Service Plan Areas (SPA) [View map of Los Angeles SPAs](#)

Antelope Valley

San Fernando

San Gabriel Valley

Metro

West Area

South

East Area

South Bay

Next >

Select Your Topic and Indicator of Interest

Select a Topic ⓘ

Search

Select a Category

Health Status

COVID-19

Health Conditions (not Cancer)

Cancer and Cancer Prevention

Health Behaviors

Women's Health

Oral Health

Access & Utilization

Health Insurance

Mental and Emotional Health

Public Program Participation

Demographic

Oral Health

Oral Health



Time since last dental visit

listed under: **Oral Health / Oral Health**

Multiple years up to: **2020**

Age groups: **Child**



Time since last dental visit

listed under: **Oral Health / Oral Health**

Multiple years up to: **2020**

Age groups: **Adult**

Years: **2013, 2014, 2016, 2017, 2018, 2019, 2020**

Age groups included:

Adult

Results are displayed for the following levels:

Never been to dentist

6 months ago or less

More than 6 months up to 1 year ago

More than 1 year up to 2 years ago

< Previous

Next >

Select Your Comparison Topic and Indicator (Optional)

Compare a Topic ?

Common Comparisons

Search

Select a Category

Health Status

COVID-19

Health Conditions (not Cancer)

Cancer and Cancer Prevention

Health Behaviors

Women's Health

Oral Health

Access & Utilization

Health Insurance

Mental and Emotional Health

Public Program Participation

Demographic

Age & Gender

Language

Race/Ethnicity

Family & Marital Status

Education

Employment

Income & Poverty

Residency in US

Sexual Orientation & Gender Identity

Military Service



Poverty Level

listed under: **Demographic / Income & Poverty**

Multiple years up to: **2020**

Age groups: **Child Teen Adult**

Years: **2001, 2003, 2005, 2007, 2009, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020**

Age groups included:

Child

Teen

Adult

Results are displayed for the following levels:

0-99% FPL

100-199% FPL

200-299% FPL

300% FPL and above

∨ more

Demographic

< Previous

Skip

Next >

Select Your Limiting Populations (Optional)

Limit Population ⓘ

Age in years ⓘ

include all ages

Select an age range:

From - To

Gender

include both genders

Male

Female

Race - OMB/Department of Finance ⓘ

include all races

- Latino
- White (non-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)

Federal Poverty Level - Continuous ⓘ

include all FPL

Select a FPL range:

From - To

< Previous

Skip

Next >

Previously Used Custom Population Filters

Consider Pooling or Collapsing to Increase Statistical Stability

Statistically Unstable


Your query result includes statistically unstable estimates (denoted by *). CHIS generally recommends against reporting or relying on estimates that are statistically unstable. To help stabilize estimates, you may combine two or more years of data and/or collapse levels:

- **Pooling years:** under the Years feature, select the years you want to combine followed by the Pool multi-year option.
- **Collapsing topics:** select the Adjust Layout drop down where you can collapse topic categories. When comparing by a second topic, the Adjust Layout drop down provides the option to collapse topics for either or both indicators using the Collapse Topic and Collapse Compare Topic features.

Please note, for dichotomous/binary variables with low or high values (i.e., below 10% or above 90%) it may be reasonable to report the estimate if the confidence interval range is acceptable to data users, e.g., reporting estimates with confidence limits within +/- 5%. Read more about this guideline [here](#).

Don't show me the warning again in this session. OK

Select Multiple Years for Comparison or Pooling

Geographic Area	Topic	Compare Topics	Limit Population	Years	Get Data
Los Angeles County Service Planning Areas (SPA) (South)	Time since last dental visit	Poverty Level	Race - OMB/Department of Finance (Latino, Black or African American (non-I ...	Pooling: 2019, 2020	

Choose a Time Period

Multi-year options: Compare Pool

<input checked="" type="checkbox"/> 2020	<input type="checkbox"/> 2009
<input checked="" type="checkbox"/> 2019	<input type="checkbox"/> 2007
<input type="checkbox"/> 2018	<input type="checkbox"/> 2005
<input type="checkbox"/> 2017	<input type="checkbox"/> 2003
<input type="checkbox"/> 2016	<input type="checkbox"/> 2001
<input type="checkbox"/> 2015	
<input type="checkbox"/> 2014	

