

The BARHII Framework Trying To Define A New Public Health Practice That Addresses The Social Determinants of Health

**CDPH Public Health Advisory
Committee
July 30, 2010**

**Tony Iton, M.D., J.D., MPH
Senior Vice President
The California Endowment**



HP 2010

Goal 1: Increase Quality and Years of Healthy Life

- The first goal of Healthy People 2010 is to help individuals of all ages increase life expectancy *and* improve their quality of life.

Goal 2: Eliminate Health Disparities

- The second goal of Healthy People 2010 is to eliminate health disparities among segments of the population, including differences that occur by gender, race or ethnicity, education or income, disability, geographic location, or sexual orientation.

CERTIFICATE OF DEATH

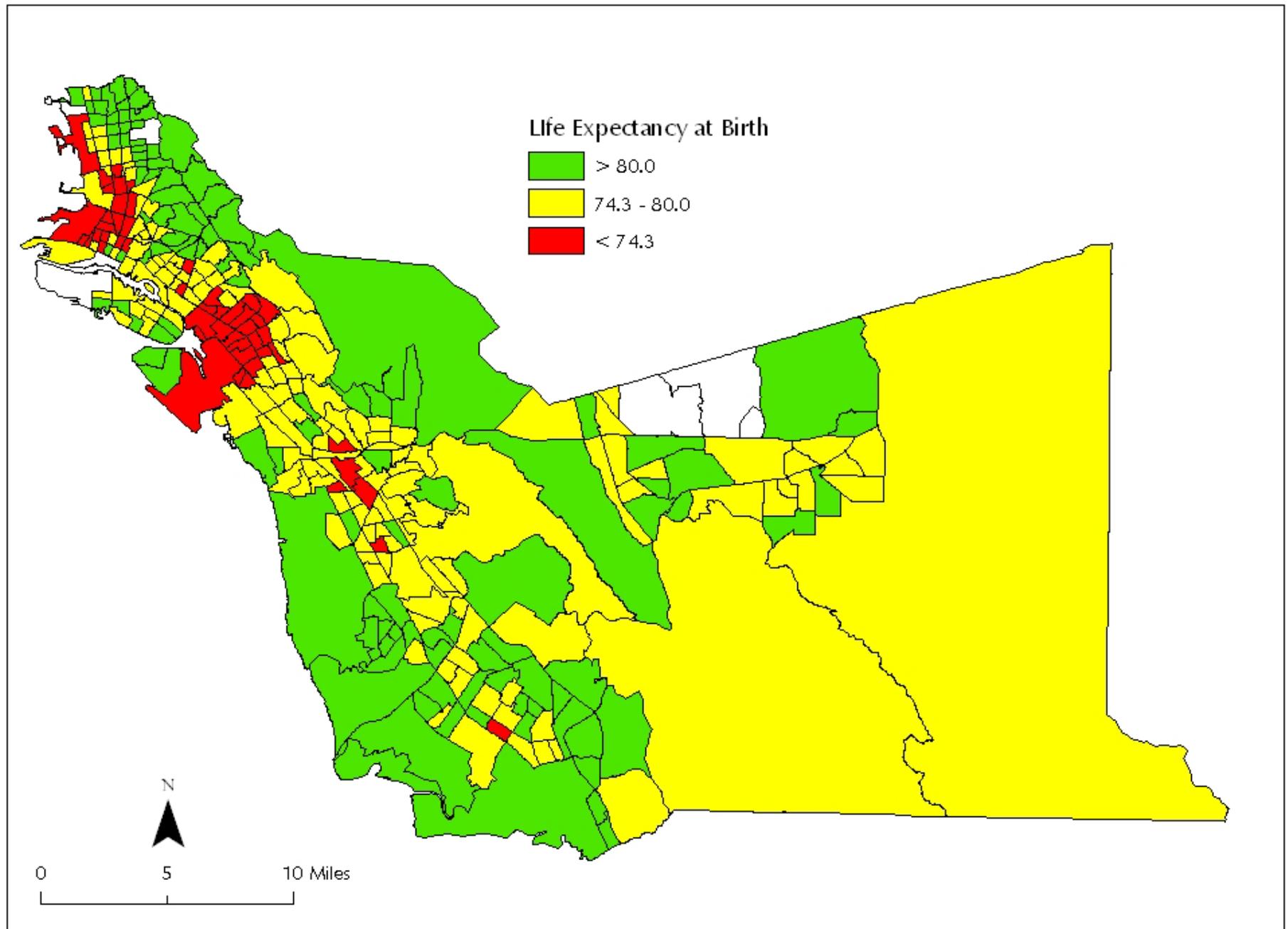
STATE OF CALIFORNIA
USE BLACK INK ONLY (NO ERASURES, WHITEOUTS OR ALTERATIONS)
VS-1 (REV 10/4)

3200701000029

LOCAL REGISTRATION NUMBER

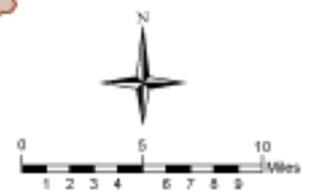
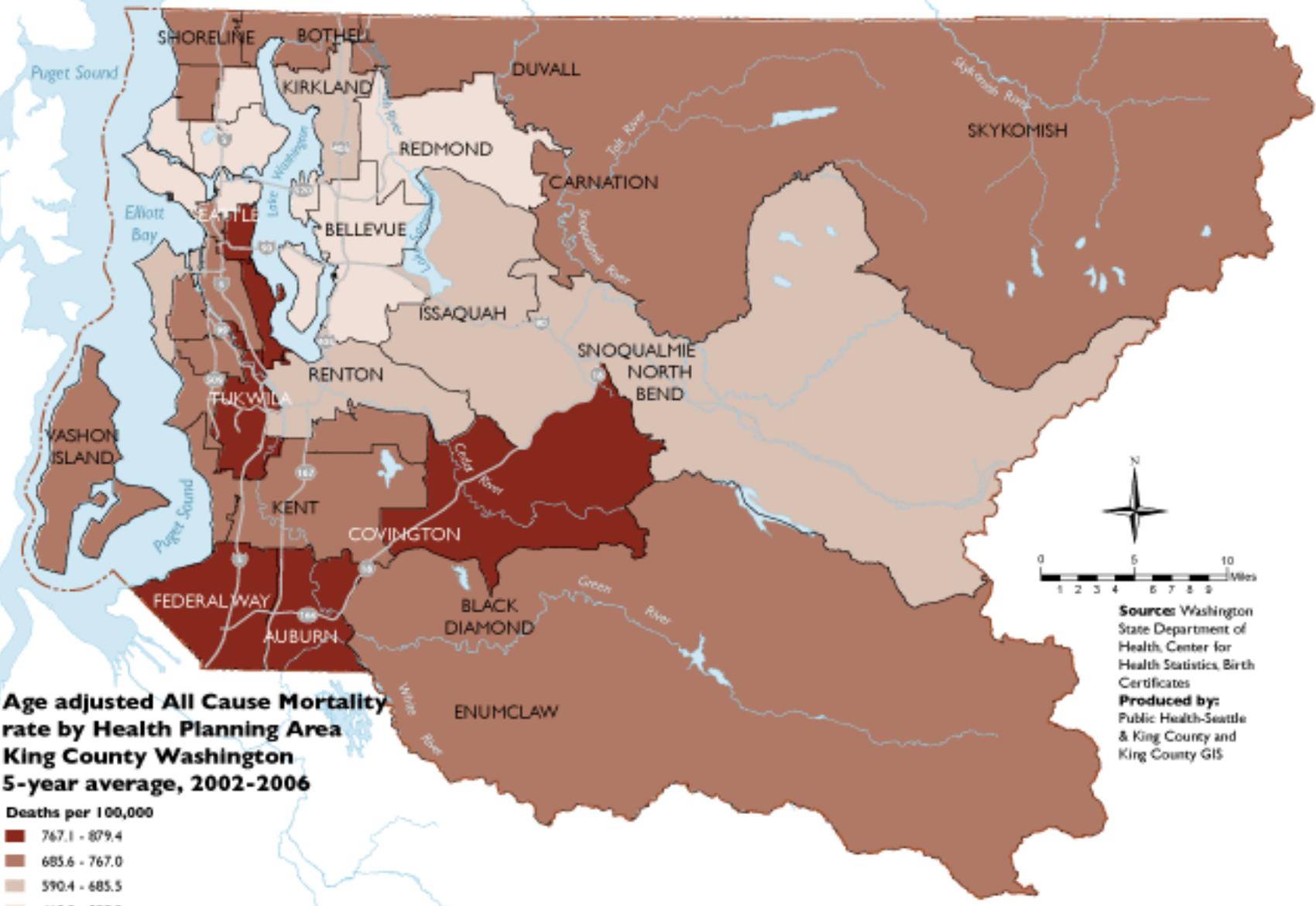
1. NAME OF DECEDENT -- FIRST (Given) DONALD		2. MIDDLE H.		3. LAST (Family) DUCK	
9. BIRTH STATE/FOREIGN COUNTRY FINLAND		10. SOCIAL SECURITY NUMBER 243-65-9974		11. EVER IN U.S. ARMED FORCES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> UNK	
13. EDUCATION -- Highest Level/Degree (see worksheet on back) 06		14/15. WAS DECEDENT HISPANIC/LATINO(A)/SPANISH? (if yes, see worksheet on back) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		16. DECEDENT'S RACE -- Up to three races may be listed (see worksheet on back) CAUCASIAN	
17. USUAL OCCUPATION -- Type of work for most of life. DO NOT USE RETIRED TEACHER		18. KIND OF BUSINESS OR INDUSTRY (e.g., grocery store, road construction, employment agency, etc.) EDUCATION		19. YEARS IN OCCUPATION 4	
20. DECEDENT'S RESIDENCE (Street and number or location) 348 8TH AVE					
21. CITY ALAMEDA		22. COUNTY/PROVINCE ALAMEDA		23. ZIP CODE 94501	
24. YEARS IN COUNTY 3		25. STATE/FOREIGN COUNTRY CA			
26. INFORMANT'S RELATIONSHIP SUE -, MOUSE			27. INFORMANT'S MAILING ADDRESS (Street and number or rural route number, city or town, state, ZIP) 345 HIGH ST, OAKLAND, CA 94601		
28. NAME OF SURVIVING SPOUSE -- FIRST -		29. MIDDLE -		30. LAST (Maiden Name) -	
31. NAME OF FATHER -- FIRST THOMAS		32. MIDDLE -		33. LAST DUCK	
34. BIRTH STATE CA		35. NAME OF MOTHER -- FIRST MINNIE		36. MIDDLE -	
37. LAST (Maiden) UNKNOWN		38. BIRTH STATE UNKNOWN			
39. DISPOSITION DATE mm/dd/yyyy 01/22/2007		40. PLACE OF FINAL DISPOSITION RES 345 HIGH ST, OAKLAND, CA 94601			
41. TYPE OF DISPOSITION(S) CR/RES		42. SIGNATURE OF EMBALMER MANUEL FLORES		43. LICENSE NUMBER EMB6370	
44. NAME OF FUNERAL ESTABLISHMENT CLARENCE N COOPER MORTUARY INC		45. LICENSE NUMBER FD381		46. SIGNATURE OF LOCAL REGISTRAR ANTHONY ITON, M.D.	
47. DATE mm/dd/yyyy 01/18/2007					
101. PLACE OF DEATH EDEN MEDICAL CENTER					
102. IF HOSPITAL, SPECIFY ONE <input checked="" type="checkbox"/> IP <input type="checkbox"/> ER/OP <input type="checkbox"/> DOA			103. IF OTHER THAN HOSPITAL, SPECIFY ONE <input type="checkbox"/> Hospice <input type="checkbox"/> Nursing Home/LTC <input type="checkbox"/> Decedent's Home <input type="checkbox"/> Other		
104. COUNTY ALAMEDA		105. FACILITY ADDRESS OR LOCATION WHERE FOUND (Street and number or location) 20103 LAKE CHABOT RD		106. CITY CASTRO VALLEY	
107. CAUSE OF DEATH as cardiac arrest, respiratory arrest, or ventricular fibrillation without showing the etiology. DO NOT enter terminal events such as cardiac arrest, respiratory arrest, or ventricular fibrillation without showing the etiology. DO NOT ABBREVIATE.					
IMMEDIATE CAUSE (Final disease or condition resulting in death) (A) PNEUMONIA		108. DEATH REPORTED TO CORONER? (A) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO REFERRAL NUMBER 0		109. BIOPSY PERFORMED? (B) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
(B) BRONCHITIS		110. AUTOPSY PERFORMED? (C) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		111. USED IN DETERMINING CAUSE? (D) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
112. OTHER SIGNIFICANT CONDITIONS CONTRIBUTING TO DEATH BUT NOT RESULTING IN THE UNDERLYING CAUSE GIVEN IN 107 DEMENTIA					
113. WAS OPERATION PERFORMED FOR ANY CONDITION IN ITEM 107 OR 112? (if yes, list type of operation and date.) NO					
113A. IF FEMALE, PREGNANT IN LAST YEAR? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNK					
114. I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE DEATH OCCURRED AT THE HOUR, DATE, AND PLACE STATED FROM THE CAUSES STATED. Decedent Attended Since mm/dd/yyyy 02/03/2006		115. SIGNATURE AND TITLE OF CERTIFIER GARY WINSETT BROWN M.D.		116. LICENSE NUMBER A38965	
Decedent Last Seen Alive mm/dd/yyyy 01/10/2007		117. DATE mm/dd/yyyy 01/10/2007			
118. TYPE ATTENDING PHYSICIAN'S NAME, MAILING ADDRESS, ZIP CODE MICHAEL ANDREW HOGARTH M.D. 2315 STOCKTON BLVD, SACRAMENTO, CA 95817					
119. I CERTIFY THAT IN MY OPINION DEATH OCCURRED AT THE HOUR, DATE, AND PLACE STATED FROM THE CAUSES STATED.					
MANNER OF DEATH <input type="checkbox"/> Natural <input type="checkbox"/> Accident <input type="checkbox"/> Homicide <input type="checkbox"/> Suicide <input type="checkbox"/> Pending Investigation <input type="checkbox"/> Could not be determined		120. INJURED AT WORK? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNK		121. INJURY DATE mm/dd/yyyy	
122. HOUR (24 Hours) 0034					
123. PLACE OF INJURY (e.g., home, construction site, wooded area, etc.)					
124. DESCRIBE HOW INJURY OCCURRED (Events which resulted in injury)					
125. LOCATION OF INJURY (Street and number, or location, and city, and ZIP)					
126. SIGNATURE OF CORONER / DEPUTY CORONER			127. DATE mm/dd/yyyy		128. TYPE NAME, TITLE OF CORONER / DEPUTY CORONER
STATE REGISTRAR					
A B C D E					
					
