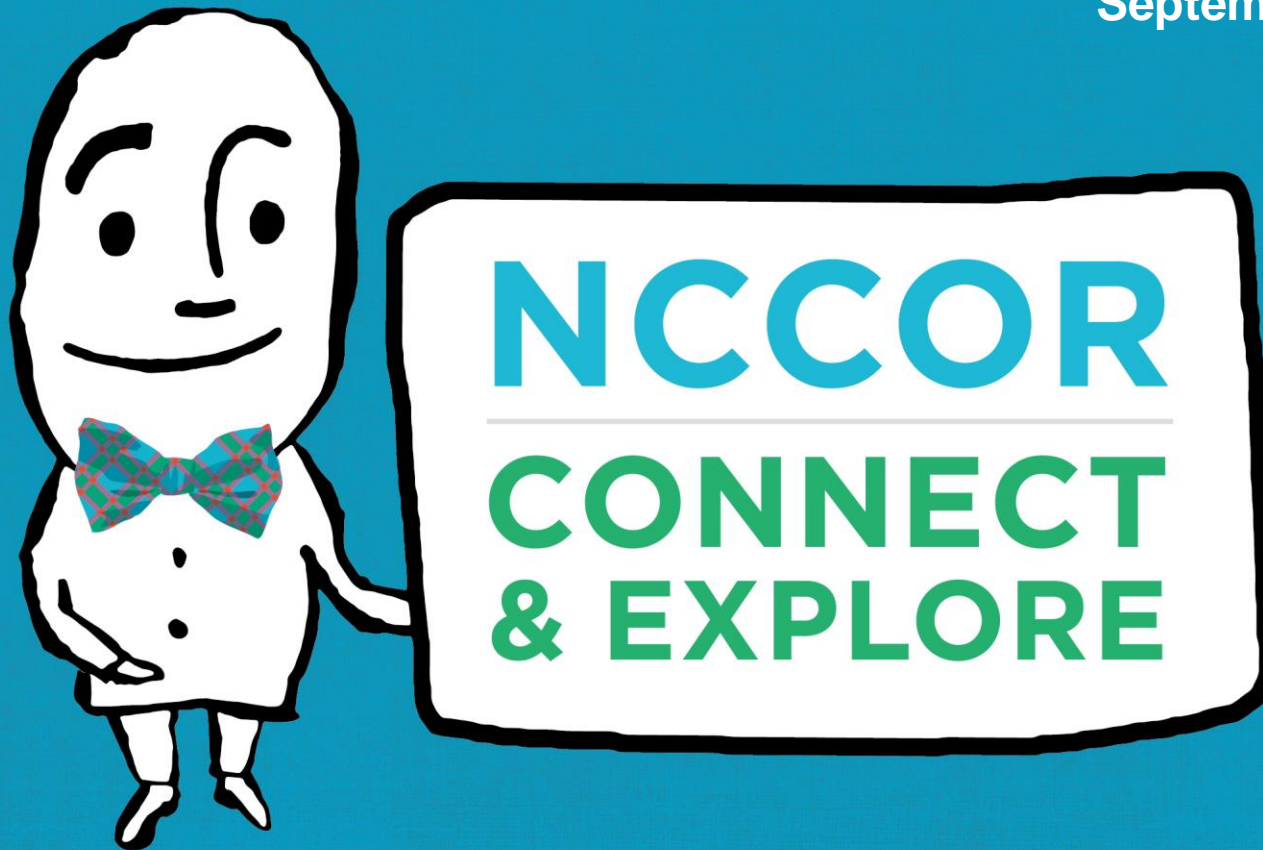


September 18, 2019

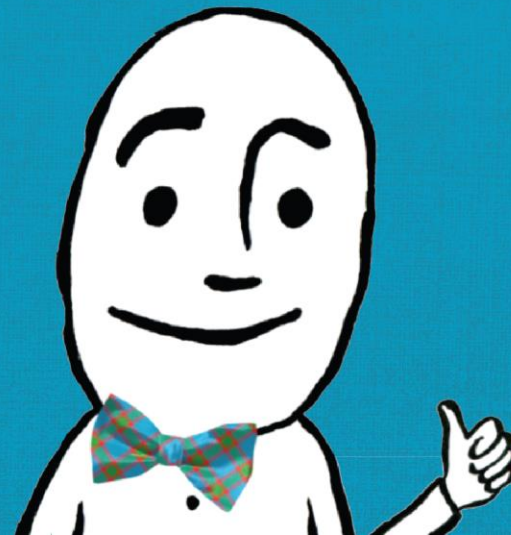


Connecting you with experts. Exploring the latest childhood obesity news and research.

