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Connecting you with experts. Exploring the latest childhood obesity news and research.

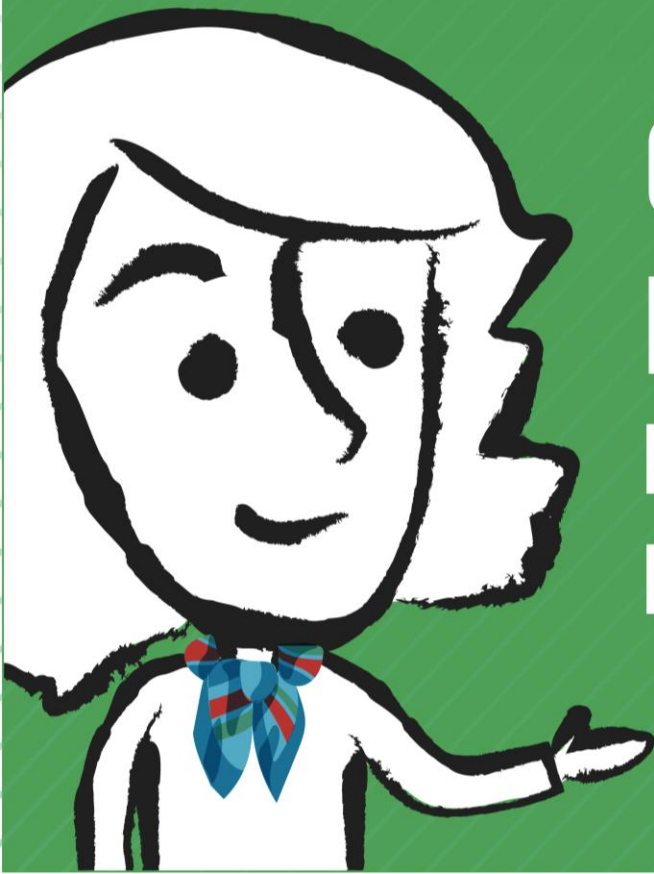
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WEBINAR SERIES

CONNECT & EXPLORE

Childhood Obesity
Research Across Borders:
Part 1: Social Determinants of Health
Part 2: The Physical Environment



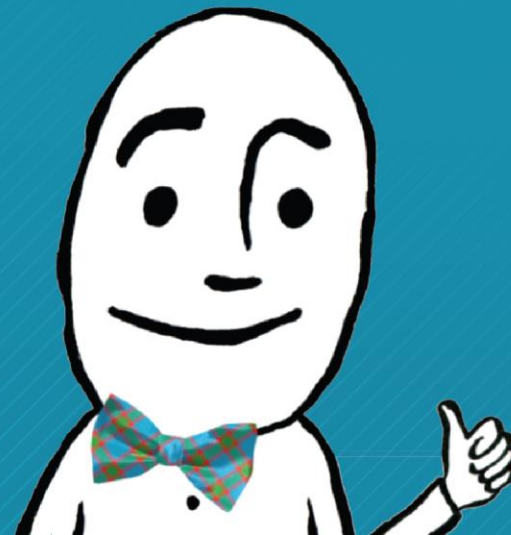
Spotlight: Childhood Obesity Research Across Borders: The Social Determinants of Health

- Childhood Obesity & The Social Determinants of Health
- Migration as a Determinant of Childhood Obesity in the United States and Latin America
- The Social Environment and Childhood Obesity

Q&A

NCCOR Announcements

TODAY'S PROGRAM



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Today's Conversation



Karen Hilyard,
PhD,
Moderator



Mireya Vilar-
Compte, PhD,
Universidad
Iberoamericana



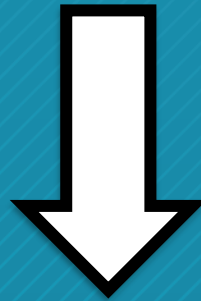
Rafael Perez-
Escamilla, PhD,
Yale University



Guadalupe X.
Ayala, PhD,
San Diego State
University

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Q&A icon located below and
representative will respond shortly.



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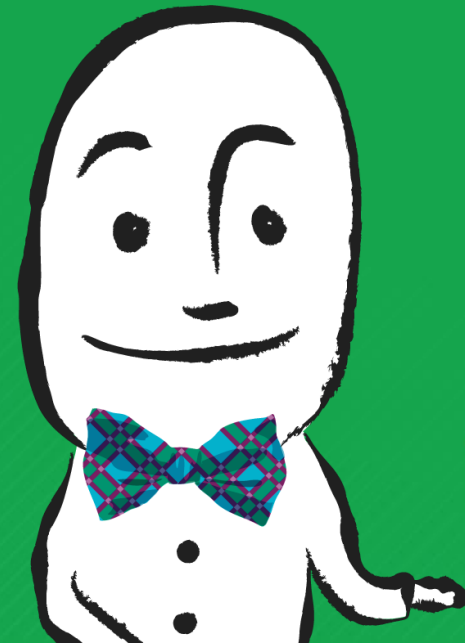
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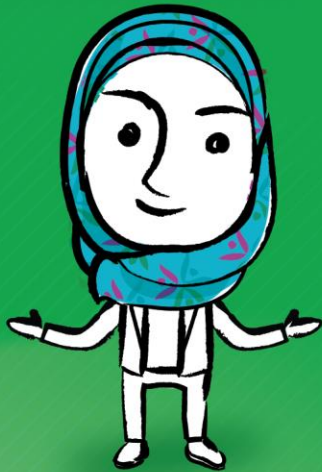
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INTERACTIVE POLL



SPOTLIGHT



Childhood Obesity & The Social Determinants of Health

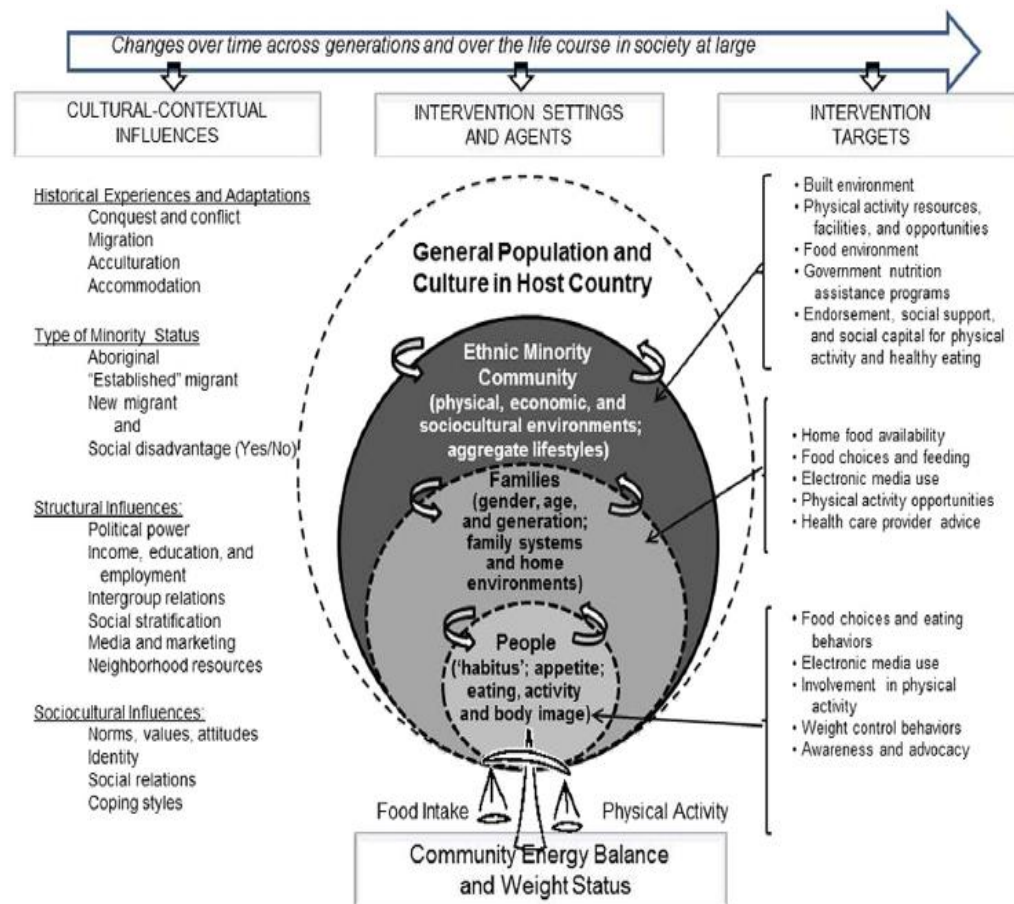
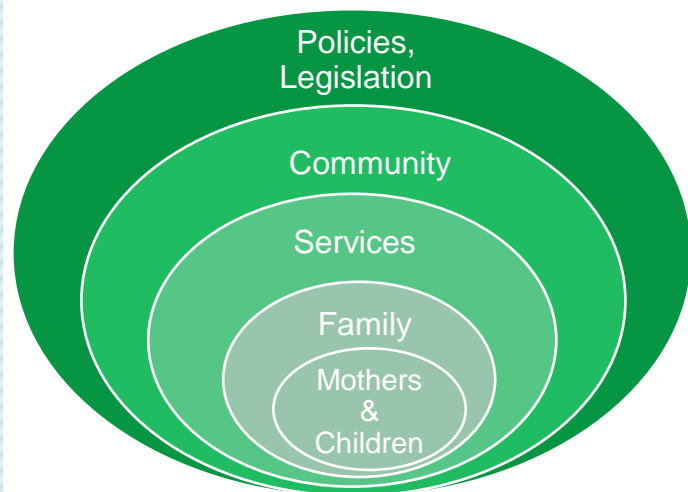
Professor Rafael Pérez-Escamilla, PhD
Director, Maternal Child Health Promotion Program, Global
Health Concentration and Office of Public Health Practice
Yale School of Public Health

