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## **HELIOS Lab Informational**

Summer 2023

# Introductions

- 1. Name
- 2. Field of study / Program
- 3. Hometown
- 4. Something that may surprise us about you?

We will start recording after the introductions





- **2** What We Do: Current Research Projects
- **3** What We Expect: Lab Requirements
- 4 What You Gain: Opportunities
- **5** Next Steps: Application





# Established in 2017, the HELIOS Lab is a student led research lab with the purpose of:





The HELIOS Lab 2018-2019 Providing Community-Based
 Research & Clinical Experience
 Opportunities

 Studying Health Disparities in Marginalized Communities

Providing Students with
 Leadership Skill Development
 Opportunities



# **Our Mission**

# Health Services **Research**

## Commitment To Our Future Healthcare Leaders' Career Goals

## Help Create A More Equitable Healthcare System









SHARE-FM Build leadership skills in returning students and set the direction for the next HELIOS year Clarify why health equity work needs to be done. And why **you** are the one to do it.

Fall Quarter

The Health Equity Lens

Winter Quarter Real World Health Research

Learn foundations of research design and methods through an applied *Microproject* 

Spring Quarter Scientific Communication

Communicate the lessons and value of your work to professional and community audiences.

HELIOS offers a year-round curriculum in health equity, professional development and research.

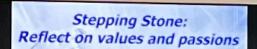
The SHARE-FM summer experience offered by HELIOS, offers emerging leaders within the lab a summer stipend and a 200 hours of professional development with medical student mentors over 10 weeks

OUT EXCEP

## HELIOS activities and leadership opportunities build cohesive cohorts of equity-minded students

Collaboration and learning with community partners like CRECE Urban Farm, Latino Health Access and others.





What values motivate your behavior? What is needed?

What are you good at?

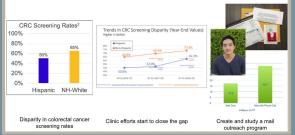
What gets you excited and energized?

Who do you love?

Learning from dynamic leaders in the health professions and community spaces.

KR







**Health Equity** 

**Research (and you)** 

can drive systems

change

See disproportional impact of Conduct and disseminate COVID-19 community interviews

HEAL-OC Project funds 4 nonprofits and City HEq Office



Health Equity Research prepares the next generation of professionals

Debara Deret

HELIOS '20

UCLA Masters of

Nursing Program

HELIOS '19

Burrell College

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Carlos Garcia	Eric Gonzalez
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HELIOS '20	HELIOS '18
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HELIOS '19

UCI PRIME-LC

Medical Schoo

HELIOS '21 UCI PRIME-LC Medical School







HELIOS '19 UCI LEAD-ABC Medical School

HELIOS 19

UCI LEAD-ABC

Ngozi Okoroma HELIOS '21 UCSD Pharmacy Schoo



outcomes and Patient Advisory Groups



how it works





Growing up as a child in Compton, California, LaShyra "Lash" Nolen dreamed of being a neurosurgeon and an astronaut. Her ambitions proved to be profitable leading her to become the first Black woman class president of Harvard Medical School (HMS)



Selected for 5 years of funding

Jan 2023 - June 2027

Competitive proposals will demonstrate a commitment to the HPPP goals by implementing one or more of the following components:

- · Pipeline programs that provide comprehensive academic enrichment, career development, mentorship, and advising in order to support students from underrepresented regions and backgrounds to pursue health careers.
- Paid summer internships for undergraduate students.
- · One-year post undergraduate fellowships.

Eligible Applicants, Available Funding, and Award Categories

1. Eligible Applicants

Proposals must promote eligible health professions: Primary Care

- Behavioral Health
- Geriatrics
- Nursing

 Oral Health Allied Health

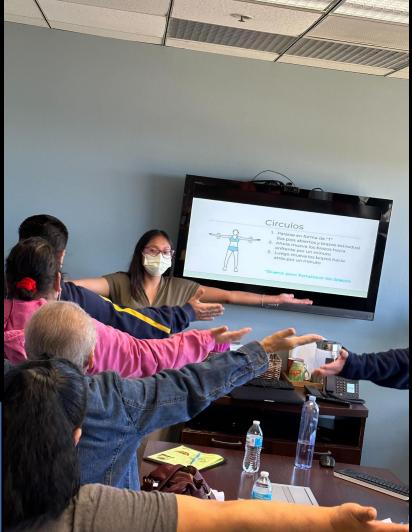
Awardees must not use grant funds to supplant the salaries of existing full-time employees, or to provide training or continuing education for staff.

