

Moores Cancer Center







Better Health Through Better Understanding April 2023

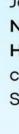
BETTER HEALTH THROUGH BETTER UNDERSTANDING:

CANCER DISPARITIES IN SAN DIEGO April 26th, 2023

AGENDA

- Welcome
- Overview of Health Disparities
 - Elena Martinez, PHD, UC San Diego Moores Cancer Center
- Gastric Cancer: Examining Incidence, Survival, and **Molecular Disparities**
 - Winta Mehtsun, MD, MPH, UC San Diego School of Medicine
- Understanding Cancer Etiology Among Hispanic/Latino Heritage Groups: The Hispanic Community Health Study/Study of Latinos (HCHS/SOL)
 - Humberto Parada, PHD, San Diego State School of Public Health
- Question & Answer Session
- Closing Remarks







Retter Health Through Better Understanding CANCER DISPARITIES IN SAN DIEGO

ONLINE WEBINAR



Elena Martinez, PHD Associate Director, Population Science, parities and Community Engagement JC San Diego Moores Cancer Center

Winta Mehtsun, MD, MPH Surgical Oncologist and Assistant Professor at UC San Diego



Humberto Parada, PHD, MPH Associate Professor and Division Head of Epidemiology and Biostatistics at San Diego State University

Join us for a special event highlighting National Minority and Multicultural Health Month with an emphasis on cancer disparities and research in the San Diego community.

This webinar is free and open to all those interested. See you there!



MEETING REMINDERS



AUDIO

Please make sure your line is muted throughout the duration of the summit.

ZOOM CHAT

Use the chat to introduce yourself & ask questions throughout the roundtable!

MEETING RECORDING

Slides, recording and resources will be shared with all attendees



OVERVIEW OF HEALTH DISPARITIES IN SAN DIEGO

ELENA MARTINEZ, PHD

Associate Director, Population Science, Disparities and Community Engagement, Moores Cancer Center at UC San Diego

Overview of Health Disparities in San Diego

Elena Martinez, PhD Moores Cancer Center Herbert Wertheim School of Public Health University of California, San Diego

April 26, 2023





Better Health Through Better Understanding | April 2023





Cancer Health Disparities

- "Health disparities are preventable differences in the burden of disease, injury, violence, or opportunities to achieve optimal health that are experienced by socially disadvantaged population." Centers for Disease Control & Prevention
- Populations that are most affected lack access to equal opportunities.
- Population groups include, but not limited to:
 - Race/ethnicity
 - Socioeconomic status: Poor, lack health insurance, medically underserved
 - Rural
 - LGBTQIA+





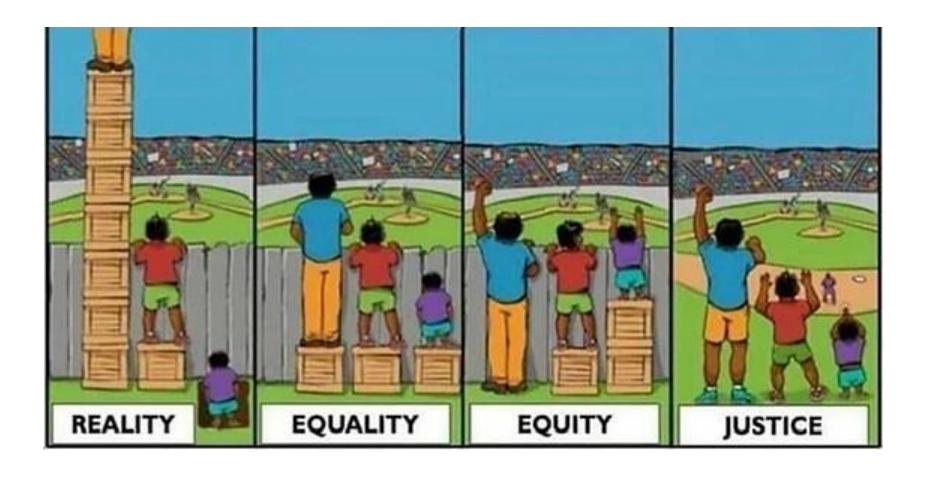






Equality, Equity, and Justice

- Unequal conditions in which people grow and live, including the health system
- Unfair and avoidable factors in health status







Social Determinants of Health (SDOH)

- Conditions in the environments where people are born, live, learn, work, play, worship, and age that affect a wide range of health, functioning, and quality-of-life outcomes and risks (*Healthy People 2030*).
- Contribute to health disparities and inequities.
- Have a major impact on people's health, well-being, and quality of life.

Social Determinants of Health



Social Determinants of Health Copyright-free للوالية Healthy People 2030



Social Determinants of Health

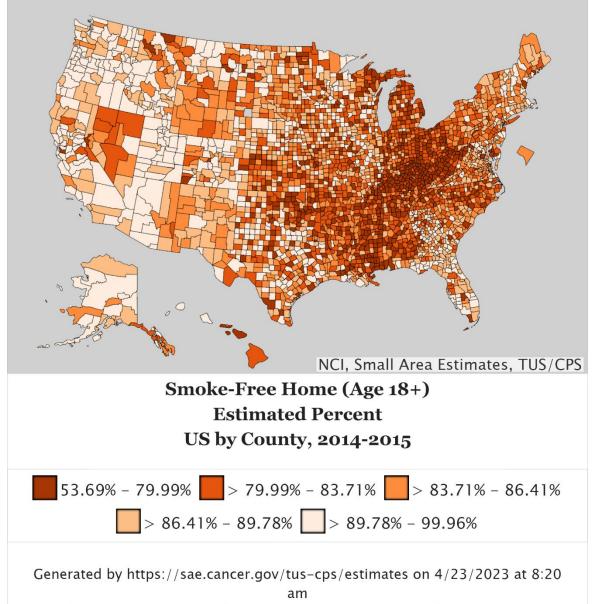
- Safe housing and local food markets
- Educational, economic, and job opportunities
- Health care services
- Transportation options
- Public safety
- Social support
- Social norms and attitudes (e.g., discrimination, racism, and distrust of government)
- Exposure to crime, violence, and social disorder (e.g., lack of cooperation in a community)
- Socioeconomic conditions (e.g., concentrated poverty and the stressful conditions that accompany it)
- Access to mass media and emerging technologies (e.g., cell phones, the Internet, and social media)



Social Determinants of Health Copyright-free ப்பட் Healthy People 2030

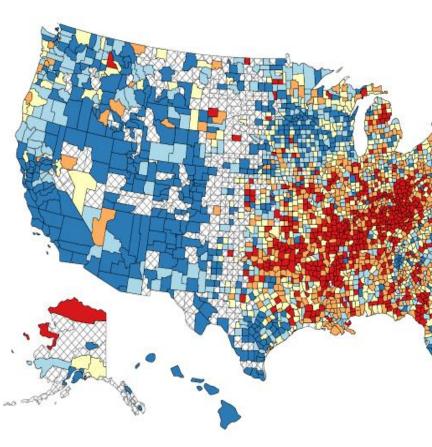


Zip Code Better Predictor of Health than Genetic Code



Small Area Estimates for Tobacco Use and Policies. National Cancer Institute, DCCPS, Statistical Research & Applications Branch, released May 2016 (sae.cancer.gov). Underlying data provided by the Tobacco Use Supplement to the Current Population Survey (http://cancercontrol.cancer.gov/brp/tcrb/tus-cps/).

Death Rates for United States by County Lung & Bronchus, 2016 - 2020 All Races (includes Hispanic), Both Sexes, All Ages



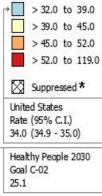
Note: Alaska, DC, Hawaii and Puerto Rico are not drawn to scale. State Cancer Registries may provide more current or more local data.

Data presented on the State Cancer Profiles Web Site may differ from statistics reported by the State Cancer Registries (for more information). Source: Death data provided by the <u>National Vital Statistics System</u> public use data file. Death rates calculated by the National Cancer Institute using <u>SEER*Stat</u>. Death rates (deaths per 100,000 population per year) are age-adjusted to the <u>2000 US standard population</u> (19 age groups: <1, 1-4, 5-9, ... , 80-84, 85+). The Healthy People 2030 goals are based on rates adjusted using different thods but the differences should be minimal. Population counts for denominators are based on the Census US Population Data File as modified by NCI. * Data have been suppressed to ensure confidentiality and stability of rate estimates. Data is currently being suppressed if there are fewer than 16 counts for the time period.

lealthy People 2030 Goal C-02 : Reduce the lung cancer death rate to 25.1. ealthy People 2030 Objectives provided by the Centers for Disease Control and Preventior Data for the United States does not include data from Puerto Ric



Age-Adjusted Annual Death Rate (Deaths per 100,000) Quantile Interval 9.0 to 32.0