[< Previous](#) [Next >](#)

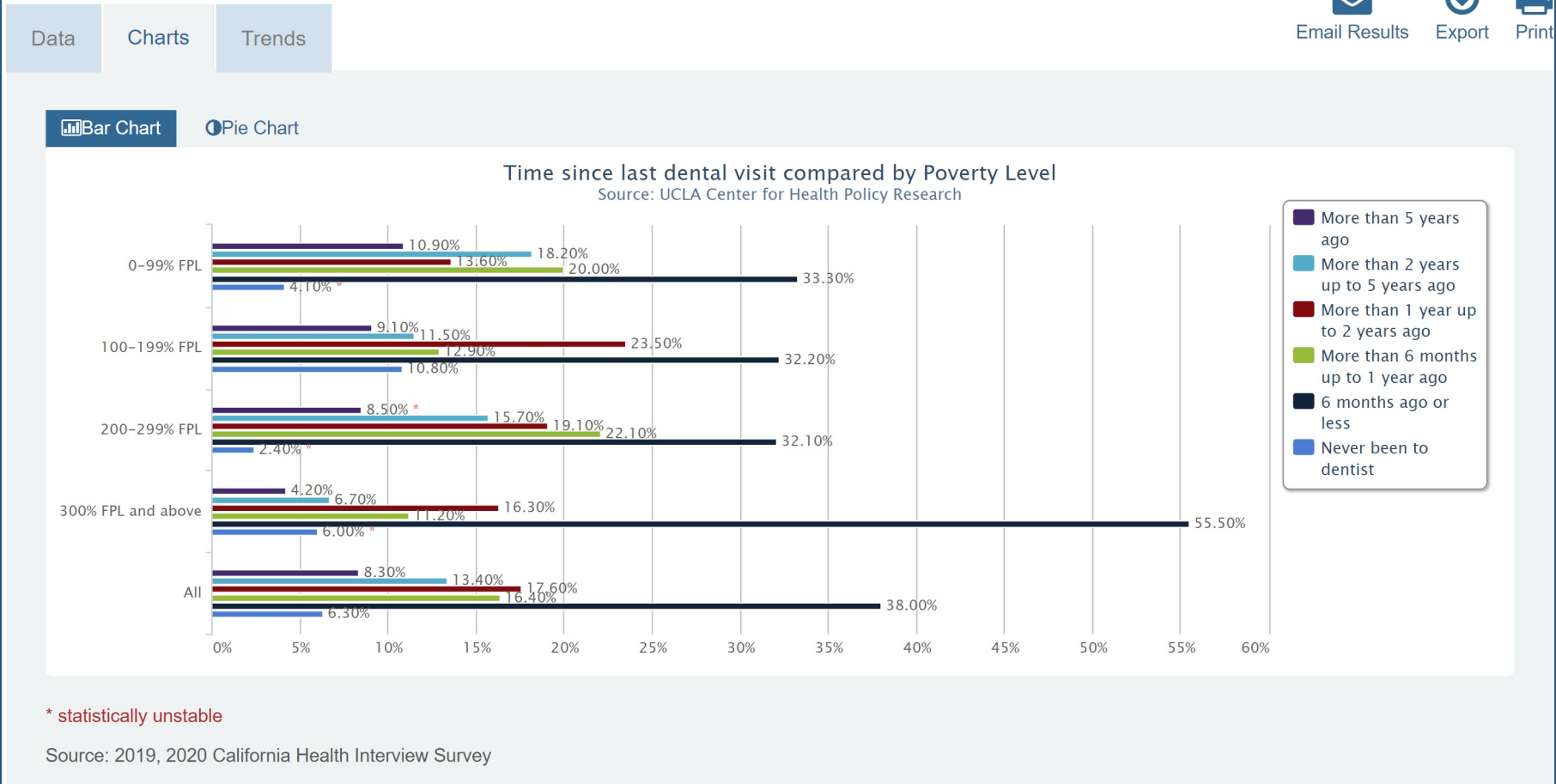
Get Data!