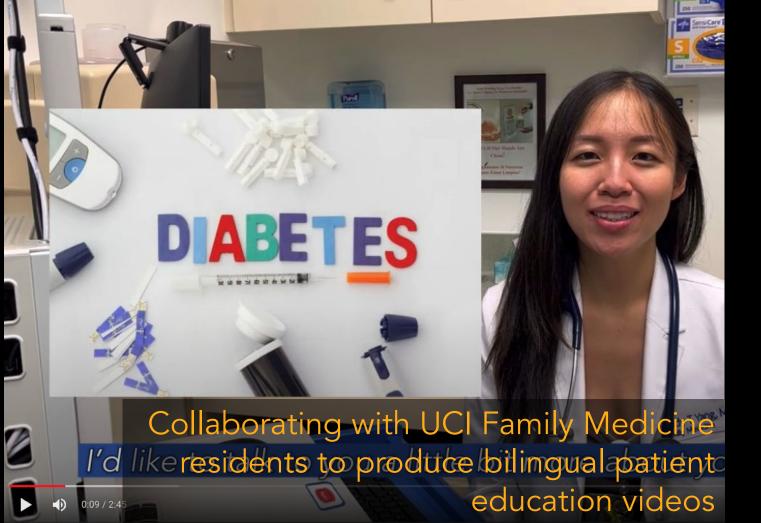


national conferences.

**HELIOS** students and staff lead Spanish-language blood pressure education classes with UCI Health Patients for the NIH funded Mi Propio Camino project







### ¿Cómo Voy a Llegar a la Clínica?: Hypertensive Latinx Patients' Journey to a Federally Qualified Health Center in Santa Ana, CA

Liliana Chau, Danielle Zaragoza, Brianna Flores, Devan Peterson, Shayda Abazari, John Billimek PhD, Adriana Orellana University of California—Irvine, UCI Department of Family Medicine

#### Introduction

- · Transportation can be a major barrier to accessing medical care
- When we see patients in clinic, the patient's journey to the clinic is
   often overlooked
- We aimed to describe the journeys of adult Latinx patients with hypertension at a federally qualified health center

#### Methods

- Driving distance from home address to the UCI Family Health Center Santa Ana was estimated using Google Maps for Latinx patient's hypertension participating in an NIH-funded hypertension study (n=235)
- A brief transit survey about modes of transportation and travel time to clinic was completed by a consecutively sampled subset of participants (n=87)
- Descriptive statistics on travel distance, method and time are presented
- Compared by gender and between patients with access to a car vs. those with no access to car with t-tests and Fisher's Exact test

#### Results

- In the total sample (n=235), average distance to clinic was 5.5 miles
- Transit survey subset (n=87) had similar demographics and distance to clinic as total sample
- People without access to a car had much longer transit times but much shorter distance to clinic than those with access to a car (p's<0.05)</li>
- Minutes per mile of transit to clinic were 3x greater for those without access to a car (p<0.001)</li>
- Women lived similar distances from clinic compared to men but were much less likely to have access to a car, especially a car they can use to drive themselves to clinic. (p<0.001)</li>

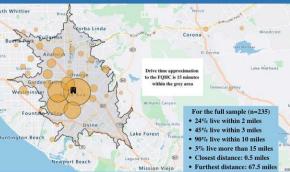
#### Discussion

- Shorter commute distances for people without access to a car suggest that people without a car who live further away cannot as easily access this clinic
- Women who attend clinic visits do not live any closer on average than male patients, but have significantly less access to a car, supperformance considerable recourse fullences to access are despite by the second second second second second second second second by the second second

Learn mo

- Data limited to patients who actually made it to the clinic
- Future research should investigate transfortation barriers among
   monte many optimized in the second secon

Among Latinx adult patients of a safety net clinic, lacking access to a car triples transit times per mile. Women are more than twice as likely to lack access to a car.