"Your ZNA is as important as your DNA" Robert Winn, MD

Puerto Rico



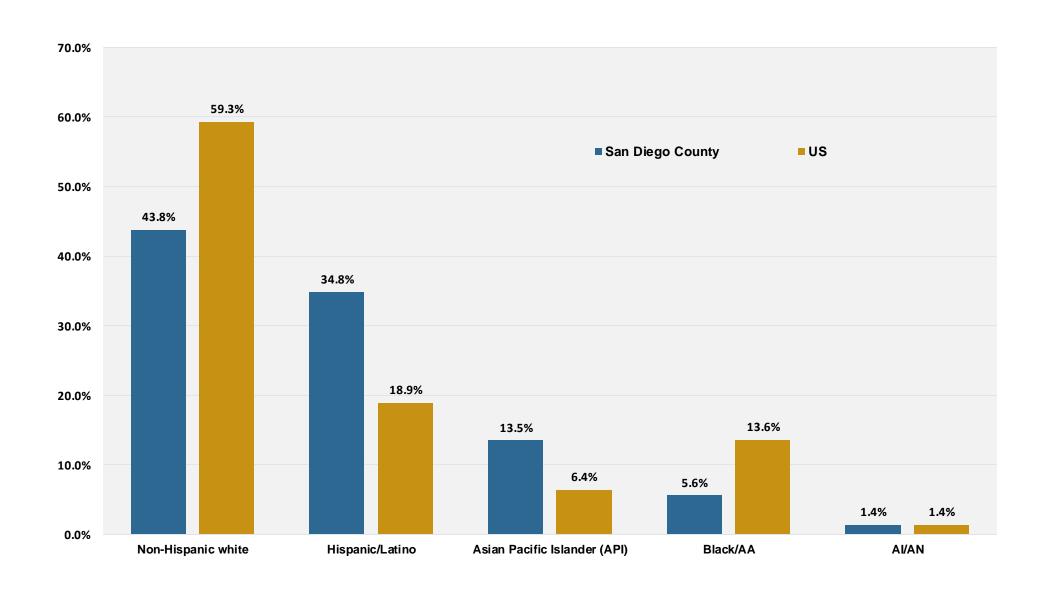
Moores Cancer Center Catchment Area

SAN DIEGO COUNTY

- 3.3 Million Residents
- 5th Most Populous in US
- 4206 Square Miles



SAN DIEGO COUNTY DEMOGRAPHIC CHARACTERISTICS **MAJORITY-MINORITY BORDER REGION**



Source: 2021 US Census

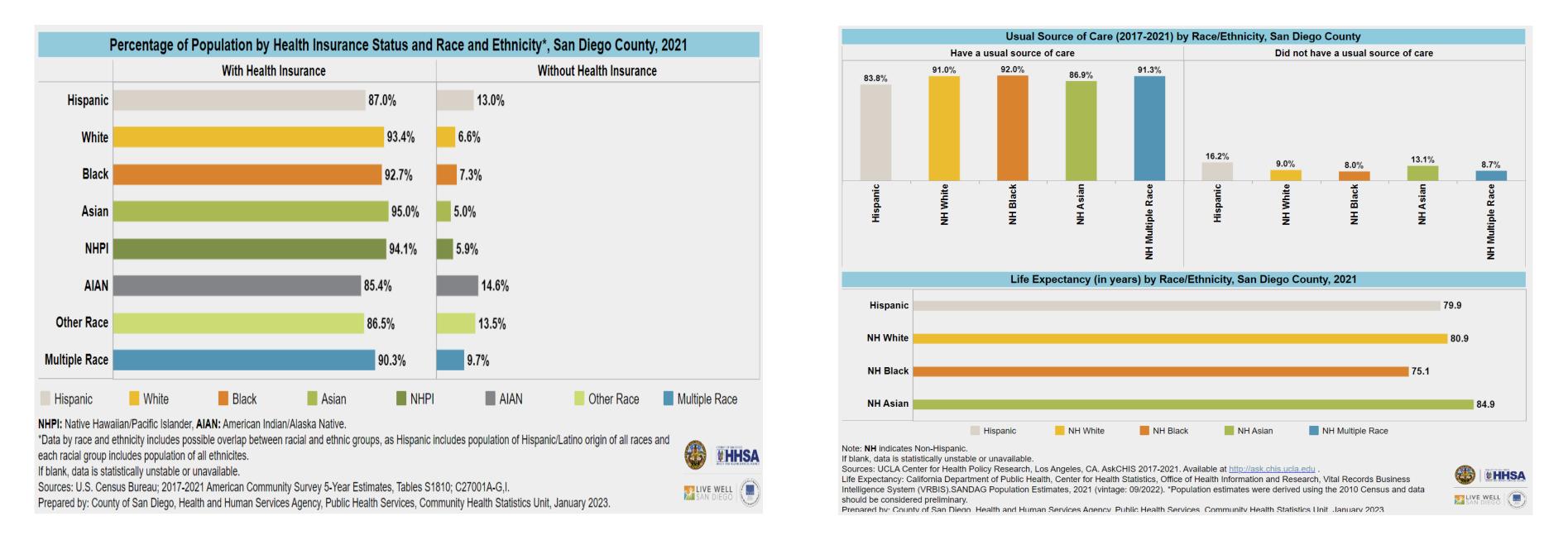
Moores Cancer Center

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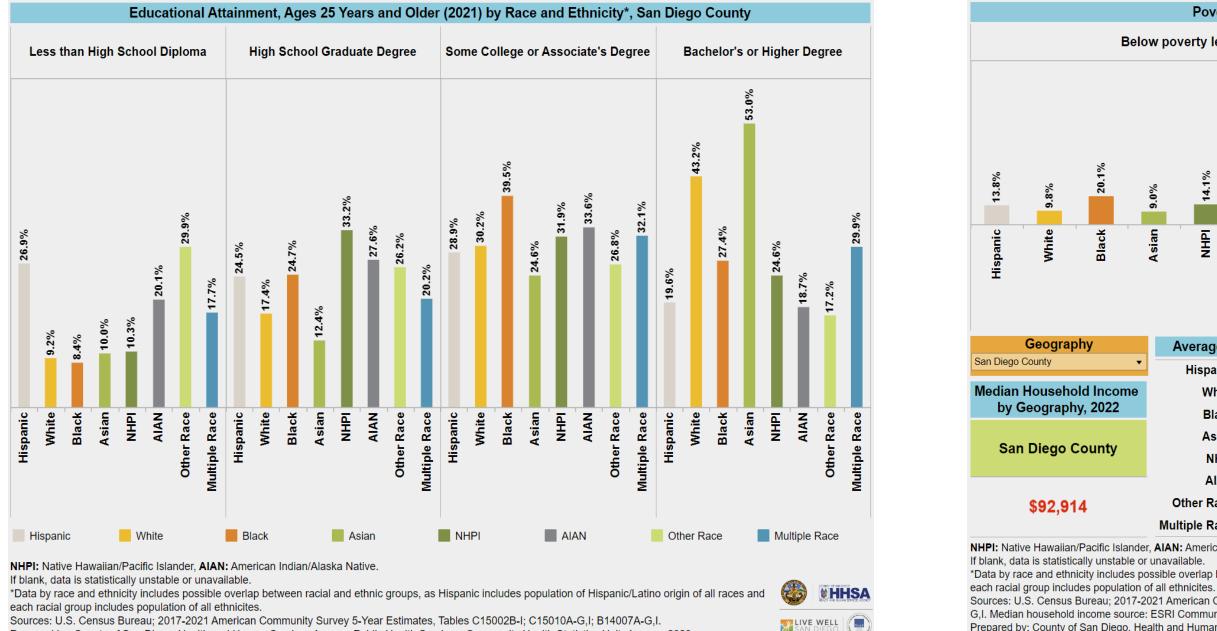




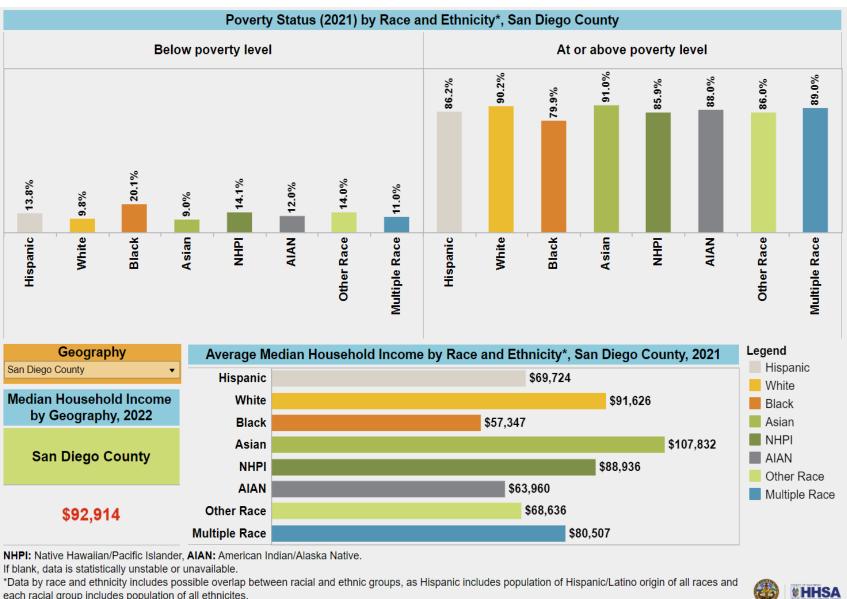
Social Determinants of Health in San Diego County Health Insurance and Usual Source of Care



Social Determinants of Health in San Diego County Education and Poverty



Prepared by: County of San Diego, Health and Human Services Agency, Public Health Services, Community Health Statistics Unit, January 2023.

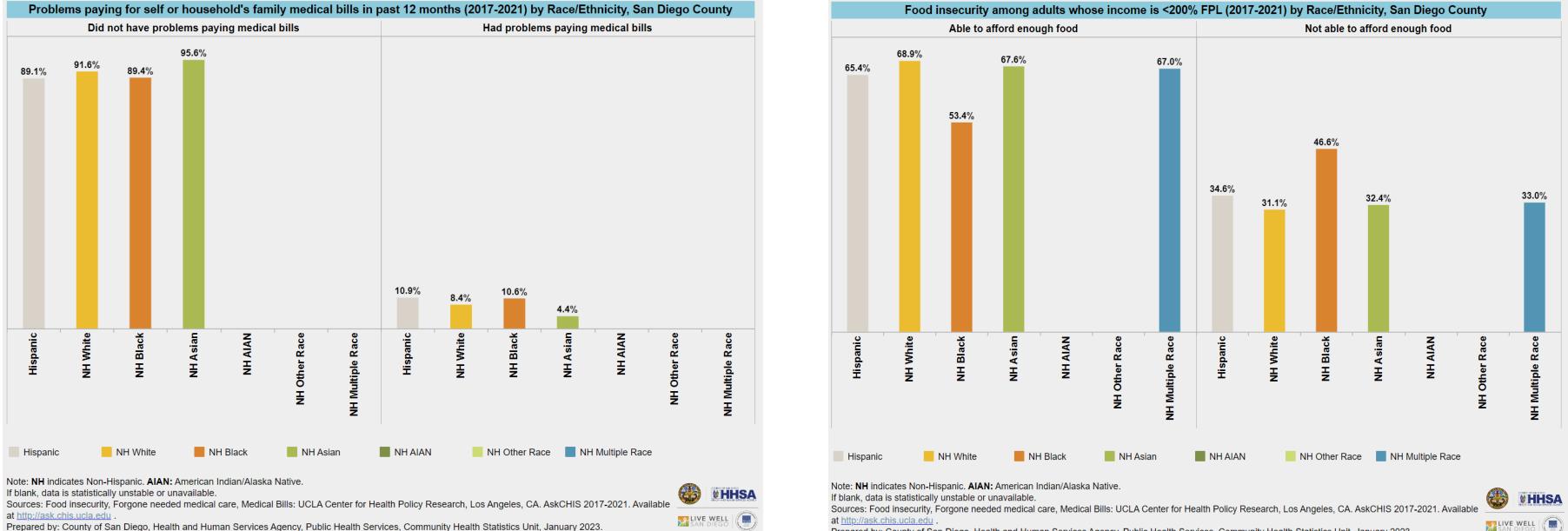


Sources: U.S. Census Bureau; 2017-2021 American Community Survey 5-Year Estimates, Tables C23002A-G,I; B17001A-G,I; B19001A-G,I; S1903; B22005A-G,I. Median household income source: ESRI Community Analyst, 2022. Upward economic mobility: Census, Opportunity Insights, PolicyMap, 2018. Prepared by: County of San Diego, Health and Human Services Agency, Public Health Services, Community Health Statistics Unit, January 2023.

SAN DIEGO



Social Determinants of Health in San Diego County Problems Paying Medical Bills and Food Insecurity

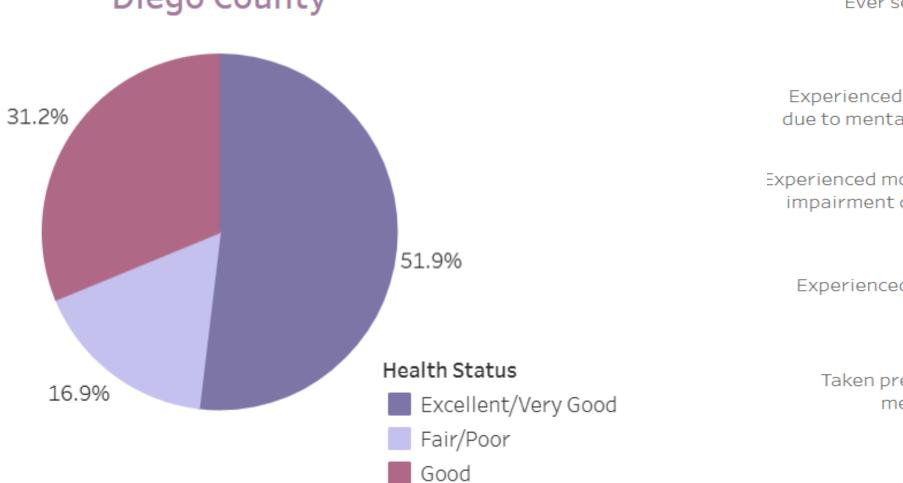


Prepared by: County of San Diego, Health and Human Services Agency, Public Health Services, Community Health Statistics Unit, January 2023.