FAX AUTH. #					
CENSUS TRACT					
012007000007315					

Life Expectancy by Tract



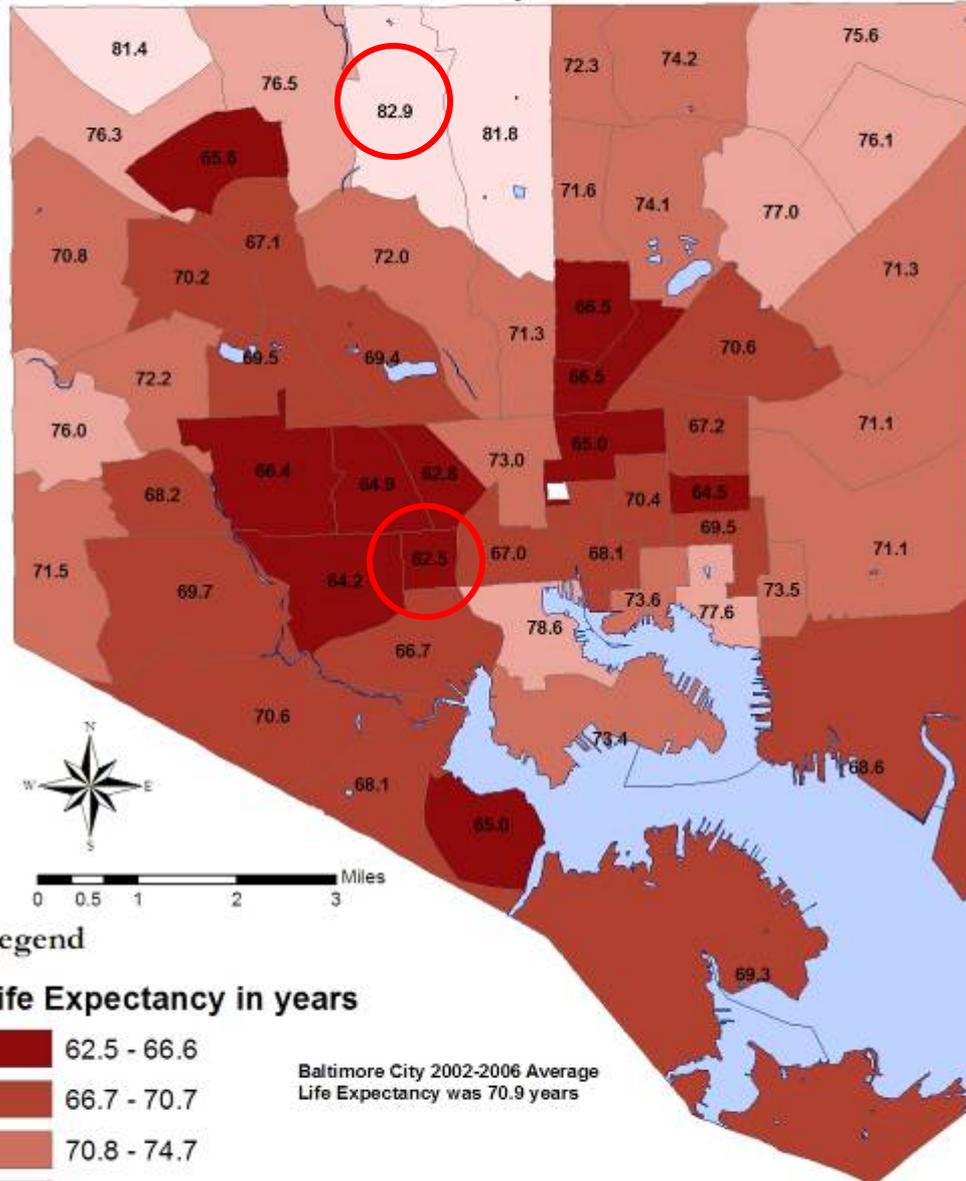
**Age adjusted All Cause Mortality rate by Health Planning Area
King County Washington
5-year average, 2002-2006**

- Deaths per 100,000
- 767.1 - 879.4
 - 685.6 - 767.0
 - 590.4 - 685.5
 - 469.5 - 590.3
- Health Planning Area
 - - - King County boundary

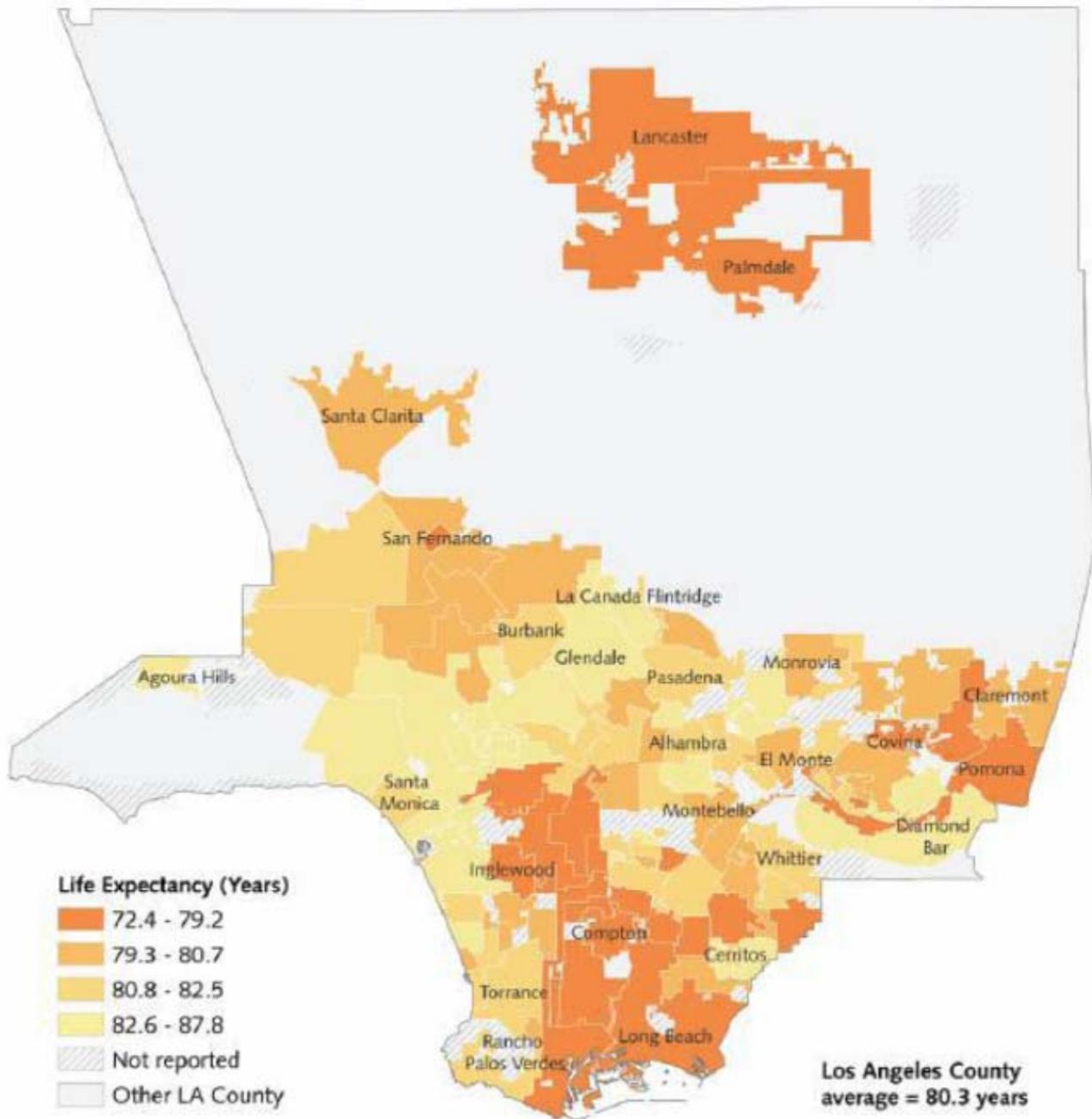


Sources: Washington State Department of Health, Center for Health Statistics, Birth Certificates
Produced by: Public Health-Seattle & King County and King County GIS

Life Expectancy in Years by Community Statistical Area, Baltimore City, 2002-2006



Baltimore City Health Department analysis using data from the Maryland Department of Health and Mental Hygiene's Vital Statistics Administration. Community Statistical Areas (CSAs) - Clusters of Baltimore neighborhoods that were created along census tract boundaries to form 55 CSAs.