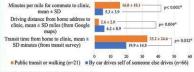


what it takes

	Full Sample (n=235)	Transit Survey Subset (n=87)
Age, mean ± SD years	$58 \pm 10$	$55 \pm 9$
Gender, no. (%) female	163 (70%)	56 (64%)
Education, no. (%) high school or beyond	32 (14%)	17 (20%)
Ethnicity, no. (%) Hispanic	235 (100%)	87 (100%)
Preferred language, no (%) Spanish	235 (100%)	87 (100%)
Country of birth, no. (%) born outside U.S.	222 (94%)	84 (97%)
Household income, no. (%)		
<\$20,000 per year	127 (54%)	43 (49%)
\$20,000 or more per year	52 (22%)	29 (33%)

lot reported	56 (24%)	15 (17%)
Driving distance from ome address to clinic, nean ± SD miles (from ioogle Maps)	$5.5 \pm 7.4$	$5.3\pm8.0$

#### Figure 1. Commute length by access to car (transit survey subset, n=87)



\*Computed using independent samples t-test

Scan to access

#### Table 2. Different journeys for women vs. men (transit survey subset, n=87)

	Men (n=31)	Women (n=56)	p-value
Driving distance from home address to clinic, mean ± SD miles	$5.7 \pm 5.6$	$5.1\pm9.1$	0.94ª
Mode of transportation to clinic, no. (%)			< 0.001
By car, drives self	24 (77%)	17 (30%)	
oy car som sone els arizes	210	22 (39%)	
Public transit or walking	4 (13%)	17 (30%)	

Graduating seniors are honored at with a graduation stole at the annual HELIOS Banquet

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Health Equity Research









Danielle Chavez Nursing

Brett Cervantes Medicine

Carlos Garcia Medicine

Cristabel Nunez Physician Assistant





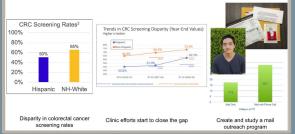




 Rebeca Perez
 Jessica Arizmendi de la
 Anne Osuji
 Alexis Pellecer

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**Research (and you)** 

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Mentoring others HELIOS lab HERALDs of Health Equity Health Equity Researchers Across Lots of Disciplines

Health Equity Research prepares the next generation of professionals

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<b>Biological Sciences</b>	Public Realth Sziences
HELIOS '20 UCSD Medical School	HELIOS '18 Clinical Resea Coord, All of U

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UCI LEAD-ABC

Medical School

HELIOS '21

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Jeanifer Bu

HELIOS '19

Burrell College

HELIOS 19 LICI PRIME-LC UCI PRIME-LC Medical School



Jan 2023 - June 2027





Jessica Arizmendi De Li HELIOS '19 HELIOS '19

Ngozi Okoroma HELIOS '21 UCI PRIME-LC UCSD Pharmacy Schoo



outcomes and Patient Advisory Groups

Bring an idea to life and see

how it works





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Medical Schoo

- · Pipeline programs that provide comprehensive academic enrichment, career development, mentorship, and advising in order to support students from underrepresented regions and backgrounds to pursue health careers.
- Paid summer internships for undergraduate students.
- One-year post undergraduate fellowships.

Eligible Applicants, Available Funding, and Award Categories

1. Eligible Applicants

Proposals must promote eligible health professions:

Allied Health

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# Meet Our Team

## https://thehelioslab.org/team











### Mi Propio Camino (My Own Way) https://thehelioslab.org/mpc



### Background:

Latinx adults with hypertension are **more likely to have uncontrolled blood pressure (bp)**, but are **much less likely** to be taking guideline medications

### Purpose:

MPC examines an intervention that combines, group medical visits, home monitoring and physician oversight to empower patients to explore different combinations of medication and lifestyle to find *Mi Propio Camino (My Own Way)* to control BP.

## Recruitment



## Intervention







## 2023

## **MICROPROJECTS**

### **UROP 2023 Posters**

https://thehelioslab.org/presentations

#### Assessing Patients' Attitudes Toward the Use of Integrative Healthcare Services Audrey Sjobeck, John Billimek, PhD, Alex Kieo, MD

#### BACKGROUND:

Due to the ongoing stigma and discrimination in the healthcare setting, understanding what factors are involved in a mood/stress related disorder patient seeking treatment is crucial to gaining better insight for what rhetoric to use with these patients in the field of integrative medicine (IM).