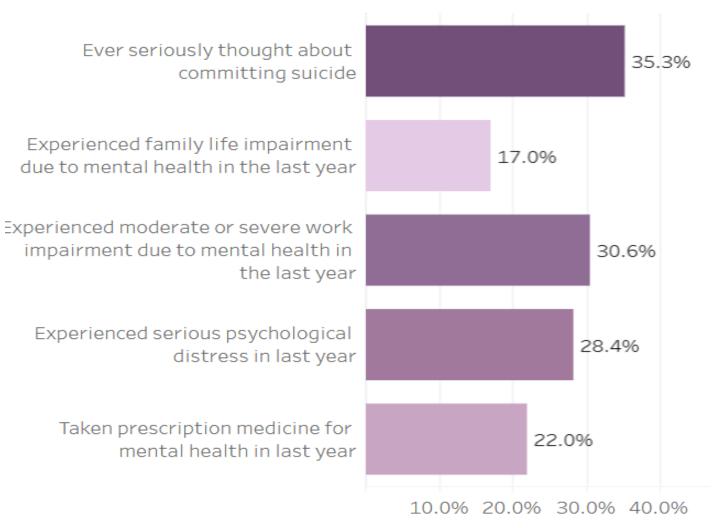


Health and Wellbeing among LGBTQ Population in San Diego County

Overall Health Status Among the Adult LGBQ Population in San Diego County

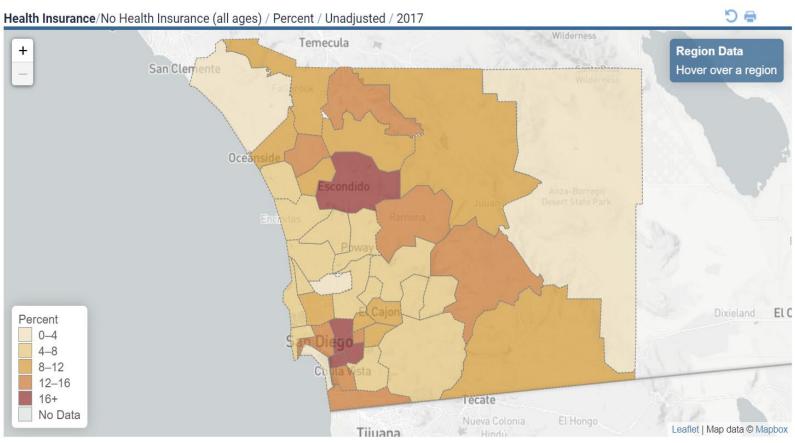


Mental Health Outcomes Among the Adult LGBQ Population in San Diego County

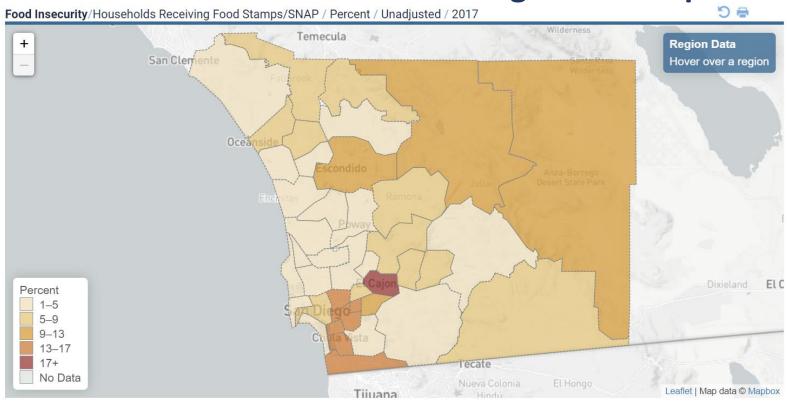


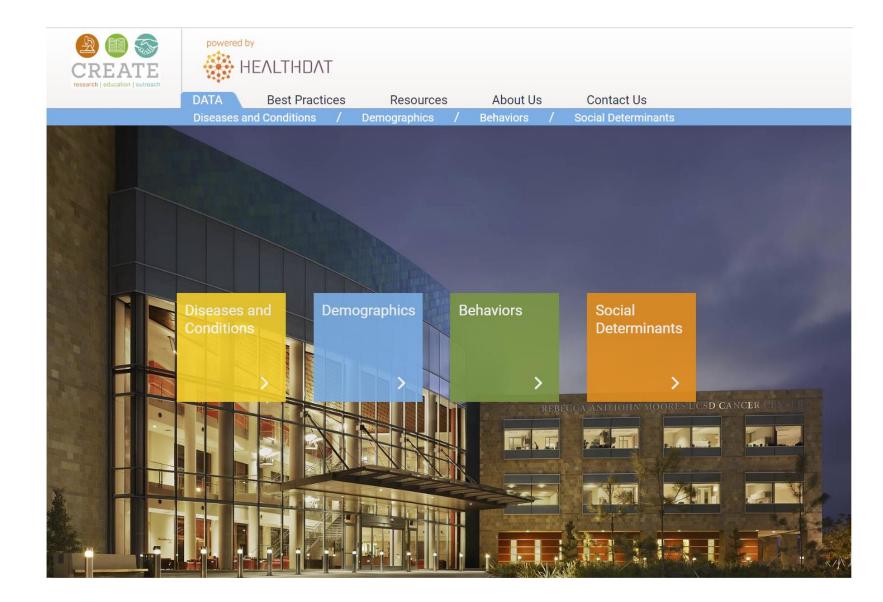
Percent of Population





Percent of households receiving food stamps





Percent with no health insurance





C. McDaniels-Davidson

http://moores.healthdat.org/



Additional Resources for Cancer Statistics

San Diego Community Snapshots moorescancercenter.ucsd.edu/outreach

ATINOS IN SAN DIEGO MMUNITY SNAPSHOT ASIAN & PACIFIC ISLANDERS IN SAN DIEGO MMUNITY SNAPSHOT POPULATION INCOME HEALTH INSURANCE FRICAN AMERICAN/ HEALTH INSURANCE TY AND UNEMPLOYMENT OCCUPATION **ACCUPATION** ty rate of 17.2% in the US [5]. The nt rate of H/Ls in San Diego is 6.6%, which is higher than the H/LPOPULATIO ent rate of 5.1% in the US [6]. EDUCATION In 2019 72 5% of Hissanic/Latin y had a at least a high school degree other and 19.4% hold a Bachelor's degree

community

2021 Community Profiles by HHSA Region public.tableau.com/app/profile/chsu



Municipality

Community Health Statistics Unit

The County of San Diego | San Diego, California, United States



Community Health Statistics Unit

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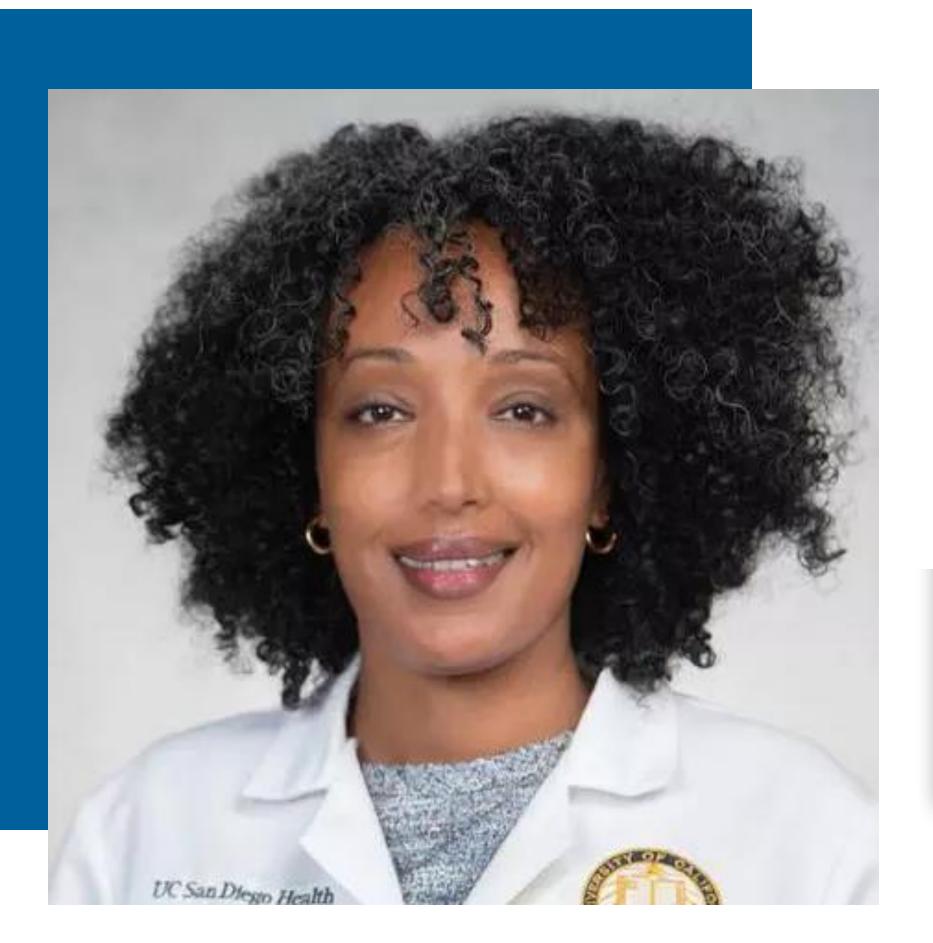
Take Home Messages

- Health disparities come in many forms and affect different populations in different ways.
- Although progress has been made in decreasing the burden of cancer in the U.S., the burden is unequal--disparities and inequities continue to exist.
- Social Determinants of Health contribute to health disparities and inequities.
- We all have a part in assessing and addressing health disparities in our communities and beyond.





¡Muchas Gracias!