Lancaster

Palmdale

Santa Clarita

San Fernando

La Canada Flintridge

Burbank

Glendale

Pasadena

Monrovia

Claremont

Agoura Hills

Alhambra

El Monte

Covina

Pomona

Santa Monica

Montebello

Diamond Bar

Inglewood

Whittier

Compton

Cerritos

Torrance

Long Beach

Rancho Palos Verdes

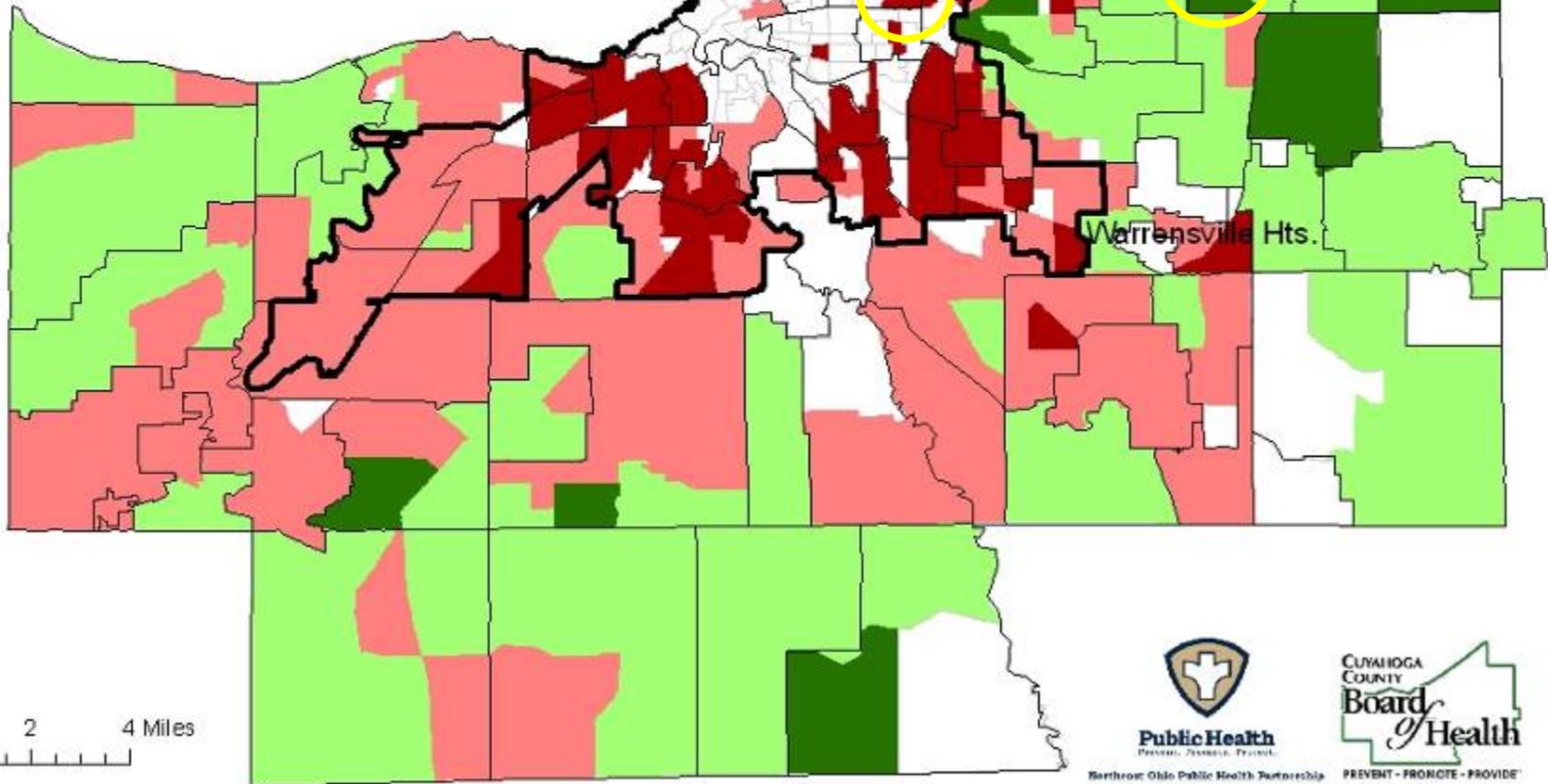
Cuyahoga County: Life Expectancy

Life Expectancy (years)



