Today’s Agenda

• Welcome Remarks
• Science Impact Framework
• Work Group Progress
• 2021-2022 State-of-the-Network
• State & Local Policy Updates & Opportunities
• Innovation through Collaboration Breakout Sessions
Welcome!

Type your name, institution, and network affiliation into the chat box!
The findings presented are those of the speaker and do not represent the official views of CDC, USPHS, DHHS.
CDc’s National Center for Chronic Disease Prevention and Health Promotion (NCCDPHP)

DNPAO Heidi & Amy, Co-Leads

Division of population health-prevention research center program school health branch
Pandemic-Driven Health Policies To Address Social Needs And Health Equity

William K. Bleser, Humphrey Shen, Hannah L. Crook, Andrea Thoumi, Rushina Cholera, Jay Pearson, Rebecca Whitaker, Robert S. Saunders

Stark disparities during the COVID-19 pandemic led to new health policy funding and interventions addressing social needs and social determinants of health to improve health equity. Lessons from these interventions and similar prepandemic initiatives can guide policy makers in designing more permanent approaches.
“Examples of collaboration and resource sharing through social connections we documented included: equipment sharing between operations, sourcing information on food safety, technology adoption, and labor shortages; pooling produce to sell through existing online platforms; and consulting already trusted sources to learn about resources available for meeting COVID-19 challenges.

Organizations reported participation in informal and formal networks, calling, texting, and emailing to learn what others were doing week-to-week. Many organizations reported being part of group calls from the health department or other county level branches working to communicate best practices, restrictions, and gather information on food access needs and limitations. Though some aspects of these calls were informative, long-standing networks such as area food councils that hosted weekly call-ins for organizations to facilitate information sharing and troubleshooting were considered *more* helpful by all accounts.2
White House Conference

• Announced May 4th - The White House Conference on Hunger, Nutrition, and Health will catalyze the public and private sectors around a strategy to end hunger, improve nutrition and physical activity, and close disparities.
  • Listening Sessions will be hosted by the White House for public input
  • Guides/Toolkits to gather input on policy strategies
  • Visit & Sign up for emails: whitehouse.gov/hungerhealthconference
  • Mid September 2022 Conference – National Strategy Report
Among youth with COVID-19, **underlying medical conditions (including high weight)** increased the likelihood for hospitalization and severe COVID-19 illness.

Among youth, the **average rate of BMI increase doubled** during the pandemic.

Increase in emergency room visits for eating disorder conditions by youth.

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Obesity is a risk factor for both hospitalization & severe COVID-19 illness among children and adolescents.

Rates of BMI change doubled among children and adolescents during the COVID-19 pandemic.

Worse health outcomes.


Supporting Children & Families in Many Settings

Layered policy, system, and organizational supports

Healthy Behaviors, Growth, Ready to Learn, Wellness, Happiness
Physicians should screen children ages 6+ using BMI and offer/refer children with obesity to Family Healthy Weight Programs.

CDC has created new EHR data cleaning tools for BMI data in kids, adults. GitHub - R package for cleaning anthropometric (height and weight) data from electronic health record systems.

* Under the ACA Grade B recommendation means that insurers must cover screening and treatment in intensive interventions as a preventive service.
Public Health Approaches to Supporting Nutrition

CDC & partners work at multiple levels to provide data & guidance to help create healthier communities

Breastfeeding  Early Child Nutrition  Early Care and Education  Youth Programs  Farm to Education  Family Healthy Weight Programs  Food Service Guidelines  Nutrition Standards in Charitable Food Systems  Community Food & PA

Food Policy Councils, Equity Task Forces, Community Advisory Boards
Healthy students are better learners.

https://www.cdc.gov/healthyschools/wssc/index.htm
Updated modules include:

- Food & Nutrition
- Physical Activity
- Mental and Emotional Health

https://www.cdc.gov/healthyyouth/HECAT/index.htm
Synthesis: School Health Guidelines

https://www.cdc.gov/healthyschools/npao/strategies.htm

Science Impact Framework
Objectives

SCIENCE IMPACT
FRAMEWORK OVERVIEW

EXAMPLES

NOPREN APPLICATION
101: What is the Science Impact Framework?

CDC DEVELOPED THE FRAMEWORK TO:

1. Measure impacts beyond citations
2. Document how research can influence and spur action in public health policy and practice.
3. Crystalize 5 domains of influence that researchers & evaluators can use to track and communicate their impact

“It is a simple approach for tracing and linking CDC science to events and/or actions with recognized influence beyond the science of citations”
What is the Science Impact Framework?

Modeled after IOM’s “Degrees of Impact”
5 DOMAINS OF INFLUENCE

KEY INDICATORS

• Scientific publication (open access journal)
• Trade publications
• Professional meetings/conferences
• General communication (social media, web, print)
• Presentations
• Training, coursework

Disseminating science may include publication of findings in peer review journals or other venues, presentation at conferences, or through other media channels.
5 DOMAINS OF INFLUENCE

KEY INDICATORS

• Continuing education (CME, CEU) Awards
• Stakeholder resources, curriculum, training
• Feedback (survey, focus groups, anecdote)
• Information sharing, communications among professional societies
• Electronic communications (information shared on listservs, social media, news coverage)

May include awards, receiving recognition, general awareness, or acceptance of a concept or findings by scientific community or policy makers, or generating new discussions
5 DOMAINS OF INFLUENCE

KEY INDICATORS
• Technology creation
• New funding (pilots/research)
• Advocacy groups/NGOs
• Congressional hearings
• Partnerships and collaborations
• Research and development
• Office practice/point of care change

Catalyzing action may include partnerships and collaborations, technology creation, congressional hearings or bills, or introduction in practice
A Safety Net Unraveling: Feeding Young Children During COVID-19

Katherine W Bauer, Jamie F Chriqui, Tatiana Andreyeva, Erica L Kenney, Virginia C Stage, Dipti Dev, Laura Lessard, Caree J Cotwright, Alison Tovar

Published: 21 September 2020

Addressing Food Insecurity through a Health Equity Lens: a Case Study of Large Urban School Districts during the COVID-19 Pandemic

Gabriella M. McLoughlin, Julia A. McCarthy, Jared T. McGuirt, Chelsea R. Singleton, Caroline G. Dunn & Preety Gadhoke