GASTRIC CANCER: Examining Incidence, Survival, and Molecular Disparities

WINTA MEHTSUN, MD, MPH

Surgical Oncologist and Assistant Professor at UC San Diego School of Medicine

Gastric Cancer : Examining Incidence, Survival, and Molecular Disparities

Winta T. Mehtsun MD MPH Assistant Professor Department of Surgery University of California San Diego



Outline

- Gastric Cancer Basics
- Gastric Cancer Incidence Disparities Across Race and Ethnicity
- Gastric Cancer Survival Disparities Across Race and Ethnicity
- Gastric Cancer Mortality and Social Determinants of Health
- Future Direction Molecular Subtypes



Gastric Cancer is a Leading Cause of Mortality

- 3rd most common cause of cancer-related deaths
 - 5 yr survival ~ 20%
- 4th most common cause of cancer
- anatomic location correlates with prognosis
- incidence varies globally



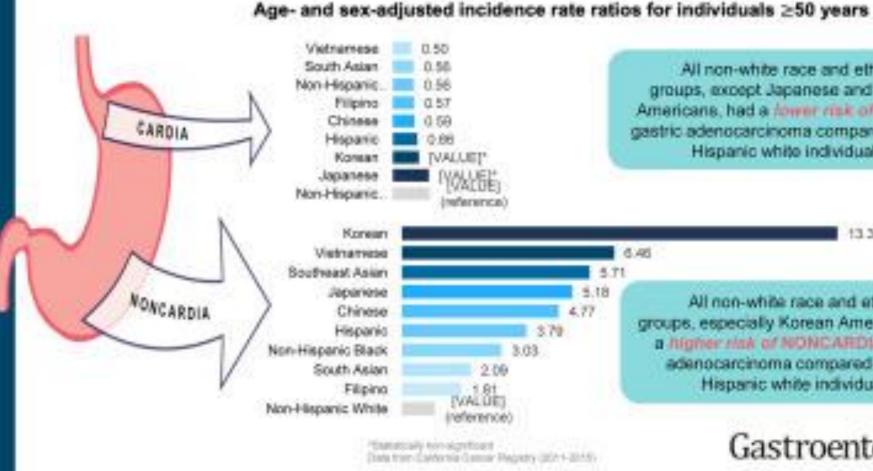
Population-Based Analysis of Differences in Gastric Cancer Incidence Among Races and Ethnicities in Individuals Age 50 Years and Older

Shailja C. Shah,^{1,2} Meg McKinley,^{3,4} Samir Gupta,^{5,6,7} Richard M. Peek Jr,² Maria Elena Martinez,^{6,8} and Scarlett L. Gomez^{4,9}

There are severalfold differences in the incidence of gastric adenocarcinoma in specific anatomic sites among different race and ethnic groups in individuals age >50 years old.

These findings may inform risk reduction and early detection programs for gastric adenocarcinoma.







Gastroenterology 2020;159:1705–1714



All non-white race and ethnic groups, except Japanese and Korean Americans, had a /ower risk of CARDIA gastric adenocarcinoma compared to non-Hispanic white individuals.

6.46 All non-white race and ethnic groups, especially Korean Americans, had a higher risk of NONCARDIA gastric adenocarcinoma compared to non-Hispanic white individuals.

Gastroenterology

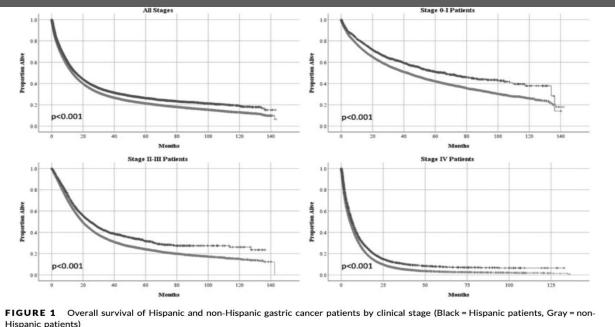
13.3

Evaluation of treatment and outcomes for Hispanic patients with gastric cancer at Commission on Cancer-accredited centers in the United States

Beiqun Zhao MD, Lawrence P. Leichman MD, Santiago Horgan MD, Michael Bouvet MD, Kaitlyn J. Kelly MD 🔀

TABLE 3 Surgery-related comparisons for stage 0 to III patients			
	Hispanics	Non-Hispanics	P value
Gastrectomy performed	2716 (63.5%)	24 607 (56.9%)	< 0.001 ^a OR: 1.32
Partial gastrectomy	1807 (67.7%)	16 399 (67.4%)	0.777 ^a
Total gastrectomy	862 (32.3%)	7927 (18.3%)	
Gastrectomy upfront	1747 (71.8%)	13 713 (61.1%)	< 0.001ª OR: 1.62
Staging laparoscopy	239 (5.6%)	2100 (4.9%)	0.037ª OR: 1.16
Minimally invasive gastrectomy	397 (25.6%)	3831 (29.1%)	0.004 ^a OR: 0.84
Greater than 15 LNs examined	1457 (57.3%)	11 750 (51.7%)	< 0.001 ^a OR: 1.25
R0 Resection	2262 (91.2%)	21 245 (92.8%)	0.004 ^a OR: 0.80
30-d Unplanned readmission	168 (6.3%)	1558 (6.5%)	0.706 ^a
30-d Mortality	62 (2.7%)	780 (3.7%)	0.015 ^a OR: 0.72
90-d Mortality	128 (5.6%)	1609 (7.6%)	< 0.001 ^a OR: 0.71

TABLE 4 Adjunctive therapy				
	Hispanics	Non-Hispanics	P value	
Neoadjuvant therapy (stage 0-I)	157 (16%)	1246 (11.6%)	< 0.001ª OR: 1.45	
Neoadjuvant therapy (stage II-III)	560 (31.7%)	7792 (38.7%)	< 0.001 ^a OR: 0.74	
Multimodal therapy (stage 0-I)	438 (24.8%)	3174 (17.7%)	< 0.001 ^a OR: 1.53	
Multimodal therapy (stage II-III)	1171 (48.9%)	11 381 (46.1%)	0.010 ^a OR: 1.12	



UC San Diego HEALTH SYSTEM

> Cancer Causes Control. 2019 Jul;30(7):687-696. doi: 10.1007/s10552-019-01184-0. Epub 2019 May 17.

Racial/ethnic differences in survival among gastric cancer patients in california

Amy K Klapheke ¹², Luis G Carvajal-Carmona ³⁴, Rosemary D Cress ⁵⁶³

Subgroup	NHB vs. NHW	Hispanic vs. NHW	API vs. NHW	
	HR (95% CI)	HR (95% CI)	HR (95% CI)	
Overall	1.06 (0.98, 1.15)	0.94 (0.90, 0.99) *	0.83 (0.79, 0.88) **	

	Latinos (<i>n</i> = 3879)	NLW (<i>n</i> = 4612)
Sex		
Men	2166 (56%)	3048 (66%)
Women	1713 (44%)	1564 (34%)
Age		
Early onset (\leq 50 years)	880 (23%)	363 (8%)
Late onset (>50 years)	2999 (77%)	4249 (92%)
Socioeconomic status		
Lowest	1285 (37%)	435 (14%)
Medium/high	2145 (63%)	2736 (86%)
Histology		
Intestinal	1929 (62%)	2739 (77%)
Diffuse	1187 (38%)	828 (23%)
Stage		
Localized	887 (23%)	1282 (38%)
Regional/remote	2580 (77%)	2895 (62%)

County Rurality and Socioeconomic Deprivation Is Associated With Reduced Survival From Gastric Cancer in the United States

Robert J. Huang,^{1,*} Shailja C. Shah,^{2,*} M. Constanza Camargo,³ Latha Palaniappan,⁴ and Joo Ha Hwang¹

Table 1. Association Between County-level Factors and Gastric Cancer–specific Survival						
	All Stages (N $=$ ²	107,562)	Localized Stage (n	= 27,078)	Advanced Stage (n	= 80,484)
County-level Factor	HR (95% CI)	Р	HR (95% CI)	Р	HR (95% CI)	Р
Rurality Rural (vs urban)	1.06 (1.03–1.10)	<.001	1.27 (1.16–1.39)	<.001	1.03 (0.99–1.06)	.2
Educational attainment (% of Lowest tertile (<80.0%) Middle (80.0%–88.2%) Highest (>88.2%) <i>P</i> for trend	f population aged ≥ 2 1.00 0.99 (0.97–1.02) 0.91 (0.89–0.93)	25 years with Ref. .6 <.001 <.001	at least a high-school c 1.00 1.11 (1.05–1.20) 0.91 (0.85–0.98)	legree) Ref. .001 .01 .006	1.00 0.97 (0.95–1.01) 0.92 (0.90–0.94)	Ref. .2 <.001 <.001
Poverty (% of households be Lowest tertile (<10.3%) Middle (10.3%–16.5%) Highest (>16.5%) <i>P</i> for trend	elow the federal pove 1.00 1.06 (1.04–1.08) 1.15 (1.11–1.18)	rty limit) Ref. <.001 <.001 <.001	1.00 1.07 (1.00–1.13) 1.30 (1.20–1.42)	Ref. .04 <.001 <.001	1.00 1.06 (1.04–1.08) 1.09 (1.05–1.12)	Ref. <.001 <.001 <.001



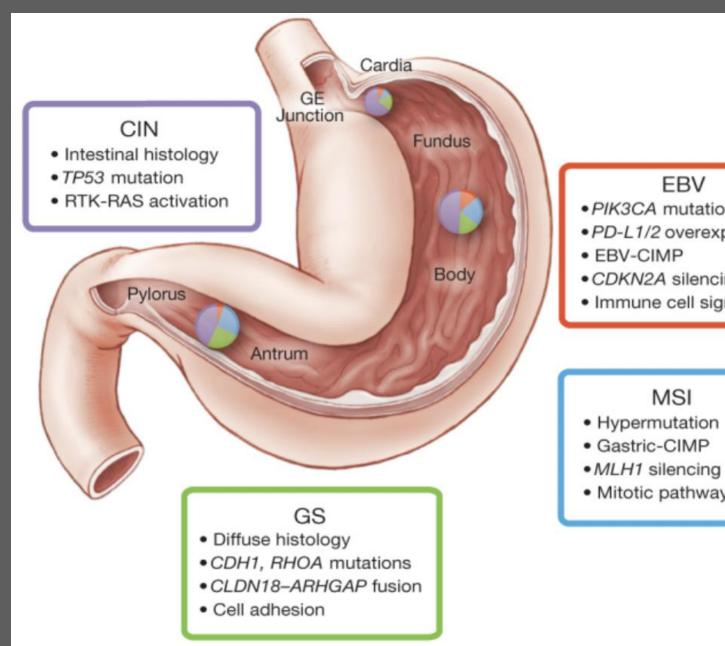


Nature. 2014; 513(7517): 202-209.