We will begin at 3:05 to allow participants time to join the webinar.

1. Spotlight: Measures Registry Learning Modules: Helping You Understand Measurement Concepts and Approaches for Diet and Physical Activity Research
2. One on One with the authors of the Learning Modules
3. NCCOR Announcements

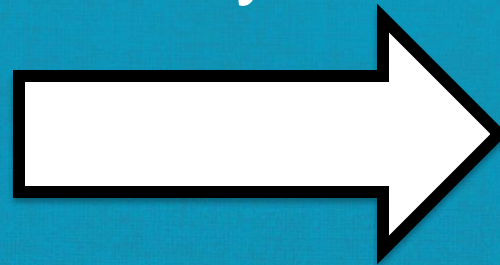
# TODAY'S PROGRAM





# Need technical assistance? Have a question for our speakers?

Type your question(s) in the chat box  
located on the right and a representative  
will respond shortly.



Join the conversation on social media

**#ConnectExplore**



Follow **@NCCOR**

**NCCOR**  
CONNECT  
& EXPLORE



# Today's Conversation



**David Berrigan,  
PhD, MPH**  
National Institutes of  
Health



**Leslie Lytle, PhD**  
University of North  
Carolina, Chapel Hill



**Sharon Kirkpatrick,  
PhD, RD**  
University of Waterloo

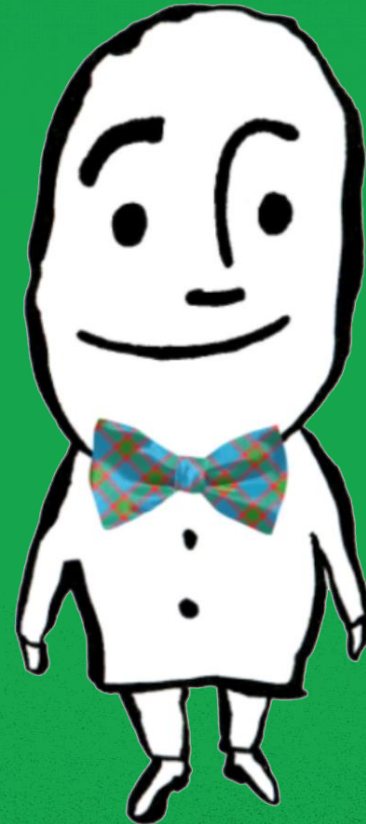


**Jordan Carlson, PhD**  
Children's Mercy Kansas City



**Gregory Welk, PhD**  
Iowa State University

# INTERACTIVE POLL







# The NCCOR Measures Registry Learning Modules: An Overview

David Berrigan, PhD, MPH  
Program Director  
Behavioral Research Program  
National Cancer Institute  
National Institutes of Health  
[berrigad@mail.nih.gov](mailto:berrigad@mail.nih.gov)





The nation's health research engine



The nation's largest philanthropy devoted to health



The nation's public health agency



The nation's leader on farming and food

**THE FOUR LARGEST FUNDERS OF CHILDHOOD OBESITY RESEARCH JOINED FORCES TO FORM**





IDENTIFY, DESIGN, AND EVALUATE INTERVENTIONS



INCREASE AND IMPROVE SURVEILLANCE



IMPROVE CAPACITY TO CONDUCT RESEARCH AND PROGRAM EVALUATION



PROVIDE NATIONAL LEADERSHIP TO ACCELERATE IMPLEMENTATION THROUGH COMMUNICATION AND OUTREACH



WORK WITH NON-HEALTH PARTNERS TO INTEGRATE CHILDHOOD OBESITY PRIORITIES



## Standard measures are needed for:



**Research and evaluation related to the causes of childhood obesity**



**Interventions to prevent and treat obesity in children**



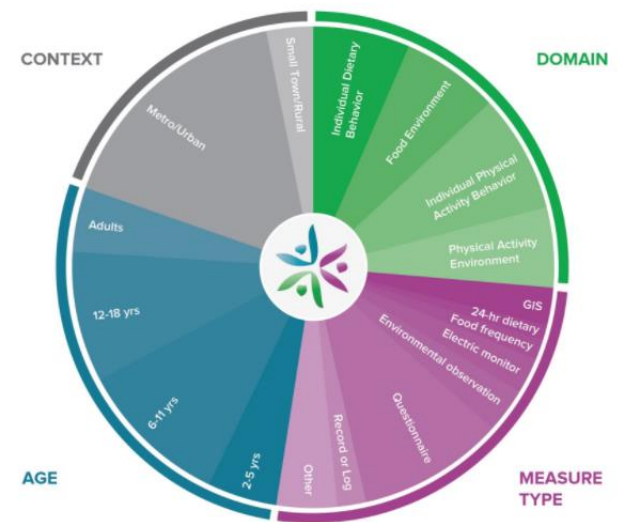
**Programs and policies concerning individual and environmental determinants of childhood obesity**