#### METHODS:

- 90 patients with mood/stress related disorders recruited from the UCI Family Medical Center in Santa Ana, California
- Qualtrics questionnaire developed to collect patient demographics and ten-point Likert scale to assess levels of importance in patient healthcare treatment preferences

#### **RESULTS:**

Findings suggest that the factors, associating IM as a safe and effective practice and having prior experience using IM, have a relationship with a patient's intention to use IM

#### IMPLICATIONS:

 Patients' attitudes toward the use of IM can help shape future intervention studies with mood/stress related disorder patients that lead to an experience involving less stigma and discrimination

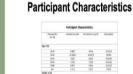




Associating integrative medicine (IM) as a **safe and effective practice** and **having prior experience** using IM suggest a relationship with **intention to use** integrative health services



Scan for full poster & additional information



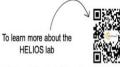


#### Independent Sample T-test Results

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magetance of these social Trademont Before Indiana	10,017	-	10110,000	1.0
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Ingenties of Aveiling Live	1000	640.00		10
maniana of Artrany Opcia Recommendation	8891.25	839212	888-81.145	1.58

#### Forest Plot; Mean Differences

Sarvey responses, in descording order of mean difference	Aschitember to san IM (Mean: 1 S2)	(Mean 1 52)	Maan Difference (error bars 90% CI)
Prior Experience Liking IM	88+18	87181	-
Associates TM as safe and effective	5.8±2.7	7.4 ± 2.5	
Impertance of paiers using inculment	5.9 1 1 8	48137	
Importance of avoiding side effects	76:22	80135	
importance of research support for treatment	87118	86122	-
Importance of minimizing cald	6.722.0	84123	
Imperiance of primery care decise recommendation	n 8.843.6	A3122	-8-
			1111



Acknowledgements: A special thank you to Allison Kim for figure caption contribution.



Audrey Sjobeck (she/her/hers) Psychology Class of 2023 Assessing Patien

Attitudes Toward the

Use of Integrative Healthcare Services

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A Pilot Study of Diabetes Education Videos to Reduce Knowledge Gaps in Patients from an FQHC

### A Pilot Study of Diabetes Education Videos to Reduce Knowledge Gaps in Patients from an FQHC

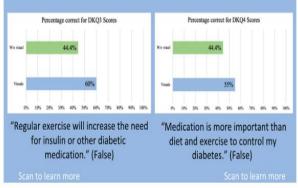
Naomi Jannae Ferrer, Angyelisa Hernandez, Gabriela Lopez Ruano, Jeffrey Garcia, William Hernandez, John Billimek, PhD, Cindy Yang, MD

### Introduction

- Spanish speaking patients at the UCI family Health Center in Santa Ana have a low health literacy
- It is significant to provide a basic knowledge of diabetes, especially because most patients are not getting the proper education about their disease
- Reduce knowledge gaps in patients
- Educational video with visuals increases the percentage of patients to retrieve health knowledge

HELIOS lab

Using visuals in health education videos supports improved knowledge retention in patients at a primary healthcare setting.



### Results

- Participants DKQ score:
   With visuals: 79.2%
  - W/o visuals: 72.2%
- Well received and understandable regardless of video type



(Video without visuals)







Jelfney Gansta (ha/histofra) Riological Sein Cinas of 2022



William Hamandar (hathim/ha) Psychological Science, Social Ecole Class of 2024

offan fwera) 2004 Poullanci es of 2022

#### Title: Effects of Health-Related Social Control on Medication Adherence in Latinx Patients with Hypertension

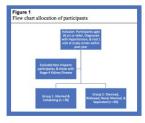
#### PRESENTER: Sidra Ali

With: Jessica Arizmendi De La Torre and Dr. John Billimek

BACKGROUND: Social control's effect on medication adherence has been widely understudied. Previous studies have shown that hypertension control is lower in Latinx patients compared to White patients.

#### METHODS

- 147 Latinx patients were recruited from Mi Propio Camino study. Participants were 18+, diagnosed with hypertension, and visited study center within the last year.
- Measured social control (both pressure and persuasion) with 10 questions relating to influence by loved ones on medication adherence with 6-point Likert scale. Medication adherence measured by Morisky Medication Adherence Scale (MMAS).
- Data calculated using multiple linear regressions via SPSS.