Journal of Urban Health 97, 759–775 (2020) | Cite this article

13k Accesses | 19 Citations | 42 Altmetric | Metrics
5 DOMAINS OF INFLUENCE

KEY INDICATORS
• Legal/policy changes
• Accreditation
• Cultural/social change
• Behavioral change
• Economic change
• CMS

reimbursement
• Other payer actions
• Change instilled
• (New) formal guidelines and recommendations
• Hospital standards

• Effecting change may include building public health capacity, legal/policy change, cultural/social/behavioral change, or economic change
5 DOMAINS OF INFLUENCE

KEY LONG TERM INDICATORS
• Spreading and scaling of policies (more states, more localities, state → federal)
• Implementation of public health programs/initiatives
• Health outcomes
• Prevalence and incidence
• Morbidity and mortality (e.g., frequency of outbreaks, trends)
• Quality of life improvements
• Reductions in economic burden

• Shaping the future may include new hypothesis or strategies, implementation of new programs/initiatives, or quality improvement
Asking impactful questions

Most Influential Paper, 2019

Tobacco Product Use Among Middle and High School Students — United States, 2011–2017

“Electronic cigarettes were the most commonly used tobacco product among high school (11.7%) and middle school students (3.3%) in 2017.”


Most Influential Paper, 2020

Racial and ethnic estimates of Alzheimer’s disease and related dementias in the United States (2015-2060) in adults aged ≥ 65 years

“Alzheimer’s disease and related dementias burden will double to 3.3% by 2060 when 13.9 million Americans are projected to have the disease.”

Asking Impactful Questions: Considerations

- Fill an important gap identified by decision makers?
- Address NOPREN and field priorities?
- Clear messages of action(s)?
- Design with health equity, equity?
- Consider other benefits/consequences (e.g., business, climate)?
- Main dissemination audience identified?
- Relevant journals, modes for main audience?
- Other product needs for primary or secondary audiences?
DISCUSSION QUESTIONS

CAN WE BE EVEN MORE INTENTIONAL ABOUT STRATEGIC RESEARCH, EVALUATION, IMPLEMENTATION SCIENCE THAT WILL CATALYZE ACTION, EFFECT CHANGE, & SHAPE THE FUTURE?

WHERE DO WE NEED INTENTIONAL TIME WITH AFFECTED CITIZENS, ADVOCATES, PRACTITIONERS, AND/OR TRUSTED MESSENGERS TO ASSURE RESEARCH ADDRESSES LIVED EXPERIENCE?

HOW DO WE DISSEMINATE THE FINDINGS SO THAT THEY CAN BE USED TO EDUCATE & INFLUENCE:

- NUTRITION/FOOD SYSTEM POLICY – FEDERAL, STATE, TRIBAL, TERRITORIAL, LOCAL
- PRACTICE, PUBLIC HEALTH PROGRAMS
- SOCIAL POLICY AS NUTRITION POLICY

SUPPORTS NEEDED BY NOPREN MEMBERS & WORKGROUPS?

CDC CAN ALSO BENEFIT FROM ASKING FOR INFORMATION ON YOUR WORK IN A SYSTEMATIC WAY SUCH AS THESE SIF DOMAINS
Science Impact Framework: Discussion

Questions? Reactions?
Work Group Updates
COVID-19 Food & Nutrition
Disseminating Science

Scientific publications
- From 1st year of COVID-19 Food and Nutrition Work Group and sub work groups
- Forth coming scoping review papers

General communication (social media, web, print)
- Friday Digest – “HER NOPREN COVID-19 Weekly Digest” sent out by HER, Lindsey Miller

Presentations
- Monthly meetings
Creating Awareness

Information sharing, communications among professional societies

- Monthly meetings that include presentations, policy updates, and partner updates
- Recently relaunched qualitative sub work group led by Drs. Hannah Lane and Yuka Asada

Electronic communications (information shared on listservs, social media, news coverage)

- Friday Digest – “HER NOPREN COVID-19 Weekly Digest” sent out by Lindsey Miller
Drinking Water
Disseminating Science

- **One-page infographic**: “Turn on the Tap! School Drinking Water Access During COVID-19 Pandemic and Beyond”

- **Research brief**: “The Impact of the COVID-19 Pandemic and Mandated Lockdowns on Drinking Behaviors”.

- **Monthly webinars**:
  - 09/22/21 – “Redefining Drinking Water Security in the US”, Wendy Jepson, PhD
  - 10/27/21 – “A Water Filter Plus Theory-Based Intervention Leads to Reduced Consumption of Sugary Drinks and Increased Intake of Filtered Tap Water among Latino infants and toddlers: Results From Water Up! @ Home Intervention”, Uriyoán Colón-Ramos, Sc.D., M.P.A.
  - 01/26/22 – “Reducing lead exposure in school water: Evidence from remediation efforts in New York City public schools”, Scott Latham, PhD
  - 02/23/22 – “Identifying schools at high-risk for elevated lead in drinking water using only publicly available data”, Gabriel Pablo Lobo, PhD
  - 03/23/22 – “Factors related to water filter use for drinking tap water at home and its association with consuming plain water and sugar-sweetened beverages among U.S. adults”, Sohyun Park, PhD, MS
  - 04/27/22 – “Quantifying water access and use for individuals and households: insights into nutrition, disease, and mental health in North America and beyond”, Sera Young, PhD
Water Measures Project:
- **Purpose**: This review of reviews aims to collect, synthesize and characterize the types of measurement tools used to assess water access and intake for children across multiple settings.
- **Goal**: To date, we have reviewed 30 systematic reviews to identify measures containing drinking-water related outcomes in 150 studies. We will share results through a peer-reviewed publication and an annotated list of measures. The study findings will help future researchers identify appropriate measurement tools for youth when conducting water-related research and highlight opportunities for the development of new and/or improved measurement tools.