Published online 2014 Jul 23. doi: 10.1038/nature13480

Comprehensive molecular characterization of gastric adenocarcinoma

The Cancer Genome Atlas Research Network



PMCID: PMC4170219 NIHMSID: NIHMS627842 PMID: 25079317

EBV

 PIK3CA mutation • PD-L1/2 overexpression CDKN2A silencing • Immune cell signalling

MSI

Mitotic pathways

BIOLOGY OF HUMAN TUMORS | AUGUST 01 2017

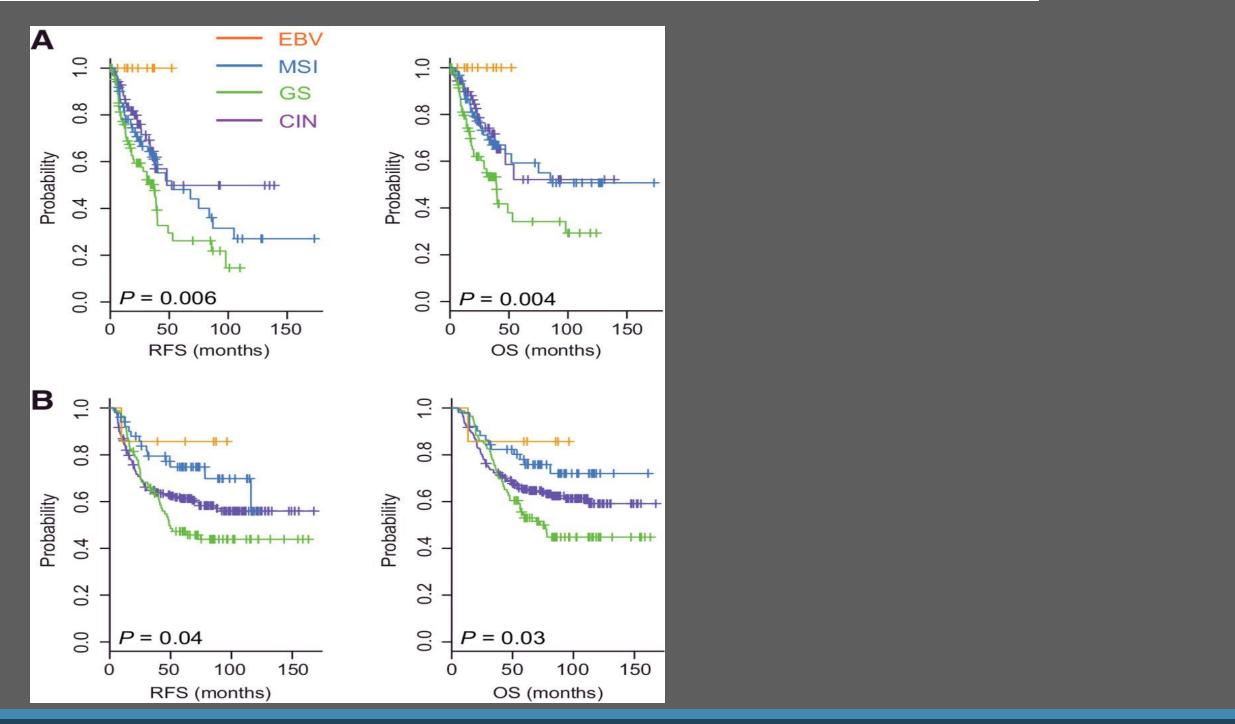
Clinical Significance of Four Molecular Subtypes of Gastric Cancer Identified by The Cancer Genome Atlas Project 🔗

Bo Hwa Sohn; Jun-Eul Hwang; Hee-Jin Jang; Hyun-Sung Lee; Sang Cheul Oh; Jae-Jun Shim; Keun-Wook Lee; Eui Hyun Kim; Sun Young Yim; Sang Ho Lee; Jae-Ho Cheong; Woojin Jeong; Jae Yong Cho; Joohee Kim; Jungsoo Chae; Jeeyun Lee; Won Ki Kang; Sung Kim; Sung Hoon Noh; Jaffer A. Ajani; Ju-Seog Lee

Check for updates

+ Author & Article Information

Clin Cancer Res (2017) 23 (15): 4441-4449.

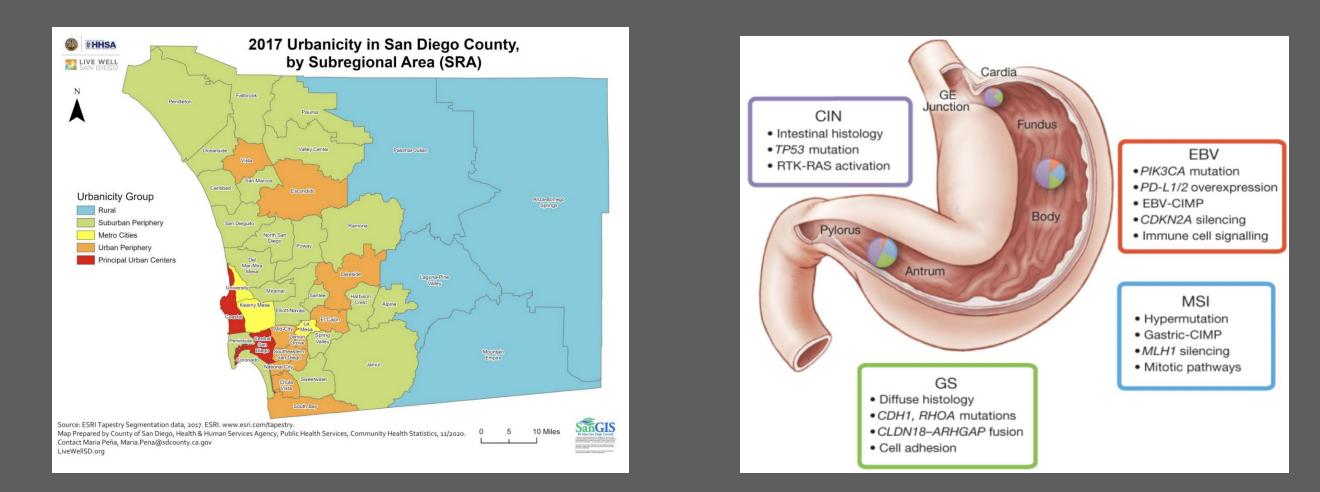


Future Direction: UC Wide Consortium led by Dr. Carvajal-Carmona

- Objective: To better understand the role genes play in cancer tumorigenesis among racial/ethnic minority gastric cancer patients.
 - minority patient-derived organoids
 - elucidate therapeutic sensitivity and resistance mechanisms in minority patients

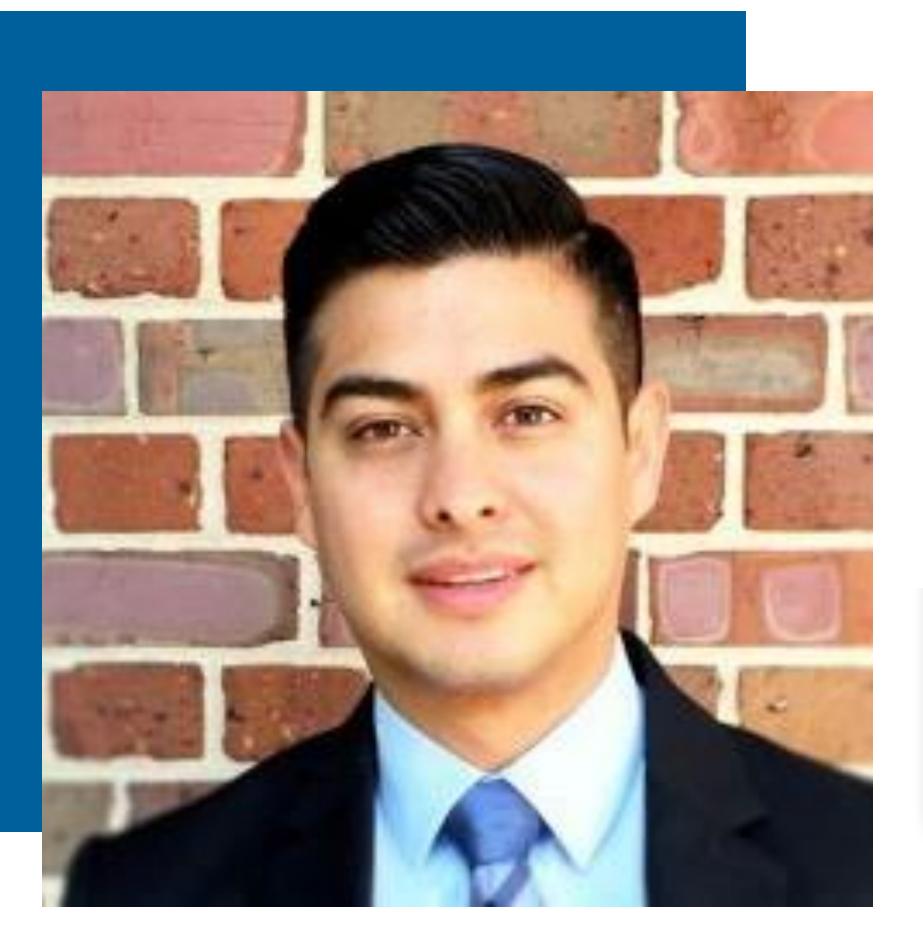
Future Direction: Intersectionality of Molecular and and Social Determinants in San Diego Gastric Cancer Patients

Objective: To better understand the intersectionality of molecular and social determinants in local gastric cancer treatment access and survival.



ThankYou

Elena Martinez Samir Gupta Jim Murphy Luis Carvajal-Carmona



UNDERSTANDING CANCER ETIOLOGY AMONG HISPANIC/LATINO HERITAGE GROUPS: THE HISPANIC COMMUNITY HEALTH STUDY/STUDY OF LATINOS (HCHS/SOL)

HUMBERTO PARADA, PHD, MPH

Associate Professor & Division Head of Epidemiology and Biostatistics at San Diego State University of Public Health



Understanding Cancer Risk among Hispanic/Latino Heritage Groups:

The Hispanic Community Health Study (HCHS) /

Study of Latinos (SQL) Humberto Parada Jr. PhD. MPH Associate Professor San Diego State University

U.S. Hispanics/Latinos

Population of 62 million, 19% of the US population in 2020

Mexican, 61.9%

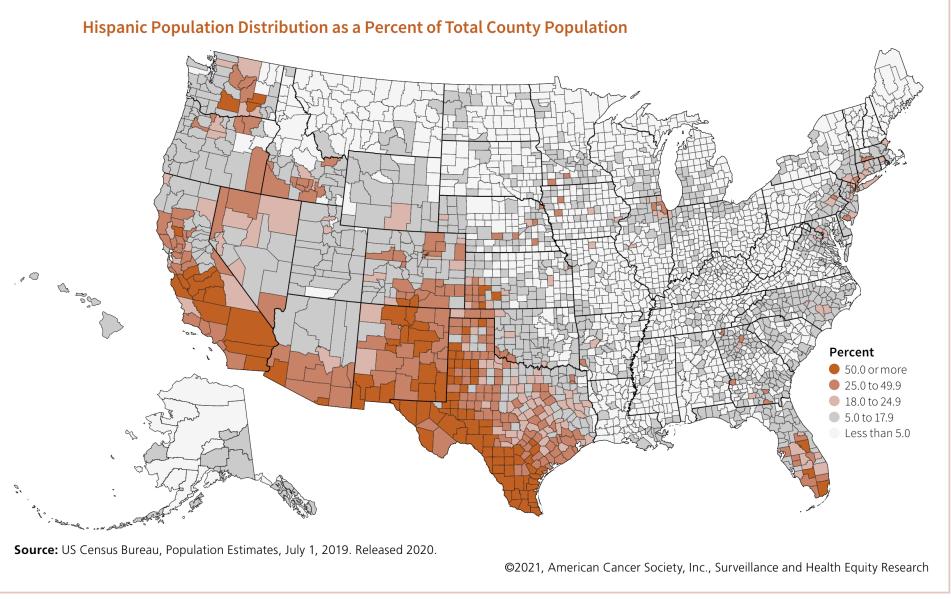
Puerto Rican, 9.7%

Cuban, 4.0%

Salvadoran, 3.9%

Dominican, 3.5%

(US Census Bureau, 2020)

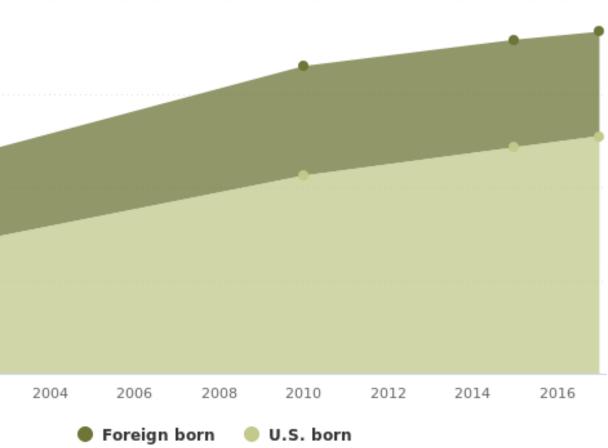


U.S. Hispanics/Latinos: Mexicans

Median Age: 27 y	Mexican-ori 2000-2017
Education Attainment: 12% 25 y or older obtained at least a bachelor's degree	40 M 30 M
Median annual personal earnings: \$25,000	20 M
Poverty Status 20% live in poverty	10 M
Top States of Residence California (35%) Texas (26%) Arizona (5%)	0 2000 2002 Note: Latino origin is based on s Source: Pew Research Center ta Surveys (1% IPUMS).