**Progress towards identification and implementation of evidence-based interventions, programs, and policies**

# Measures Registry


- Launched in 2011, the Measures Registry is a web-based portfolio of nearly 1,400 studies on more than 100 discrete measures related to diet and physical activity.
- Measures are categorized into four domains:
  - Individual Diet
  - Food Environment
  - Individual Physical Activity
  - Physical Activity Environment





# NCCOR.org/measures



[News](#) [Funding Opportunities](#) [Members](#) [Contact](#) 

[ABOUT](#) [PROJECTS](#) [TOOLS](#) [WEBINARS](#) [PUBLICATIONS](#) [EVENTS](#) [RESOURCES](#)

[HOME](#) > [TOOLS](#)

[CATALOGUE OF SURVEILLANCE SYSTEMS](#)

[MEASURES REGISTRY](#)

[MEASURES REGISTRY USER GUIDES](#)

[REGISTRY OF STUDIES](#)

[SNAP-ED](#)

[YOUTH COMPENDIUM OF PHYSICAL ACTIVITIES](#)

## Measures Registry

The Measures Registry is a searchable database of diet and physical activity measures relevant to childhood obesity research. Its purpose is to standardize use of common measures and research methods across childhood obesity research at the individual, community, and population levels.

Measures are tools and methodologies used to assess individuals' diet, physical activity, and the environments in which these behaviors occur. Examples of measures include questionnaires, instruments, diaries, logs, electronic devices, direct observations of people or environments, protocols, and analytic techniques.

[SEARCH THE REGISTRY](#)

# Measures Registry User Guides


- Designed to:
  - Provide an overview of measurement
  - Describe general principles of measurement selection
  - Present case studies to walk users through the process of selecting appropriate measures
  - Direct researchers and practitioners to additional resources
- Cover the four domains of the Measures Registry





# NCCOR.org/mruserguides



[News](#) [Funding Opportunities](#) [Members](#) [Contact](#) 

[ABOUT](#) [PROJECTS](#) [TOOLS](#) [WEBINARS](#) [PUBLICATIONS](#) [EVENTS](#) [RESOURCES](#)

[HOME](#) > [TOOLS](#)

[CATALOGUE OF SURVEILLANCE SYSTEMS](#)

[MEASURES REGISTRY](#)

[MEASURES REGISTRY USER GUIDES](#)

[REGISTRY OF STUDIES](#)

[SNAP-ED](#)

[YOUTH COMPENDIUM OF PHYSICAL ACTIVITIES](#)

## Measures Registry User Guides

To help researchers choose the most appropriate measures for their work in childhood obesity, NCCOR has developed four Measure Registry User Guides. This project was funded through NCCOR's first strategic funding alliance with The JPB Foundation. The Measures Registry User Guides are designed to:

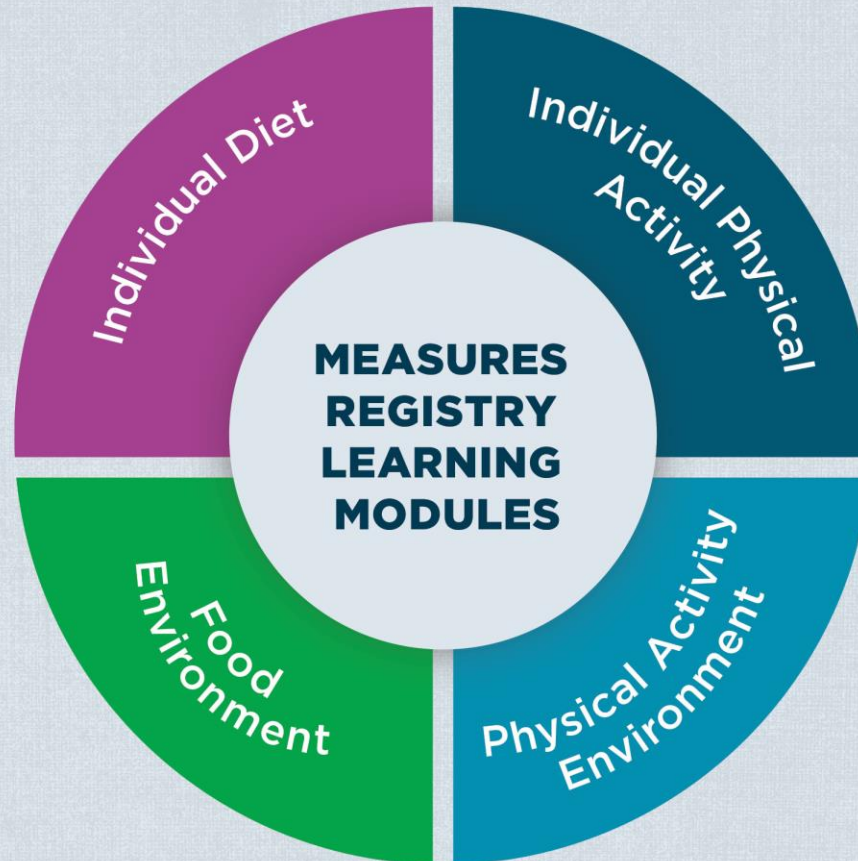
- Provide an overview of measurement
- Describe general principles of measurement selection
- Present case studies that walk researchers through the process of using the Measures Registry to select appropriate measures
- Direct researchers to additional resources and sources of useful information

Click the boxes below to access the User Guides.

WHAT'S HAPPENING IN



# JUST RELEASED



NCCOR's  
Measures Registry Learning Modules



# Measures Registry Learning Modules

- 17 modules; 4 for each domain and an introductory module
- Each module is 15 minutes or less
- Designed to
  - Introduce the domain
  - Highlight key topics
  - Demonstrate the process of choosing a measure via a case study
  - Test your knowledge with quiz questions following each module



# Nccor.org/mrmodules

HOME > TOOLS > MEASURES REGISTRY LEARNING...

CATALOGUE OF  
SURVEILLANCE SYSTEMS

MEASURES REGISTRY

MEASURES REGISTRY USER  
GUIDES

REGISTRY OF STUDIES

SNAP-ED

YOUTH COMPENDIUM OF  
PHYSICAL ACTIVITIES

## WHAT'S HAPPENING IN NCCOR NEWS

NCCOR Celebrates 10 Years During  
National Childhood Obesity Awareness  
Month

NCCOR's Global Reach

NCCOR at the 10th Biennial Childhood  
Obesity Conference!

Childhood obesity rates decline among  
WIC-enrolled children

NCCOR at Nutrition 2019

## Measures Registry Learning Modules

The Measures Registry Learning Modules are designed to complement the Measures Registry and Measures Registry User Guides and assist researchers and practitioners with choosing the best measures across the four domains of the Measures Registry: individual diet, food environment, individual physical activity and physical activity environment. The Learning Modules include an introductory module that provides an overview of the module series, as well as four modules for each of the four domains. Each module domain also includes a glossary, additional resources, and an interactive case study. The Learning Modules are a great tool for users who are newer to research and evaluation in diet and physical activity, or individuals who need a refresher on key concepts. The modules were also designed with students and faculty in mind and include short quizzes to enhance classroom learning and understanding of key concepts.

Access each learning module below.



**Introduction to the  
Measures Registry User  
Guide Module Series**



**Individual Diet**

**NCCOR**  
**CONNECT  
& EXPLORE**



# Measures Registry Learning Modules: Introduction

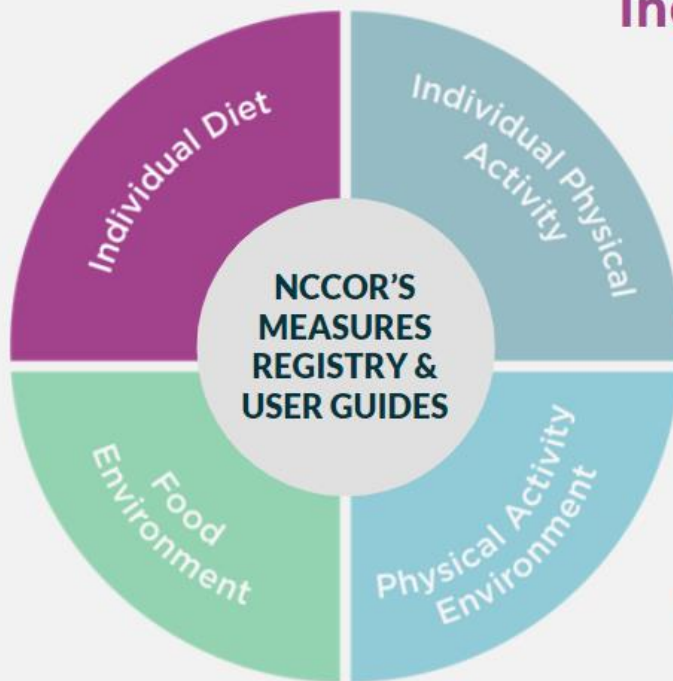
Welcome to the  
**Measures Registry  
Learning Modules**