COVID-19 Response Fund Project:
- **Purpose**: The purpose of this paper is to review the water security implications of federal policies and programs providing assistance to support drinking water security initiated in response to the COVID-19 pandemic in the United States.
- **Goal**: We aim to identify key gaps as well as policy and practical implications related to the federal approach to address drinking water equity issues.
Upcoming Events & Contact Information

Upcoming Events:

'I know it's just pouring it from the tap, but it's not easy': Motivational processes that underlie water drinking
Amy Rodger, PhD
Wednesday, May 25, 2022, at 12:30 PM EST

Understanding Biopsychosocial Health Outcomes of Syndemic Water and Food Insecurity: Applications for Global Health
Cassandra Workman, PhD
Wednesday, June 22, 2022, at 12:30 PM EST

Contact Information:

Angie Cradock, PhD  Sohyun Park, PhD  Abigail Colburn, PhD
Co-Chair  Co-Chair  Fellow
acraddock@hsph.harvard.edu  spark3@cdc.gov  atcolbur@asu.edu
Early Childhood Working Group Updates

Alison Tovar
Kate Bauer
Daniel Zaltz
Chelsea Kracht
**Monthly Webinars** - all of our monthly webinars have attendance between 20 and 40 participants, we purposefully focus on diverse content, speakers from different domains and disciplines, and include sessions on methodology.

**ECE workforce wellness sub-group: poster symposium**: "Understanding and improving the well-being of the early childhood workforce: innovative research and practice" National Research Conference on Early Childhood in June 2022. Includes seven posters from researchers in the group and the discussant is a group member and advocate from Child Care Aware of America.

Workforce wellbeing session included in the 2022 Child Care Aware of America Annual Symposium, featuring group members Laura Lessard (presenting the work of four other group members) and Nikki Garro.


COVID Challenges & Opportunities in the CACFP. Presentation to National CACFP Sponsor Association.

Catalyzing Action

✓ Funded Grants
  • W. K. Kellogg Foundation (PI- Bauer)
  • Farm Bureau (PI-Bauer)
  • HER Commissioned Research Project (PI-Tovar)
  • NOPREN Digital ECE (PI-Francis)
  • HER Commissioned Review (PI-Bauer, Tovar)

✓ Workforce Wellness subgroup: Five of the six awardees from a recent ACF grant call for proposals on well-being for the Head Start workforce were members of the working group. Several mentioned that their membership in the group strengthened their applications.

✓ Bringing in federal and non-profit partnerships across different subgroups

✓ Continuing to leverage additional research funds
This working group has been a tremendous advantage for being able to maintain professional networks and to help mentees begin to establish broader networks. I am grateful for your leadership.

I am transitioning my international research in early childhood nutrition to US-based research and NOPREN has been amazing for me to start to know investigators interested in this topic. Also, in identifying gaps in the knowledge, and a platform to eventually develop new collaborations in the near future and identify mentors (I am an early career researcher). Thank you so much!!!

The learnings from the NOPREN ECWG have informed the Healthy Food for Denver Kids Commission's work. The latest RFP was developed using learnings from the group as well as available resources for grantees. One of the recipients of this grant is Jini Puma, a previous presenter. Other grantee recipients include organizations that are increasing access to CACFP, farm to preschool and WIC CSA boxes. Thank you for your work-

It has provided an opportunity to share & get feedback on my team's work, as well as many opportunities to learn from and network with leaders in the early childhood field...Collaborative partnerships for engaging in projects. Learning about cutting edge projects that may help to guide and inform projects. This group has been so helpful! I deeply appreciate involvement. The meetings have been excellent and they are giving me the practical backdrop I need to frame questions....

I learn about new resources. Most recently I learned about the Roadmap to SNAP-Ed in ECE settings. I'm currently using the roadmap to design a pilot project for Head Start and for a grant application.
Shaping the Future

- Head Start Project leading to quality improvement & having discussions on best practice recommendations related to BMI communication

- Food security projects in Michigan: focus on elevating lived expertise

- Disseminating research on CACFP and feeding young children during the pandemic

- Continued WG focus on increasing methodological expertise/rigor and effective communication strategies.
Food Security
## Bi-Monthly Webinar Topics

<table>
<thead>
<tr>
<th>Toolkit for Pediatricians to Address Food Insecurity</th>
<th>Kimberly Montez, Kofi Essel and Alex Ashbrook</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-EBT</td>
<td>Lina Walkinshaw</td>
</tr>
<tr>
<td>Adolescent Food Security</td>
<td>Kat Krupsky and Kaitlyn Harper</td>
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<td>GusNIP Theory of Change</td>
<td>Jim Krieger and Kirsten Leng</td>
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<tr>
<td>Food is Medicine, Medically Tailored Meal Policy Recommendations</td>
<td>Jean Terranova and Alissa Wassung</td>
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<td>Upcoming (May 2022): SNAP timing, high-stakes exam performance, and college attendance</td>
<td>Jon Isaac Smith</td>
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### Adolescent Food Security Subgroup Papers (led by early career researchers):

NOPREN Funded Work Group Project: From Farmers to Families, F-Cube Study

• Led by early career research, Owusua Yamoah and Darcy Freedman (Case Western Reserve University)
• Exploring role and benefit of the Farmers to Families Food Box program through in-depth interviews with box distributors, contractors, and participants
• Submitted abstract to APHA describing the successes and challenges of the program
YRBS Food Security Measure Subgroup

- CDC identified the opportunity to add a single-item food security measure to 2025 national Youth Risk Behavior Survey
- Subgroup is conducting psychometric testing to develop a 1-item screening tool
- Plan to write up findings in peer-reviewed manuscript and submit recommendations to YRBS
Food Service Guidelines
Disseminating Science

FOOD SERVICE GUIDELINES WORKGROUP

*Bimonthly Webinar Presentations*

- “Implementation of a Healthy Food and Beverage Policy at a Public University: A Case Study”
- “Sustainability and Ethical Practices in Food Service: A Panel Discussion”
- “Nutrition in Midwestern State Department of Corrections Prisons: A Comparison of Nutritional Offerings to Commonly Utilized Nutritional Standards”
- etc.

*Developed Resources for Implementation and Evaluation*

- Evaluating Food Service Guidelines in Cafeteria Settings
- Implementing and Evaluating Nutrition Policies and Standards in Food Pantries
FOOD SERVICE GUIDELINES WORKGROUP

New Funding and Collaborations

• NOPREN COVID-19 Response Fund
  Collaboration with Dr. Jillcott Pitts, Eastern Washington University.
  “Barriers and facilitators for hospital food service departments to implement practices that support an environmentally sustainable food system.”