Hough 64.0

Lyndhurst 88.5

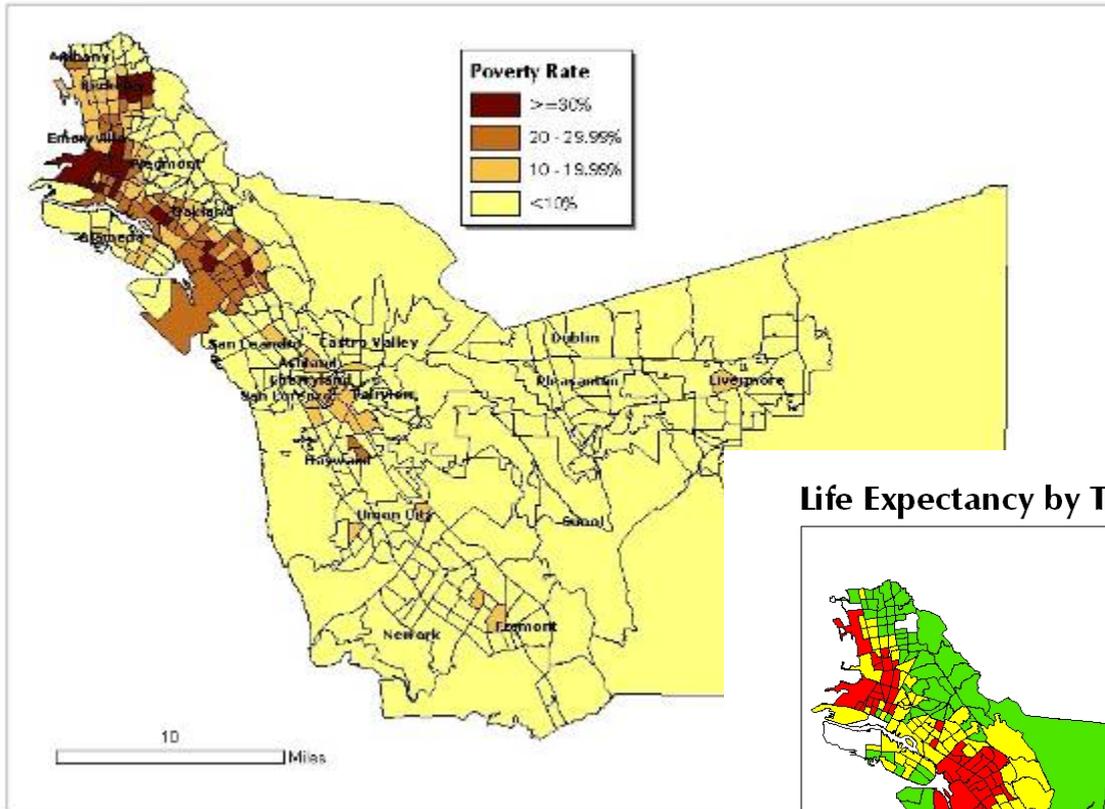


Public Health
PREVENT - PROMOTE - PROVIDE

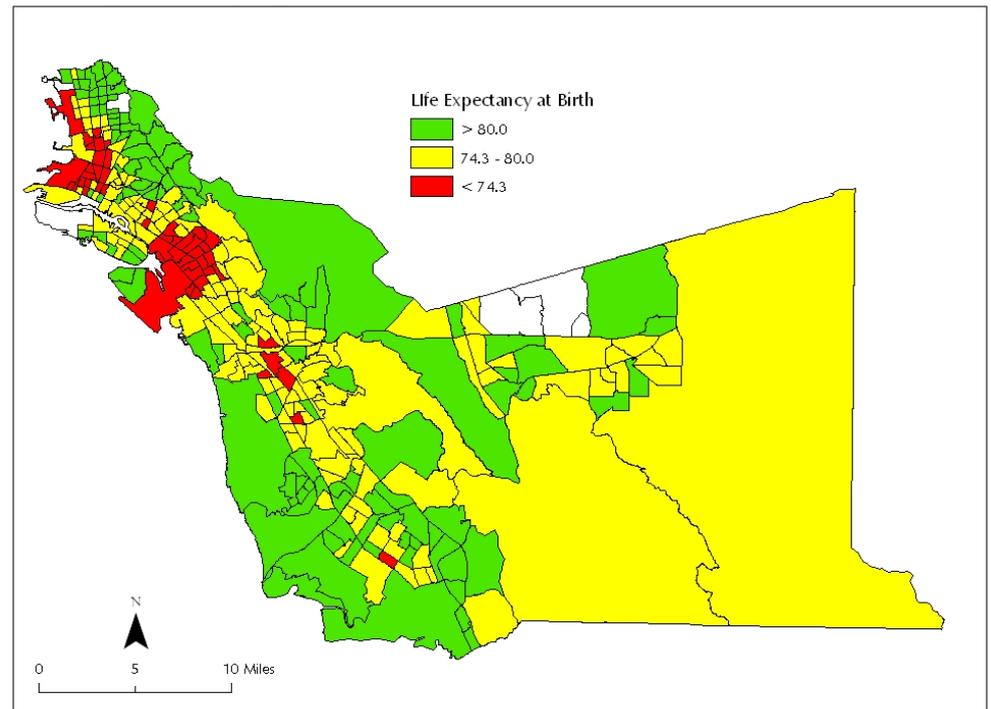


Partners: Ohio Public Health Partnership PREVENT - PROMOTE - PROVIDE

Alameda County Poverty

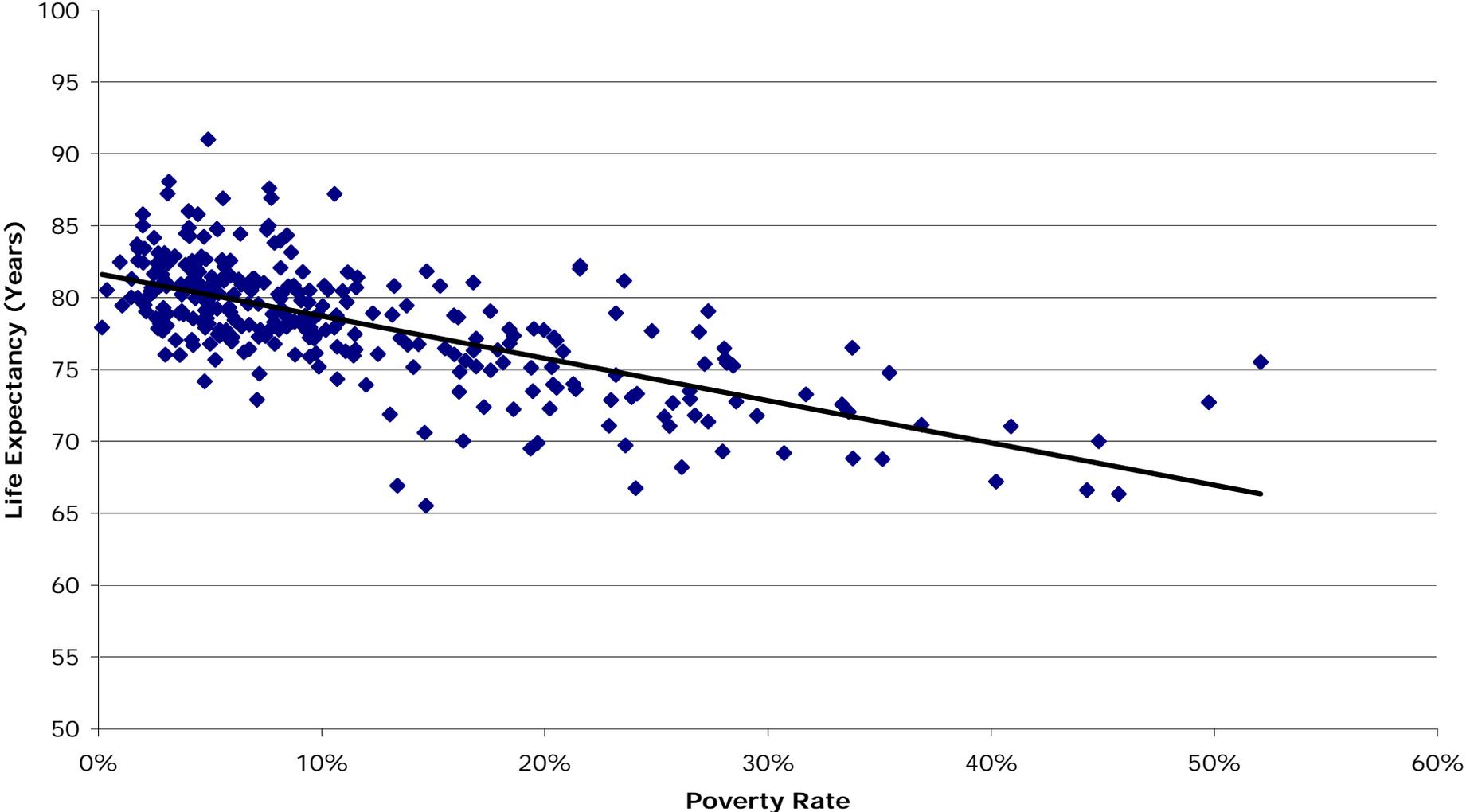


Life Expectancy by Tract



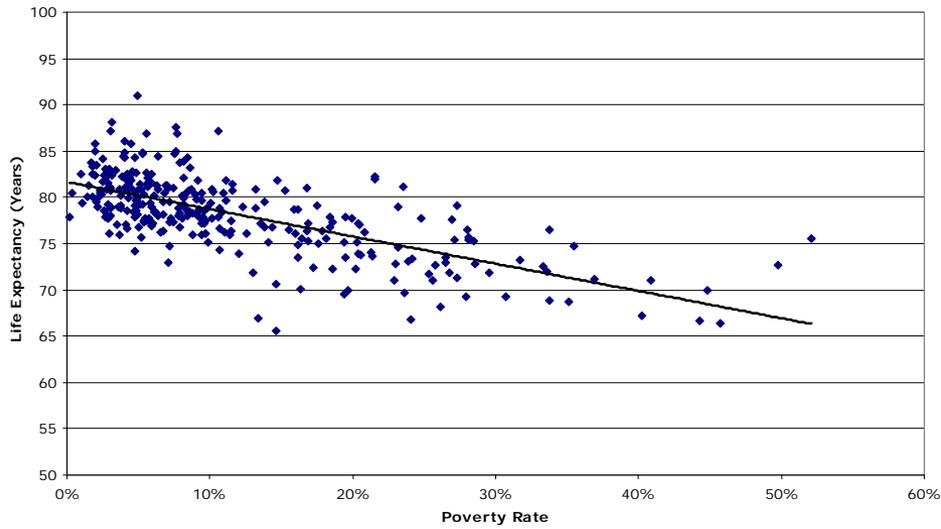
Life Expectancy by Poverty Group 2000-2003

Alameda County

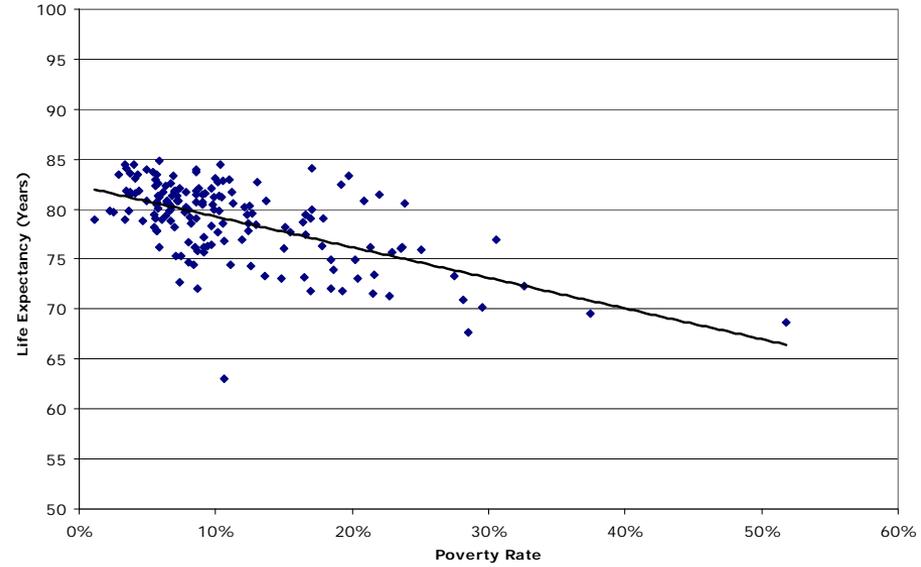


Tract Poverty vs. Life Expectancy

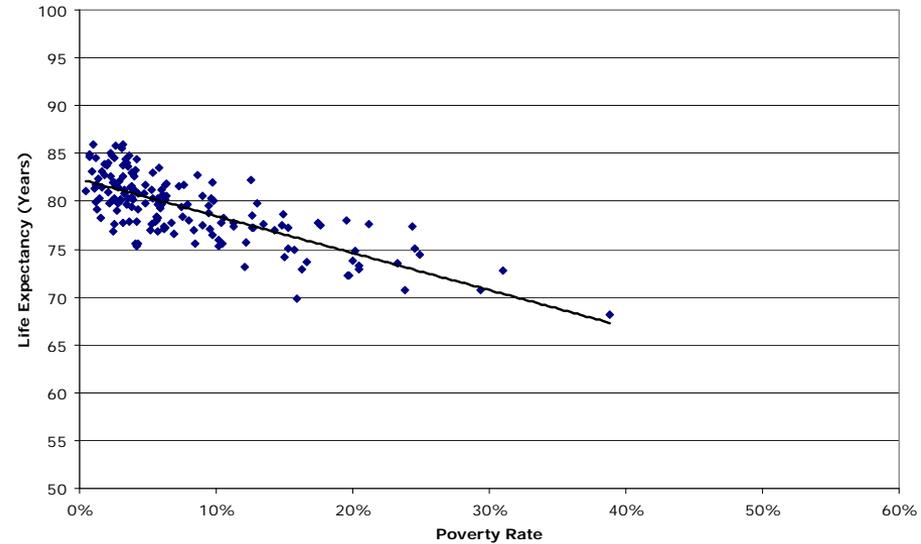
Alameda County



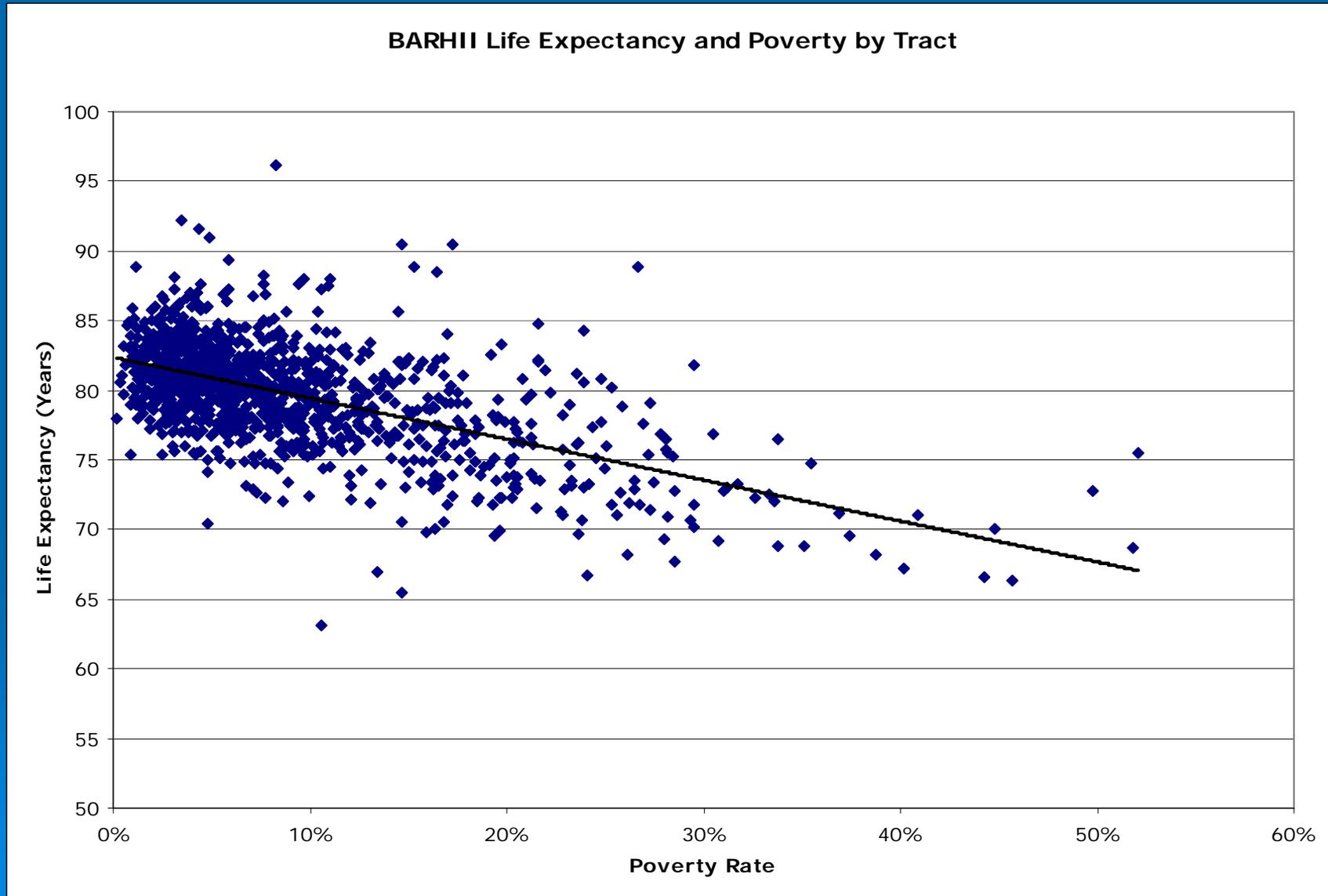
San Francisco County



Contra Costa County



Bay Area Poverty vs. Life Expectancy



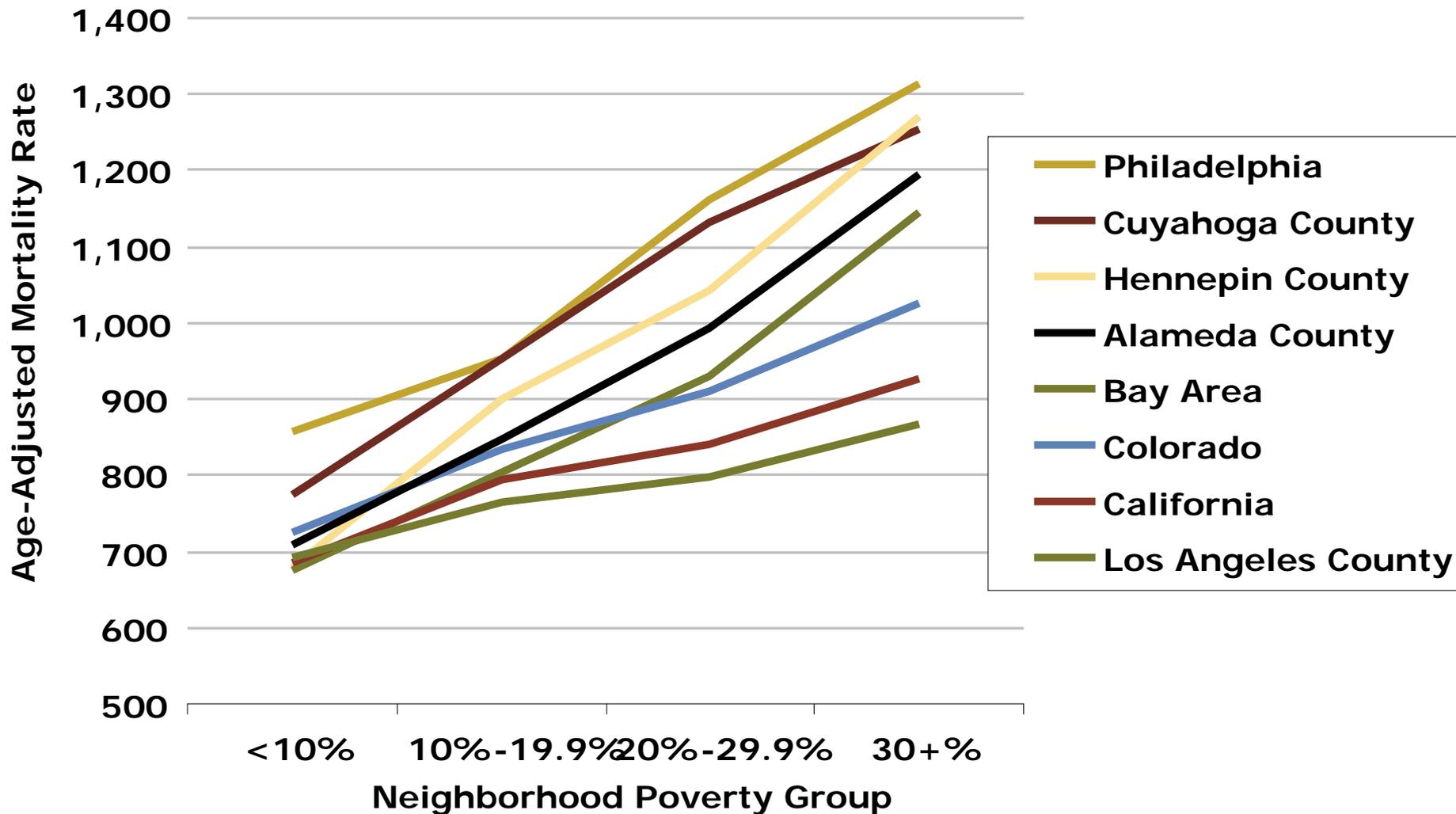
Cost of Poverty in San Francisco Bay Area

