

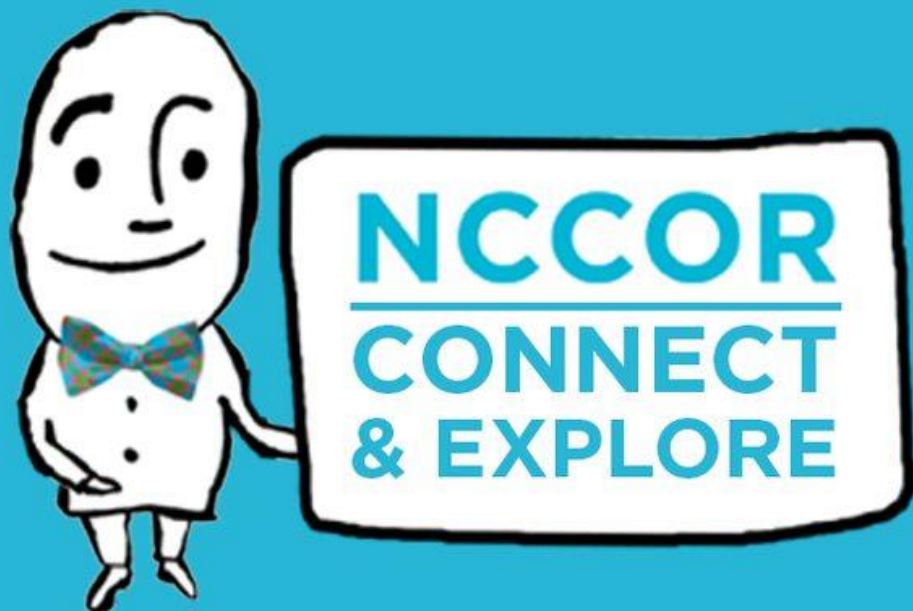
**NCCOR**

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& EXPLORE**



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



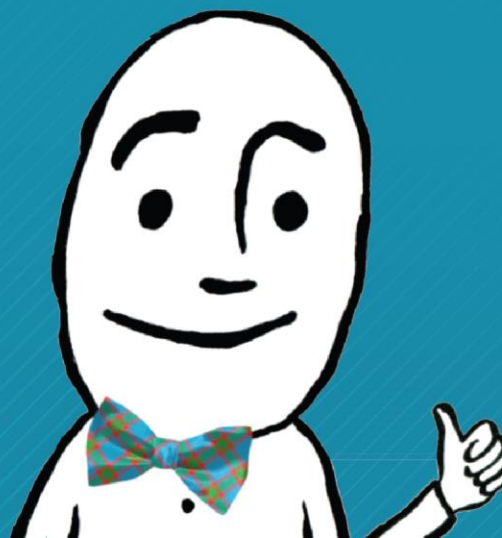
**NCCOR Showcase:**  
Highlighting New Projects,  
Tools, and Resources

Wednesday, February 10, 2-3pm ET

## **NCCOR Showcase: Highlight Projects, Tools, and Resources**

1. **Overview of NCCOR** – Laura Kettel Khan, Centers for Disease Control and Prevention
2. **Measurement** – David Berrigan, National Institutes of Health
3. **Early Childhood (0–5)** – Deborah Young-Hyman, National Institutes of Health
4. **Physical Activity** – Heather Devlin, Centers for Disease Control and Prevention
5. **Looking Ahead** – Drew Bremer, National Institutes of Health
6. **Q&A** – NCCOR Steering Committee
7. **NCCOR Announcements**

# **TODAY'S PROGRAM**



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# Today's Conversation



**Laura Kettel Khan, PhD, MIM**  
Centers for Disease Control  
and Prevention



**Heather Devlin, MA**  
Centers for Disease Control  
and Prevention



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



**Andrew Bremer, MD, PhD**  
National Institutes of Health

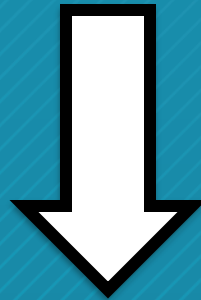


**Deborah Young-Hyman, PhD**  
National Institutes of Health



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

Type your question(s) by clicking the  
Q&A icon located below and  
representative will respond shortly.