#### RESULTS

- 75% of participants with both high and low levels of pressure were non-adherent.
- 83% of individuals with high reports of persuasion were non-adherent, while 67% of those with reports of low persuasion were non-adherent.

83% of adults are non-

adherent to medication when experiencing high levels of persuasion from

### loved ones.

#### Found in a study

of 147 Latinx patients

diagnosed with

#### hypertension.



Scan for more info about the presentation Scan more info about the HELIOS Lab



#### **RESULTS (CONTINUED)**

- Those who experienced higher levels of persuasion were more likely to be nonadherent than those who experienced lower levels of persuasion.
- Persuasion data was significant with p=0.041, while pressure data was not significant with p=0.962 (using confidence interval of p≤0.05)

Scale	Minimum Score	Maximum Score	Average Score
Persuasion	0 (43)	25 (14)	8.32 (8.66)
Pressure	0 (107)	20(1)	1.57 (3.41)
Medication	0 (2)	8 (37)	5.84 (2.04)
Adherence			
number of partis presented as m and persuasion from 0 to 8, with	cipants with that score eans with standard de equate to increased p	ximum scores presente in parenthesis. Values viations in parentheses resence. Medication ac e and 8 being highly ad	for average score . Higher pressure therence ranges
number of partie presented as m and persuasion from 0 to 8, with Fable 3	cipants with that score eans with standard de equate to increased p 0 being no adherenc ients- All Participants (	in parenthesis. Values viations in parentheses resence. Medication ac e and 8 being highly ad	for average score . Higher pressure therence ranges herent.
number of partis presented as m and persuasion from 0 to 8, with Table 3 Tovariate Coeffic	cipants with that score eans with standard de equate to increased p 0 being no adherenc ients- All Participants (	in parenthesis. Values viations in parentheses reserce. Medication as a and 8 being highly ad a=147) Confidence Interval for	for average score . Higher pressure therence ranges herent.
number of partie presented as m and persuasion from 0 to 8, with Fable 3	cipants with that score eans with standard de equate to increased p 0 being no adherence ients- All Participants ( 95% 6	in parenthesis. Values viations in parentheses reserce. Medication as a and 8 being highly ad a=147) Confidence Interval for	for average score . Higher pressure therence ranges herent.

#### CONCLUSION

- Positive relationship between both forms of social control and medication adherence could be because (1) cross-sectional data caused individuals to be more aware of social control with the experience being recent, (2) there may be unaccounted for confounding variables, or (3) persuasion may actually contribute to greater medication nonadherence.
- Team will be conducting focus groups with participants that are aligned with our baseline cohort to hear their direct experience.
- Sidra Ali, Jessica Arizmendi De La Torre, Dr. John Billimek





#### **Changing Minds or Following** Interests? Predictors of behavior change in Latinx hypertension patients in the Mi Propio Camino Study

Daniela Garcia, Nydia Gomez, Angelique Nguyen, Allison Kim, John Billimek, PhD

#### INTRODUCTION

Managing a chronic health condition like hypertension requires adopting self management behaviors like taking medications and following a healthy lifestyle. Health education interventions focus on encouraging participants to adopt these behaviors with mixed success. The present study examines the degree to which the adoption of new self management behaviors observed in a health education intervention can be attributed to the interests that participants already held prior to the start of the intervention versus developing new interests during the intervention.

#### METHODS

We are analyzing data from the Mi Propio Camino hypertension education study, in which 194 Spanishspeaking Latinx patients completed a 4-session series of weekly group education classes. Prior to the classes, participants completed validated questionnaires assessing level of interest in and prior adoption of six different hypertension self management behaviors (medication taking, healthy eating, physical activity, nutritional supplements, stress management and sleep hygiene). Our team is currently analyzing (1) the percentage of patients that adopted each behavior, and (2) the correlation between baseline interest in a specific behavior and the likelihood of adopting that behavior.

#### Participant Demographics (n=194)



SCAN TO EARN MORE



medications, patients follow their prior interests. For stress management, more patients tried it without prior interest.