Time since last dental visit	Poverty Level				
	0-99% FPL	100-199% FPL	200-299% FPL	300% FPL and above	All
Never been to dentist	4.1% * (1.4 - 6.8) 9,000	10.8% (6.3 - 15.2) 20,000	2.4% * (0.0 - 5.4) 3,000	6.0% * (0.0 - 15.0) 11,000	6.3% (3.8 - 8.7) 43,000
6 months ago or less	33.3% (24.9 - 41.6) 75,000	32.2% (23.3 - 41.0) 58,000	32.1% (20.3 - 43.9) 38,000	55.5% (46.1 - 65.0) 91,000	38.0% (33.2 - 42.8) 262,000
More than 6 months up to 1 year ago	20.0% (12.2 - 27.7) 45,000	12.9% (8.1 - 17.8) 23,000	22.1% (12.9 - 31.4) 26,000	11.2% (6.6 - 15.9) 19,000	16.4% (12.9 - 19.9) 113,000
More than 1 year up to 2 years ago	13.6% (6.7 - 20.5) 31,000	23.5% (14.4 - 32.7) 44,000	19.1% (10.2 - 28.1) 22,000	16.3% (8.4 - 24.1) 25,000	17.6% (13.4 - 21.8) 122,000
More than 2 years up to 5 years ago	18.2% (9.0 - 27.4) 41,000	11.5% (6.2 - 16.9) 21,000	15.7% (6.9 - 24.6) 19,000	6.7% (3.1 - 10.3) 12,000	13.4% (9.7 - 17.2) 93,000
More than 5 years ago	10.9% (4.7 - 17.1) 25,000	9.1% (3.9 - 14.2) 16,000	8.5% * (1.1 - 15.8) 9,000	4.2% (1.8 - 6.7) 7,000	8.3% (5.5 - 11.1) 57,000
Total	100.0% 226,000	100.0% 182,000	100.0% 117,000	100.0% 165,000	100.0% 690,000

* statistically unstable

View Data in Bar Chart or Pie Chart Formats, or Pick a Response Category to View Trends Across Years

↻ Your Data Results



Export Data Table to Excel

Time since last dental visit compared by Poverty Level

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))
 Los Angeles County Service Planning Areas (SPA) (South)

* = statistically unstable

Time since last dental visit	Poverty Level														
	0-99% FPL			100-199% FPL			200-299% FPL			300% FPL and above			All		
	%	95% CI	Population	%	95% CI	Population	%	95% CI	Population	%	95% CI	Population	%	95% CI	Population
Never been to dentist	4.1*	1.4 - 6.8	9,000	10.8%	6.3 - 15.2	20,000	2.4*	0 - 5.4	3,000	6.0*	0 - 15.0	11,000	6.3%	3.8 - 8.7	43,000
6 months ago or less	33.3%	24.9 - 41.6	75,000	32.2%	23.3 - 41.0	58,000	32.1%	20.3 - 43.9	38,000	55.5%	46.1 - 65.0	91,000	38.0%	33.2 - 42.8	262,000
More than 6 months up to 1 year ago	20.0%	12.2 - 27.7	45,000	12.9%	8.1 - 17.8	23,000	22.1%	12.9 - 31.4	26,000	11.2%	6.6 - 15.9	19,000	16.4%	12.9 - 19.9	113,000
More than 1 year up to 2 years ago	13.6%	6.7 - 20.5	31,000	23.5%	14.4 - 32.7	44,000	19.1%	10.2 - 28.1	22,000	16.3%	8.4 - 24.1	25,000	17.6%	13.4 - 21.8	122,000
More than 2 years up to 5 years ago	18.2%	9.0 - 27.4	41,000	11.5%	6.2 - 16.9	21,000	15.7%	6.9 - 24.6	19,000	6.7%	3.1 - 10.3	12,000	13.4%	9.7 - 17.2	93,000
More than 5 years ago	10.9%	4.7 - 17.1	25,000	9.1%	3.9 - 14.2	16,000	8.5*	1.1 - 15.8	9,000	4.2%	1.8 - 6.7	7,000	8.3%	5.5 - 11.1	57,000
Total	100.0%	-	226,000	100.0%	-	182,000	100.0%	-	117,000	100.0%	-	165,000	100.0%	-	690,000

Created on: 12/29/2021 2:49 PM
 Source: 2019, 2020 California Health Interview Survey

AskCHIS On-Demand Learning Center

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

<http://chis.ucla.edu/CHIStraining>

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!