(Pew Research Center 2023)





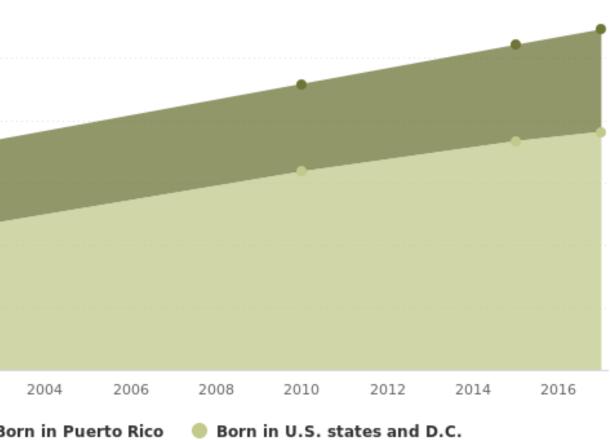
n self-described ancestry, lineage, heritage, nationality group or country of birth. r tabulations of 2000 census (5% IPUMS) and 2010, 2015 and 2017 American Community

U.S. Hispanics/Latinos: Puerto Ricans

Median Age: 30 y	Puerto Ricar D.C., 2000-2
Education Attainment: 19% 25 y or older obtained at least a bachelor's degree	6 M
Median annual personal earnings: \$28,600	4 M
Poverty Status 23% live in poverty	2 M 1 M
Top States of Residence Florida (20%) New York (20%) New Jersey (8%)	2000 2002 Bo Note: Puerto Rican-origin popula described ancestry, lineage, her Source: Pew Research Center ta Surveys (1% IPUMS).

(Pew Research Center 2023)

n-origin population in U.S. states and 2017



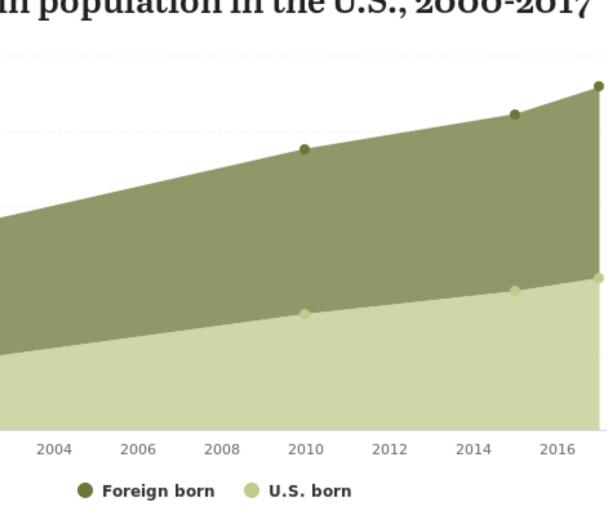
ulation living in the 50 U.S. states and the District of Columbia. Latino origin is based on selfneritage, nationality group or country of birth.

tabulations of 2000 census (5% IPUMS) and 2010, 2015 and 2017 American Community

U.S. Hispanics/Latinos: Cubans

Median Age: 40 y	Cuban-origi
Education Attainment: 27% 25 y or older obtained at least a bachelor's degree	2.5 M
Median annual personal earnings: \$28,000	1.5 M
Poverty Status 16% live in poverty	500k
Top States of Residence Florida (66%) California (5%) New Jersey (4%)	2000 2002 Note: Latino origin is based on s Source: Pew Research Center ta Surveys (1% IPUMS).

(Pew Research Center 2023)



in population in the U.S., 2000-2017

on self-described ancestry, lineage, heritage, nationality group or country of birth. tabulations of 2000 census (5% IPUMS) and 2010, 2015 and 2017 American Community

Advancing the Science of Cancer in Latinos – <u>Chapter 2</u>

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NIH	National Library of Medicine National Center for Biotechnology Information	
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Advancing the Science of Cancer in Latinos	Advancing the Science of Cancer in Latinos [Internet]. Show details Contents	< Prev Next >
The man The man Control Co	Search this book	

Chapter 2 Disaggregated Hispanic Groups and Cancer: Importance, Methodology, and Current Knowledge

Paulo S. Pinheiro, Karen E. Callahan, and Erin N. Kobetz.

Author Information and Affiliations

Published online: December 13, 2019.

Cancer is the leading cause of death among Latinos/Hispanics, the largest racial/ethnic minority group in the United States. Their cancer burden has nearly doubled in 15 years, with 129,000 new cancer cases nationwide in 2014. As this relatively young Hispanic population ages, this burden will inevitably increase; thus, accurate characterization of the Hispanic cancer experience is critical. In this chapter, we summarize the current knowledge on cancer in Hispanics, with a focus on the imperative of disaggregating by specific Hispanic group (Mexicans, Puerto Ricans, Cubans, Central Americans, South Americans, and Dominicans) and nativity. We also describe for the first time some major methodological challenges in determining accurate cancer indicators for specific Hispanic groups and suggest approaches to overcome these hurdles. Our research shows that cancer patterns by specific Hispanic group can be quite distinct according to country of origin, particularly among the first-generation immigrants. For the second-generation Latinos and beyond, patterns for obesity-related cancers, poverty-related cancers, and particularly liver

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In this Page Introduction	
Epidemiology of Cancer in Hispanics: Aggregated	
Epidemiology of Cancer in Disaggregated Hispanic Groups	
Current Knowledge: Cancer in Hispanic Groups, Based on Mortality Data	
Conclusions	
References	

Related information PMC

HCHS / SOL Study Design

A multi-center, community-based, prospective cohort study

Adults of Hispanic/Latino origin between the ages of 18-74 were enrolled across four field centers in:

Bronx, NY; Chicago, IL; Miami, FL; San Diego, CA

Stratified two-stage area probability sampling with stratification and oversampling incorporated at each stage

Assessments:

♦ Visit 1 in 2008-2011: *n*=16,415

Visit 2 in 2014-2017: *n*=11,623 [73% retention rate, among eligible pts.]

Visit 3 in 2021-2023: n=##,### [Recently completed]



State Cancer Registries

California Cancer Registry



New York State Cancer Registry

Florida Cancer Data System



Illinois State Cancer Registry





Matching Criteria SSN* **First Name** Middle Name Last Name* Sex Birth date Telephone* Zip code Street Address*

Data Provided by State Cancer Registries

- Patient Demographics: name, age, gender, race, ethnicity, birthplace
- Tumor Characteristics: biological, clinical, and genomic aspects of malignancy
- Treatment: types and dates of treatments
- Outcomes: vital status, cause of death, survival time

Data on incident cancers diagnosed from HCHS/SOL baseline (2008) through December 31, 2020

The HCHS / SOL + State Cancer **Registry Linkage**



Anthropometry Cognitive Screening Acculturation Alcohol and Tobacco use **Dietary Behavior** Medical History Occupation Physical Activity **Reproductive History** Sleep Social Networks Stress 'Omics