[NAVIGATION HELP](#)





# Measures Registry Learning Modules: Individual Diet

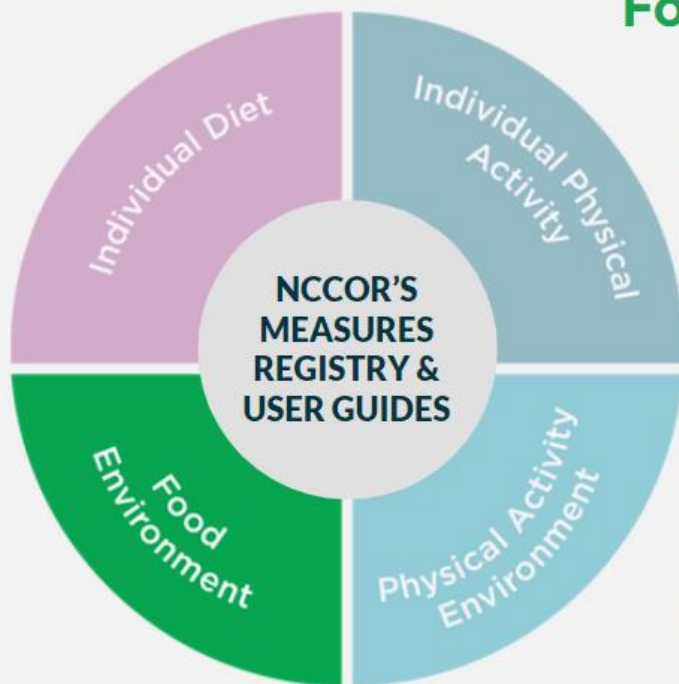


## Individual Diet

- 1** **Module 1:** Introduction to the Individual Diet Module Series
- 2** **Module 2:** Considerations for measuring diet in the context of childhood obesity research
- 3** **Module 3:** Overview of measures of individual diet
- 4** **Module 4:** Case Study: Assessing the effects of a home-based obesity intervention on preschool children's dietary behaviors