• Center for Science in the Public Interest (CSPI)
  Funding internship and librarian collaboration at Washington State University.
  “Influence and implementation of food service guidelines interventions: a scoping review.”
Food Policy Councils
Disseminating Science

• Presentations
  • Recorded “member spotlight” presentations where WG members shared 10-minute presentations of their FPC-related work. Recordings will be posted on our WG website

Scientific publications
  • Reflective essay on the state of indicators available to evaluate and monitor changes in local food systems
    ▪ In progress, will be submitted to Journal of Agriculture, Food Systems, and Community Development

  • Other scientific output (CDC Public Health Grand Rounds, Vital Signs, Science Clips)
    • Food system indicators database was published on NOPREN and Food Policy Network website
      ▪ How-to-use document
      ▪ Step-by-step guide video

• Professional meetings/conferences
  • Abstract on findings on “Characteristic among FPCs that use a racial equity framework” submitted for presentation at APHA 2022 annual conference
Creating Awareness

Information sharing, communications among professional societies

The preliminary findings from our work on FPC racial equity work (FPN survey) and food system indicators were shared at the Healthy Hartford Hub meetings recently.
Partnerships and collaborations

We have built a partnership with Prince George Food Equity Council to evaluate racial equity work in the county (case study). We will look at racial equity promotion among Urban Ag famers and food truck operators in Prince George County.
Shaping the Future

Research leading to health outcomes, quality of life improvements, or reductions in economic burden

• To start working on a dataset on FPC’s COVID food security response by density within states in Spring 2022

• Future collaboration with other work group and entities on:
  ▪ food insecurity
  ▪ utilization of the newly developed food system indicators database.
  ▪ racial equity work in different settings
Healthy Food Retail
Healthy Community Stores Case Study Project

• 1 paper published: doi:10.3390/ijerph19020690

• 4 papers in progress or under review
  • Will be submitted to the IJERPH Special Issue “Healthy Food Businesses: Models for Improving Diet and Healthy Food Access in Under-Resourced Communities“ (due 5/31)

• Preliminary results were presented at Healthy Food Retail Work Group Meeting in February (recording available on the NOPREN website)

• Seven city collaboration between many Work Group members, including: Melissa Laska, Ravneet Kaur, Rachael Dombrowski, Angela Odoms-Young, Ashley Hickson, Lucia Leone, Joel Gittelsohn, Christina Kasprzak, Alex Hill, Megan Winkler, Emma Lewis, Bree Bode, Sara John, Samantha Sundermeir, Uriyoan Colon-Ramos, Lillian Witting, Jake Munch, & Julia DeAngelo
NOPREN-funded Early Career Scholars Project

• Received funding from NOPREN for 2 student projects ($4000/each)
  • Collaboration with WIC Learning Collaborative
  • Strong student interest (received 15 applications)

• Funded one Healthy Food Retail project & one WIC LC project (+1 additional HFR project!):
  • Angélica Valdés Valderrama (Tufts): Understanding the Determinants of Online Food Retail at Different Levels of Incomes and Socioeconomic Status
  • Cristina Gago (Harvard): Impact of the temporary CVV/B increases on F&V purchases, consumption, and access among WIC caregivers in Mass.
  • Emma Lewis (JHSPH): Building understanding of consumer engagement and equity for an mHealth intervention to improve food access within a COVID-19 stricken urban food system

• Plan to have a student research showcase in late summer/early fall to disseminate results
NOPREN- & HER-funded Early Career Scholars Project

• Received funding from NOPREN for 2 student projects ($4000/each)
  • Collaboration with Healthy Food Retail Work Group
  • Strong student interest (received 15 applications)

• Funded one WIC LC & HFR WG project
  • Cristina Gago (Harvard): Impact of the temporary CVV/B increases on F&V purchases, consumption, and access among WIC caregivers in Mass.

• HER provided for funding for 2 additional WIC LC projects
  • McKenna Halverson (UDel): WIC participants’ perceptions of the CVB increase during the COVID-19 pandemic
  • Marisa Tsai (Berkeley): Racial and ethnic differences in the effects of the increase in the WIC Cash Value Benefit for children during COVID-19

• Students presented their work in progress at our March meeting, “Nurturing the Next Generation of WIC Scholars”
Shaping the Future

Reviews of Digital Marketing and Implications for WIC online ordering

• Systematic review of the food marketing practices used in online grocery shopping platforms - led by Leslie Hodges

• Narrative review of the laws and regulations on consumer protections related to online grocery shopping – led by Harry Zhang

• Amazing feedback and support from consultants and WIC LC members in developing the outlines and search protocols for these projects, including:
  • Jeffrey Chester, Executive Director, Center for Digital Democracy
  • Christina Chauvenet, Ph.D., Senior Manager of Research and Program Innovation, NWA
  • Brian Dittmeier, Esq., Senior Director of Public Policy, NWA
  • Jennifer Harris, Ph.D., Senior Research Advisor, Marketing Initiative, UConn Rudd Center for Food Policy & Health
  • Emma Scott, Clinical Instructor, Food Law and Policy Clinic, CHLPI, Harvard Law School
  • Chuanyi Tang, Ph.D., Associate Professor of Marketing, Old Dominion University

• Next steps: Conduct searches, data extraction, and write up
School Wellness
Disseminating Science

2021-2022 Fellow Projects (in process)
• Marisa Tsai: Implementation of recess in U.S. elementary schools by school characteristics
• Deborah Olarte: A systematic review of breakfast in the classroom initiatives

2020-2021 Fellow Projects
• Ann Kuhn: An Evaluation of Physical Education during the COVID-19 Pandemic
  • Primary data collection, mixed methods, 2 papers in progress
  • Recently highlighted on the PAPREN emerging leaders showcase (presented findings)
• Amsie Hecht:

Monthly Webinars have included published papers and/or research in progress
• Examples of recent webinar topics:
  • Juliana Cohen, Systematic review of factors to increase school meal consumption
  • Andrea Richardson (RAND), Has the Healthy and Hunger-Free Kids Act Improved Body Mass Trajectories of Children in Low-Income Families?
• Monthly Webinars included partner updates (CDC, Lunch Assist, etc.) and presentations on resources

Examples of recent and upcoming webinar topics:
• Jon Solomon - Aspen Institute Project Play initiative: Sport for All, Play for Life: A Playbook to Develop Every Student Through Sports
• Shauvon Simmons Wright - Alliance for a Healthier Generation, Wellness Policy Builder

• Monthly e-mails to group with information on events, funding, publications, etc.
Shaping the Future

- Complete current fellow projects
- Recruit new fellows for 2022-2023
- Writing Retreat #2!

