The California Endowment’s
14 Building Health Community
Health Profiles

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Presentation Outline

1. Brief overview of the California Health Interview Survey
2. CHIS 2009 *Building Health Community* oversample
3. Highlights of the *BHC* Health Profiles
4. Data interpretation, use and limitations
5. Learn more
CHIS introduction

- The California Health Interview Survey (CHIS) is California’s source of state and local *population-based* health data

- CHIS is designed to provide easily accessible data that can be used:
  1. To support decision making at the local level and statewide in public health and health care
     - For policy analysis, development and advocacy
     - For State and county surveillance of public health indicators
     - For service and program planning, development, and evaluation
  2. To understand and measure health needs and disparities in California — characterized by ethnic, geographic, age, and social class diversity
Methods: how is CHIS done?

- Large, geographically stratified random digit dial (RDD) telephone survey designed to provide statistically reliable estimates:
  1. At the local level for counties (adults) and statewide
  2. For major racial/ethnic groups and many ethnic subgroups

- Geographic stratification
  - 56 total geographically defined strata
    - 2 counties with sub-county strata
      - Los Angeles: 8 Service Planning Areas (SPAs)
      - San Diego: 6 Health Regions
    - 39 individual county strata (excluding LA and San Diego)
    - 3 grouped county strata containing the 17 smallest counties (by population)
Methods: how is CHIS done?

- **Two separate RDD samples:**
  1. Landline telephone numbers at stratum level (56 strata)
  2. Cellular telephone numbers (since CHIS 2007) at “region” level (7 regions)

- **Three interviews per household (potentially)**
  - Adult (age 18 and over—38 minutes)
  - Teen (age 12 to 17—20 min., teen interviewed after adult permission)
  - Child (age 0 to 11—15 min., with most knowledgeable adult)

- **Interviews conducted in 6 languages:** English, Spanish, Chinese (Cantonese and Mandarin), Korean, and Vietnamese
CHIS 2009 BHC oversample

- The California Endowment (TCE) sponsored an oversample of the 14 *Building Health Community (BHC)* sites as part of CHIS 2009

- These data can serve as baseline health indicators for the *BHC* sites and help track community level change over time

- Full CHIS questionnaires (adult, child, and teen) administered for the *BHC* oversample
BHC oversample: methods

- Eligibility for BHC oversample was different than for CHIS
  1. Residence within geographically defined BHC site, and
  2. Adult respondent under age 40, or over age 40 with a child/teen in the household

- Landline RDD sample: target phone numbers to the BHC sites
  1. Reverse match telephone number to mailing address to determine geographic eligibility
  2. Unmatched numbers: call a sample to determine geographic eligibility
  3. Call all eligible (geography) telephone numbers to determine eligibility based on age and presence of children/teens
**BHC oversample: methods**

- Final oversample data used to create the *BHC* health profiles includes combined interviews from two sources:
  1. Cases from the regular CHIS sample (including cell phones) that met *BHC* oversample eligibility criteria, and
  2. Cases from the *BHC* targeted RDD oversample (no cell phones) that met the eligibility criteria

- Attempted to complete interviews in about 500 households for each *BHC* location
# Sample Size by BHC Site

<table>
<thead>
<tr>
<th>Building Health Community Site Name</th>
<th>Adults</th>
<th>Teens</th>
<th>Children</th>
<th>Total Sample</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boyle Heights</td>
<td>333</td>
<td>64</td>
<td>172</td>
<td>569</td>
</tr>
<tr>
<td>Central Santa Ana</td>
<td>330</td>
<td>62</td>
<td>213</td>
<td>605</td>
</tr>
<tr>
<td>Central/SE/SW Fresno</td>
<td>331</td>
<td>62</td>
<td>189</td>
<td>582</td>
</tr>
<tr>
<td>Central/West Long Beach</td>
<td>323</td>
<td>53</td>
<td>183</td>
<td>559</td>
</tr>
<tr>
<td>City Heights</td>
<td>296</td>
<td>59</td>
<td>182</td>
<td>537</td>
</tr>
<tr>
<td>Coachella Valley</td>
<td>301</td>
<td>73</td>
<td>194</td>
<td>568</td>
</tr>
<tr>
<td>Del Norte County/Adj. Tribal Lands</td>
<td>373</td>
<td>86</td>
<td>204</td>
<td>663</td>
</tr>
<tr>
<td>East Oakland</td>
<td>345</td>
<td>64</td>
<td>203</td>
<td>612</td>
</tr>
<tr>
<td>East Salinas</td>
<td>328</td>
<td>56</td>
<td>236</td>
<td>620</td>
</tr>
<tr>
<td>Richmond</td>
<td>306</td>
<td>59</td>
<td>179</td>
<td>544</td>
</tr>
<tr>
<td>South Kern (Arvin-Lamont)</td>
<td>368</td>
<td>84</td>
<td>286</td>
<td>738</td>
</tr>
<tr>
<td>South Los Angeles</td>
<td>360</td>
<td>78</td>
<td>171</td>
<td>609</td>
</tr>
<tr>
<td>South Sacramento</td>
<td>349</td>
<td>75</td>
<td>191</td>
<td>615</td>
</tr>
<tr>
<td>Southwest/East Merced</td>
<td>331</td>
<td>68</td>
<td>181</td>
<td>580</td>
</tr>
</tbody>
</table>
Oversample data, demographics & weighting