# Measures Registry Learning Modules: Food Environment

## Food Environment



1

**Module 1:** Introduction to the Food Environment Module Series

2

**Module 2:** Measuring the physical, social, and person-centered aspects of food environments

3

**Module 3:** Making decisions about what food environment tools to use

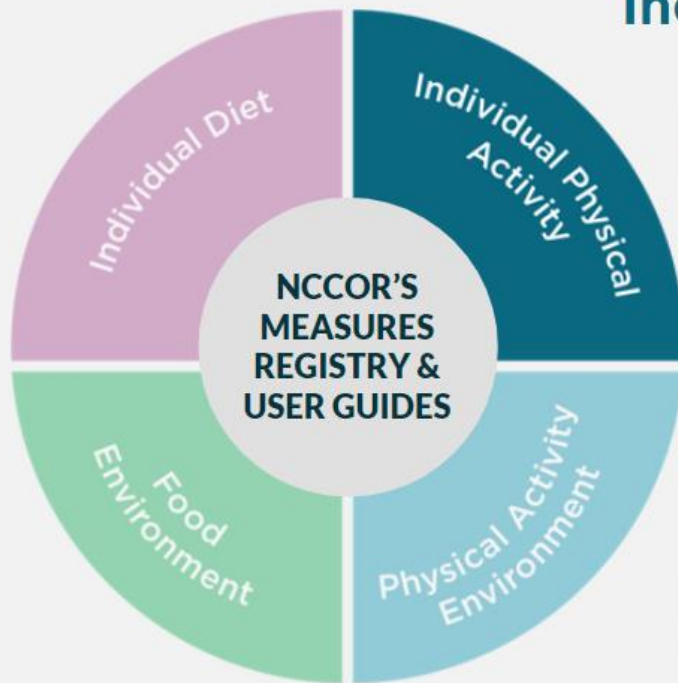
4

**Module 4:** Case Study: Evaluating a home-based intervention to reduce childhood obesity



# Measures Registry Learning Modules: Individual Physical Activity

## Individual Physical Activity



1

**Module 1:** Introduction to the Individual Physical Activity Module Series

2

**Module 2:** Processing, scoring, and interpreting physical activity data

3

**Module 3:** Selecting and using activity monitors

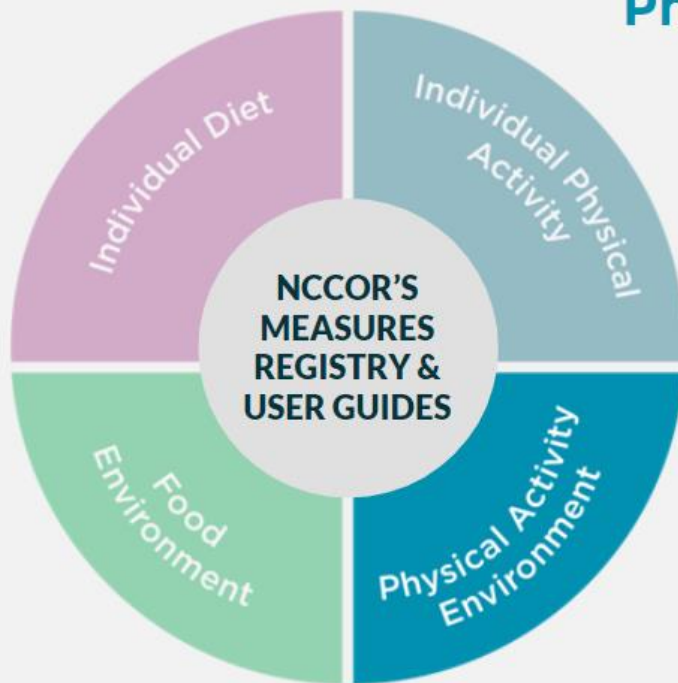
4

**Module 4:** Case Study: Understanding walking behaviors and barriers to active travel to school



# Measures Registry Learning Modules: Physical Activity Environment

## Physical Activity Environment



1

**Module 1:** Introduction to the Physical Activity Environment Module Series

2

**Module 2:** GIS-based measures for the physical activity environment

3

**Module 3:** Audit tools for physical activity environment assessments

4

**Module 4:** Case Study: Improving streetscapes and parks around schools

# Explore More Resources

## Individual Diet Glossary

**24-hour recall:** Short-term self-report tool aimed at capturing a comprehensive and detailed accounting of all foods, beverages, and in some cases, supplements, consumed on a given day. May reflect the prior day from midnight-to-midnight or the prior 24 hours. May be administered using a multiple-pass method to facilitate accurate recall.

**Biomarker:** Biological products that may provide indications of nutritional status or intake of particular dietary components

**Calibration:** Use of a reference dietary assessment measure to adjust for error in data from the main dietary assessment measure administered in a study or evaluation. For example, recovery biomarker data collected from a subsample may be used to adjust for error in self-report dietary intake data.

**Cognitive abilities:** The capacity to learn, remember, and pay attention.

**Contextual factors:** When, where, and with whom children consume meals and snacks, as well as other activities, like the use of tablets or other mobile devices children engage in while eating.

**Day-to-day variation:** Temporal variation in intake across days. Considered a source of error when our goal is to measure usual intake, even though it doesn't mean that individuals have misreported their intake for the given day. Related to dynamism.

**Dietary behaviors:** Dietary intake and related behaviors, such as snacking and meal skipping.



## Suggested Citation

National Collaborative on Childhood Obesity Research. (2019, August). Measures Registry Learning Modules. Retrieved from <https://www.nccor.org/nccor-tools/measures-registry-learning-modules/>.

## Food Environment Resources

[Food Environment User Guide](#)

[NCCOR Measures Registry](#)