Identifying strategies to engage broader membership. Ideas:
- From WIC learning collaborative: member introductions
- Breakout room discussions during webinars
- Develop a symposium at a scientific meeting
- Consider submitting an NIH conference grant
- Possibly engage members on key topics (subcommittee, invited panel, etc.):
  - Re-engaging with schools
  - Post-COVID/recovery- lessons learning, impacts, etc.
Rural Food Access
Disseminating Science

Food Procurement Patterns and Food Insecurity among Households in Appalachia Ohio

- Collaboration involving more than a dozen RFAWG members, students, and other researchers
- Hosted several RFAWG calls to receive feedback from work group members regarding project
- Manuscript in preparation describing changes in food procurement over the course of the COVID-19 pandemic and relationship between food procurement patterns and household food insecurity
Creating Awareness

• Maintained an active and growing RFAWG listserv:
  o Shared resources related to rural food access research, practice, and policy implications
  o Notified RFAWG members of relevant webinars, conferences, and opportunities for collaboration

• Monthly meetings/webinars focused on recent research related to rural food access:
  o Presentations from both RFAWG-affiliated and non-affiliated researchers
  o Opportunities to discuss research methods and hypotheses
  o Cross-promotion with other NOPREN work groups

• Annual survey of RFAWG members assessing interests and preferences for speaker and topics
Catalyzing Action

- Facilitated introductions of RFAWG members to researchers and institutes working on rural food access (e.g., NIFA Rural Development Centers)

- Received NOPREN funding for “Food Procurement Patterns and Food Insecurity among Households in Appalachia Ohio” (PI: Dr. Jennifer Garner, Ohio State University)
  - Intention to submit a proposal related to food access and food insecurity among rural households in Appalachia Ohio
Break!
Be back at 12:45pm PT/2:45pm ET
Reflecting Back:
2021-2022 State of the Network
2021 Network Priority Areas

- Early Career Professional Development
- State & Local Practitioner Engagement
- Structural Racism
- Fostering Collaboration
- New Work Group
Early Career Professional Development Opportunities:
Summer Student Speaker Series

**Session 1: US Food Systems Overview**
Heidi Blanck, CDC DNPAO
Sheila Fleishschhacker, USDA
Kirsten Arm, Healthy Eating Research

**Session 2: Healthy Food Retail Overview**
Diane Harris, CDC
Megan Lott, Healthy Eating Research

**Session 3: School Wellness Policies Overview**
Erin Hager, University of Maryland
Sarah Sliwa, CDC
Caitlin Merlo, CDC

**Session 4: Early Childhood Policies Overview**
Courtney Paolicelli, USDA FNS
Carrie Dooyema, CDC
Rafael Perez-Escamilla, Yale

**Session 5: Nutrition Guidelines**
Dianne Harris, CDC DNPAO
Amy Warnock, CDC DNPAO
Steve Onufrack, CDC DNPAO
Jessi Silverman, CSPI
Ronli Levi, UCSF

**Session 6: Drinking Water Access and SSBs**
Angie Cradock, Harvard SPH
Christina Hecht, UC NPI
Caitlin Merlo, CDC DNPAO
Sohyun Park, CDC DNPAO

**Session 7: Food & Nutrition Security**
Hilary Seligman, UCSF
Colby Duren, IFAI
Amy Yaroch, GSCN
Nathalie Celestin, CDC DNPAO

**Session 8: Student Poster Presentations**
Moderated by Alison Tovar, Brown University
Early Career Professional Development Opportunities: Wiki Ed Training Course

- 20 NOPREN members selected for 6-week course
  - Mix of students, public health professionals, and early career researchers
- Topics covered:
  - Health effects of sodium
  - Gestational Weight gain
  - Breastfeeding
  - Charitable food system
  - Advertising to children
Early Career Professional Development Opportunities: Student Stipends

- Awarded $500 stipends to 36 students engaged in nutrition policy research projects
  - Included undergraduates, master’s degrees, doctoral and post-doctoral students
  - 26% first generation college student

- Topics covered:
  - Healthy food retail
  - Healthy beverage and SSB consumption
  - Food service guidelines
  - School responses to COVID-19
  - Federal policies (WIC, SNAP)
  - Effect of pandemic on ECE providers
  - Effect of COVID-19 on health/food security of urban and rural communities
Early Career Professional Development Opportunities:
Work Group Fellows Program

Jessica Soldavini, U North Carolina
Marisa Tsai, U Calif Berkeley
Abigail Colburn, Arizona State U
Kyle Busse, U North Carolina
Abiodun Atoloye, U Conn
Deb Olarte, Merrimack College
Bethany Williams, Wash State U
Kaitlyn Harper, Johns Hopkins U
Daniel Zaltz, Johns Hopkins U
Caitlin Lowery, U North Carolina
Chelsea Kracht Pennington Biomed Research Ctr (LSU)
# Early Career Professional Development Opportunities: COVID-19 Response Funding Opportunity