HIGHLIGHTS FROM THE 2020 CHIS



Essential workers were more likely to have had or thought they had COVID-19, but less willing to receive the vaccine

Ever had or thought they had COVID-19



15.1%
Essential
workers



12.1%
Non-essential
workers

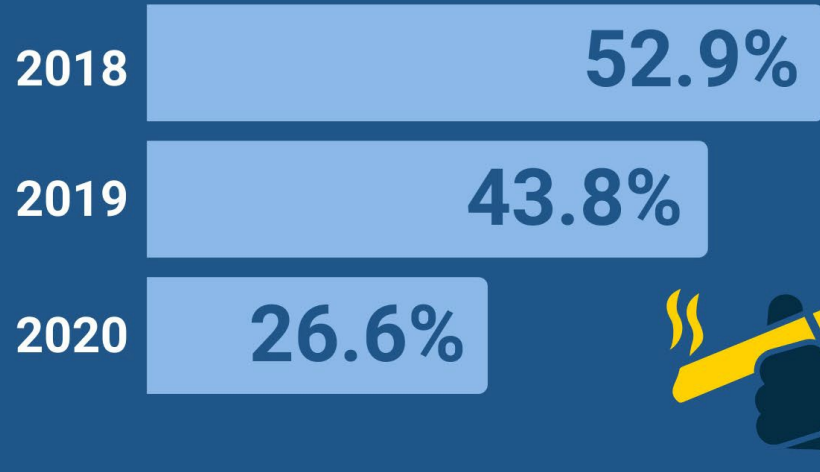
Would get the COVID-19 vaccine

73.6%
Essential
workers

76.7%
Non-essential
workers



 **Does less socializing = less exposure to smoking and less tobacco use?**



The percentage of adults who said they were exposed to secondhand smoke from tobacco products or vapor from e-cigarettes was cut in half compared to 2018.

	Flavored tobacco	E-cigarettes
2019	5.8%	4%
2020	4%	2.8%

Flavored tobacco, e-cigarette use in the past 30 days dropped by nearly one-third among adults.

Source: 2020 California Health Interview Survey

 **Dental insurance and time since last dental visit**

The proportion of adult respondents with dental insurance significantly increased from 2019 to 2020.