@rperezescamilla

Childhood Obesity Prevention Across Borders: The Promise of US-Latin American Research Collaboration

- NIH Fogarty Center for Global Health Studies
- Scientific Co-chairs
 - Rafael Perez-Escamilla, Yale University
 - Abby King, Stanford University
- Activities
 - 2 workshops in Washington, D.C. (2017 & 2019)
 - 2 special supplements in Obesity Reviews (2017 & 2021)
 - RFP for cross-borders collaborations (2020)

Conceptual Frameworks (Obesity Rev. 2021)



Kumanyika et al. Prev Med (2012)

Childhood Obesity Prevention Across Borders: The Promise of US-Latin American Research Collaboration - Obesity Reviews (2021)

DOI: 10.1111/obr.13238

SUPPLEMENT ARTICLE

OBESITY
Reviews

WILEY

Childhood obesity prevention across borders: The promise of U.S.-Latin American research collaboration

Abby C. King¹ | Rafael Perez-Escamilla² | Susan Vorkoper³ | Nalini Anand³ | Juan Rivera⁴

DOI: 10.1111/obr.13246

SUPPLEMENT ARTICLE

OBESITY
Reviews

WILEY

The social environment and childhood obesity: Implications for research and practice in the United States and countries in Latin America

Guadalupe X. Ayala¹ | Rafael Monge-Rojas² | Abby C. King³ | Ruth Hunter⁴ | Jerica M. Berge⁵

DOI: 10.1111/obr.13240

SUPPLEMENT ARTICLE

OBESITY
Reviews

WILEY

Migration as a determinant of childhood obesity in the United States and Latin America

Mireya Vilar-Compte¹ | Arturo V. Bustamante² | Nancy López-Olmedo³ | Pablo Gaitán-Rossi¹ | Jaqueline Torres⁴ | Karen E. Peterson⁵ | Graciela Teruel¹ | Rafael Pérez-Escamilla⁶

DOI: 10.1111/obr.13236

SUPPLEMENT ARTICLE

OBESITY
Reviews

WILEY

Built environment in programs to promote physical activity among Latino children and youth living in the United States and in Latin America

Olga L. Sarmiento¹ | María Alejandra Rubio¹ | Abby C. King^{2,3} | Natalicio Serrano⁴ | Adriano Akira F. Hino⁵ | Ruth F. Hunter⁶ | Nicolas Aguilar-Farias⁷ | Diana C. Parra⁸ | Deborah Salvo^{4,9} | Alejandra Jáuregui⁹ | Rebecca E. Lee¹⁰ | Bill Kohl¹¹

DOI: 10.1111/obr.13247

SUPPLEMENT ARTICLE

OBESITY
Reviews

WILEY

Implementation of childhood obesity prevention and control policies in the United States and Latin America: Lessons for cross-border research and practice

Rafael Pérez-Escamilla¹ | Mireya Vilar-Compte² | Elizabeth Rhodes^{1,3} | Olga L. Sarmiento⁴ | Camila Corvalán⁵ | Rachel Sturke⁶ | Susan Vorkoper⁶

Childhood Obesity Prevention Across Borders: The Promise of US-Latin American Research Collaboration - Obesity Reviews (2021)

DOI: 10.1111/obr.13242

SUPPLEMENT ARTICLE

OBESITY
Reviews WILEY

Measurement challenges for childhood obesity research within and between Latin America and the United States

David Berrigan¹ | S. Sonia Arteaga² | Uriyoán Colón-Ramos³ | Lisa G. Rosas⁴ | Rafael Monge-Rojas⁵ | Teresia M. O'Connor⁶ | Rafael Pérez-Escamilla⁷ | Elizabeth F. S. Roberts⁸ | Brisa Sanchez⁹ | Martha Maria Téllez-Rojo¹⁰ | Susan Vorkoper¹¹ | the Cross Borders Working Group

DOI: 10.1111/obr.13241

SUPPLEMENT ARTICLE

OBESITY
Reviews WILEY

An action-oriented framework for systems-based solutions aimed at childhood obesity prevention in US Latinx and Latin American populations

Leandro M. T. Garcia¹ | Ruth F. Hunter¹ | Kayla de la Haye² | Christina D. Economos³ | Abby C. King^{4,5}

DOI: 10.1111/obr.13244

SUPPLEMENT ARTICLE

OBESITY
Reviews WILEY

Capacity for childhood obesity research in Latin American and US Latino populations: State of the field, challenges, opportunities, and future directions

Deborah Salvo¹ | Diana C. Parra¹ | Alejandra Jáuregui² | Eugen Reséndiz¹ | Armando García-Olvera² | Daniel Velazquez² | Nicolas Aguilar-Farias³ | Uriyoán Colón-Ramos⁴ | Adriano A. Hino⁵ | Harold W. (Bill) Kohl III⁶ | Michael Pratt⁷ | Andrea Ramirez Varela⁸ | Manuel Ramirez-Zea⁹ | Juan A. Rivera¹⁰

DOI: 10.1111/obr.13243

SUPPLEMENT ARTICLE

OBESITY
Reviews WILEY

Childhood obesity prevention across borders: A National Institutes of Health commentary

Susan Vorkoper¹ | S. Sonia Arteaga² | David Berrigan³ | Kevin Bialy¹ | Andrew A. Bremer⁴ | Paul Cotton⁵ | Susan Czajkowski³ | Elizabeth Neilson⁶ | Stavroula K. Osganian⁷ | Charlotte A. Pratt⁵ | Le Shawndra N. Price⁵ | Derrick C. Tabor⁸ | Jenelle R. Walker⁵ | Makeda J. Williams⁷ | Nalini Anand¹

Key Lesson Learned


- Social determinants of health need to be taken into account to effectively address the cross-borders childhood obesity pandemic

DOI: 10.1111/obr.13246

SUPPLEMENT ARTICLE

OBESITY
Reviews **WILEY**

The social environment and childhood obesity: Implications for research and practice in the United States and countries in Latin America



Guadalupe X. Ayala¹ | Rafael Monge-Rojas² | Abby C. King³ | Ruth Hunter⁴ |
Jerica M. Berge⁵ 

DOI: 10.1111/obr.13240

SUPPLEMENT ARTICLE

OBESITY
Reviews **WILEY**

Migration as a determinant of childhood obesity in the United States and Latin America

Mireya Vilar-Compte¹  | Arturo V. Bustamante² | Nancy López-Olmedo³ |
Pablo Gaitán-Rossi¹ | Jaqueline Torres⁴ | Karen E. Peterson⁵ | Graciela Teruel¹ |
Rafael Pérez-Escamilla⁶ 

Key Lesson Learned

- Few anti-obesity policies have been designed and implemented taking the social determinants of health and equity considerations into account






