

# California Health Interview Survey (CHIS): Overview

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[www.CHIS.ucla.edu](http://www.CHIS.ucla.edu)



# California Health Interview Survey

- ▶ **CHIS is a RDD telephone survey of adults, adolescents, and children in California. The survey is conducted every two years.**
  
- ▶ **CHIS collects data on public health indicators for adults, adolescents and children**
  - Chronic conditions
  - Health behaviors
  - Health insurance coverage
  - Access to health care
  
- ▶ **CHIS is designed to meet state and local needs for population-based health data**
  - Policy analysis, development and advocacy
  - Service and program planning
  - Research

## ***CHIS is a Collaborative Project***

- ▶ **CHIS is a collaboration of three organizations**
  - UCLA Center for Health Policy Research
  - California Department of Health Services
  - Public Health Institute
- ▶ **Ongoing involvement of more than 140 individuals from 60 diverse organizations and agencies in formal advisory committees**
  - CHIS Advisory Board
  - Technical Advisory Committees and Working Groups
- ▶ **Other partners join CHIS in many activities and projects**
  - Data collection — Westat

# ***CHIS Sample Represents California's Diverse Population***

- ▶ **Large geographically stratified random samples:**
  - ▶ 55,000 households in 2001
  - ▶ 42,000 households in 2003
  - ▶ 55,000 households in 2005 (target)
  
- ▶ **CHIS provides health estimates:**
  - ▶ At local level for individual counties and regional county groups
  - ▶ Statewide for California's main ethnic groups
  - ▶ Statewide for some Asian subgroups and for American Indians
  
- ▶ **Questionnaires culturally adapted and translated:**
  - ▶ CHIS 2003 administered in 5 languages — English, Spanish, Chinese, Vietnamese, and Korean

## CHIS Response Rates

	<u>Response Rate</u>	
<u>Interview</u>	<u>2001</u>	<u>2003</u>
Screenener	59.2	55.9
Adult Extended	63.7	60.0
<u>Adult Overall</u>	<u>37.7</u>	<u>33.5</u>

## ***CHIS Covers Wide Range of Public Health Topics***

- ▶ **Questions drawn from NHIS and other national surveys, if possible**
- ▶ **Explicit “CORE” and “Additional topics”**
- ▶ **CHIS Adult CORE includes**
  - ▶ Demographic data, including geographic information
  - ▶ Health insurance coverage, access and utilization
  - ▶ Health status and selected chronic health conditions
  - ▶ Health behaviors (alcohol and tobacco use, physical activity, etc.)
  - ▶ Employment status

# ***Proposed Changes: CHIS 2005 “Additional Topics” – Adults***

## **▶ Additions (selected examples)**

- ▶ Dietary intake, dieting behavior
- ▶ Physical activity (walking, moderate, and vigorous)
- ▶ Cancer screening, cancer history, family history of cancer
- ▶ Neighborhood safety
- ▶ Mental health (K6, perceived need and utilization)

## **▶ Deletions (selected examples)**

- ▶ Social support
- ▶ Health insurance plan details (eye exams, glasses)
- ▶ Elder health (falls, incontinence)

# ***Proposed Changes: CHIS 2005 Design – Enhancing Response Rates***

- ▶ **Current methods of enhancing response rates**
  - ▶ Variety of mailings
  - ▶ Refusal conversion (46 calls/completed adult interview)
  - ▶ Multiple languages
  
- ▶ **Proposed additional methods of enhancing response rates**
  - ▶ Pre-paid incentives
  - ▶ Varying sponsorship

## ***Proposed Changes: CHIS 2005 Design: Cell phone-only pilot study***

- ▶ **Proposal: Conduct a survey of cell phone-only households in parallel with CHIS 2005**
  
- ▶ **Issue:**
  - ▶ Percentage of cell phone-only households in California is growing (currently about 5%)
  - ▶ Households without landlines differ considerably from those with landlines
  
- ▶ **General approach: Conduct an adult CHIS interview (about 100 interviews) in cell phone-only households by screening out households with a landline**