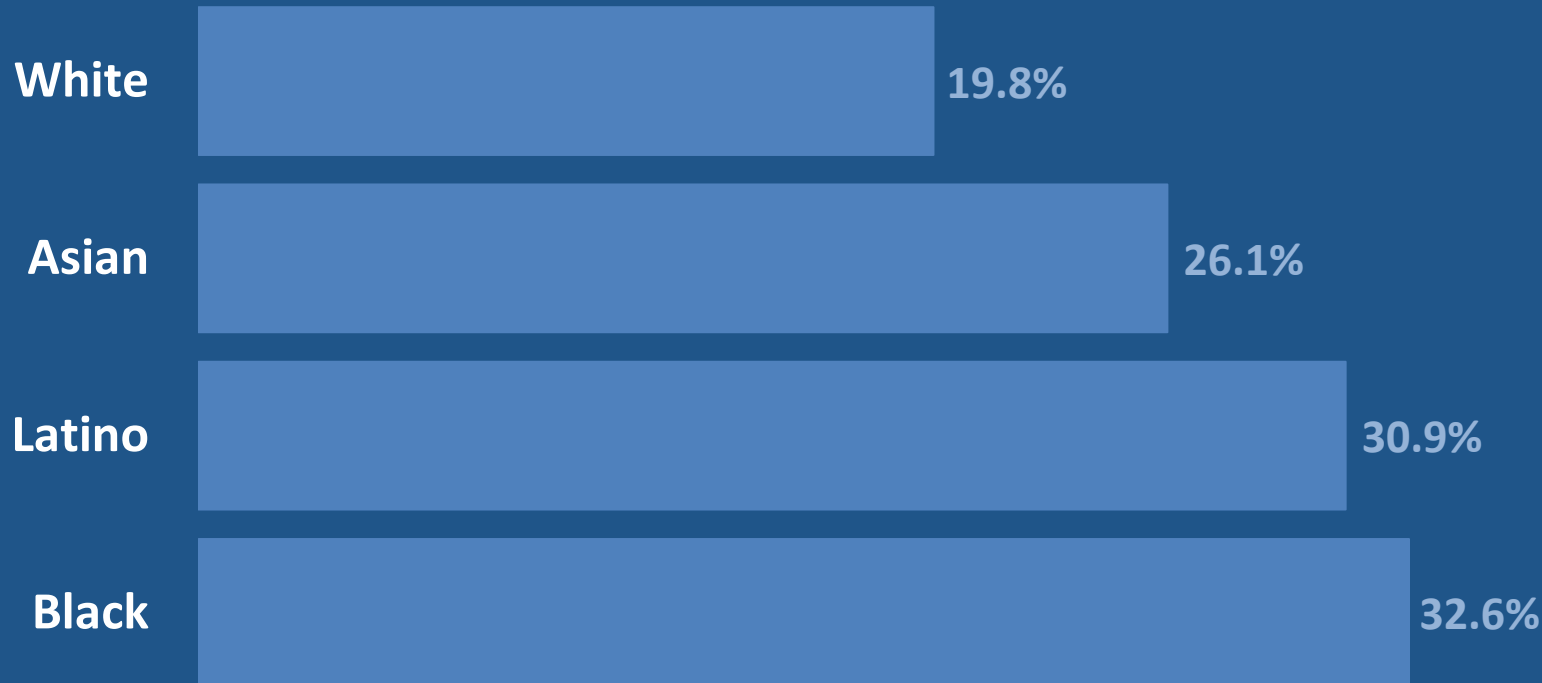
	2019	2020
Insured	68.1%	70.4%
Not insured	31.9%	29.6%

Time since last dental visit significantly increased from 2019 to 2020 for both adults and teens.

Time since last dental visit	Adults		Teens	
	2019	2020	2019	2020
Up to 1 year	69.7%	67.2%	93.4%	88.9%
More than 1 year or never visited	30.3%	32.8%	6.6%	11.1%

Source: 2019 & 2020 California Health Interview Survey

Race/ethnicity and fair or poor condition of teeth



The proportion of Asian, Latino, and Black adults who reported only fair or poor teeth condition was significantly higher than among White adults.

Source: 2020 California Health Interview Survey



Healthy changes in adolescent behaviors during 2020

Adolescents age 12-17 were less likely to engage in binge drinking in the past month

7%
in 2019
2.6%
in 2020



Adolescents age 12-17 were more likely to eat 5+ servings of fruit and vegetables daily

26.1%
in 2019
33.3%
in 2020



Source: 2020 California Health Interview Survey

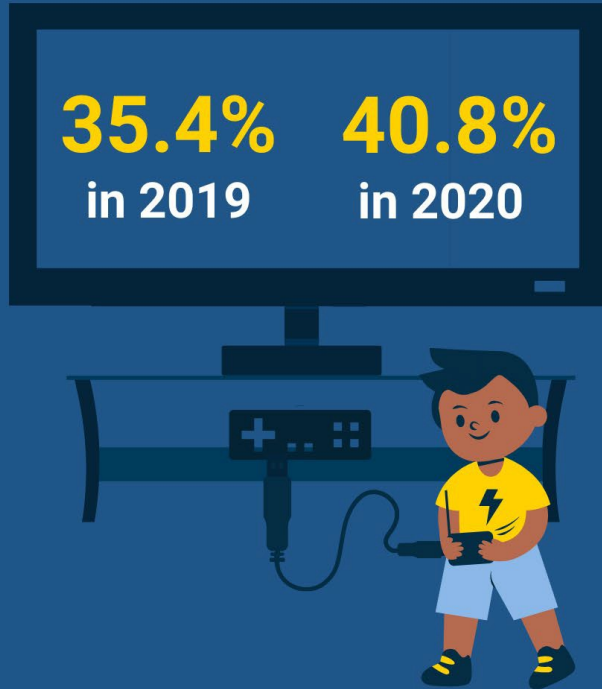


Unhealthy changes in adolescent behaviors during 2020

The percentage of children and adolescents age 2–17 who spent 5+ hours on sedentary activities on typical weekend days increased.