45%

Changes in taking medication following intervention classes

Safran Non-Adherance

Baseline 1 Month Follow-Up

measurements (red bar) with measurements taken one month after intervention classes were alven liwhite bar). The

recursiveness (yes only with reconvenients taken one matrix area interventian causes were given (while bai), the data is the percentage of patients who took medications as prescribed (N = 134). The number at the top of the basis the percent change from the basiline to the one-month follow-up.

Figure 2. Changes in taking medication following intervention classes. The bar graph compares baseline

Changes in behavior adherence following intervention classes

Strategies

represent the standard error of the mean

Baseline 01 Month Follow-Up

easurements (black bars) with measurements taken one month after intervention classes were given (white bars)

The data is an average number of days a behavior was followed over the course of seven days (N = 234). Each pair of

bars represents a different behavioral strategy tested. The numbers at the top of each pair of bars are the percent

change from the baseline to the one-month follow-up. The bar in red indicates the largest percent change. Error bar

Figure 1. Changes in behavior adherence following intervention classes. The bar graph compares baseline

Index of Sleep Veggier

#### RESULTS

37 (19%)

This study found that 79% of participants in Pre-Contemplation for Natural Remedies at baseline developed interest in Breathing Exercises as a management behavior after intervention. Medication Adherence also improved, with 33% of participants in Contemplation or Planning having an increase after 1 month. Somewhat different to medication management, stress management was a behavior that participants increased regardless of prior interests. These findings highlight how pre-existing and developing interests during intervention can develop into adoption of self-management behaviors and improve health education interventions.



Figure 3. Readiness to change medication management and increased medication adherence. This flowchart depicts the number of patients who have indicated their levels of readiness to change NPTC their medication management, namely precontemplation, contemplation, or planning (N = 194). Multiple strategies to manage medication were taught in the intervention classes. Patients in the precontemplation category have not yet acknowledged the need for change. Patients in the contemplation and planning categories were aware of the need to change their medication ontemplation and planning categories were aware of the need to change their medication methods. ement and may or may not have taken any concrete steps. The percentage of patients who ed medication adherence following the classes are displayed below for each category.

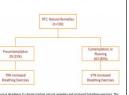


Figure 4. Readiness to change starting natural remedies and increased breathing exercises. This flowchart depicts the number of patients who have indicated their levels of readiness to change (ITC) starting natural remedies, namely precontemplation, cortemplation, or planning (N = 192). Multiple natural mendies were taught in the informerotic classes. Failements in the Multiple natural remedies ware tauget in the intervention classe. Patients in the percommunition cargo ynawn citry extraored by charge and the contemplation and planning categories were aware of the need to charge. Patients in the extended and an analysis of the set of the set of the percentage of patients who increased bracking eleviroses, the most wildly adopts strategy to manage stress following the classes, for each category are displayed below.







Public Health Science

Class of 2022





Angelique Nguyen (shefter there) Biological Sciences Class of 2022



Allison Kim bhe/her/hers) Rielonical Sciences Class of 2024

#### Sleep Quality as a Protective Factor for Latinx Hypertensive Patients Facing Financial Stress

William Hernandez, Andrea Serrano, Claire Ali-Khan, Aracely Blanco, John Billimek Ph.D.

#### INTRODUCTION

- Previous research has shown that stress and sleep contribute to hypertension, a risk factor for Cardiovascular disease (CVD). However, the interplay between sleep quality/sleep duration and financial stress has not been investigated extensively among Latinos.
- Financial stress has been found to be associated with a higher risk for heart attack and worse self-rated health.

#### METHODS

- We analyzed data from n=206 Latinx patients from the UCI FQHC (Federally Qualified Health Center) who are part of larger NIH funded hypertensive study.
- Patients answered questions about their sleep duration and sleep quality in the last 7 days.
- Patients received the 8 item InCharge Financial Distress/Financial Well Being (IFDFW) Scale, and their blood pressure (Systolic and Diastolic) was taken.

Scan to learn more about our poster:

Sleep quality was found to be a protective factor for Latinx hypertensive patients facing high financial stress.

UCI University of California, Irv



Ν	206
Age, mean, (SD), years	55.9 (9.5)
Female %	63.6%
Born outside U.S.	94.2%

#### RESULTS

• Financial stress was not associated with diastolic (r = .03, p = .7) or systolic blood pressure (r = .11, p = .115). • Financial stress was significantly associated with sleep duration (r = -.25, p < .001) and sleep quality (r = -.37, p < .001).