State Cancer Registries

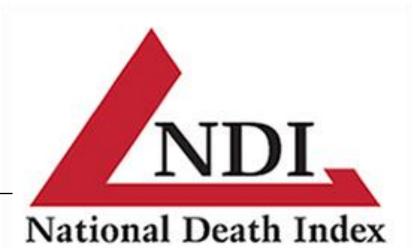
Tumor Characteristics

Treatment

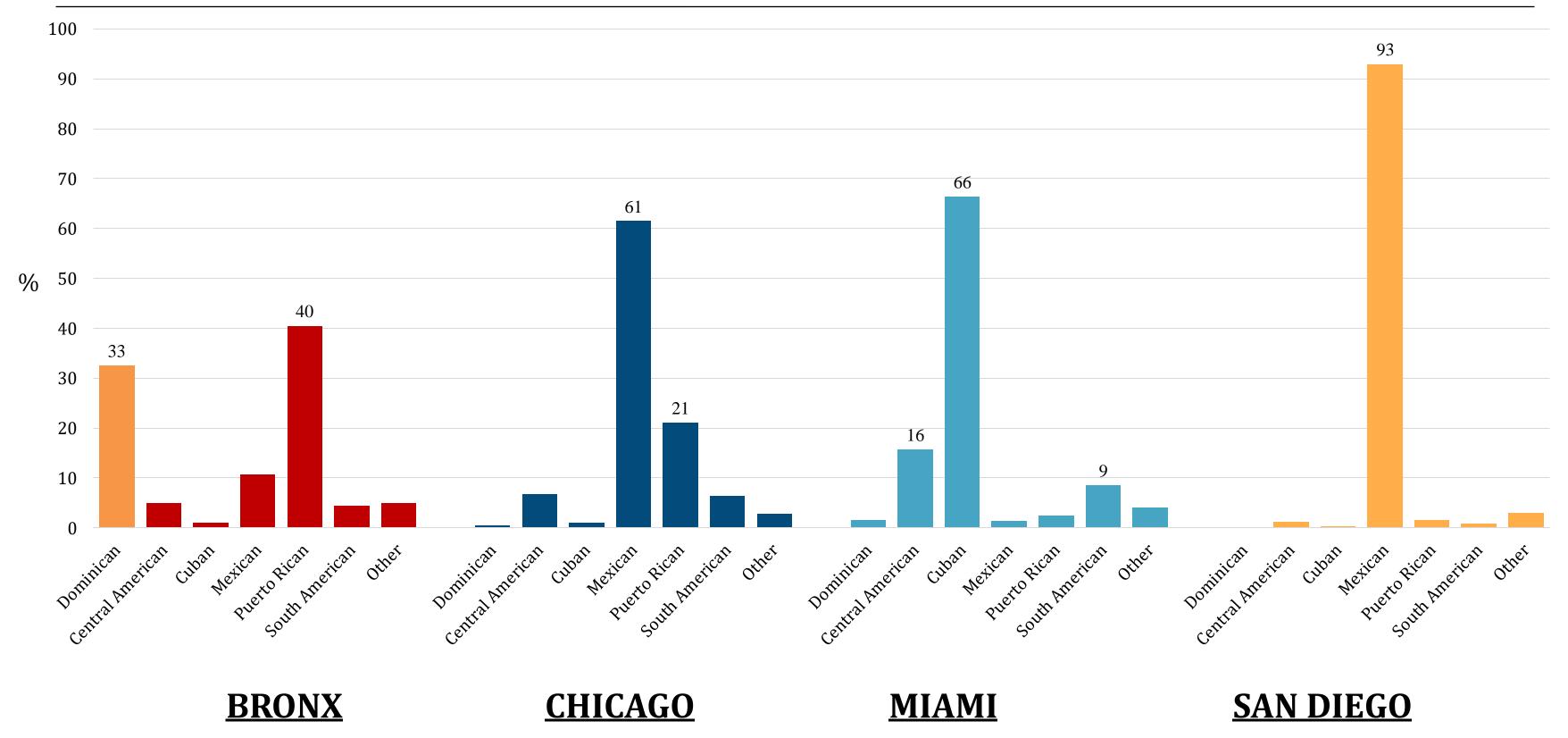
Vital Status

National Death Index Linkage

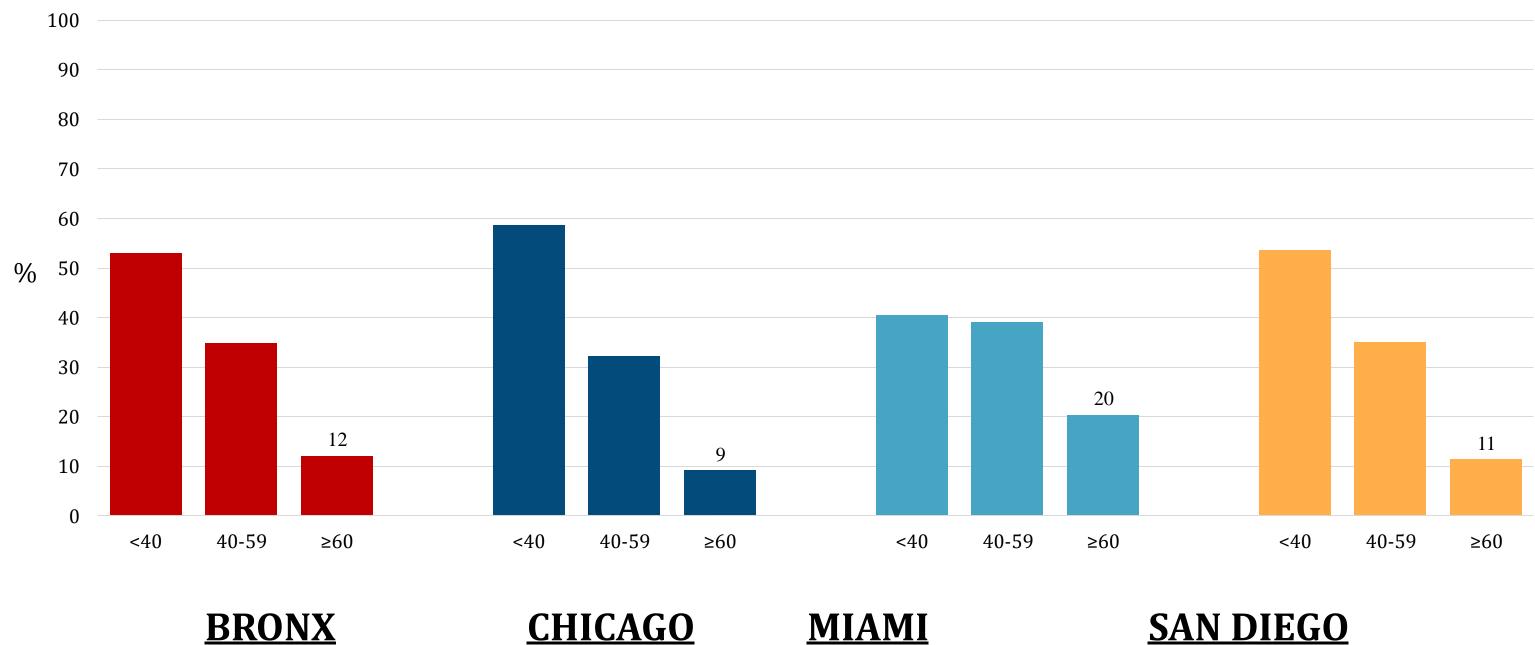
- As the most complete source of death information in the United States, the NDI currently holds all death records from 1979-latest for all 50 states, DC, New York City, Puerto Rico, and U.S. Virgin Islands
- The NDI assists investigators in determining whether persons in their studies have died and, if so, provides:
- Data available: States in which deaths occurred, Dates of death, Corresponding death certificate numbers, Cause(s) of death