DOI: 10.1111/obr.13247

SUPPLEMENT ARTICLE

OBESITY
Reviews

WILEY

Implementation of childhood obesity prevention and control policies in the United States and Latin America: Lessons for cross-border research and practice

Rafael Pérez-Escamilla¹  | Mireya Vilar-Compte²  | Elizabeth Rhodes^{1,3}  |
Olga L. Sarmiento⁴ | Camila Corvalan⁵  | Rachel Sturke⁶ | Susan Vorkoper⁶ 

- Front-of-food-package warning labels as an example
 - Profound food systems changes needed for low-income families to have access to affordable healthy and nutritious foods in lieu of unhealthy ultra-processed foods and beverages targeted by the warning labels

Moving Forward

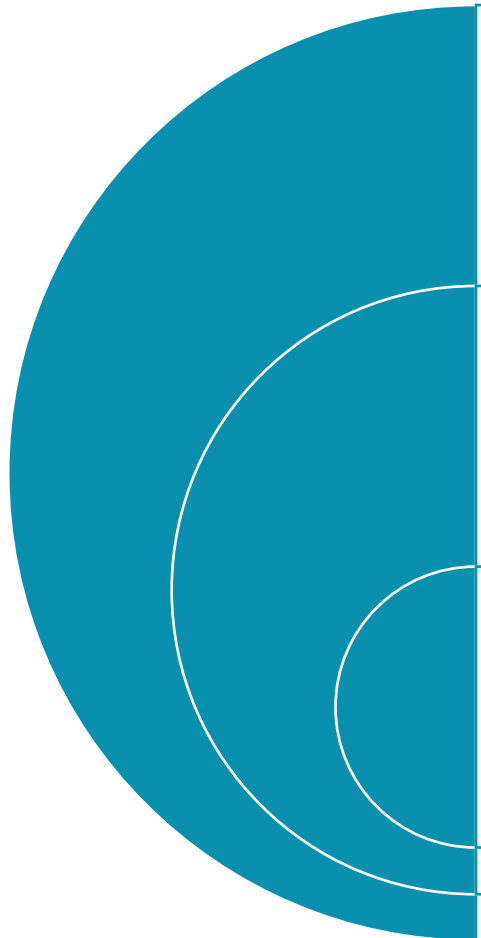
- Important to understand why and how the social determinants of health can be taken into account to improve the effectiveness of anti-obesity policies across borders
- Today's webinar examples
 - Migrations (Vilar-Compte et al., 2021)
 - Social environments (Ayala et al., 2021)

Migration as a determinant of childhood obesity in the United States and Latin America

Mireya Vilar-Compte

Research Center for Equitable Development (EQUIDE)
Universidad Iberoamericana
Mexico

Migration: Definition, Trends and Drivers



Migration	<ul style="list-style-type: none">• Movement of persons away from their place of residence• Across an international border or within a country
Migratory flows across the Americas	<ul style="list-style-type: none">• Dominated by South to North (from LAC to the US)• About half of the US immigrant population, from LAC
Drivers	<ul style="list-style-type: none">• Economic factors (wages, labor shortages)• Violence, poverty, and climate change

Why Migration Matters for Childhood Obesity

Migration

- Determinant and consequence of social determinants of health

Mechanisms

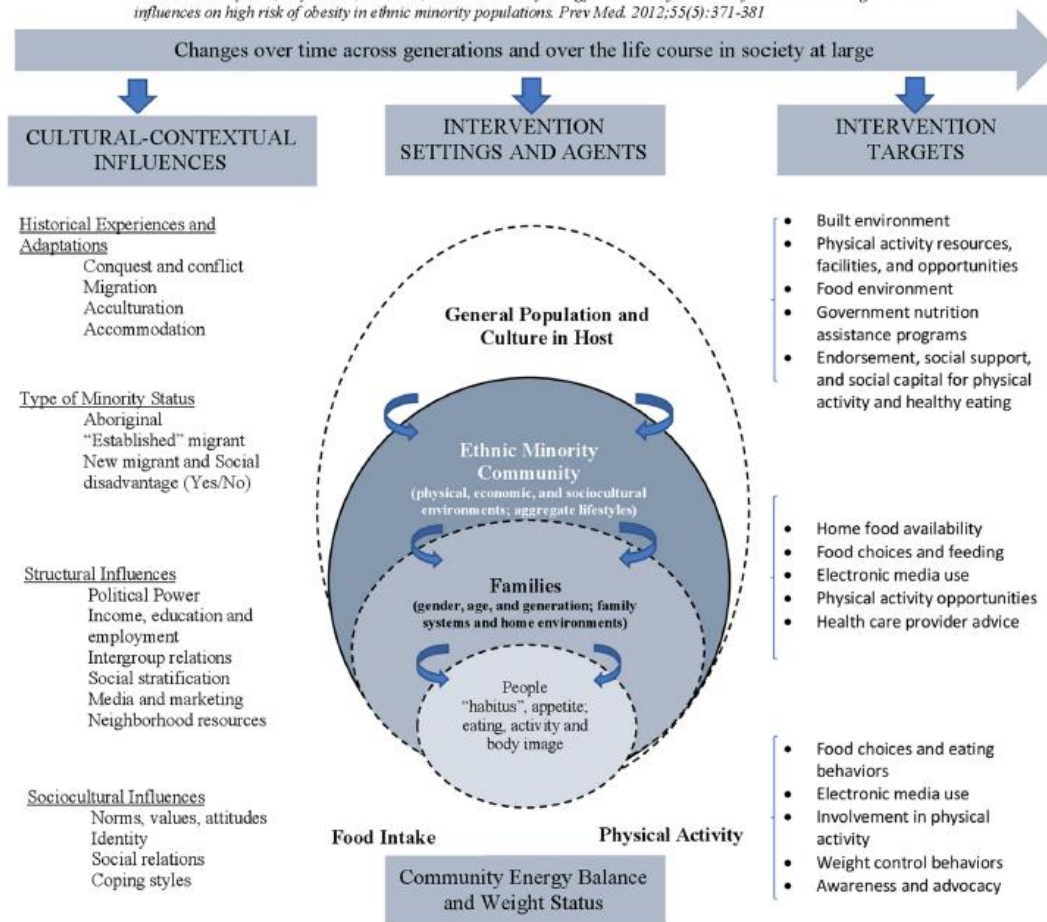
- Culture (acculturation)
- Stress
- Migrant networks

Aim: understand mechanisms (migratory and post-migratory) determining childhood obesity

Importance: effective prevention strategies for childhood obesity among migrant families need to account for such complex mechanisms

Studying Childhood Obesity Through the CEB Framework

Source: Kumanyika S, Taylor WC, Grier SA, et al. Community energy balance: a framework for contextualizing cultural influences on high risk of obesity in ethnic minority populations. Prev Med. 2012;55(5):371-381



Studying Childhood Obesity Through the CEB Framework

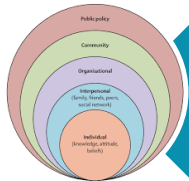
- 3 key aspects about the CEB framework → migration and childhood obesity



Migrant environment and lifestyle in the host community, but accounting for self-identity & traditions



Adaptations to the host community (+,-, +/-) considering minority status and structural influences (stigma, prejudice)



Ecological interventions

Two Applications of the CEB Framework

- Migrant networks
 - Kinship networks as channels of cultural and material interchange
 - Association with childhood obesity in origin community (i.e., Mexico)
- Binational interventions
 - *Ventanillas de Salud* - VDS (Health Windows)

Migrant Networks

H_0 : Children in Mexico with migrant networks in the US will be differently exposed to US-centric social norms



```
graph TD; A["H0: Children in Mexico with migrant networks in the US will be differently exposed to US-centric social norms"] --> B["↑ risk of childhood overweight and obesity over time"]; B --> C["Extended networks more likely to affect childhood obesity (i.e., horizontal, resemble more)"]
```

↑ risk of childhood overweight and obesity over time

Extended networks more likely to affect childhood obesity (i.e., horizontal, resemble more)