- ***Every additional \$12,500 in household income buys one year of life expectancy***
- ***(Benefit appears to plateau at household incomes above \$150,000)***
- ***Similar gradients in Baltimore, NYC, Philadelphia, Hennepin County (Minneapolis-St. Paul), Colorado, California, AND Cuyahoga County (\$6304/year of life)***

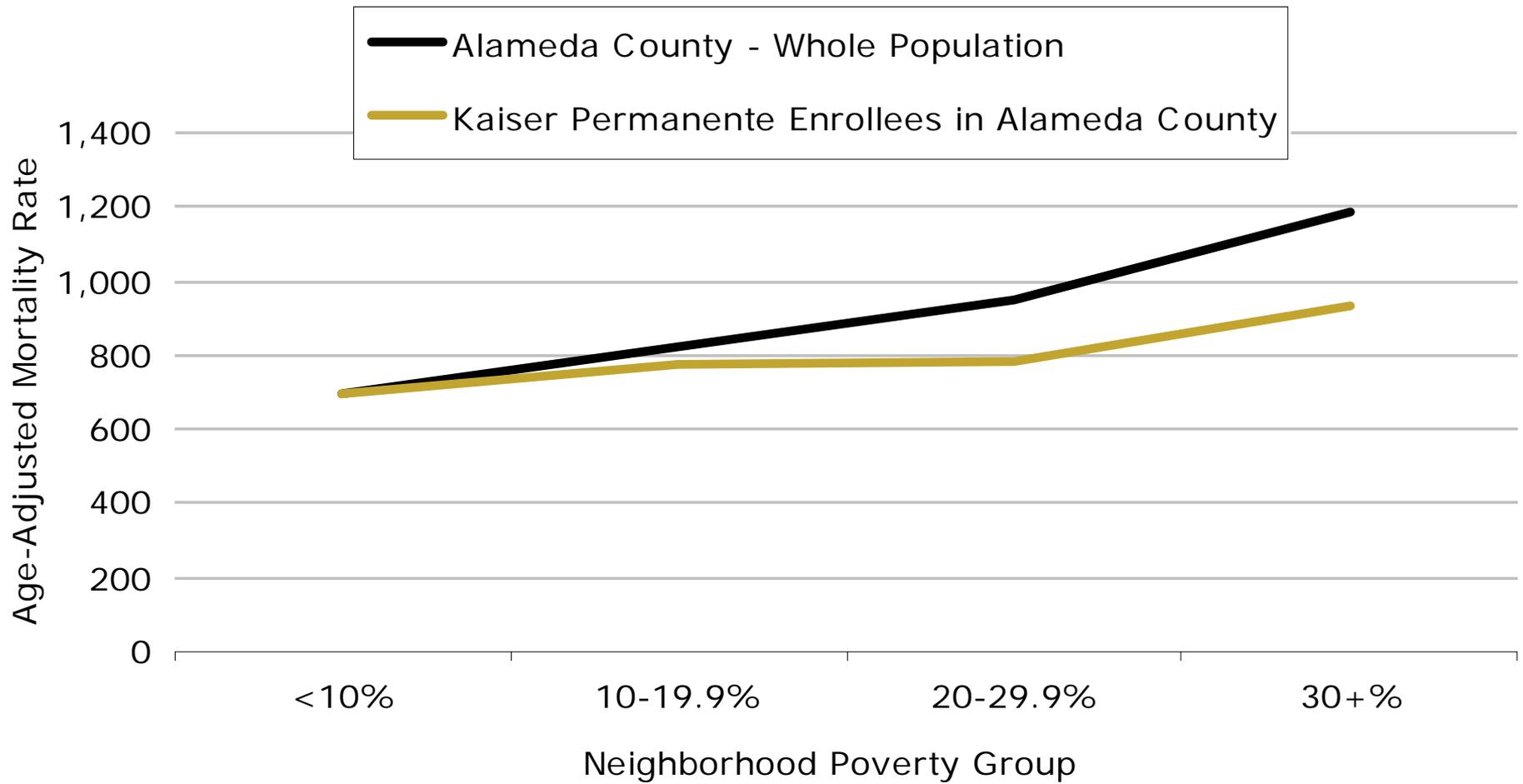
Association of Life Expectancy and Economic Hardship in Los Angeles County Cities and Communities, 2006



Social Gradients Various Jurisdictions



Insured vs. Whole Population



**% of AC
pop'n**

32.3%

29.9%

26.0%

22.0%

a
four-hour
documentary
series
exploring
America's
racial and
socioeconomic
inequities
in health



UNNATURAL CAUSES

...is inequality making us sick?

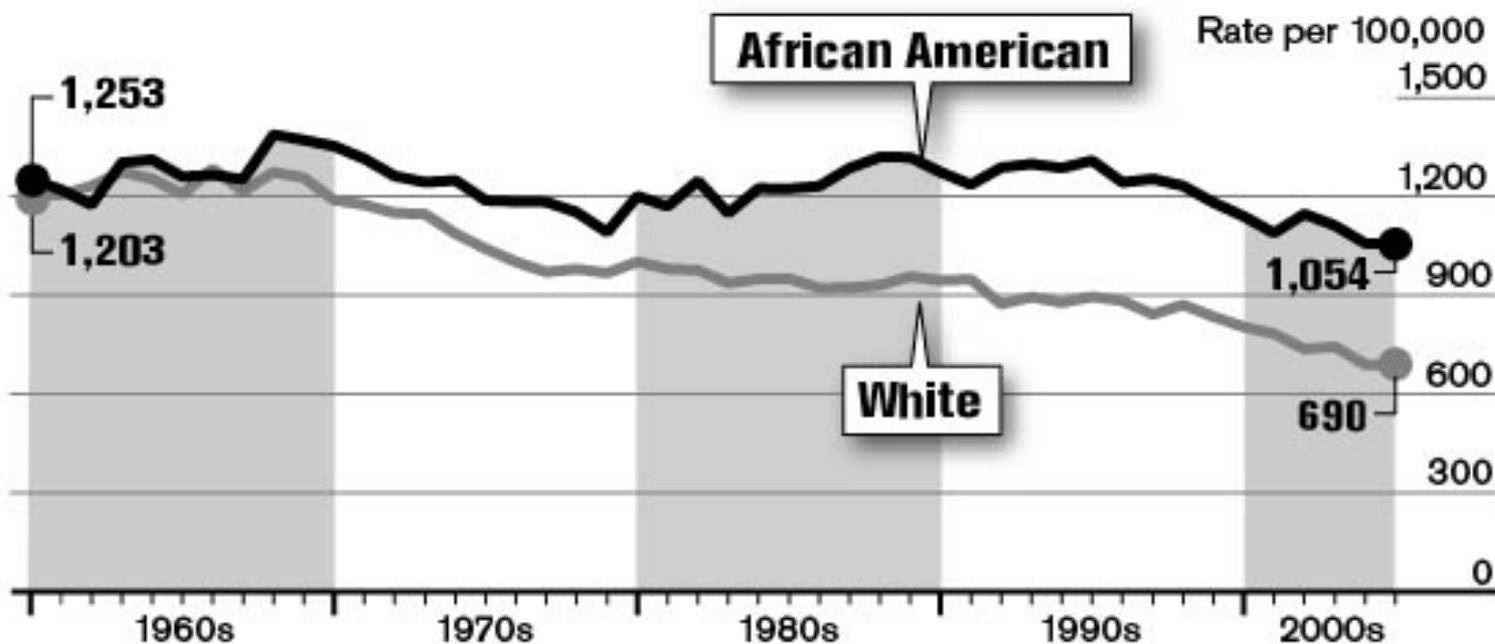
A documentary series & public impact campaign

www.unnaturalcauses.org

Produced by California Newsreel with Vital Pictures
Presented on PBS by the National Minority Consortia of Public Television
Impact Campaign in association with the Joint Center Health Policy Institute



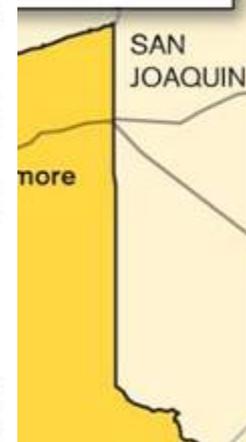
Comparing mortality rates in Alameda County



Source: "Life & Death from Unnatural Causes in Alameda County" published by the Alameda County Public Health Department.

The Chronicle

Life expectancy at birth
 80.0 years old
 4.3 - 80.0
 74.3



In West Baltimore's impoverished Hollins Market neighborhood, where the average life expectancy is about 63 years, residents shared beers and cigarettes on their front steps at midday yesterday while pedestrians using canes gingerly avoided two dead rats on the street.

Across town in wealthy Roland Park, where residents live on average to be 83, the scene predictably changed. One gray-haired woman rushed to swimming lessons, while a family rode past on

bikes and a man with an iPod jogged nearby. The two-decade difference in life expectancy between Hollins Market and Roland Park was revealed in data released yesterday by the city Health Department, which for the first time has compiled comprehensive death data on a neighborhood level.

The results are striking. In some impoverished neighborhoods, the death rates from heart disease DEATHS, page 23



Sources: ESRI, Alameda County Public Health Department

The Chronicle



WHCA

White House Correspondents' Association

Bohan and Kleffman won the Poe Award for their four-part entitled, "Shortened Lives: Where You Live Matters."

"In the midst of the national health care debate, these exceptionally well-reported stories offer unique and valuable lessons for public health policy," said the Poe award judges said.