# CHIS Dissemination

- ▶ Publications with analytic results
- ▶ Electronic data files available for downloading
- ▶ Workshops and community briefings disseminate findings and encourage use
- ▶ Web site is portal to all information about CHIS
  - ▶ <http://www.chis.ucla.edu/>
- ▶ Electronic data estimates — **AskCHIS**
  - ▶ <http://www.chis.ucla.edu/main/default.asp>

# ***Measuring Ethnicity and Race in CHIS***

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# ***CHIS Sample Objectives***

- 1. Produce reliable estimates at the local (County) level, and**
  - 2. Produce reliable estimates for California's major race and ethnic groups, plus a number of smaller groups as well**
- ▶ These are competing objectives that are balanced through:
    - ▶ A large statewide sample**
    - ▶ A geographically stratified sample**
    - ▶ Oversampling of some Asian ethnic groups****
  - ▶ While not perfect, the ethnic and racial data provided by CHIS was generally not previously available**

# *Order and wording of CHIS questions*

## **1. Latina/o ethnicity**

Are you Latino or Hispanic?

## **2. Latina/o ethnic group (if YES to Latina/o ethnicity question)**

And what is your Latino or Hispanic ancestry or origin? Such as Mexican, Salvadoran, Cuban, Honduran and if you have more than one, tell me all of them.

## **3. Major race group**

{You said you are Latino or Hispanic. Also} please tell me which one or more of the following you would use to describe yourself. Would you describe yourself as Native Hawaiian, Other Pacific Islander, American Indian, Alaska Native, Asian, Black, African American, or White?

# *Order and wording of CHIS questions*

## **4. Tribal affiliation (if American Indian/Alaska Native)**

- a. You said, American Indian or Alaska Native, and what is your tribal heritage? If you have more than one tribe, tell me all of them.
- b. Are you an enrolled member in a federally or state recognized tribe?
- c. Which tribe are you enrolled in?

## **5. Asian ethnic group (if Asian)**

You said Asian, and what specific ethnic group are you, such as Chinese, Filipino, Vietnamese? If you are more than one, tell me all of them.

# *Order and wording of CHIS questions*

## **6. Pacific Islander ethnic group (if Pacific Islander)**

You said you are Pacific Islander. What specific ethnic group are you, such as Samoan, Tongan, or Guamanian? If you are more than one, tell me all of them.

## **7. Multiple race, most identify (if more than one race OR Latina/o ethnicity and a race group reported)**

You said that you are: [INSERT MULTIPLE RESPONSES]. Of these, which do you most identify with?

## ***Beyond race and ethnicity...***

- ▶ **Country of birth (Respondent, mother, father)**
- ▶ **If Respondent not born in U.S.:**
  - ▶ **Years in U.S., citizenship, green card**
- ▶ **Languages spoken at home, ability to speak English**
- ▶ **Difficulty communicating with doctor (last visit)**
- ▶ **Racial/ethnic discrimination**
  - ▶ **General (how often badly treated because of race/ethnicity?)**
  - ▶ **Health care (better treatment if of different race/ethnic group)**
- ▶ **Sexual orientation**
- ▶ **SPA level data for Los Angeles County (AskCHIS)**
- ▶ **All CHIS households geocoded**

# ***Constructing ethnic and racial variables***

- ▶ **First step: extensive cleaning of race/ethnic data takes place by Westat (which subcontracts with the Census Bureau to code the race-ethnic data) and the UCLA-CHIS team**
  - ▶ **Range, consistency, and logic checks**
  - ▶ **Upcoding of “other specify” data**
  - ▶ **Use of Census guidelines to classify ambiguous cases**
- ▶ **Manual review of more than 5,000 cases in CHIS 2003 by the UCLA-CHIS team**
  - ▶ **180 cases re-classified**

# ***Constructing ethnic and racial variables***

- ▶ **The ethnic and racial information collected in CHIS allows the construction of a variety of ethnic and racial classification variables**
  
- ▶ ***Census classification***
  - ▶ **Latina/o “ethnicity” and “race” are separate variables that are not mutually exclusive**
  - ▶ **Allows report of multiple races**