Migrant Networks

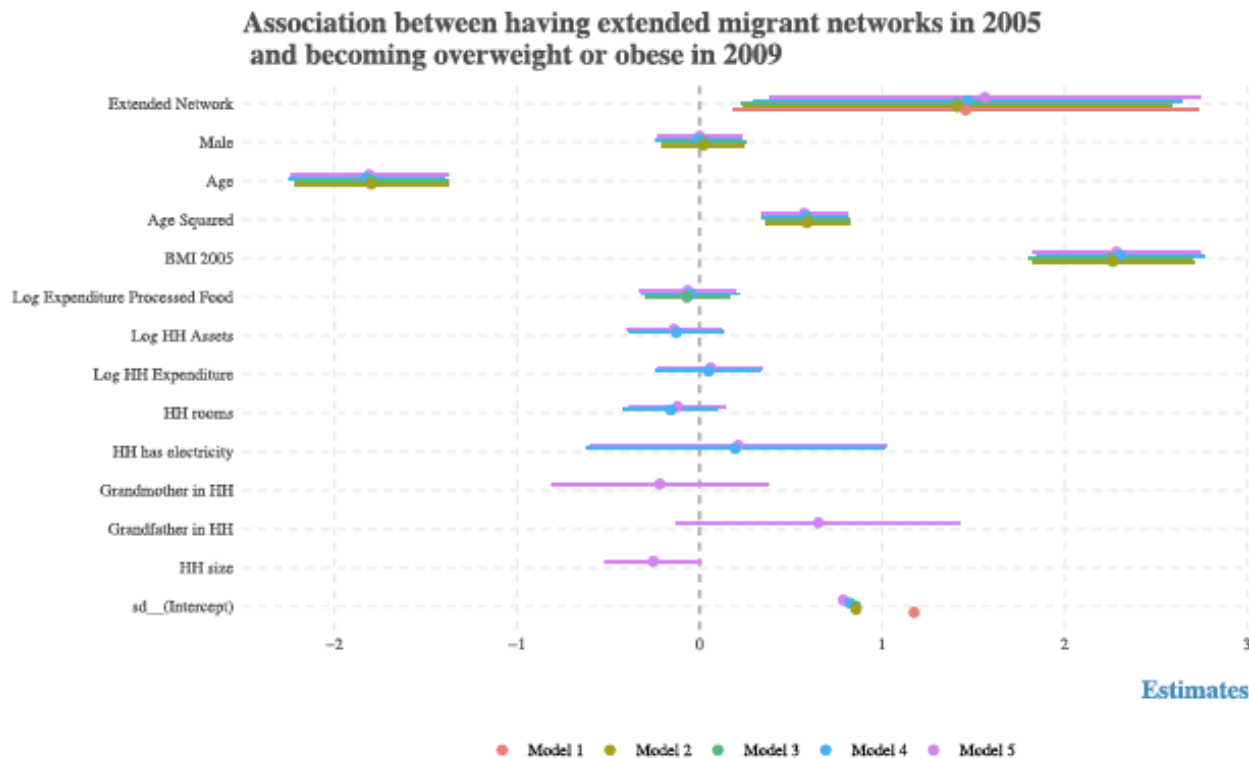
- Longitudinal and nationally representative data (MxFLS)
- Two-random intercept logistic models
- Step-wise modelling approach (unadjusted + individual level variables + household level controls)



△ in BMI status category among children in the community of origin was associated with having migrant networks

Migrant Networks

- Children embedded in migrant networks, ↑ risk of developing overweight and obesity relative to children with no networks in the US (larger and more significant for extended networks)



Bicultural Interventions: *Ventanillas de Salud (VDS)*



VDS a bicultural health intervention

- Binational
- Culturally sensitive
- Available nationwide
- Address fear of accessing social services
- Address structural inequities

VDS operation

- Mexican government \$ and partnership with public and private organizations
- 49 VDS (Mexican Consulates), 25 states
- 1.5 million visits yearly (70% undocumented migrants)

Bicultural Interventions: *Ventanillas de Salud (VDS)*

Scope review

3 types of services

(i) healthy lifestyles, (ii) immunization & early detection, (iii) referrals

VDS acknowledge key CEB framework's factors

(i) self-identity and traditions, (ii) structural inequities (fear of deportation, stigma, lack of insurance)

Mainly individually-based, but partnering enables reaching other ecological layers

Potential to design interventions addressing childhood obesity (cultural tailoring, reaching distrustful populations)

Key Messages

- Migration is a social determinant of health that can impact childhood obesity
- Due to the dynamic nature of migration, it can affect children's lifestyles in the host and origin community
- Different interventions are needed to effectively address childhood obesity among migrant children, including:
 - binational approaches
 - life course perspectives
 - structural inequities in origin and host communities

Thank you!

The social environment and childhood obesity: Implications for research and practice in the United States and countries in Latin America

Guadalupe X. Ayala, MA, PhD, MPH

Professor of Public Health, San Diego State University

Director, Institute for Behavioral and Community Health

Co-Director, SDSU HealthLINK Center for Transdisciplinary Health

Disparities Research

Director, SDSU HealthLINK Endowment

Transdisciplinary Collaboration

Jerica M. Berge – Developmental Psychology – Family Systems

Department of Family Medicine and Community Health, Medical School, University of Minnesota, Minneapolis, Minnesota, USA

Rafael Monge-Rojas – Social Psychology – Interpersonal Processes

Health and Nutrition Unit, Costa Rican Institute for Research and Education on Nutrition and Health (INCIENSA), Cartago, Costa Rica

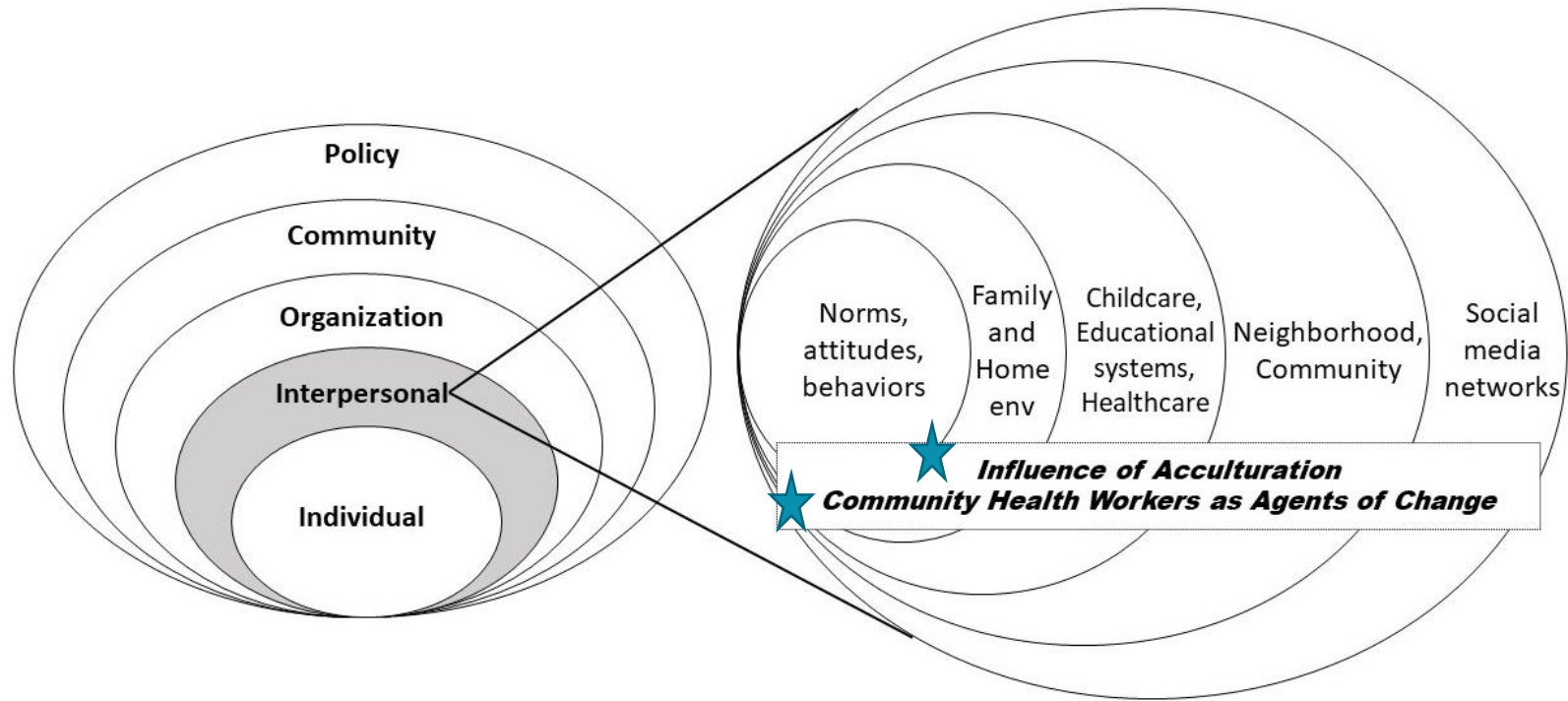
Abby C. King – Behavioral Scientist – Community and Population Level Interventions