Join the conversation on social media

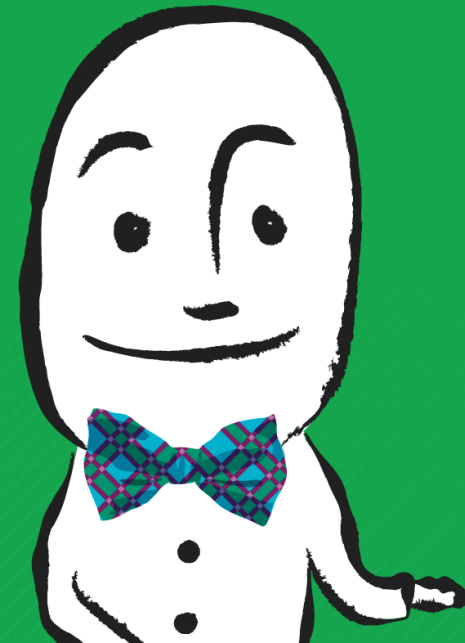
**#ConnectExplore**



Follow **@NCCOR**

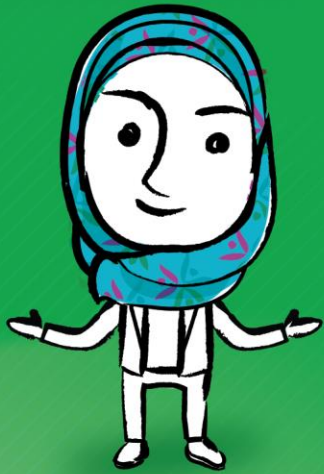
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# INTERACTIVE POLL



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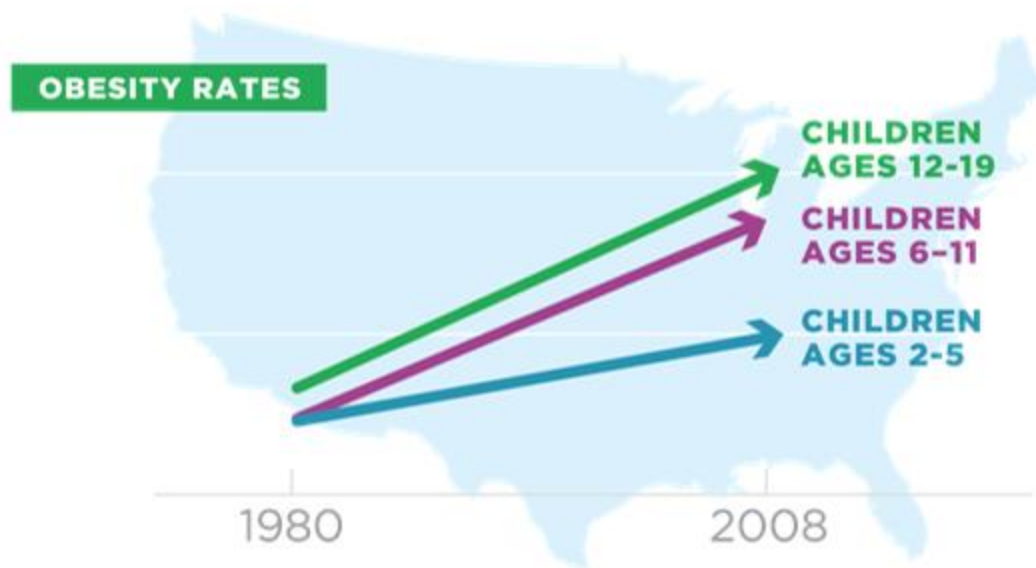
# SPOTLIGHT





NCCOR launched in 2009  
with a clear vision in mind:

# to address the problem of childhood obesity in America



NCCOR set  
as its mission:

**to accelerate progress**

in reducing childhood obesity

**through collaboration  
and joint action**

to improve the efficiency  
and effectiveness  
of research



The nation's public health agency



The nation's health research engine



The nation's largest philanthropy devoted to health



The nation's leader on farming and food

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



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# NCCOR Goals



**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-traditional Health Partners to Integrate Childhood Obesity Priorities**

# 2020 Projects



**Advancing Measurement for Childhood Obesity Research**



**A Toolkit for Evaluating Healthy Weight Programs**



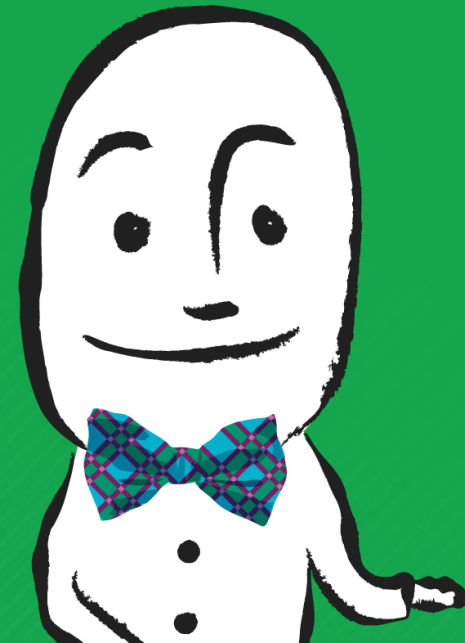
**Economic Impact of Built Environment Improvement for Physical Activity**