# ***Constructing ethnic and racial variables***

## **▶ *DOF (and OMB) classification***

- ▶ Combines race and Latina/o ethnicity into a single “race” measure**
- ▶ Includes a multiple race category**
- ▶ Latina/o ethnicity “trumps all” (i.e., any mention Latina/o is classified as single race Latino)**

## **▶ *Race UCLA-CHPR classification***

- ▶ Similar to the DOF/OMB classification, except:**
- ▶ Uses the “most identify” information to separate reports of Latina/o ethnicity and one or more racial groups OR reports of multiple races**
- ▶ Includes a multiple race category for those who identify as multi-racial (or do not “most identify” with one group)**

# ***Which variable to use?***

- ▶ ***CHIS PUFs and AskCHIS include:***
  - ▶ **3 major race/ethnic classification variables**
    - ▶ Census (separate variables for race and ethnicity)
    - ▶ DOF/OMB
    - ▶ UCLA-CHPR
  - ▶ **Multiple other race/ethnic constructs**
    - ▶ Race/ethnic “any mention” (*AskCHIS* only)
    - ▶ Asian and Latino ethnic groups
- ▶ ***Which variable should you use?***
  - ▶ **It depends...**
    - ▶ Group or groups of interest
    - ▶ Comparisons
    - ▶ Sample size
    - ▶ Other

# Comparing ethnic and racial variables

## ▶ Census -- Race

- ▶ AIAN
- ▶ Asian
- ▶ African American
- ▶ White
- ▶ Two or more
- ▶ Other
- ▶ Native Hawaiian and Other Pacific Islander

## ▶ Census – Ethnicity

- ▶ Latino
- ▶ Non-Latino

## ▶ DOF/OMB

- ▶ Latino
- ▶ NL AIAN
- ▶ NL Asian
- ▶ NL African American
- ▶ NL White
- ▶ NL Two or more
- ▶ (NL Other)

## ▶ UCLA-CHPR

- ▶ Latino
- ▶ AIAN
- ▶ Asian
- ▶ African American
- ▶ White
- ▶ Other/Two or more

## ***Race-Ethnic Distribution by Classification***

<b>Group</b>	<b>Census</b>	<b>DOF/OMB</b>	<b>UCLA-CHPR</b>
Latino	n.a.	30.7	26.0
American Indian/Alaska Native	2.7	0.7	1.2
Asian, Native Hawaiian & OPI	11.9	11.6	11.8
African American	6.3	6.1	6.3
White	59.4	48.8	51.6
Two or more	2.3	1.5	3.2
Other	17.4	0.6	n.a.
Latino (ethnicity)	30.7	n.a.	n.a.

## **CHIS 2003 Southern California Samples**

<b>County</b>	<b>Adult</b>	<b>Child</b>	<b>Teen</b>
Los Angeles	10,363	2,115	928
Orange	2,186	454	196
San Diego	2,319	461	208
San Bernardino	1,395	282	150
Riverside	1,186	268	136
Ventura	630	132	59

## ***CHIS 2003 Los Angeles County SPAs***

<b>Service Planning Area</b>	<b>Adult</b>	<b>Child</b>	<b>Teen</b>
1. Antelope Valley	623	176	88
2. San Fernando Valley	2,128	426	206
3. San Gabriel Valley	1,917	389	166
4. Metro	1,404	221	86
5. West	800	104	50
6. South	713	190	75
7. East	1,078	248	118
8. South Bay	1,700	361	139

# ***Accessing CHIS data: Public Use Files (PUFs) and AskCHIS***

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[www.CHIS.ucla.edu](http://www.CHIS.ucla.edu)

## ***CHIS Public Use Files (PUFs)***

***The CHIS 2001 & 2003 Public Use Files are . . .***

- ▶ Publicly available for free from the CHIS website
- ▶ Microdata files – each record in the file is an individual case (i.e., a completed interview)
- ▶ Available separately for Adults, Children, and Adolescents
- ▶ Available in SAS, STATA, and SPSS format