Departments of Epidemiology & Population Health and Medicine (Stanford Prevention Research Center), Stanford University School of Medicine, Stanford, California, USA

Ruth Hunter – Social Networks

Centre for Public Health, Queen's University Belfast, North Ireland, Belfast, UK

Conceptualizing the Social Environment



Socio-Ecological Framework

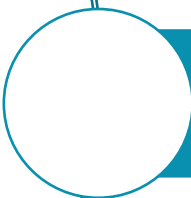
Social processes at all
levels of the framework

Social Influences: Individuals

Individually-held norms, attitudes and behaviors of children and their parents relevant to interpersonal relationships



Gender norms: Socially constructed and accepted roles and stereotypes ascribed to gender (e.g., machismo, marianismo)



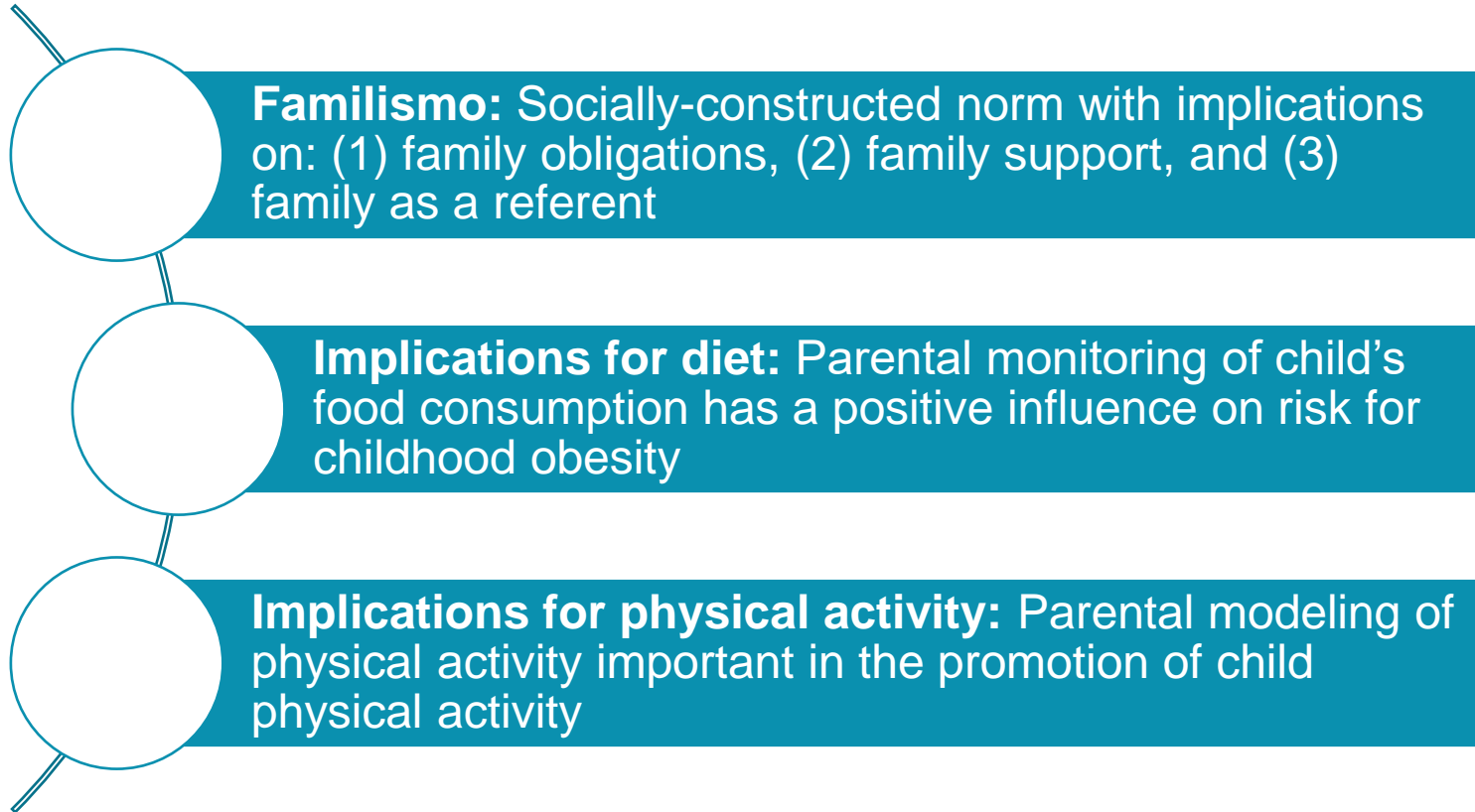
Implications for physical activity: Some activities incompatible with female gender stereotypes



Implications for diet: Consumption of some foods (e.g., meat) more masculine

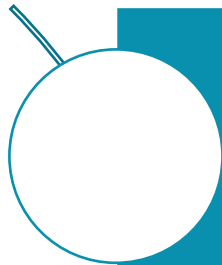
Social Influences: Families

Family norms, attitudes and behaviors, parenting strategies, and sibling behaviors, including those that affect the broader home environment

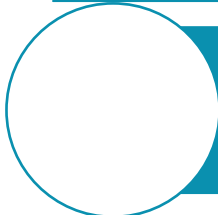


Social Influences: Communities

Social norms and attitudes are communicated, and behaviors are enacted within communities, thus serving as role models to others.



Cultural syndromes: social constructs that help to organize and interpret the world by focusing attention on subjective elements of the environment, such as values, norms, beliefs, and assumptions (e.g., individualism and collectivism)