 A 2-way ANOVA revealed a significant interaction between financial stress and sleep quality on DBP (F = 4.54, p = .03), wherein patients with high financial stress and low sleep quality had worse DBP than those with high financial stress and high sleep quality DISCUSSION

Our findings show that sleep quality can help protect against higher levels of blood pressure among Latinos.
Future research is needed to understand why sleep quality and not sleep duration was a protective factor.





William Hernandez (herhinn/his) Psychological Science, Social Ecology Class of 2024







Claire All-Khan (she/her/hers) Biological Sciences Class of 2024



Aracely Blanco
(she/han/hers)
Public Health Sciences
Class of 2024



### *"Si, es responsabilidad de la mamá"*: Communication Narratives on Cervical Cancer Prevention Amongst Latina Mothers with Daughters

Esmeralda Garcia-Castellanos, Brianna Flores, Michelle Beltran Najera, John Billimek, PhD, Sora Park Tanjasiri, DrPH University of California – Irvine | Department of Family Medicine, Department of Epidemiology

"Well, many times the truth scares me

it's scary to go in for checkups, it's sca

to have a pap smear or mammogram

done or sometimes because the perso doesn't have insurance. Understand?

That's why we can't go to the doctor

because of that" - LC11

- IR13

See the full poste

#### INTRODUCTION/BACKGROUND

- Latinas are 40% more likely to be diagnosed with cervical cancer and 30% more likely to die from it compared to non-Latina whites
- Cervical cancer rates can be offset by increased screening and HPV vaccination

#### PURPOSE

 To examine the perspective of Spanish-speaking Latina mothers, the relationship and communication with their daughters about cervical cancer, and its prevention

#### DEMOGRAPHICS

Participant Demographics	
	Latina Mothers w/ Daughters 11+ years old
	n = 12
	N (%)
Age (years)	
45 - 54	7 (58.33
55 - 64	5 (41.67)
Education Level	
Primary (1st-6th grade)	5 (41.99
Secondary (7th-9th grade)	3 (24.99
Less than High School graduate	1 (8.33
High School Graduate	3 (25
Foreign Born	12 (104)
Health Insurance	9(75
Last Dector Visit	
Within Past Year	11 (91.67
Within Past 2 Years	1 (8.33
Occupation	
Housewife	9 (83.33
Other	3 (16.67

#### METHODS

- 12 over the phone semi-structured interviews with Latina mothers recruited mostly from a larger NIH-funded project, Mi Propio Camino
- Questions included knowledge about cervical cancer prevention, to understanding the relationship with their daughters
- Data analysis was conducted through qualitative software program Dedoose, using both deductive and inductive coding

It was a little bothersome the first time, but because they introduce something, an apparatus. But that was the first time, then when you go the next time, well then it is then you know a little more about how is the exam, and its like literally you go a little more mentally prepared. It doesn't feel to you as bad because you already know what you of or.\* - DG12

Despite Latina mothers' hardships, with more access to better health knowledge they are willing to learn and grow for the betterment of their families

"The truth is, I'm going to be honest, this is almost always my case. Nobody "Yes, it is the responsibility, of the really said "look at this and this". And mother if she has the correct we have grown up with a family who information, and if she understand that does explain to us as well. It isn't until information. I think so, because you you have kids that you realize you have have to be well informed. What is this, to go get yourself checked, to see that and what is this for? And like that you're good"- ZM09 provide that information to your daughter. A way that they understand it

"I have a very nice relationship with her and we share everything. She shares with me her things and I share mine with her. We do have a nice relationship between us. Then she talks to me about things other people talk to her, 'well, I have this, I have that other thing' I also share things with her'- BA02