"Through extensive use of county health records, Bohan and Kleffman stand conventional wisdom on its head, providing powerful evidence that variations in disease rates and life expectancies between neighborhoods in Alameda County, Calif., are not--as widely assumed--the result of poor people making bad choices about diet and exercise. Rather the discrepancies stem from multiple forces that deny those living in poor communities access to the basic resources necessary to engage in a healthy lifestyle, however great their desire to do so. These powerful and poignant stories provide an important new lens that snaps the health care debate into sharp focus. While looking closely at these issues at the county level, the stories in this series have profound national and regional implications, providing strong evidence that blaming the victims is not a substitute for dealing seriously with the underlying causes of the health care crisis." - WHCA press release 4-13-2010

Los Angeles Times | LOCAL

L.A. County residents living longer, Compton has lowest life expectancy, La Canada Flintridge highest

July 27, 2010 | 12:08 pm



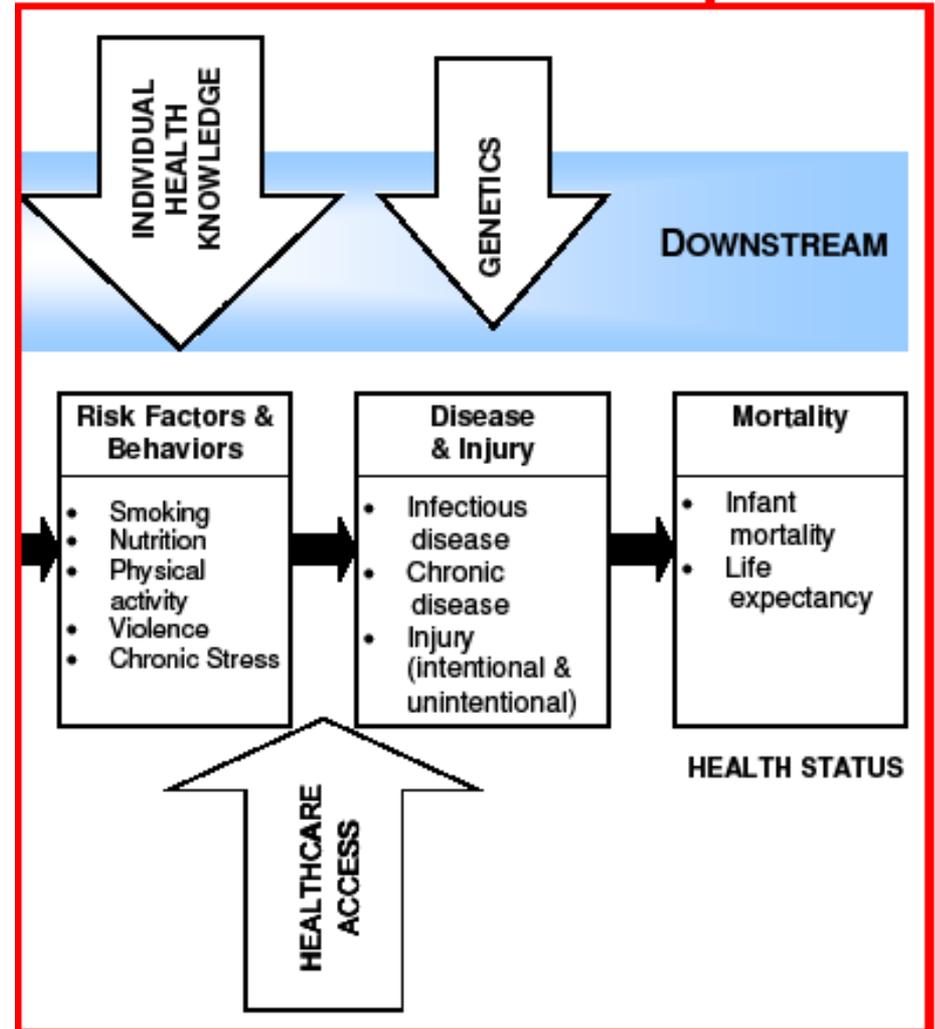
"Average life expectancy is one of the most fundamental measures of the health of a population and community," ... "To identify continuing wide gaps between wealthy and less wealthy communities and between different ethnic groups is sobering and disconcerting... Why should an unincorporated community in South LA (Westmont) have an average life expectancy that is 10 years lower than a city (Culver City) only 10 miles away?" – Jonathan Fielding, M.D.



Los Angeles County residents are [living longer than ever](#), with an average life expectancy of more than 80 years, public health officials announced Tuesday. But economic and racial disparities persist, with some minorities and low-income residents dying sooner than wealthier neighbors.