**Youth Active Travel to School (ATS) Surveillance Initiative**



# MEASUREMENT

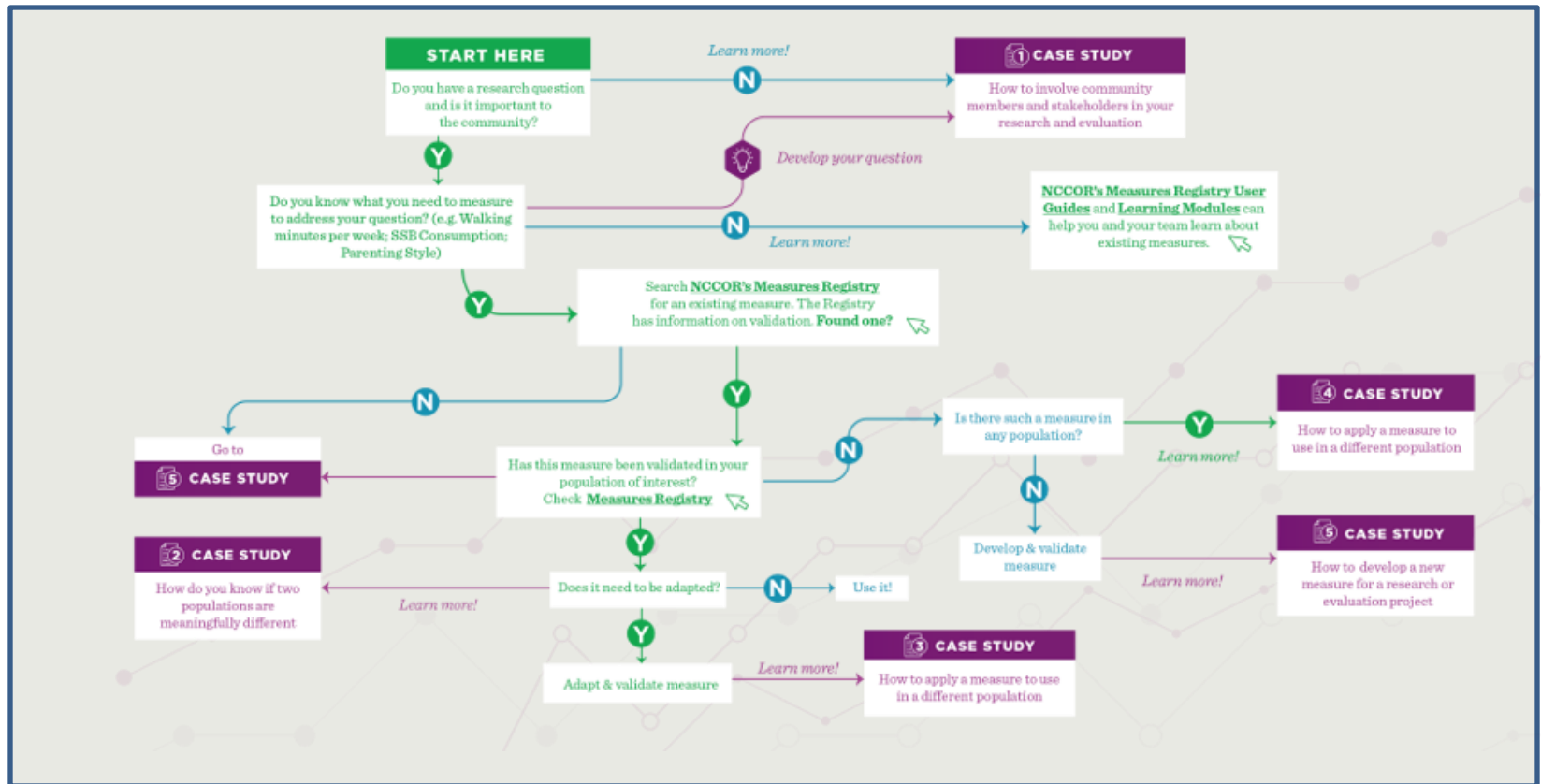
- Measures for Children at High Risk for Obesity Decision Tree
- A Guide to Methods for Assessing Childhood Obesity