# ***CHIS Public Use Files (PUFs)***

## ***The CHIS 2001 & 2003 Public Use Files . . .***

- ▶ Include detailed demographic information, but do not include geographic identifiers or other sensitive variables that could disclose respondent identity
- ▶ Include imputed values for missing data for most variables
- ▶ Include sample weights
- ▶ New weights for CHIS 2001 were created and released when the CHIS 2003 data was released (Feb.7)  
The new CHIS 2001 weights:
  - ▶ **Use identical weighting methods to allow valid comparisons over time**
  - ▶ **Combine cases from the statewide CHIS sample (RDD) with oversampled groups—Koreans and Vietnamese**



## **Basic**

**AskCHIS Basic** ([Get started!](#)) is recommended for people who don't have significant experience with data analysis.

In this version, you can:

- Select statewide or county geographic areas for your results
- Customize your population using race, gender, age, and/or poverty level
- Compare your results by the most common comparison groups
- View your results in easy-to-read tables or graphs
- Export your results into MS Excel format

[GET STARTED!](#)

## **PRO**

**AskCHIS PRO** ([Get started!](#)) is recommended for people who have significant experience with data analysis.

In this version, you can do everything *AskCHIS Basic* provides, PLUS:

- Select additional geographic groupings
- Make unlimited combinations of the subset populations in your results
- Cross-tabulate your results by any CHIS variable
- Customize your data display preferences
- Save your results to your personal library
- Take advantage of additional graph appearance options
- View standard errors or 90%/95%/99% confidence intervals

[GET STARTED!](#)



- 
- ▶ **AskCHIS PRO offers more features to users more experienced with data analysis.**
  
  - ▶ **In addition to preserving prior existing features, new functionality includes:**
    - ▶ Automatically saving a user's commonly used subsets and preferred table orientation display (summing vertically or horizontally)
    - ▶ Combining data years across identical variables for stronger estimates
    - ▶ Comparing across data years to view similarities and differences for identical variables
    - ▶ Hiding rows or columns in a query that are not of interest



**GEOGRAPHIC AREA**  
is currently set as

Entire state of California

[EDIT](#)

**MAIN TOPIC**  
is currently set as

Currently insured

[EDIT](#)

← SWITCH →

**COMPARE BY**  
is currently set as

Race - UCLA  
CHPR

[CLEAR](#) [EDIT](#)

**POPULATION**  
to include is set as

- 0-99% FPL
- 100-199% FPL

[CLEAR](#) [EDIT](#)

**YOUR RESULTS!**

**Additional restrictions for your results:**

These results may have excluded survey responses for which answers were not provided or are unknown.

**DATA SOURCE YEAR OPTIONS**

Results currently compare 2001 and 2003 CHIS data

- [COMBINE THE YEARS' DATA](#)
- [SHOW ONLY 2001 DATA](#)
- [SHOW ONLY 2003 DATA](#)

Results include **95%** confidence intervals ([What is this?](#))

**RESULTS COMPARE 2001 and 2003 DATA**

		Race - UCLA CHPR		
		Asian	African American	White
Currently insured	2001	<b>22.9%</b> (20.1 - 25.6) 280,000	<b>10.5%</b> (8.5 - 12.6) 107,000	<b>16.4%</b> (15.3 - 17.6) 592,000
	2003	<b>18.0%</b> (15.4 - 20.6) 230,000	<b>14.1%</b> (11.4 - 16.8) 140,000	<b>15.9%</b> (14.6 - 17.3) 501,000
Not currently insured	2001	<b>22.9%</b> (20.1 - 25.6) 280,000	<b>10.5%</b> (8.5 - 12.6) 107,000	<b>16.4%</b> (15.3 - 17.6) 592,000
	2003	<b>18.0%</b> (15.4 - 20.6) 230,000	<b>14.1%</b> (11.4 - 16.8) 140,000	<b>15.9%</b> (14.6 - 17.3) 501,000

Source: 2001, 2003 California Health Interview Survey

***“Making California’s Voices Heard on Health”***

***[www.chis.ucla.edu](http://www.chis.ucla.edu)***



***Explore CHIS data and get estimates from the survey***