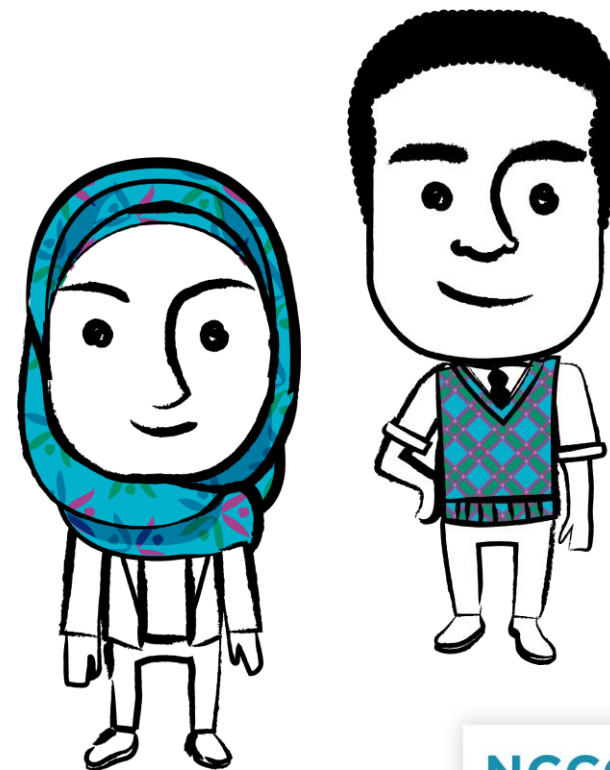
[Suggested Process for Using the Measures Registry](#) [PDF]

### Module 2

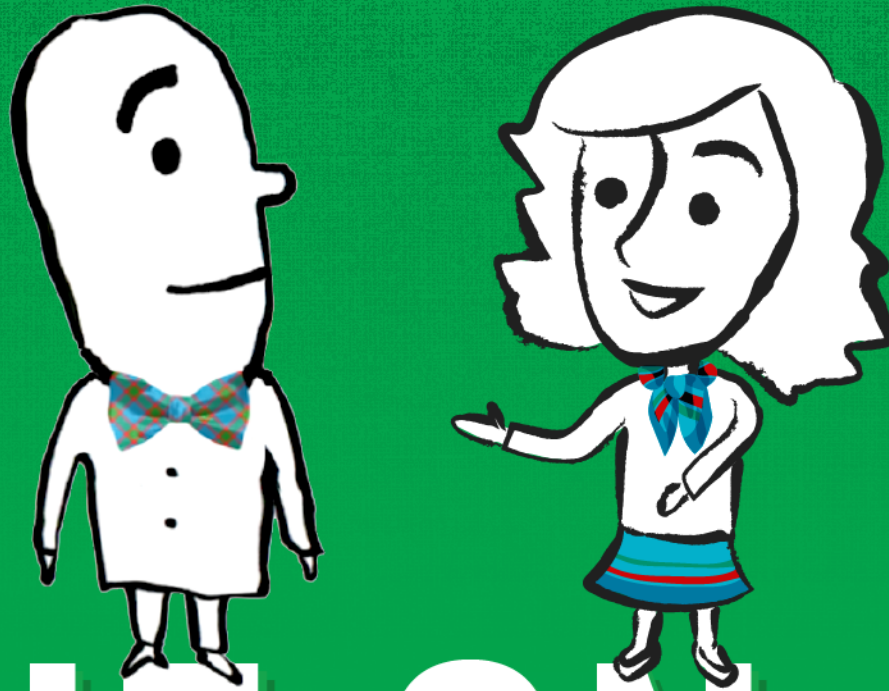
- [Food Environment Domains, Sub-Domains, and Examples of Measures](#)
- [Nutrition Environment Measures Survey \(NEMS\)](#)
- [Nutrition Environment Measures Survey in Stores \(NEMS-S\)](#)
- [Parenting strategies for Eating and Activity Scale \(PEAS\)](#)
- [Child and Adolescent Trial for Cardiovascular Health \(CATCH\). Health Behavior Questionnaire \(HBO\)](#)
- [The Effects of the Child and Adolescent Trial for Cardiovascular Health upon Psychosocial Determinants of Diet and Physical Activity Behavior](#)
- [School Health Policies and Practices Study \(SHPPS\)](#)
- [Actor-Partner Interdependence Model](#), from Kenny, D. A., Kashy, D. A., & Cook, W. L. (2006). *Dyadic Data Analysis*. New York, NY: Guilford Press.
- [Social Network Analysis](#), from Valente, T. W. (2010). *Social Networks and Health: Models, Methods, and Applications*. New York, NY: Oxford University Press.
- [Reliability Definitions, Measures, Applications to, and Examples from Food Environment Measurement](#)
- [Validity Definitions, Measures, Applications to, and Examples from Food Environment Measurement](#)

### Module 4

- [Home Food Inventory \(HFI\)](#)
- [Child Feeding Questionnaire \(CFQ\) for 5 to 14 Year Olds](#)
- [Confirmatory factor analysis of the Child Feeding Questionnaire: a measure of parental attitudes, beliefs and practices about child feeding and obesity proneness](#)