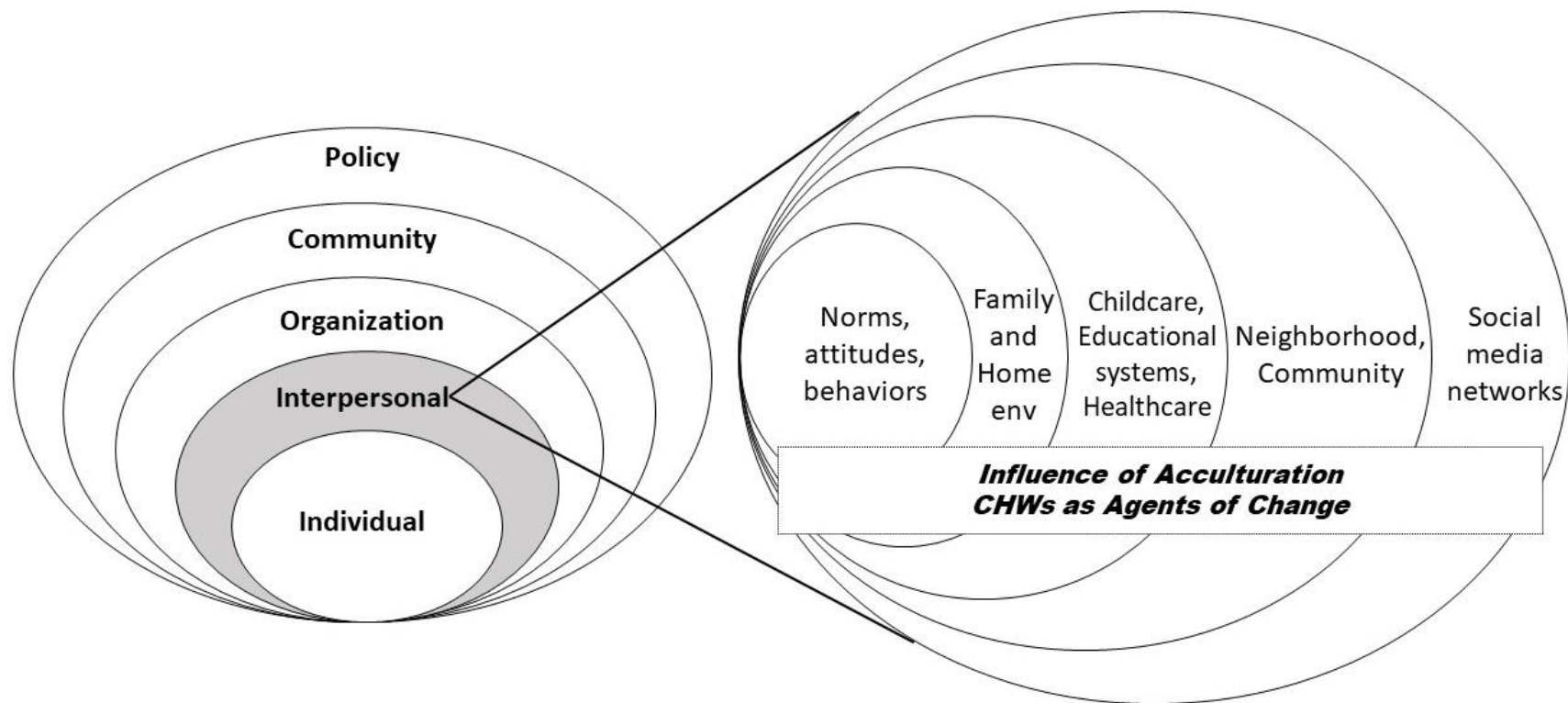


Individualist countries show a stronger tendency to harbor anti-fat prejudice when they hold individuals accountable for their weight



Collectivist countries are less likely to link negative cultural values (being obese is bad) to the person (being an obese person is bad)

Conceptualizing the Social Environment

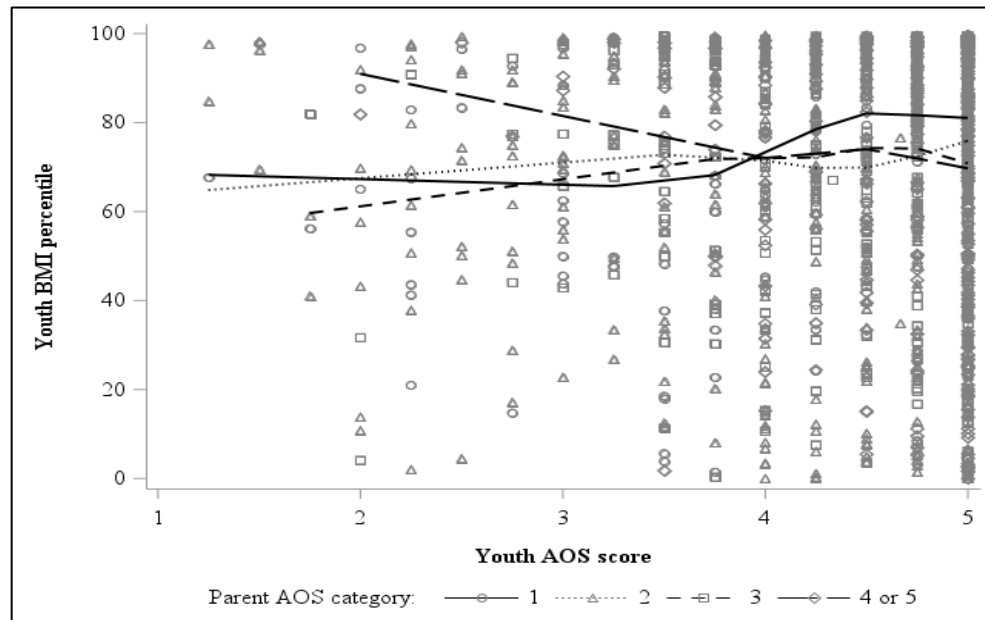


Socio-Ecological Framework

Social processes at all
levels of the framework

Influence of Acculturation and Childhood Obesity

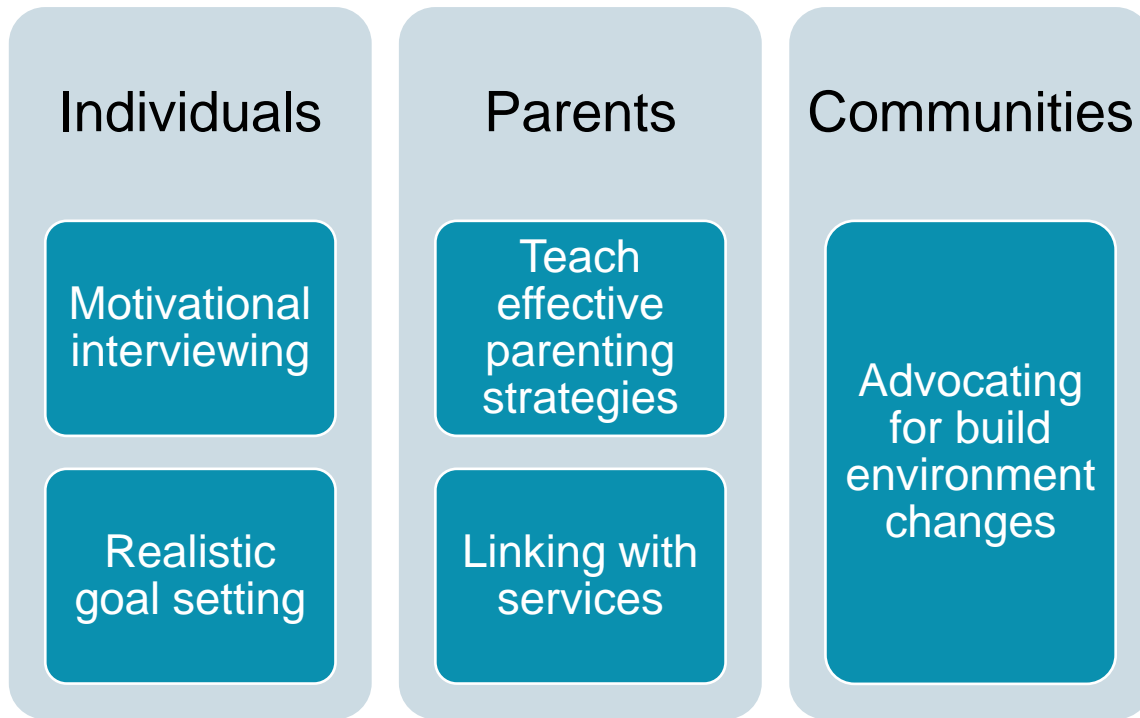
- **Definition:** Acculturation is a complex process in which individuals retain parts of their original culture while also adopting beliefs, values, and behaviors from the new culture they are continuously exposed to.
- Language acculturation gap and youth obesity



LeCroy et al., (2021)...NIH-funded Hispanic Community Health Study/Study of Latino Youth (HCHS/SOL Youth)