<table>
<thead>
<tr>
<th>Work Group</th>
<th>Project Title</th>
<th>Team Leads</th>
</tr>
</thead>
<tbody>
<tr>
<td>COVID-19 Food &amp; Nutrition</td>
<td>Scoping Review on Federal Nutrition Assistance Programs during the COVID-19 Pandemic and Disasters</td>
<td>Margaret Read, Lauren Clay, and Jessica Soldavini</td>
</tr>
<tr>
<td>Food Policy Councils</td>
<td>Impact of Food Policy Councils on Racial Equity</td>
<td>Larissa Calancie and Kristen Cooksey Stowers</td>
</tr>
<tr>
<td>Food Security</td>
<td>From Farmers to Families (F-Cube): Addressing food insecurity during the COVID-19 pandemic</td>
<td>Owusua Yamoah and Darcy Freedman</td>
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<tr>
<td>Food Service Guidelines</td>
<td>Investigation of Barriers and Facilitators to Implementing Sustainable Practices in Healthcare Food Service Settings</td>
<td>Stephanie Jilcott Pitts, Bethany Williams, and Emma Sirois</td>
</tr>
<tr>
<td>Healthy Food Retail</td>
<td>Funded three student projects</td>
<td>Cristina Gago, Angelica Valdes, Emma Clare Lewis</td>
</tr>
<tr>
<td>Rural Food Access</td>
<td>Impact of the pandemic on food sourcing, food assistance utilization and food security status among Appalachian households</td>
<td>Jennifer Garner, Alice Ammerman, Lindsey Haynes-Maslow, Stephanie Jilcott-Pitts, Kyle Busse, and Qiang Wu</td>
</tr>
<tr>
<td>School Wellness</td>
<td>Free Schools for All: A Policy Study of Adoption in Maine and California</td>
<td>Amsie Hecht, Juliana Cohen, Lindsey Turner, Wendi Gosliner, Lorrene Ritchie, and Michele Polacsek</td>
</tr>
</tbody>
</table>
Early Career Professional Development Opportunities

Highlights from the WIC Research Learning Collaborative

Harry Zhang
State and Local Practitioner Engagement

- Connection with Association of State Public Health Nutritionists (ASPHN)
- School Wellness and Food Services Guidelines Work Groups
State and Local Practitioner Engagement

Highlights from the Food Service Guidelines Work Group

Steve Onufrak
FOOD SERVICE GUIDELINES WORKGROUP

Diverse Leadership and Membership

• Workgroup Co-Chair Meghan Murphy, San Diego County.
• 40% membership comprised of state and local health department members.

Practitioner-Focused Resource Development and Communications

• Presentations from local health departments and CDC grantees.
• Discussion and resources focused on field work and implementation:
  • “Behavioral Design Toolkit for FSGs in Multiple Settings.”
  • “Evaluating the long-term impact of nutrition standards and other healthy food procurement practices in Los Angeles County.”
• Meetings and resources circulated with diverse membership.
Addressing Structural Racism

- **State-of-Science webinars**
  - Using Asset-Based Language and Centering Stakeholders
  - Data Reveals Indian Country Food Security Gaps and Opportunities
  - Exploring Racial Equity in Public Policy Messaging Guide
  - Increasing Access to Healthy Food in Navajo Nation

- **Work Group projects**
  - Drinking Water: water security and equity implications of federal policies
  - Food Policy Councils: Advancing racial equity through food systems
Addressing Structural and Systemic Racism

Highlights from the Food Policy Councils Work Group

Kristen Cooksey Stowers
**Fostering Collaboration**

**NOPREN Goal:** identify areas of collaboration across WGs to work on cross-cutting, high priority policy research opportunities

**Leadership Council**
- Comprised of Coordinating Center, CDC, senior advisors, work group chairs and fellows
- Meets quarterly to share progress, emerging ideas, and areas of collaboration

**Healthy Eating Research**

**PAPREN**
Fostering Collaboration

Highlights from PAPREN
Jamie Chriqui, PAPREN Director
New Work Group

childhood obesity health policy and health services research work group

CAPT Heidi Blanck
State and local healthy food policy
NOPREN State of the Network Annual Meeting 2022

JIM KRIEGER, MD, MPH
MAY 5, 2022
State and local healthy food policies

**Availability**
- Kids’ meals
- School meals
- School Grab-n-Go meals & P-EBT
- Retail marketing
- Procurement & nutrition standards
- Early learning food
- Healthy Food Financing/Incentives
- Healthy corner stores
- Stocking requirements
- Water access
- Tax incentives for food donations
- Fast food zoning
- Mobile food vendors
- Portion Size

**Acceptability/Appeal**
- Warning labels
- Menu labels
- Marketing
- Countermarketing

**Affordability**
- Sweetened beverage tax
- Nutrition incentives/Produce Rx
- Food as medicine
- SNAP enhancements
- Minimum pricing

**Food System**
- Plant-based foods
- Food waste and rescue
- Food hubs
- Urban agriculture
- Local/regional food system policy
  - Food Policy Councils
  - Right to Food
  - Farm to Table
- Land use and zoning
- Farmers markets
Sweetened Beverage Taxes

Research Questions
- Total diet quality
- Impacts of revenue use
- Equity in process and outcomes
Sugary drink taxes around the world

Americas:
British Columbia, Canada
Newfoundland and Labrador, Canada
USA (8 jurisdictions)
Bermuda
Mexico
Dominica
Barbados
Panama
Ecuador
Peru
Chile

Europe:
Finland
Latvia
United Kingdom
Isle of Man
Ireland
Poland
Belgium
France
Hungary
Spain
Portugal
St. Helena

Africa:
Morocco
Nigeria
Mauritius
Seychelles
South Africa

Middle East & Southeast Asia:
Israel
Saudi Arabia
Bahrain
Qatar
United Arab Emirates
Oman
India
Thailand
Malaysia
Maldives

Western Pacific:
Philippines
Brunei
Cook Islands
Fiji
French Polynesia
Kiribati
Marshall Islands
Nauru
New Caledonia
Niue
North Mariana Islands
Samoa
Tonga
Tuvalu
Vanuatu
Wallis and Futuna

50+ and growing

Updated February 2022
© Copyright 2022 Global Food Research Program UNC | Base map by Brichuas, stock.adobe.com
Taxes decrease demand

- Demand fell by 20%
- Price elasticity = -1.47
Tax economic burden and benefit Seattle

Taxes Paid and Benefits Received

Higher income
- Taxes paid: $18.3
- Benefits received: $3.1
- Net transfer: $15.2

Lower income
- Taxes paid: $12.5
- Benefits received: $3.9
- Net transfer: $8.6M

Jones-Smith, Krieger et al.
Substitution effects
Seattle (grams sugar sold)

Net 19% reduction in grams of sugar sold 2 years post tax
(accounting for sugar sold in untaxed beverages, sweets, and stand-alone sugar)