Population Characteristics: Hispanic Heritage

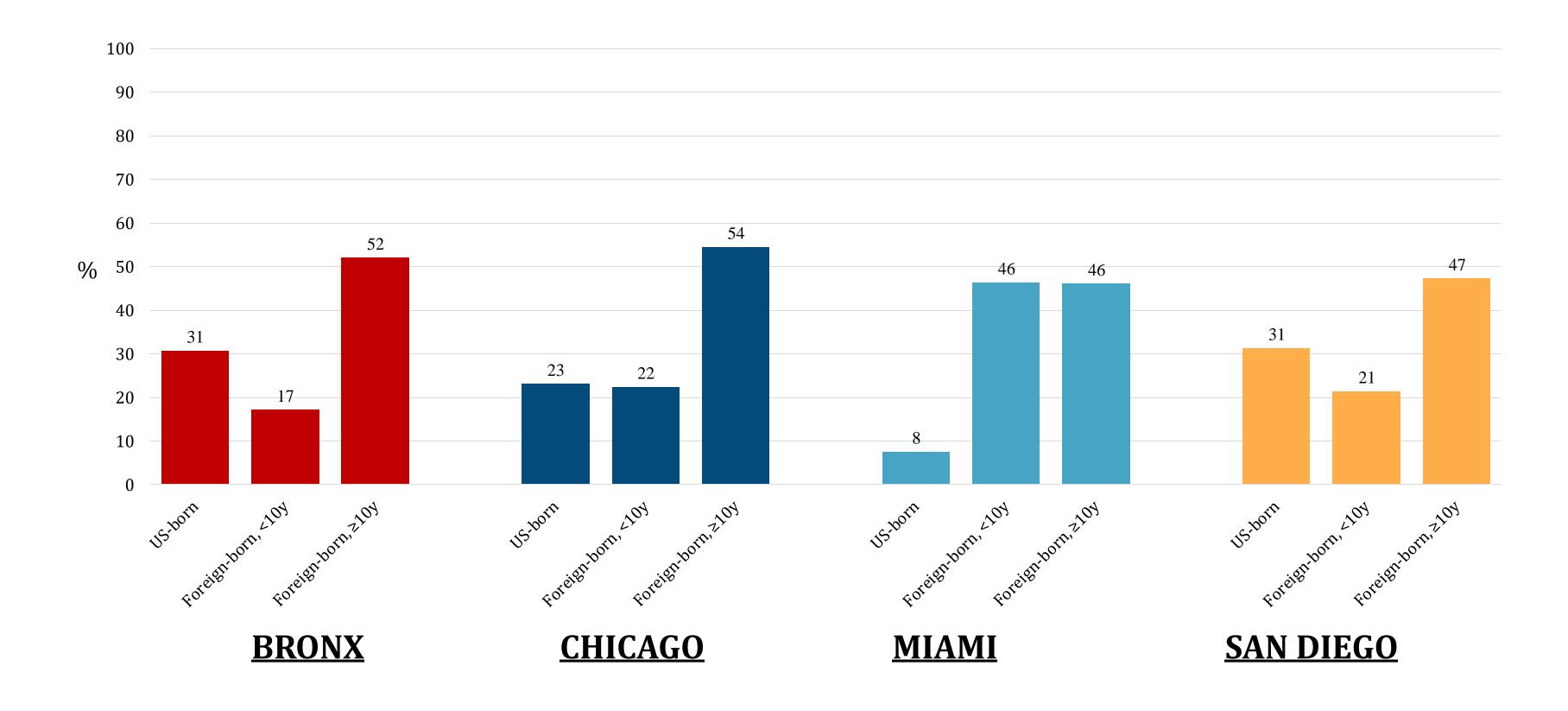


Population Characteristics: Age

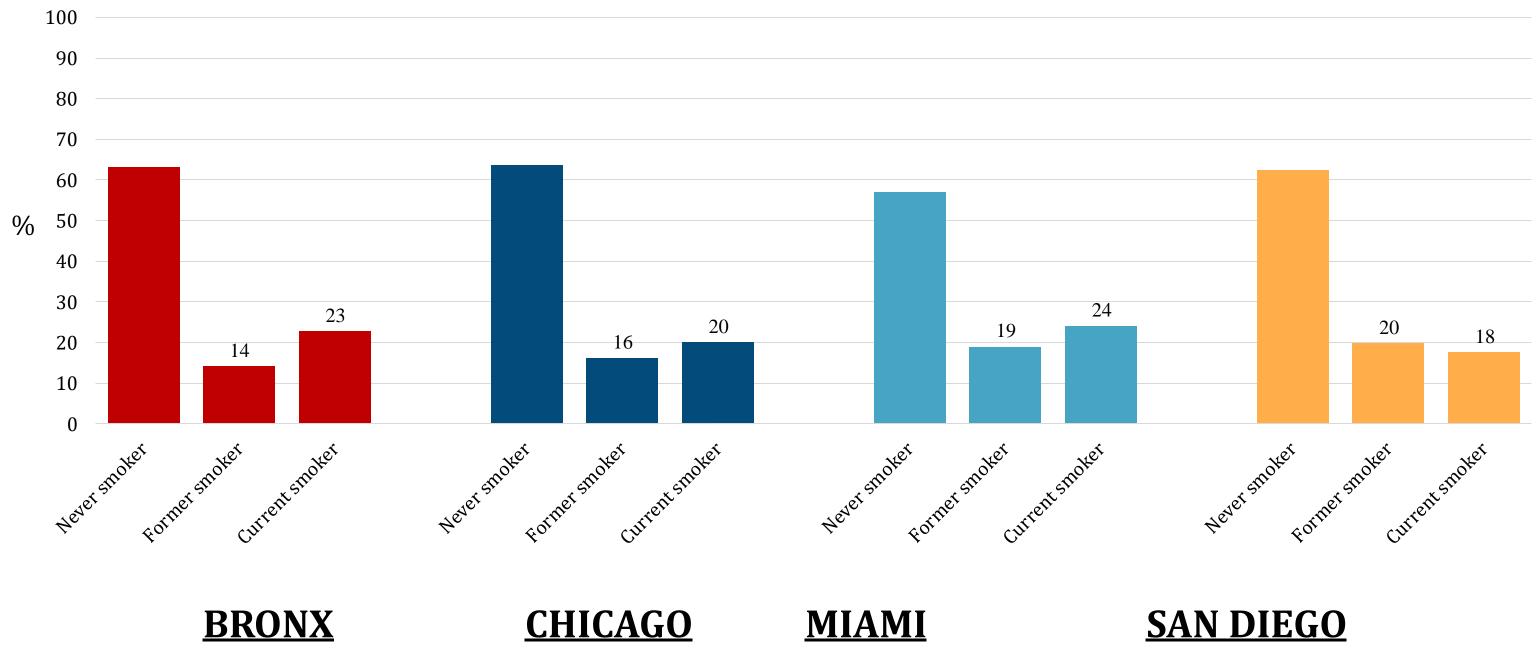


SAN DIEGO

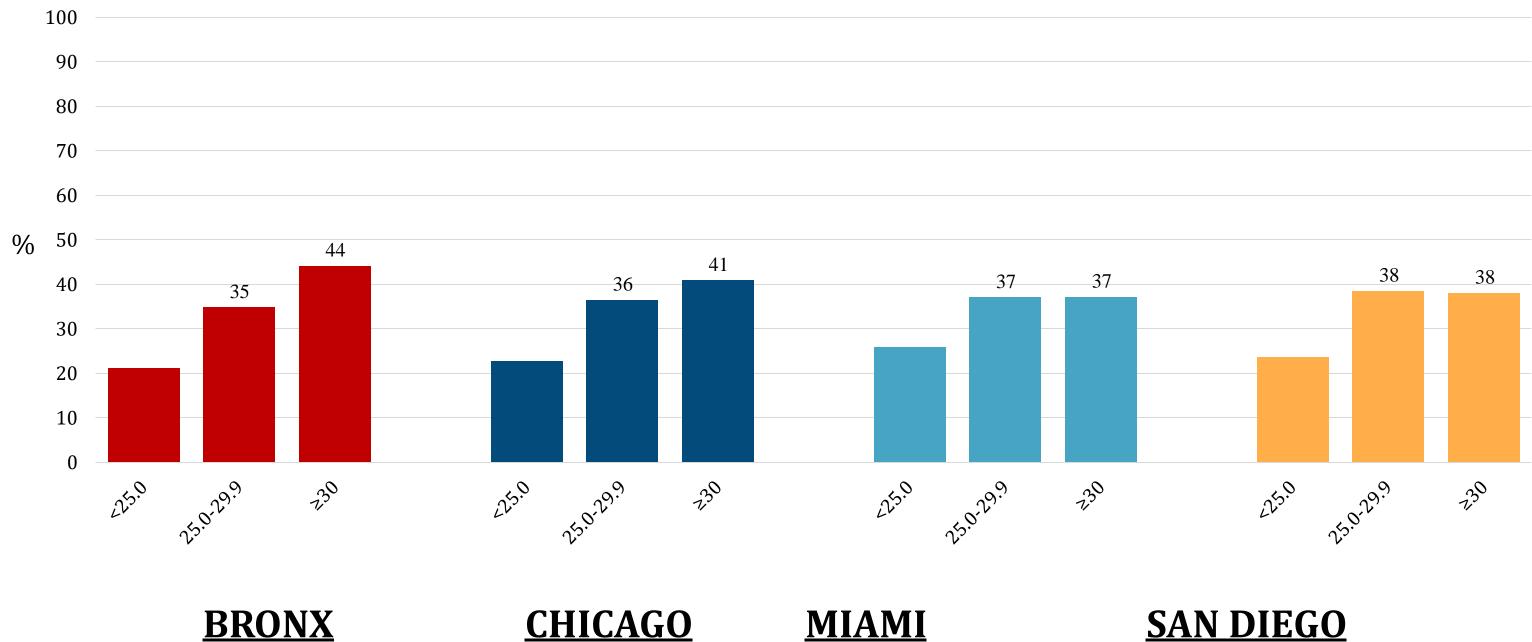
Population Characteristics: Nativity and Years in the US



Population Characteristics: Cigarette Smoking

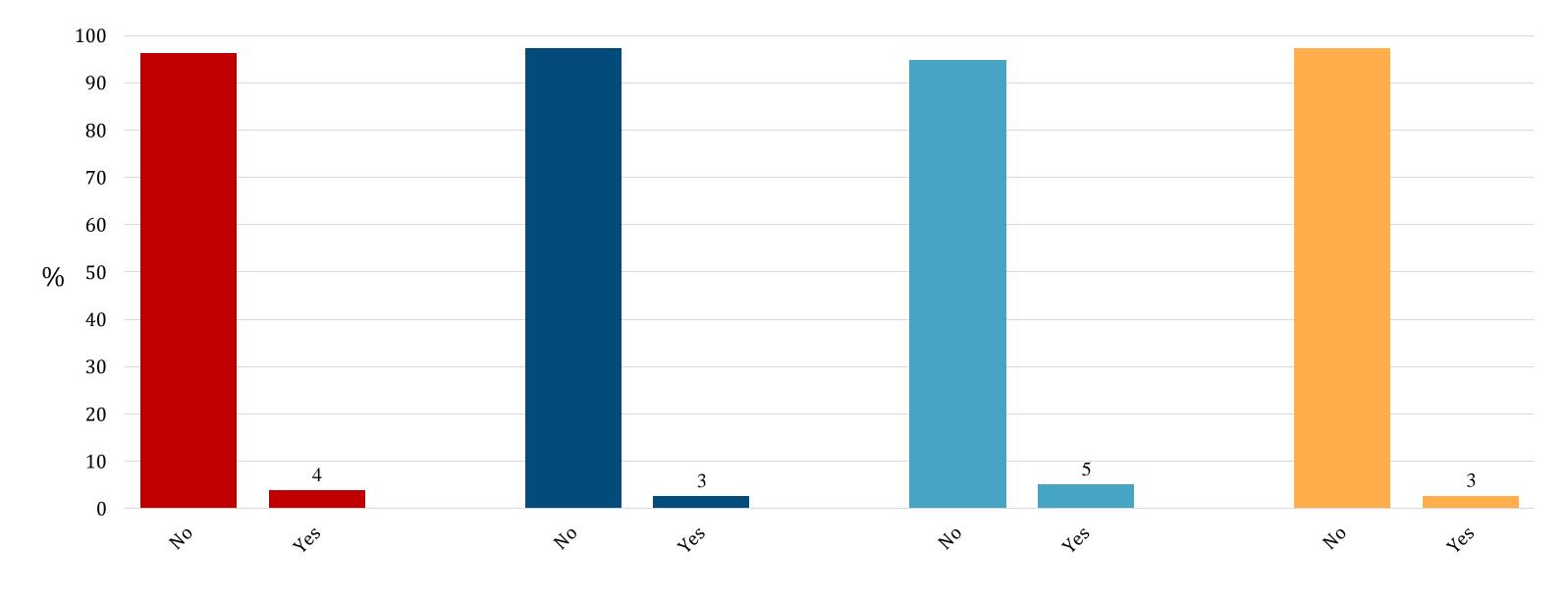


Population Characteristics: Body Mass Index



SAN DIEGO

Population Characteristics: Cancer History



BRONX <u>CHICAGO</u> <u>MIAMI</u>

SAN DIEGO

Future Directions

- Examine known risk factors in association with cancer risk among Hispanic/Latino heritage groups.
- Propose new ancillary studies focused on cancer risk, capitalizing on existing HCHS/SOL data
- Continue to expand cancer outcome ascertainment in HCHS/SOL

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MPIs: Guadalupe X. Ayala, MA, PhD, MPH and Kristen J. Wells, PhD, MPH

HCHS/SOL Study

Greg Talavera, MD, MPH Linda Gallo, PhD

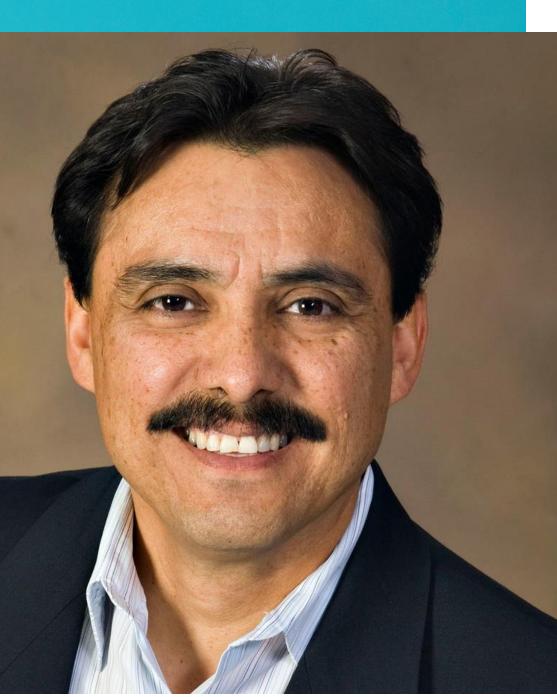




QUESTION & **ANSWER SESSION**

Use the zoom chat to write in a question for our guest speakers!

MODERATOR:



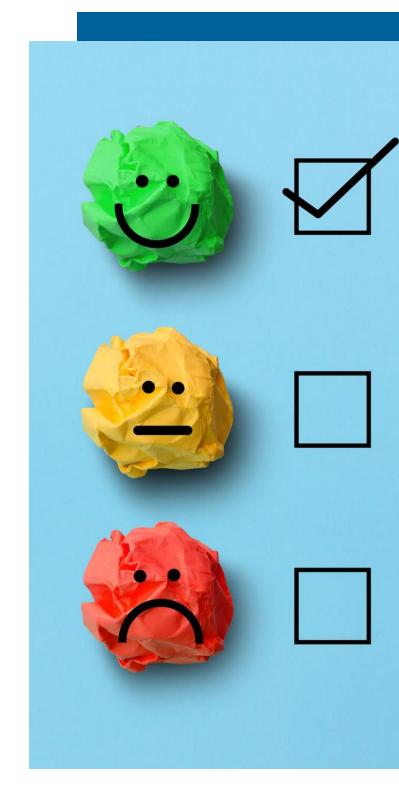
JESSE NODORA, DRPH

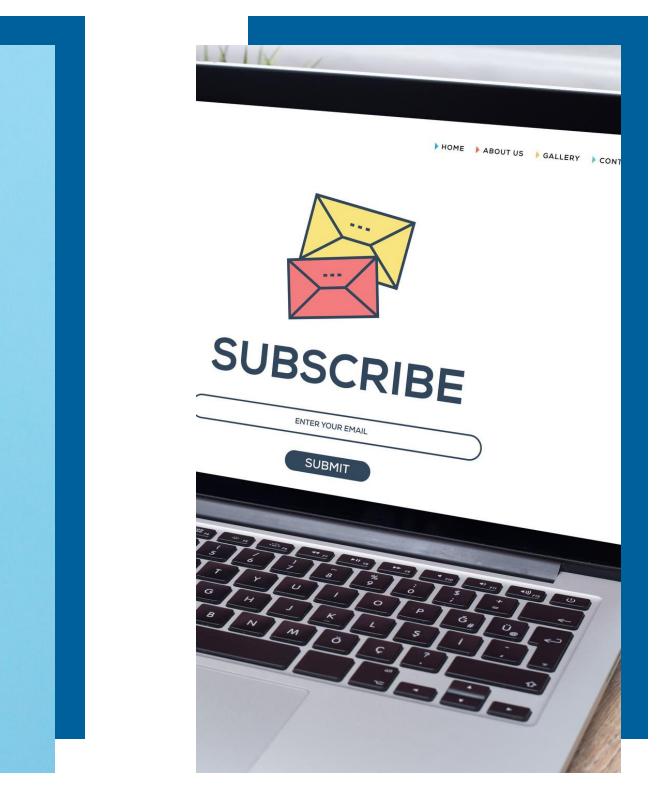
Associate Professor, Radiation Medicine and Applied Sciences | Community Outreach UC San Diego Moores Cancer Center

NEXT STEPS

Have comments for us? We would appreciate your feedback on today's event link in the chat!

Sign up for our Community Outreach & Engagement ✓ newsletter (link in the chat) and follow us on Twitter @UCSDCancer_COE for the latest updates!





THANK YOU!

Meeting recording, slides and resources coming soon







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