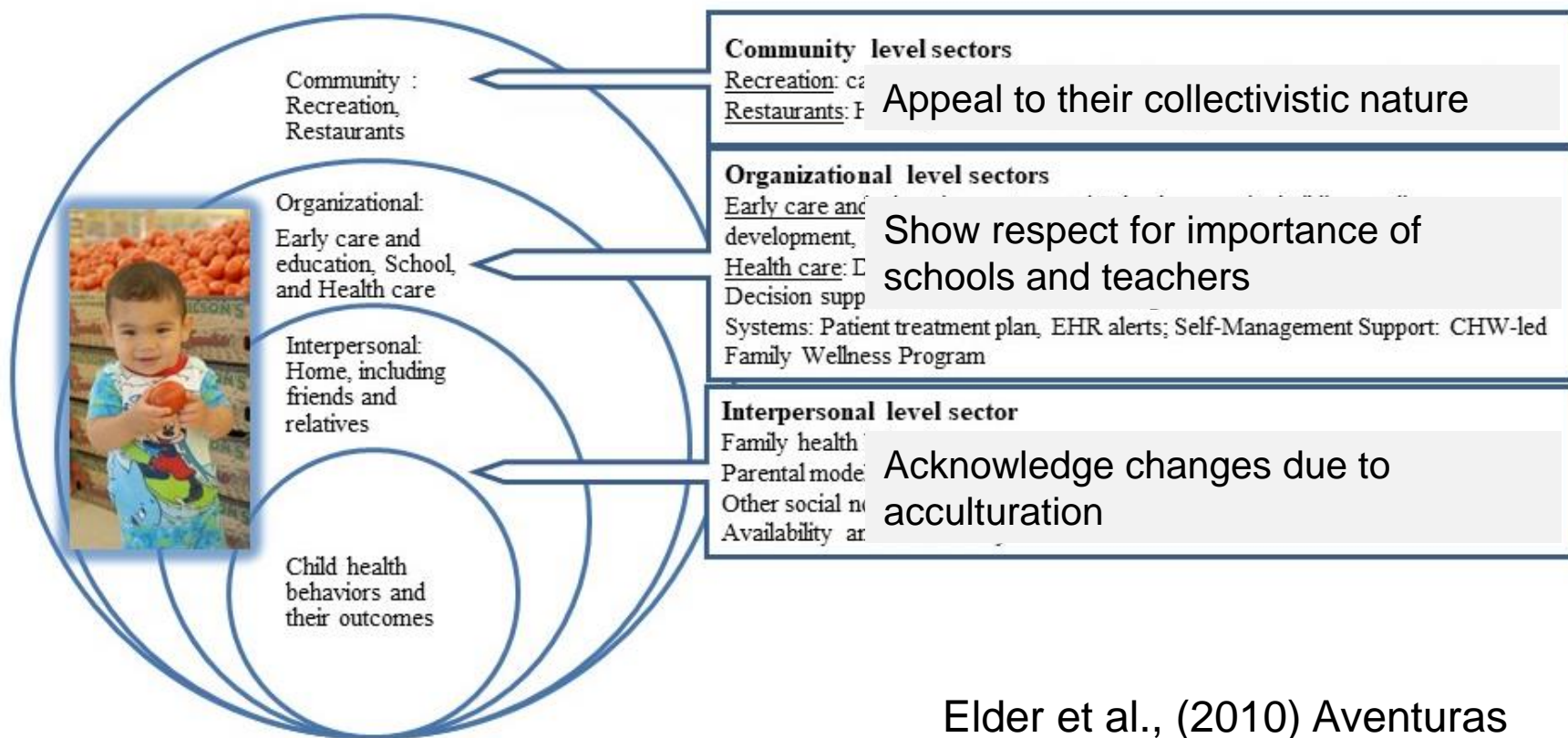
Community Health Workers as Change Agents

- Many definitions! Many names!
- Para-professional, often identified by the community as leaders, who can serve as a positive source of influence within families and communities
- Addressing childhood obesity through.....



NHLBI-funded *Aventuras Para Niños*

CDC-funded California Childhood Obesity Research Demonstration Study (CA-CORD) *Our Choice / Nuestra Opción*



Elder et al., (2010) *Aventuras*
Ayala et al., (2015) CA-CORD

Future Directions

Use innovative methods to study social processes

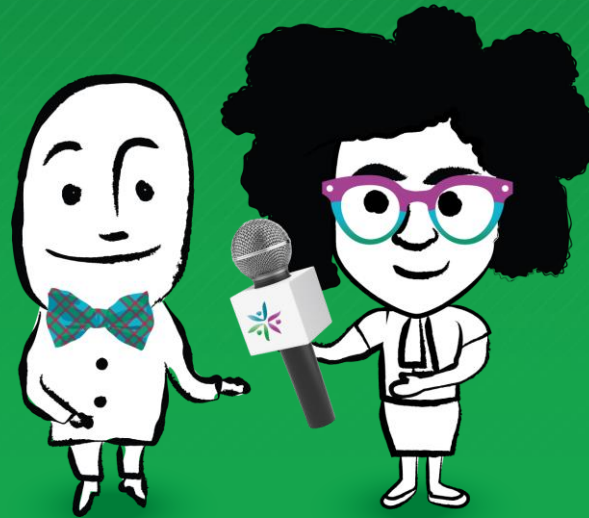
- Ecological Momentary Assessment (EMA)
- Resident driven data collection, including Photovoice
- Image-based: Video recording, Eye tracking

Key Messages

- Consider social processes at all levels of the socio-ecological framework
- Consider the influence of changes in culture with in- and out-migration (acculturation), and how these changes influence our behaviors with implications on health
- Consider the positive influence of community health workers and other peer supporters across levels of the socio-ecological framework

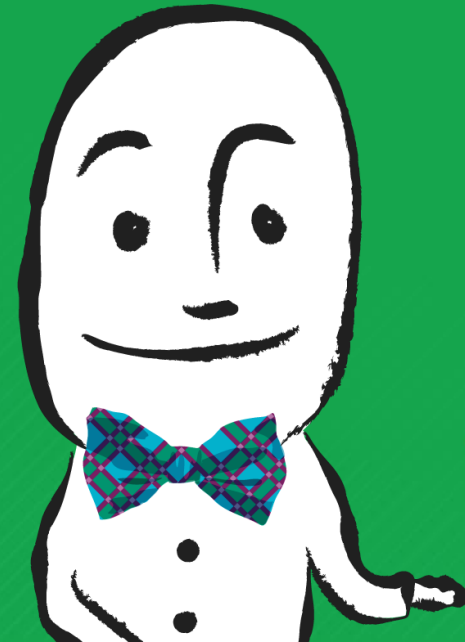
Thank you!

¡Gracias!

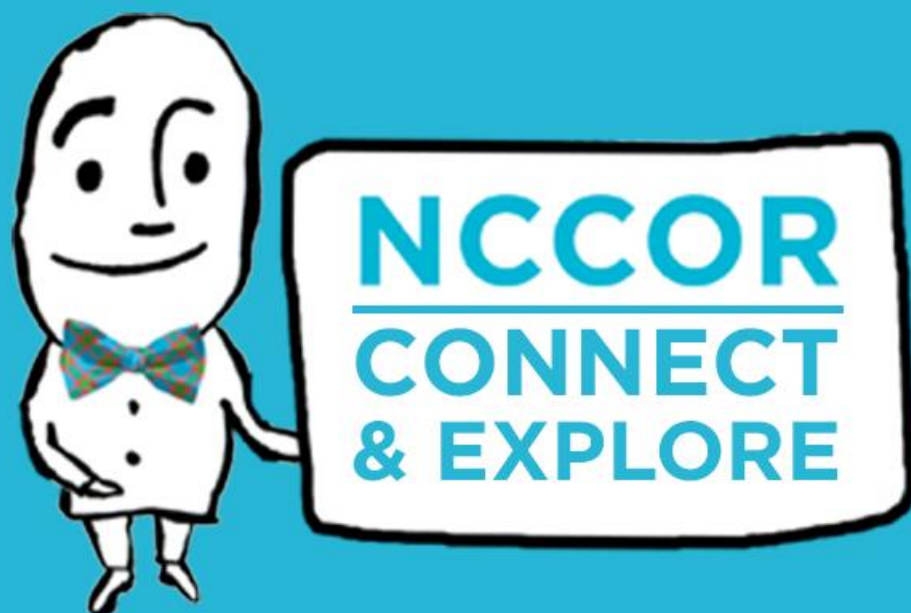


Q&A

ANNOUNCEMENTS



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Childhood Obesity Research Across Borders:

**Part 1: Social Determinants
of Health**

Thursday, June 17, 12-1pm ET

Childhood Obesity Research Across Borders:

Part 2: The Physical Environment

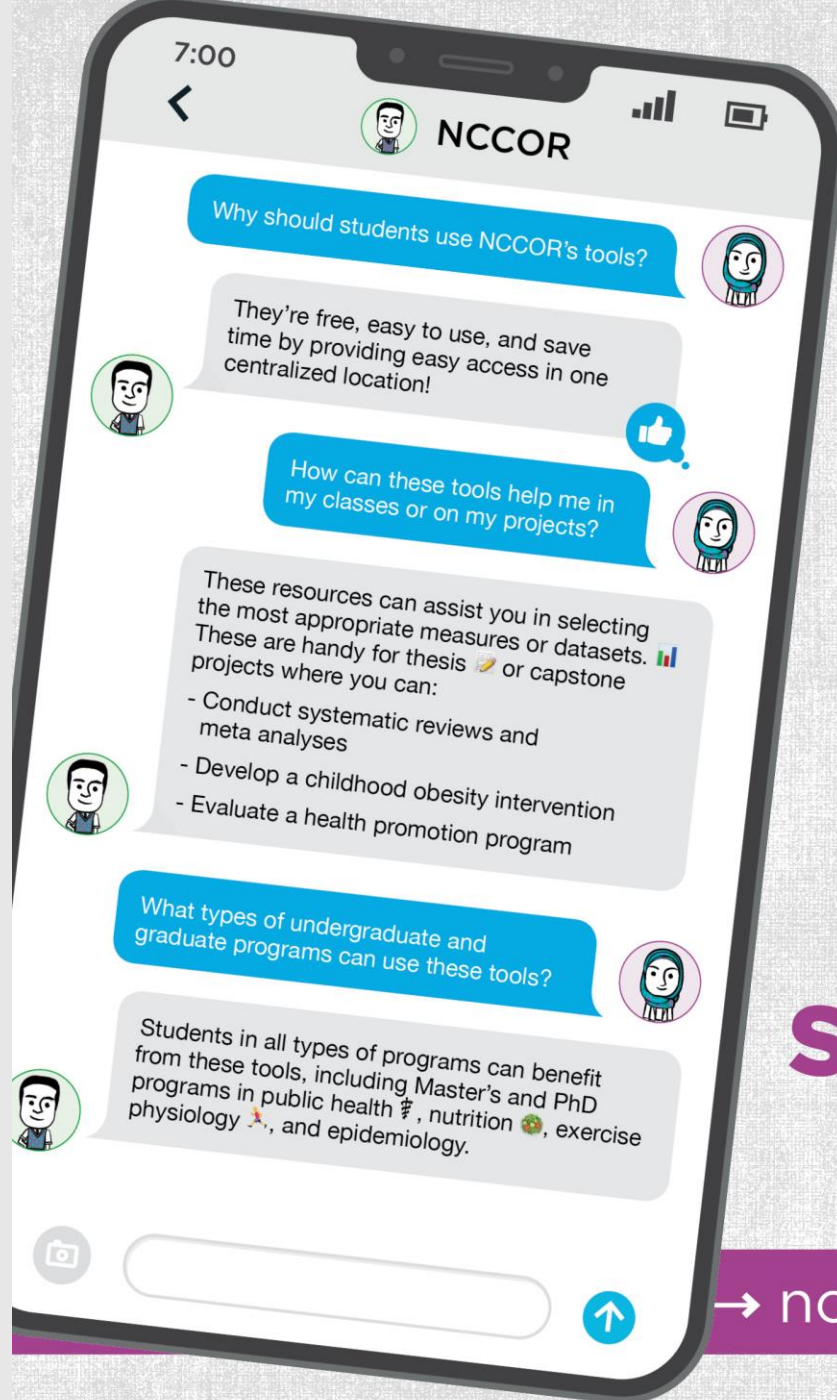
Tuesday, July 20, 12-1pm ET



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THE NCCOR STUDENT HUB

Tools and resources for students studying diet and physical activity




Discover free tools and resources supported by CDC, NIH, USDA, and RWJF to help you with your coursework and research.

ADDITIONAL RESOURCES


[Student Resources Guide](#)[Professor Factsheet](#)[Q&A for Public Health Students](#)

CHECK OUT THE NCCOR TOOLS




MEASURES REGISTRY RESOURCE SUITE

A suite of three tools: the Measures Registry, User Guides, and Learning Modules, that help users understand key measurement concepts and find appropriate measures for research and evaluation projects.



CATALOGUE OF SURVEILLANCE SYSTEMS

An easy to navigate, one-stop access to over 100 publicly available datasets relevant to childhood obesity research.



YOUTH COMPENDIUM OF PHYSICAL ACTIVITIES

A list of 796 common activities in which you participate and the estimated energy cost associate with each activity.

WATCH THE WEBINARS



NCCOR has a **Connect & Explore webinar series** that connects you with leading experts in the field on a variety of public health topics.

[See all webinars](#)

SIGN UP FOR THE STUDENT HUB

Our quarterly student e-newsletter connects you to free tools and resources that can support your schoolwork and research. Each newsletter will feature a case study of a student using one of the tools and will also share other childhood obesity events and resources.

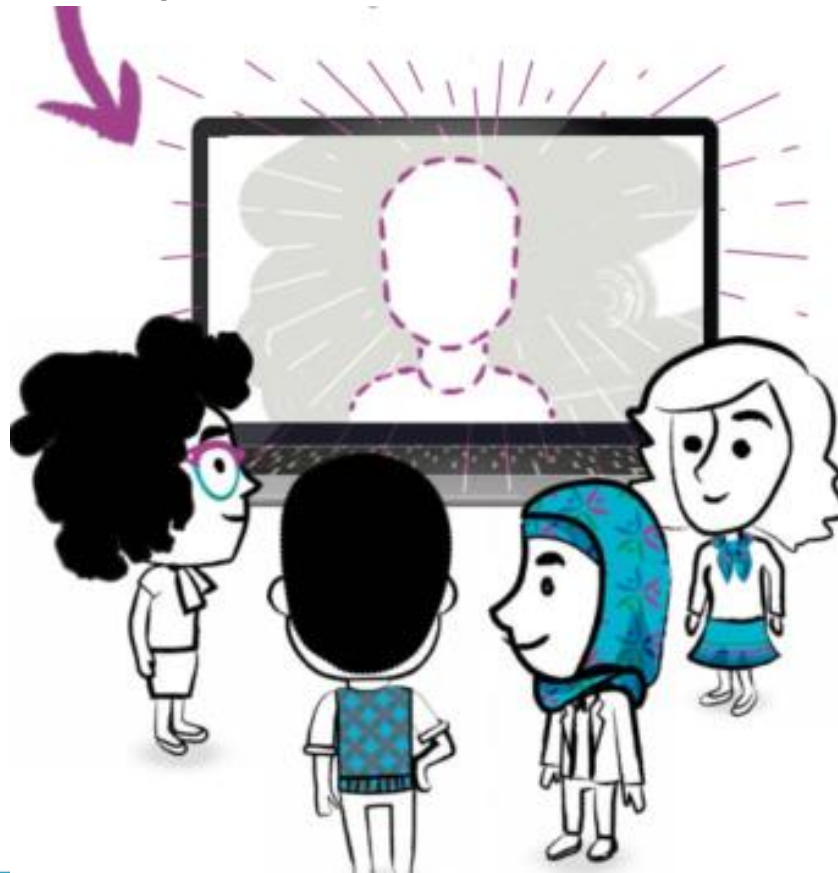
Be sure to select **STUDENT** when signing up!

[Sign up for the e-newsletter](#)



Have you used any of NCCOR's tools?

- Let us know at nccor@fhi360.org and we may feature you in our next webinar!



FURTHER QUESTIONS?

Other questions about NCCOR
or upcoming activities?

Email the NCCOR Coordinating Center
nccor@fhi360.org

WHAT'S HAPPENING IN **NCCOR NEWS**

NCCOR publishes chapter: Behavioral Design as an Emerging Theory for Dietary Behavior Change

NCCOR is highlighting multidisciplinary partnerships to celebrate National Childhood Obesity Awareness Month 2018!

Utility of the Youth Compendium of Physical Activities

NCCOR to present at the Society for Prevention Research and the American College of Sports Medicine 2018 Annual Meetings

NCCOR updates the Catalogue of Surveillance Systems and seeks recommendations for new systems

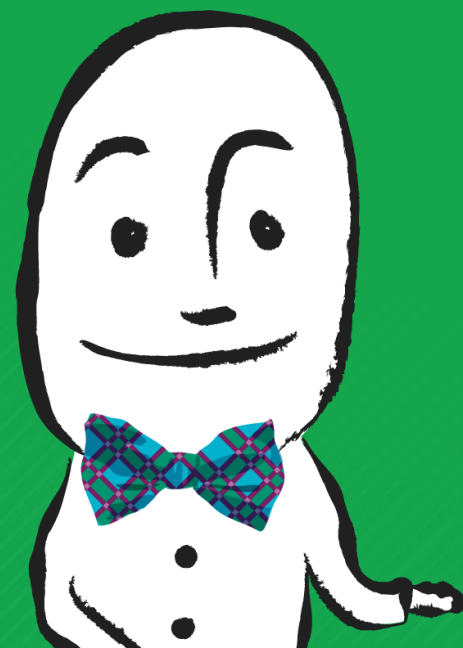
Connect & Explore



Upcoming Webinars

Mark your calendar for these upcoming Connect & Explore webinars!

THANK YOU!



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