A Framework for Health Equity

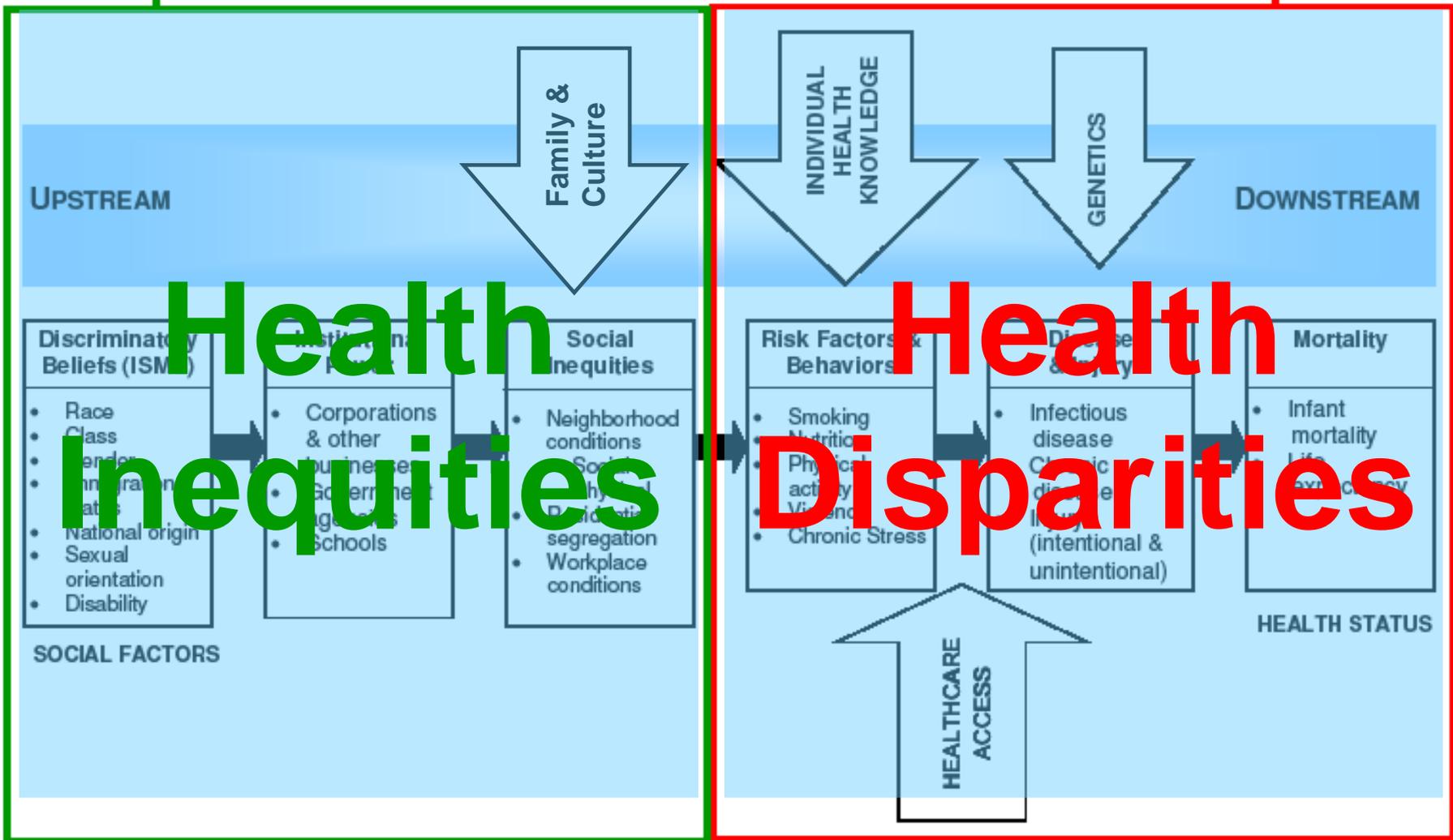
Medical Model



A Framework for Health Equity

Socio-Ecological

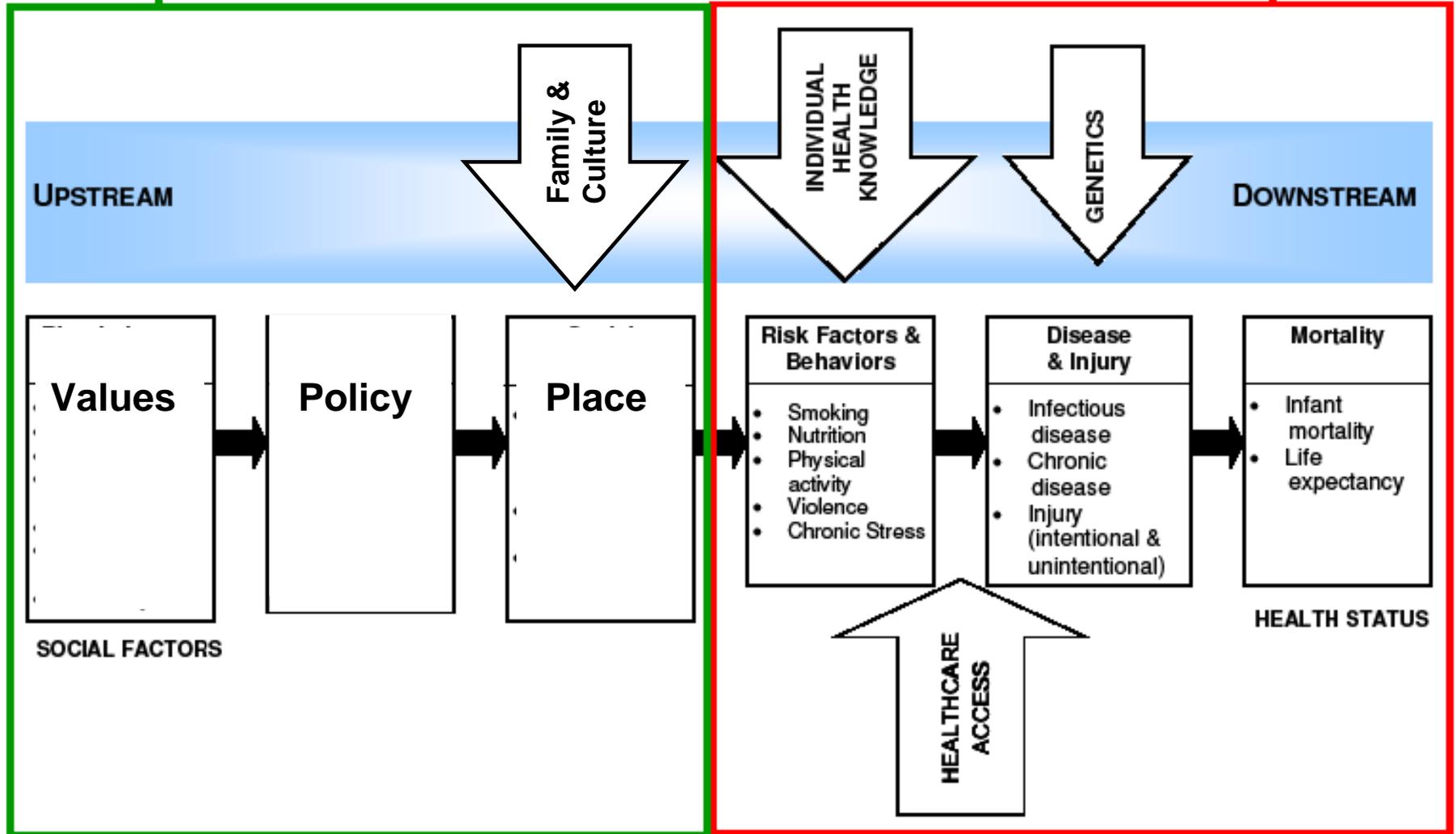
Medical Model



A Framework for Health Equity

Socio-Ecological

Medical Model



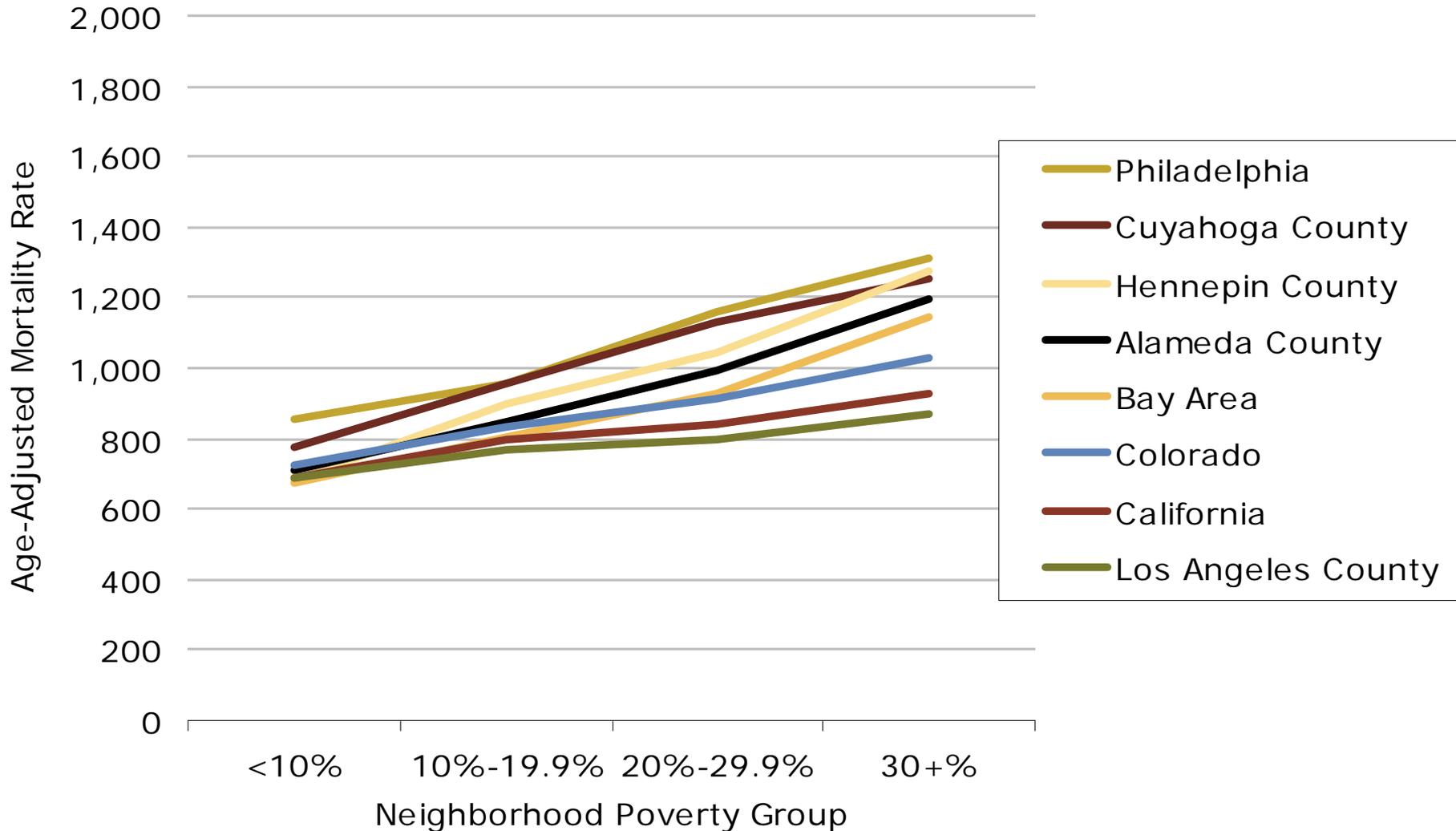
Contact Information

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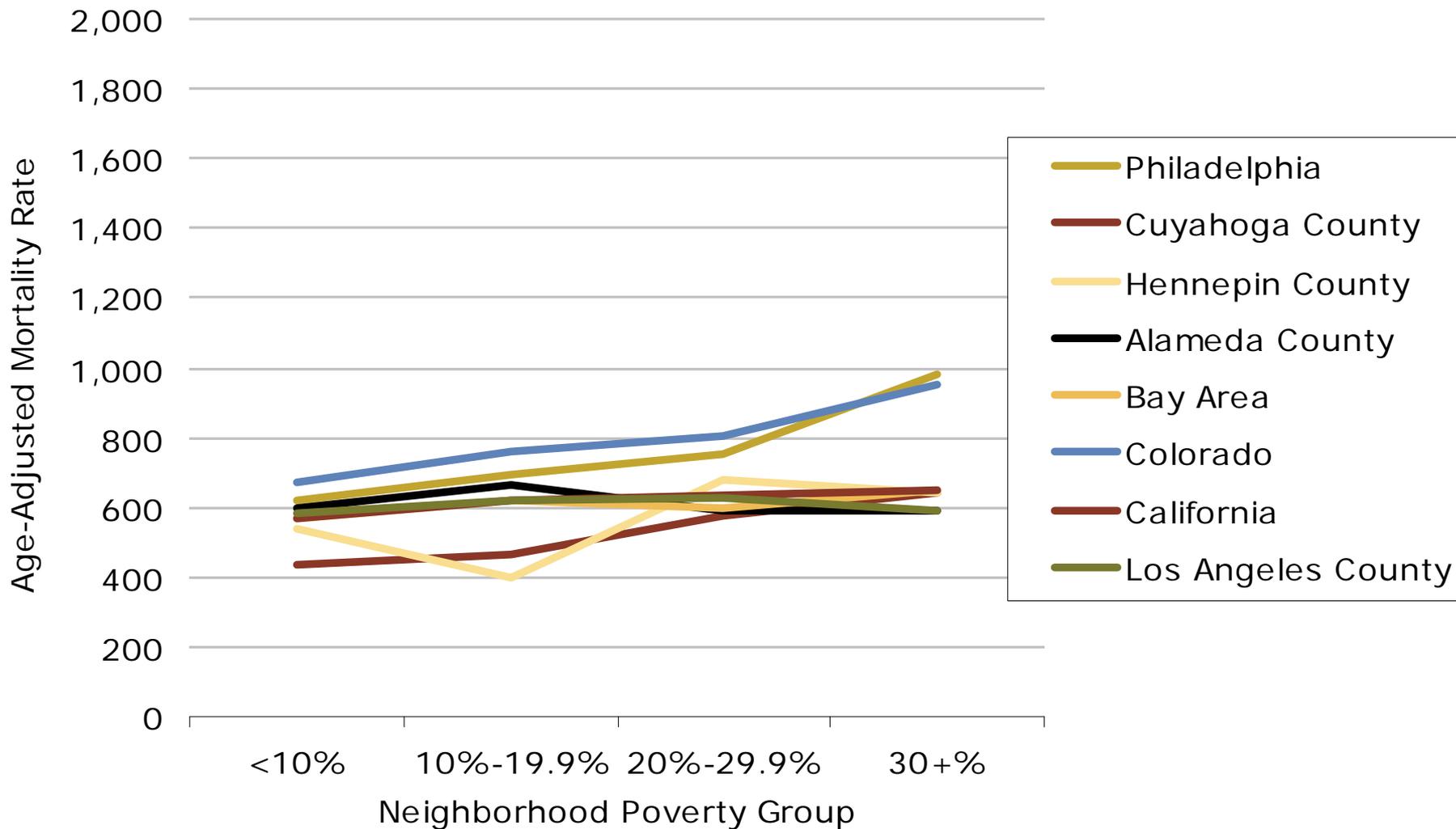
aiton@calendow.org
510 271-4310