35.4% in 2019 **40.8%** in 2020



The percentage of adolescents age 12–17 who reported “almost constantly” being on the internet also rose.

28.6%
in 2019

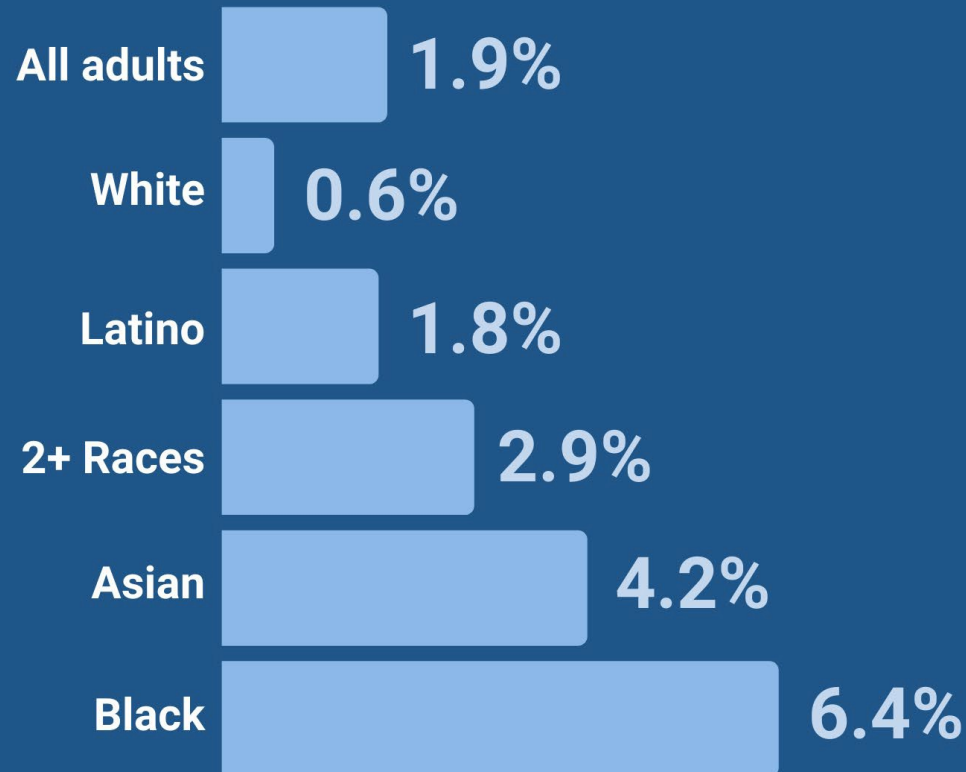
43.2%
in 2020

51% jump in adolescents who are “almost constantly” online





Race/ethnicity and unfair treatment during the pandemic*



The proportion of Black and Asian adults who reported unfair treatment because of race/ethnicity during the COVID-19 pandemic was much higher than among other racial/ethnic groups.



Mental health distress among those treated unfairly during the pandemic due to their race/ethnicity



	Suicidal thoughts among those who were...	Likely serious psychological distress (SPD) among those who were...
...treated unfairly because of race/ethnicity	19.3%	18.5%
...not treated unfairly because of race/ethnicity	12.1%	12.1%

Source: 2020 California Health Interview Survey



Economic challenges during pandemic led to increased household conflict

Households reporting an increase in interpersonal conflict during COVID-19 among adults who had



Difficulty paying for basic necessities

22.9%

No difficulty paying for basic necessities

11.9%



Lost a job during COVID-19

19.3%

Did not lose a job during COVID-19

13.9%

Source: 2020 California Health Interview Survey



Doctor visits and routine check-ups in the past 12 months were significantly affected during COVID-19 pandemic

67.9%

of California adults had a preventive visit in 2020, compared to 71.1% in 2019, the **lowest estimate since 2013**