- For analysis, sample data are weighted to updated Census estimates for the BHC target population (based on eligibility criteria)

- Weighting does many things:
  - Helps to account for biases in data collection
  - Accounts for the probability of selection
  - Weighted data matches community demographic profile—for the eligible population

- Findings represent the eligible target population for the BHC sites
How estimates are generated

All households

Estimates

Weights

Sample

www.chis.ucla.edu
**BHC Health Profiles**

- 14 Health Profiles in English and Spanish
- Selected health outcomes presented
- Estimates are weighted to adjust the sample data so it accurately represents the community
- Findings reflect the BHC site and “eligible” population only
- Comparison data (county, region, state) are for the same “eligible” population (age and household composition)
Coachella Valley Highlights

## CHILDREN

*Children age 0-12 and teens age 12-17 unless otherwise noted*

<table>
<thead>
<tr>
<th>Current Insurance Coverage</th>
<th>Coachella Valley % (95% CI)</th>
<th>Riverside County %</th>
<th>California %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uninsured</td>
<td>15 (8-23)</td>
<td>4*</td>
<td>5*</td>
</tr>
<tr>
<td>Insured by government program</td>
<td>72 (63-81)</td>
<td>37*</td>
<td>38*</td>
</tr>
<tr>
<td>Insured by private coverage/employer</td>
<td>13 (8-18)</td>
<td>59*</td>
<td>57*</td>
</tr>
</tbody>
</table>

* Denotes statistically significant difference from BHC site estimate. See Methods for more details.

Note: Estimates for Current Insurance Coverage may not add up to 100% due to rounding.
South Kern Highlights

**ADULTS**

*Adults with children under age 18 and adults age 18-40 unless otherwise noted*

<table>
<thead>
<tr>
<th>Current Insurance Coverage</th>
<th>South Kern % (95% CI)</th>
<th>Kern County %</th>
<th>California %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uninsured</td>
<td>40 (30-50)</td>
<td>25</td>
<td>22*</td>
</tr>
<tr>
<td>Insured by government program</td>
<td>35 (26-45)</td>
<td>30</td>
<td>17*</td>
</tr>
<tr>
<td>Insured by private coverage/employer</td>
<td>25 (16-33)</td>
<td>45*</td>
<td>61*</td>
</tr>
</tbody>
</table>

* Denotes statistically significant difference from BHC site estimate. See Methods for more details.

^ Denominator only includes parents of children under age 18.

Note: Estimates for Current Insurance Coverage may not add up to 100% due to rounding.
South Los Angeles Highlights

**ADULTS**

*Adults with children under age 18 and adults age 18-40 unless otherwise noted*

<table>
<thead>
<tr>
<th>Current Health Conditions</th>
<th>South Los Angeles % (95% CI)</th>
<th>Los Angeles County %</th>
<th>California %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Obese[^3^]</td>
<td>39 (24-54)</td>
<td>21*</td>
<td>21*</td>
</tr>
<tr>
<td>Diagnosed with asthma</td>
<td>5 (2-7)</td>
<td>11*</td>
<td>14*</td>
</tr>
<tr>
<td>Fair/poor health[^1^]</td>
<td>34 (19-49)</td>
<td>18*</td>
<td>16*</td>
</tr>
<tr>
<td>Severe psychological distress in the last year[^4^]</td>
<td>6 (2-11)</td>
<td>8</td>
<td>7</td>
</tr>
<tr>
<td>Binge drinking in the last year[^5^]</td>
<td>31 (17-46)</td>
<td>33</td>
<td>39</td>
</tr>
</tbody>
</table>

* Denotes statistically significant difference from BHC site estimate. See Methods for more details.


Note: Estimates for Current Insurance Coverage may not add up to 100% due to rounding.
Interpreting profile findings

- Findings are not meant to be disaggregated, but are designed to represent the eligible community as a whole.
- Confidence intervals provide a range for an estimate; the “true” value is likely to fall within that range.
  - Some estimates have wide confidence intervals because of small sample size (most notably the teen sample).
- Statistical testing of comparisons indicated in profile.
Data can be used in various ways

- Identify community health needs
- Track progress and gauge effectiveness of community initiatives
- Offer evidence for advocacy
- Motivate personal and community wide change
Data limitations and challenges

- Estimates are representative of the “target” BHC population
  - e.g., parents of children age 0-18 and adults age 18-40, teens and children age 0-17
- Due to small sample size, some estimates are unstable
  - e.g., it is difficult to produce estimates for children age 0-5 only
Learn More

- AskCHIS workshops coming to BHC site
- More indicators are available than those reported in the profiles
- If interested in additional data runs from the CHIS oversample, contact Mona at The California Endowment
For questions and feedback, contact us at: chis@ucla.edu

Thank you