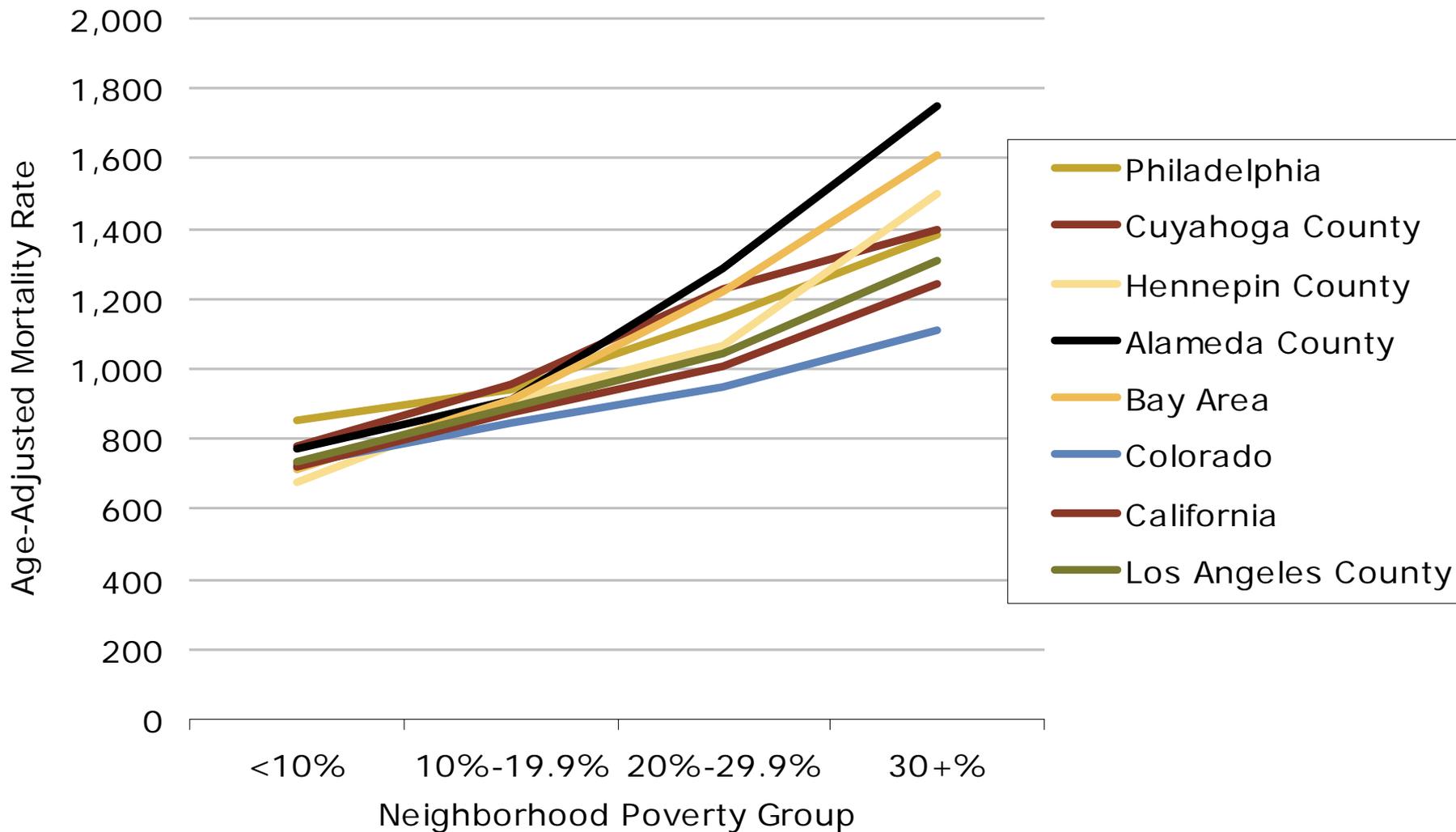
Social Gradients Together – All Races



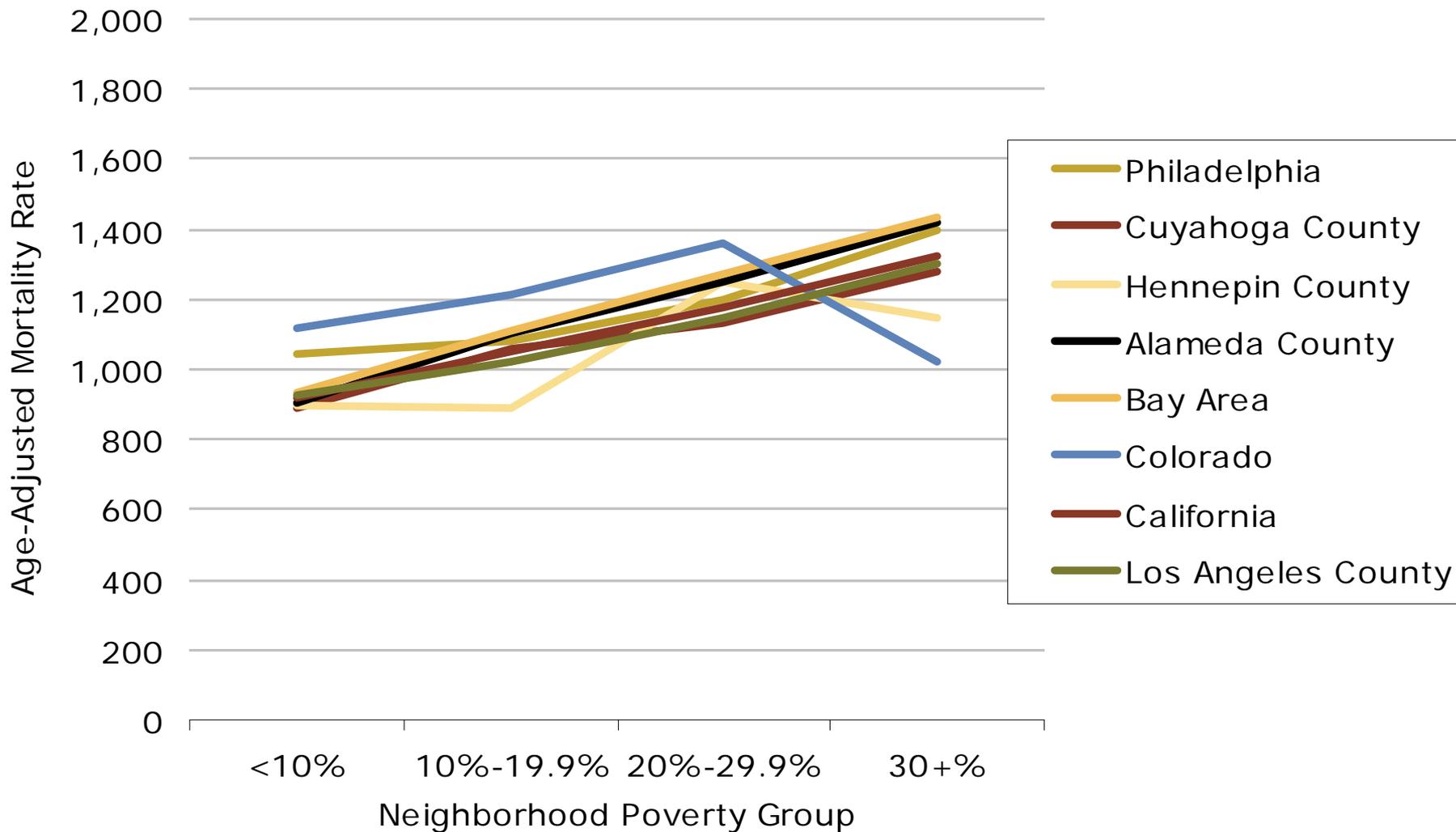
Social Gradients Together – Hispanic/Latino



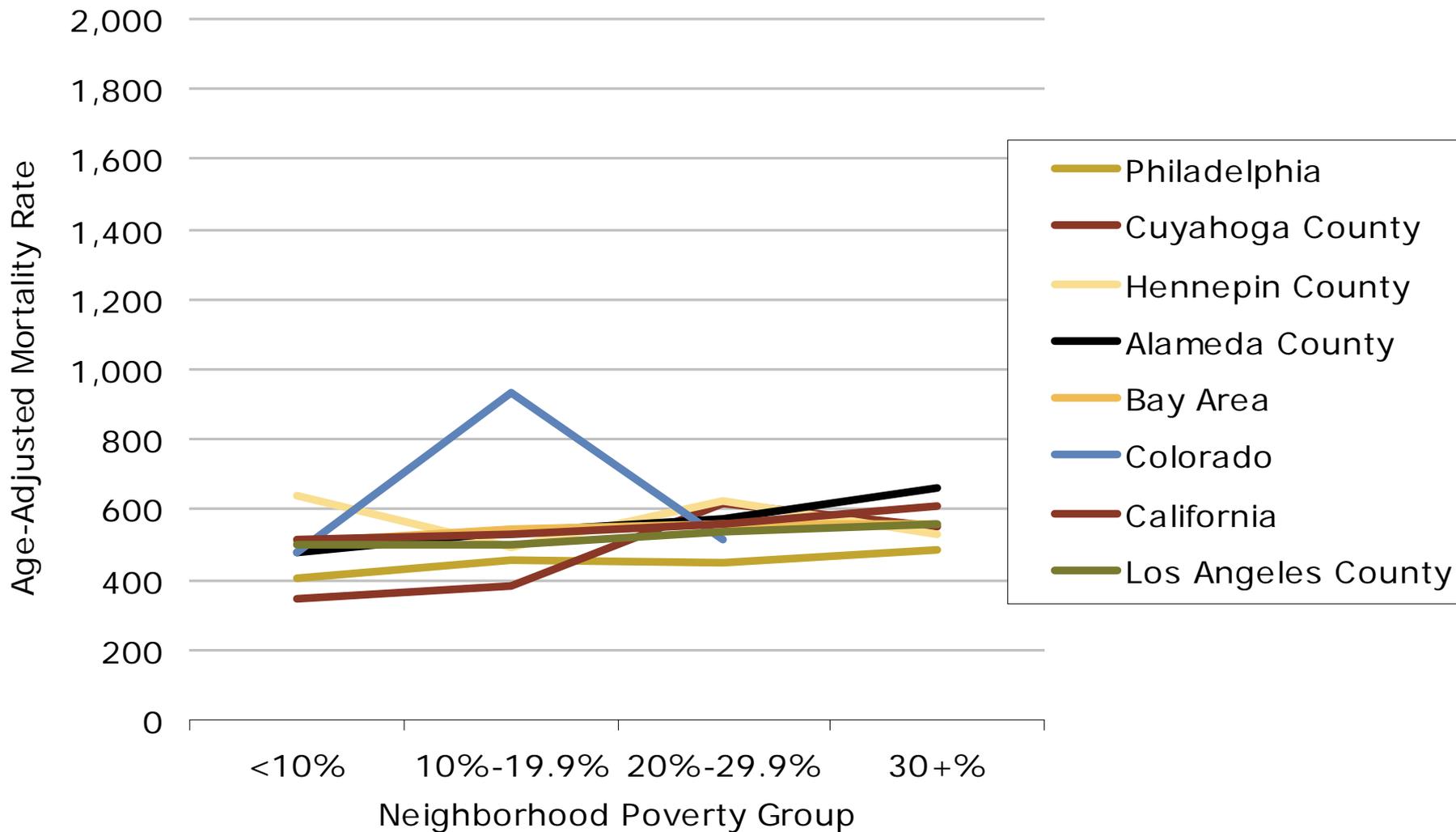
Social Gradients Together – White



Social Gradients Together – African American



Social Gradients Together – Asian





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Publications

THE WORLD FACTBOOK



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COUNTRY COMPARISON :: LIFE EXPECTANCY AT BIRTH

This entry contains the average number of years to be lived by a group of people born in the same year, if mortality at each age remains constant in the future. The entry includes *total population* as well as the *male* and *female* components. Life expectancy at birth is also a measure of overall quality of life in a country and summarizes the mortality at all ages. It can also be thought of as indicating the potential return on investment in human capital and is necessary for the calculation of various actuarial measures.



[DOWNLOAD DATA](#)

RANK	COUNTRY	(YEARS)	DATE OF INFORMATION
1	Monaco	89.78	2010 est.
2	Macau	84.38	2010 est.
3	San Marino	82.95	2010 est.
4	Andorra	82.26	2010 est.

US Whites

	Life Expectancy
US White	78 years
Chile	78 years
Costa Rica	78 years
Cuba	78 years
Slovenia	78 years
Kuwait	78 years

US Whites Living Shorter Lives Than:

- 79 years: Belgium, Denmark, Finland, Malta, Portugal, Spain, Sweden, U.K., Korea
- 80 years: Austria, Cyprus, Germany, Greece, Ireland, Netherlands, Norway, New Zealand, Singapore
- 81 years: Canada, France, Iceland, Israel, Italy
- 82 years: Switzerland, Australia
- 83 years: Japan

- 26 countries



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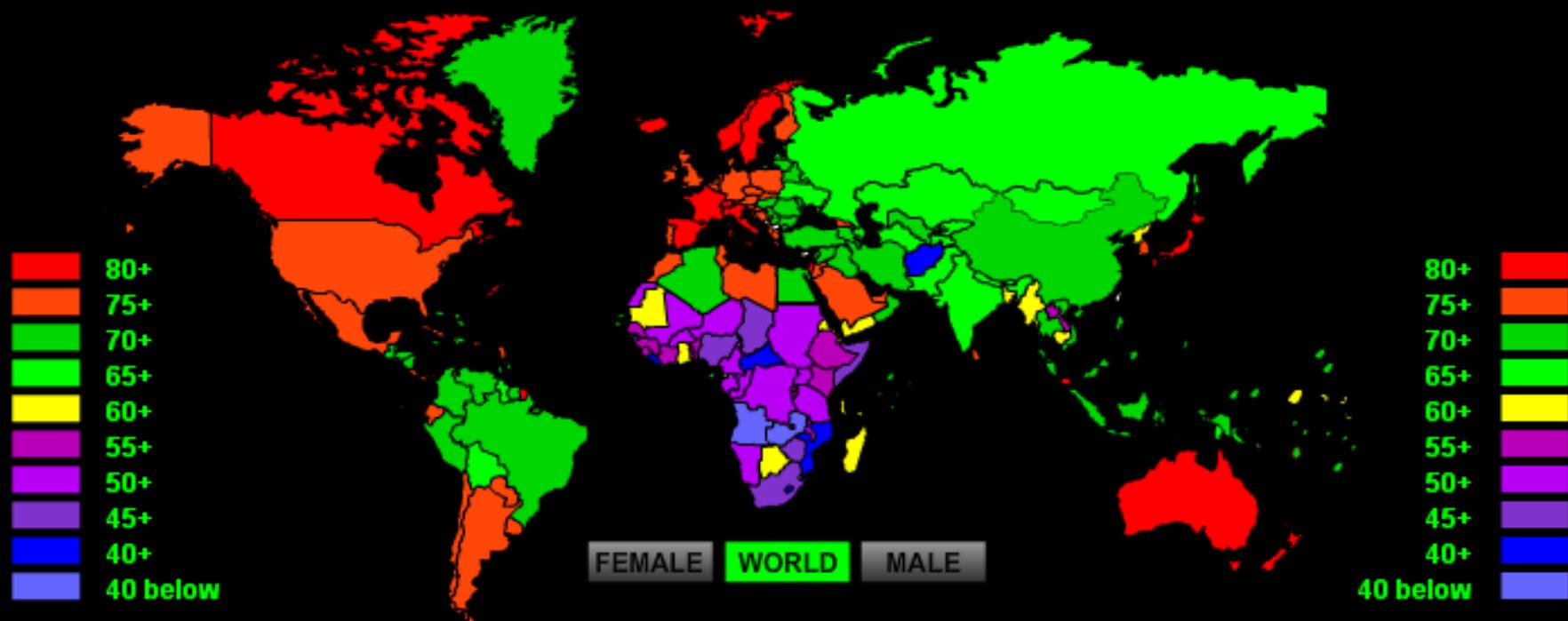
WORLD HEALTH RANKINGS

USA HEALTH RANKINGS

RESEARCH AND TESTS

LIFE X FEATURES

WORLD LIFE EXPECTANCY MAP



FEATURE ARTICLE: [CANCER CLUSTERS IN AMERICA](#)