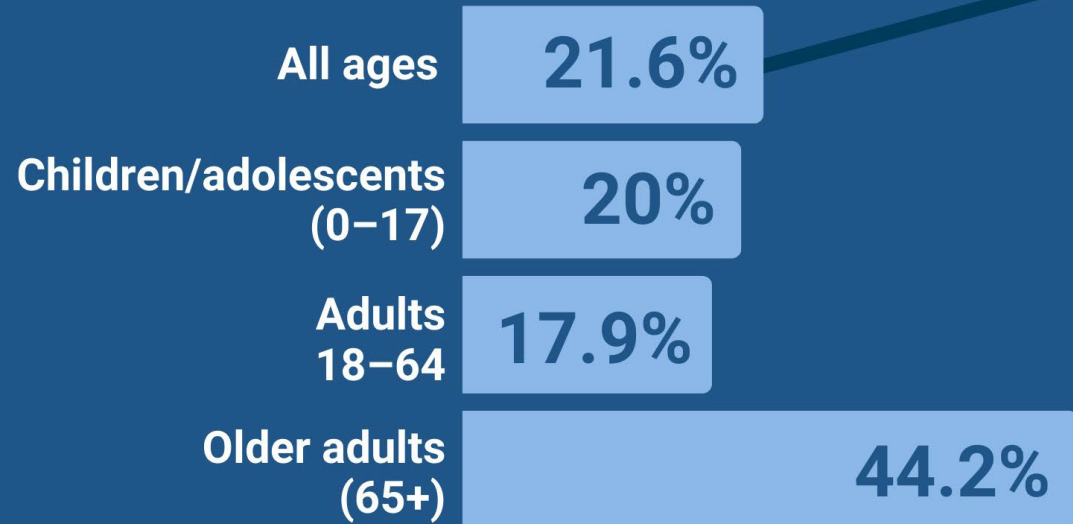
Source: 2020 California Health Interview Survey

Tan, S. "California Reached Health Coverage Milestone With 94% of People Insured in 2020, but Access to Care Remains a Challenge During the COVID-19 Pandemic," 2021, UCLA Center for Health Policy Research



COVID-19 as a barrier to care

Percentage who cited COVID-19 as a reason for forgoing care in 2020, by age group.



More than
1 in 5

Californians who delayed or had forgone medical care in 2020 cited COVID-19 as the main reason.



Older adults ages 65+ were nearly

2 1/2

times more likely than adults ages 18-64 to delay or forgo care.



Source: 2020 California Health Interview Survey

Tan, S. "California Reached Health Coverage Milestone With 94% of People Insured in 2020, but Access to Care Remains a Challenge During the COVID-19 Pandemic," 2021, UCLA Center for Health Policy Research

\$ Cost of medical care and lack of insurance were major barriers to accessing care

Main Reasons for Delaying or Forgoing Necessary Medical Care in California by Race/Ethnicity, 2020

	Latino	White (NL)	Black or African American (NL)	Asian (NL)	Two or More Races (NL)
Cost, lack of insurance, or other insurance-related reasons	40.0%	28.1%	31.9%	30.0%	28.4%
Health care system/provider issues and barriers	19.4%	16.9%	20.2%	20.0%	30.3%
Personal reasons	27.1%	26.8%	18.3%	28.6%	27.9%
COVID-19	13.5%	28.2%	29.6%	21.5%	13.4%

Note: NL = Non-Latino

Sources: 2020 California Health Interview Surveys.



40% of Latinos in California cited cost, lack of insurance, and or other insurance-related issues as the main reason for delaying or forgoing necessary medical care in 2020, compared to **28.1% of white people**

Source: 2020 California Health Interview Survey

Tan, S. "California Reached Health Coverage Milestone With 94% of People Insured in 2020, but Access to Care Remains a Challenge During the COVID-19 Pandemic," 2021, UCLA Center for Health Policy Research

Adults with greater poverty were more likely to have been diagnosed with certain chronic conditions

Ever diagnosed with diabetes

14.6%

0 – 199% FPL

9.4%

200% FPL
and above

Ever diagnosed with high blood pressure (borderline not included)

28.0%

0 – 199% FPL

23.9%

200% FPL
and above



Source: 2020 California Health Interview Survey

Discussion/Q&A

For more information, go to:

chis.ucla.edu

Or email:

toddhughes@ucla.edu