Powell 2021
Health
Mexico

Overweight or obese

Mean teeth with caries

Primary teeth

Gracner, JAMA Pediatr. 2021
Hernandez-F Caries Res 2021
School meals

- Reducing sugar and sodium
- Strengthening whole grains
- Plant-based foods
- Universal school meals
- Community Eligibility Provision
- Year-round meals
- Procurement
- Marketing restrictions

Research questions:
- Nutrition security
- Diet quality
- BMI
- School performance
- Cost-effectiveness
- Co-benefits
School meals during closures
P-EBT and Grab-and-Go School Meals

Program reach in April/May 2020
GGSM reached 8 million children (27% of those eligible)
P-EBT reached 27 million children (89% of those eligible)

Cost per meal delivered
GGSM - $8.07
P-EBT - $6.46
Community eligibility for school meals

7-Year Trend in Schools Adopting in Community Eligibility

Number of Schools Participating

<table>
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<tr>
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<tbody>
<tr>
<td></td>
<td>14,184</td>
<td>18,173</td>
<td>20,678</td>
<td>24,900</td>
<td>28,809</td>
<td>30,620</td>
<td>33,171</td>
</tr>
</tbody>
</table>

Percentage of Eligible School Districts Adopting Community Eligibility in School Year 2019–2020

FRAC CEP Adoption 2019-20 and 2020-21
Plant-based foods

NYC Public Schools Are Going Vegan on Fridays

Mayor Eric Adams and the NYC Department of Education have made the decision to introduce more vegan options in schools across the city.

Beginning this month, NYC public schools are going vegan on Fridays. After successfully implementing Meatless Mondays in 2019 and Meatless Fridays in April 2021, NYC’s Mayor Eric Adams and the Department of Education (DOE) made the decision to begin serving fully vegan meals in schools as a way to introduce students to healthy, nutritious foods and to create exposure to vegan options they might not see elsewhere.
Nutrition Incentives

- 65 GusNIP nutrition incentive sites
- Local programs (e.g., NYC, Seattle)

- Scaling up
- Centering in equity
- Advancing program design
Warning labels

Better evidence, legal challenges

SAN FRANCISCO GOVERNMENT WARNING: Drinking beverages with added sugar (s) can cause weight gain, which increases the risk of obesity and type 2 diabetes.
Warning Labels

What we know

- Labels on beverage containers and dispensers reduce purchases, change attitudes, increase knowledge about sugary drinks.
- Icon and graphic labels more effective than text only.

Research questions

- Effect moderation by race/ethnicity, English proficiency, SES
- Nutrient vs. health warning
- Real-world effectiveness
- Effects on reformulation

17% absolute reduction in choice of sugary drink in naturalistic store laboratory.
NYC added sugars menu warning

SUGAR WARNING Item exceeds half the Daily Value for added sugars based on a 2,000 calorie diet. The U.S. Dietary Guidelines advises limiting added sugars.

2,000 calories a day is used for general nutrition advice, but calorie needs vary.

combo meals
> includes medium fries and medium soft drink

<table>
<thead>
<tr>
<th>Item</th>
<th>Calories</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Big Mac</td>
<td>870 Cal.</td>
<td>$8.19</td>
</tr>
<tr>
<td>2 Cheeseburgers</td>
<td>920 Cal.</td>
<td>$6.38</td>
</tr>
<tr>
<td>Quarter Pounder w/ Cheese</td>
<td>830 Cal.</td>
<td>$8.19</td>
</tr>
<tr>
<td>Double Quarter Pounder w/ Cheese</td>
<td>1040 Cal.</td>
<td>$9.59</td>
</tr>
<tr>
<td>Crispy Chicken Sandwich</td>
<td>790 Cal.</td>
<td>$8.99</td>
</tr>
<tr>
<td>10 Pc. Chicken McNuggets</td>
<td>740 Cal.</td>
<td>$8.29</td>
</tr>
<tr>
<td>Filet-O-Fish</td>
<td>700 Cal.</td>
<td>$7.69</td>
</tr>
</tbody>
</table>
Plant-based food menu messages

90% of Americans are making the change to eat less meat. Join this growing movement and choose plant-based dishes that have less impact on the climate and are kinder to the planet.

Figure B | Percentage of Vegetarian Dishes Selected Compared to the Control Group among the Five Top-Performing Messages from Trial 1

- **Chicken Pasta**: Blackened chicken and diced tomatoes with spinach tortellini in an alfredo sauce
- **Baby Beck Ribs**: Tender ribs with smoky mesquite BBQ sauce, served with cole slaw and corn bread
- **Pacific Veggie Pizza**: Caramelized onions, roasted red peppers, black olives, mushrooms, and spinach over shredded mozzarella
- **Sirloin Steak**: Pan-seared sirloin steak, served sweet potato fries
- **Chicken Pot Pie**: Shredded chicken, carrots, onions, mushrooms and peas with a creamy herb sauce in a flaky pie crust
- **Butternut Squash Quinoa Bowl**: Roasted butternut squash, sliced avocado, toasted chile peppers, and pumpkin seeds over quinoa, with a roasted red pepper sauce
- **BBQ Chicken Pizza**: Diced chicken, red onion, smoked Gouda cheese and fresh mozzarella with BBQ sauce
- **Classic Meatloaf**: Their sliced ground beef slow-baked in a classic tomato sauce with onions, served with roasted vegetables, mashed potatoes and gravy

Blondin 2022
Marketing

- Restrict media advertising
- Restrict advertising in schools
- Restrict promotions
- Require healthy foods in prominent locations/restrict unhealthy product locations
- Challenge deceptive and discriminatory marketing
- Countermarketing
- Restrict sales of unhealthy products
- Retailer incentives

Research Questions

- Effects on sales and consumption
- Deception
- Effects on diet quality
- Change in marketing practices
- Change in product lines
Advertising restrictions
Amsterdam and London

6.7% decrease in weekly household calories purchased from HFSS
(1000 cal/week)
“Advertising on property owned or controlled by the City, including but not limited to any street furniture, bus shelter, bike shelter, newsstand, phone booth, Wi-Fi kiosk, or recycling kiosk, shall require advertising of food products to promote or feature only such healthy foods”
An advertisement concerning a food or food product shall not be false or misleading.

Special consideration given to ads directed at children.