#### RESULTS

Code	Definition	Example (# of participants)
Pag smear experience + reason for getting a pop smear	Mothers describe what feelings hery recall experiencing with Pap smears	<ul> <li>Felt discernish (d)         <ul> <li>Participants left that it was good to know everything is was the (4)</li> <li>Felt some type of enhomsament when they had a participant (b)</li> <li>Expressed that after their first Pag smear expressed, they would go mentally prepared. (2)</li> <li>Felt forces to have the pag smear by their doctor: (1)</li> </ul> </li> </ul>
Barriers to accessing care	Participants express what they believe are torriers that Latinos face when it comes to accessing medical care. It also includes reasons why women cannot go or decide not to see a doctor	<ul> <li>Expressed that here is an embartassment to go to the doctor for metical care (5)</li> <li>Espained one of the barriers was a lack of resources or no health insurance (5)</li> <li>Barriers to accessing care is having a busy work schedule (2)</li> </ul>
Health knowledge	Mother's knowledge of general health includes if they know what cancer in general is, what cervical cancer is, how can you prevent it	<ul> <li>Knew what cancer was, but could not specify what cervical cancer was (12)</li> <li>Expressed not having the knowledge necessary but believed someone else should oducate them (clinicians, or anyone else who has a lot of innoveledge) (3)</li> </ul>
Mothers' role in informing daughters about cervical cancer prevention	Mohers believe it is their responsibility to inform their daughters about cervical cancer and prevention methods. This reflects how the mothers engage in their daughters' health	Believed that it is the mother's responsibility to inform doughters about cervical cancer (11) - Expressed that a mother needs to know the information she a scaring (1) - Expressed that it is the responsibility of both the mother and dagatter (1)
Mother-daughter mistionship.	This includes information on	· Participants expressed positive, healthy

ationship The includes infermition on -Participants expressed particle, heathy indered the ratios factorships in accommodition with the encluders of the encluders of the with the displant. Note infermional with encluderships in accommodition with the encluders of the encluder

#### DISCUSSION

- Uncommon topics that arose included: mother's interest in their daughters sharing health knowledge with their peers, and wariness of discussion of sexual relationships
- Participants showed empowerment to educate themselves further on what they previously lacked knowledge on

#### LIMITATIONS & FUTURE DIRECTIONS

- All participants have access to primary care.
   Due to this, their views and experiences cannot represent the larger scale Latine population
   It is suggested to explore the communication among Latina siblings or peers, as an avenue to
- spread information on cervical cancer & prevention & its potential motivation to early detection & health screenings.







(sheiherdners) Biological Sciences Class of 2923



Brianna Flores (dos/they) Biological Science Class of 2021





## UROP Symposium 2023

https://thehelioslab.org/presentations





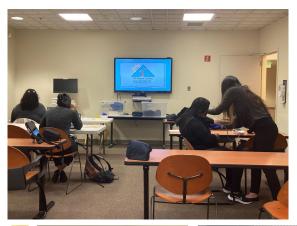
## What We Expect

- Attend Mandatory Lab Meetings\*
  - Fridays 3-5 PM
  - Create Community Within Our Lab
- Be Passionate About Serving in Medically Underserved Areas
- Units Breakdown (4 Minimum)
  - 1st Unit
    - Lab Meeting\*
    - Community & Professional Development Activities
  - + 3 to 4 Units
    - In-Clinic/Remote Research Activities



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# What You Gain







Opportunities To Learn About Research & Participate In The Research Process

 Meaningful Experience in Clinic & Community Settings

Support & Guidance In Your Pre-Health Journey





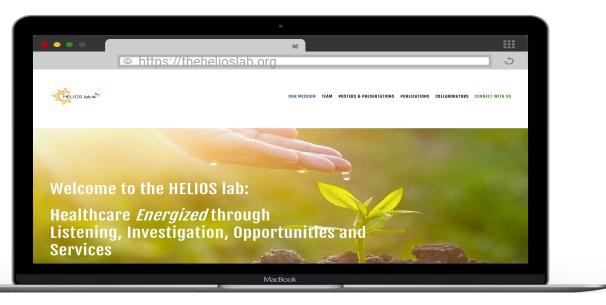
# Next Steps



- Submit an application at theHELIOSlab.org/opportunities
- Priority deadline is Tues Sept 5th at 11:59pm
- We will invite applicants to interview for specific projects and roles on Sept 10, 11 and 12.
- Most positions will begin Fall Week 0
- Please take a look at health clearance requirements these will take time to complete before Fall Week 0



# **Questions?**





https://thehelioslab.org



E-mail thehelioslab@hs.uci.edu if you have specific questions