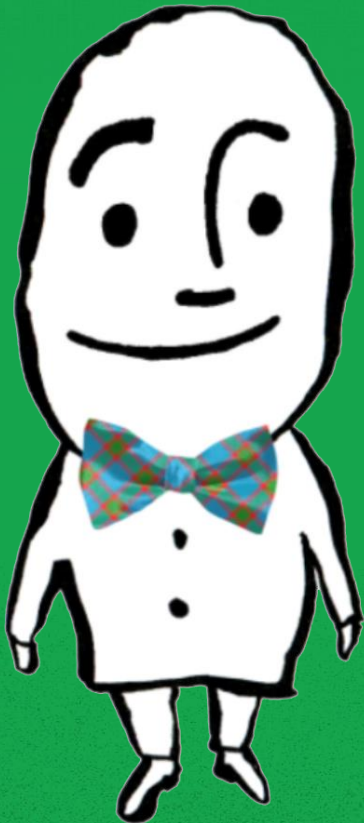


ONE ON ONE



# QUESTIONS?

Please type your question(s) in the chat box located on the right.



# Ask the Authors!



Sharon Kirkpatrick

Individual Diet



Leslie Lytle

Food Environment



Greg Welk

Individual Physical  
Activity



Jordan Carlson

Physical Activity  
Environment



# Emailed Question 1

What are the advantages of using Measures Registry Learning Modules?

## Emailed Question 2

I teach kinesiology courses related to measurement and evaluation of physical activity, can you provide an example of how I can best incorporate the modules into my curriculum?



# Ask the Authors!



Sharon Kirkpatrick

Individual Diet



Leslie Lytle

Food Environment



Greg Welk

Individual Physical  
Activity



Jordan Carlson

Physical Activity  
Environment

## Emailed Question 3

As a public health practitioner, I am working on a project with our local parks and recreation department to improve their food environment. How can I use the Measures Registry Learning Modules to determine which food environment measures to include in our project?



## Emailed Question 4

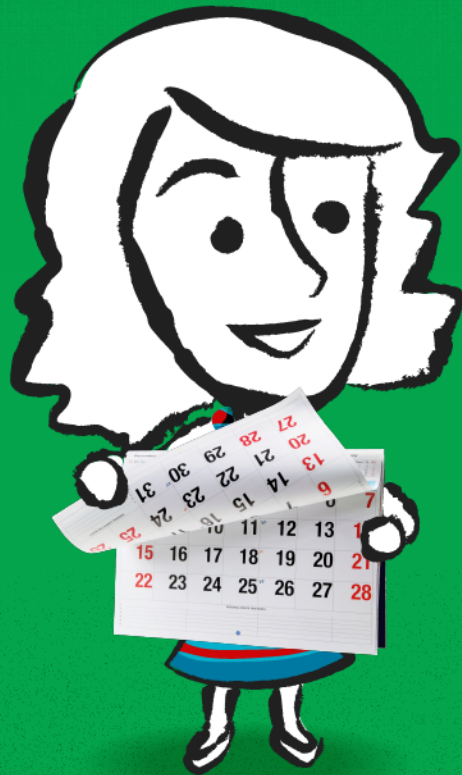
I would like to examine walkability in my local community. Do I have to know how to use ArcGIS software to use the environmental measures listed in the Registry?

# Emailed Questions

1. How long are each of the Learning Modules?
2. Are there Continuing Education Units available for completing the Learning Modules?
3. Are the Learning Modules free to access?



# UPCOMING EVENT



# Connect & Explore Webinar

## Using the Measures Registry Learning Modules: An In-Depth Look

- The next Connect & Explores will highlight how practitioners and students can use the Measure Registry Learning Modules for their work
  - If you are a student or practitioner that has used or plans to use the Learning Modules, tell us how by emailing [nccor@fhi360.org](mailto:nccor@fhi360.org). You could be one of our featured speakers on the next webinar!
- Coming in Fall 2019
- Sign-up for our newsletter to be the first to know about this and other NCCOR events!



# Meet us at APHA

- November 3–6, Philadelphia, PA
- Booth 1232

We will have additional materials on the learning modules and other NCCOR resources!



**APHA 2019**

ANNUAL MEETING & EXPO  
PHILADELPHIA | NOV. 2–6

CREATING THE HEALTHIEST NATION:  
FOR SCIENCE. FOR ACTION. FOR HEALTH.

**NCCOR**  
CONNECT  
& EXPLORE

# FURTHER QUESTIONS?

Other questions about NCCOR  
or upcoming activities?

Email the NCCOR Coordinating Center  
[nccor@fhi360.org](mailto: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!



**NCCOR**  
CONNECT  
& EXPLORE