The attorney general, or a city may bring an action in the supreme court or federal district court to enjoin and restrain such violations and to obtain restitution and damages.*

Any person, firm, corporation or association that has been damaged... shall be entitled to bring an action for recovery of damages or to enforce this section in the supreme court or federal district court.

* Attorneys General can also pursue action against deceptive marketing under existing consumer protection laws.
Promotions of unhealthy foods restricted from October 2022

Following consultation with industry, the government will restrict unhealthy food promotions in stores from October 2022.
Healthy retail

- Allow promotion of only healthy foods at checkout aisles, endcaps and other promotional displays
- Permit stocking of unhealthy products only in less accessible locations
- Minimum pricing/price promotion restrictions
- Conditional licensing
- Age restrictions on purchasing
- Regulating cooperative marketing agreements (advertising, category management, slotting fees)
Countermarketing

DON'T BE FOOLED BY FRUIT DRINKS
A Social Media Countermarketing Toolkit to Reduce Fruit Drink Purchases

THE TRUTH IS HARD TO SWALLOW

SUGARY FRUIT DRINKS ARE NATURALLY
ROTTING YOUR KIDS' TEETH

THINK AGAIN, it's not fruit in this drink, it's FAT!

They are "toddler milks."

These claims may sound great...

...but they are NOT supported by science.

IT'S JUST MARKETING HYPE!!!
Kids’ meals

- Montgomery County first to include food as well as beverages
- Implementation limited with menus and servers inconsistently offering default beverages
- No real-world evidence on effects on foods ordered or consumed
- Online RCT found no effects
Local/regional food policy plans

Offices of food policy

Such plan shall, at a minimum, make recommendations relating to:
(a) Reducing hunger;
(b) Improving nutrition;
(c) Increasing access to healthy food;
(d) Reducing food waste;
(e) Developing and improving food and farm economies; and
(f) Increasing urban agriculture and sustainability.

Food waste and rescue

NY State S.4176 requires supermarkets to make excess food available to emergency food system

- **Prevention**
  Prevent food that is wasted.

- **Rescue**
  Collect edible food and ensure it reaches those who need it.

- **Recovery**
  Support productive uses of inedible food materials (e.g. for animal feed, energy production through anaerobic digestion, and composting)
Food Hubs
Child nutrition priorities: Congress

Increase access
• Healthy school meals for all
• Make summer EBT permanent
• Make P-EBT permanent
• Expand access to summer and CACFP meals, WIC
• Keep pandemic enrollment flexibilities

Maintain and strengthen nutrition
• Protect and strengthen school meal nutrition standards
• Expand Fresh Fruit and Vegetable Program

Provide financial support
• Increase school meal reimbursement
• Provide additional financial relief for schools

Improve school food environment
• Fund kitchen equipment
• Fund safe drinking water
• Address adequate time to eat
• Establish additional grant programs that support school meals

Tribal Sovereignty
• Allow tribes to operate child nutrition programs

Source: modified from Colin Schwartz (CSPI)
What can the Administration do?

**Nutrition security efforts:**
- Update school meal nutrition standards
- $100 million for healthy school meals
- WIC food package update
- WIC online
- Tribally-led nutrition initiatives

*Source: modified from Colin Schwartz (CSPI)*
Farm Bill

- Keep flexibilities for enrollment and recertification in SNAP and WIC
- Eliminate SNAP time-limits for able-bodied adults without dependents
- Online SNAP pilot and WIC purchasing programs
- Expand GusNIP
Dietary Guidelines for Americans
Dietary Guidelines for Americans

Proposed scientific questions

- Included
  - **Equity – strengthen**
  - Dietary patterns and set of health outcomes (weight, CVD, T2D, cancer, cognitive functioning, bone and muscle health)
  - **Ultraprocessed foods and weight**
  - Dietary patterns and pregnancy (gestational DM, hypertensive disorders, gestational age a birth, birthweight)
  - **Complementary foods and beverages**
  - Beverage patterns and weight and T2D
  - Added sugars and weight and T2D
  - Saturated fat and CVD
  - Childhood feeding practices
  - Timing of eating occasions
  - Other specific food-based strategies
  - Food pattern modeling including current US-Style, Mediterranean, Vegetarian

- Separate processes
  - Alcoholic beverages
  - Sustainability and climate change

https://www.dietaryguidelines.gov/work-under-way/submit-comment
Audience Discussion
Innovation through Collaboration

Breakout Session #1
- Room 1: WIC Research + Early Childhood
- Room 2: COVID-19 Food & Nutrition + School Wellness
- Room 3: Food Policy Councils + Food Service Guidelines
- Room 4: Healthy Food Retail + Rural Food Access
- Room 5: Food Security + Drinking Water

Breakout Session #2
- Room 6: School Wellness + Early Childhood
- Room 7: Rural Food Access + Food Security
- Room 8: COVID-19 + Food Policy Councils
- Room 9: Healthy Food Retail + Food Service Guidelines
- Room 10: Drinking Water + WIC Research
Innovation through Collaboration

We will use Jamboard to brainstorm ideas based upon the provided discussion questions.

Each breakout room will have their own Jamboard frame:
- Click through the frames to find your Jamboard slide; The frame number will correspond with your breakout room number.
- Use the sticky notes or text icons on the left to jot down ideas.
- Everyone will have access, so multiple people can take notes, or you can designate a single note taker.

![Jamboard interface](image)
Discussion Questions:
• What are the mutual areas of interest and alignment between your WGs?
• Are there specific projects where your WGs could work together?
  • Cross-promoting or co-hosting a WG call
  • Joint project
  • Cross-fertilization of WG members into existing projects in the other WG
  • Brainstorming sessions

Add your notes/action items to the JamBoard!
We’ll ask one person to report out at the end of the session
Innovation through Collaboration

Join your breakout room!

Room 1: WIC Research + Early Childhood
Room 2: COVID-19 Food & Nutrition + School Wellness
Room 3: Food Policy Councils + Food Service Guidelines
Room 4: Healthy Food Retail + Rural Food Access
Room 5: Food Security + Drinking Water
Innovation through Collaboration

Join your breakout room!

Room 6: School Wellness + Early Childhood
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Room 10: Drinking Water + WIC Research
Thank you!

The findings in this presentation are those of the author and do not represent the official views of the Centers for Disease Control & Prevention or Department of Health and Human Services.