# Measurement Needs for High Risk Populations

- Children and their families at high risk for obesity are often under-represented in validation studies.
- However, culturally and linguistically appropriate instruments are important for interventions and research.
- Fewer than 1 in 5 articles in **NCCOR's Measures Registry** were applied, adapted, or developed for high-risk populations.
- In 2019-2020, NCCOR
  - Conducted a review of current articles in the Measures Registry (Foti et al. 2020)
  - Hosted an expert panel and workshop to identify priorities and develop guidance

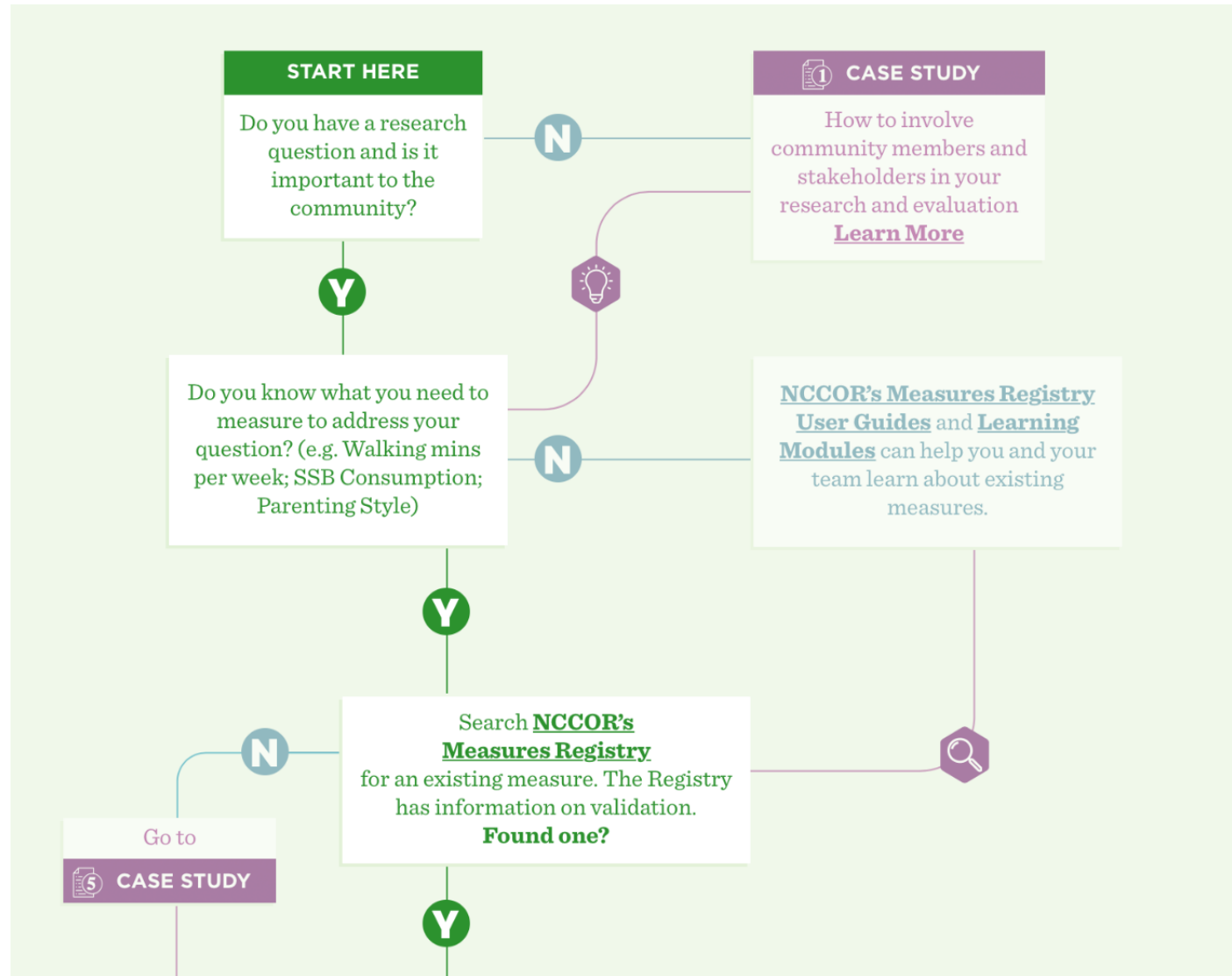
# A Decision Tree to Guide Measures Adaptation



You can find the decision tree at [nccor.org/decision-tree](https://nccor.org/decision-tree).



# A Closer Look



# Case Study Scenarios

1

How to involve communities and stakeholders in your research and evaluation project?

2

How to determine whether a population has unique characteristics that require measures adaptation?

3

How to adapt a measure for use in a different population?

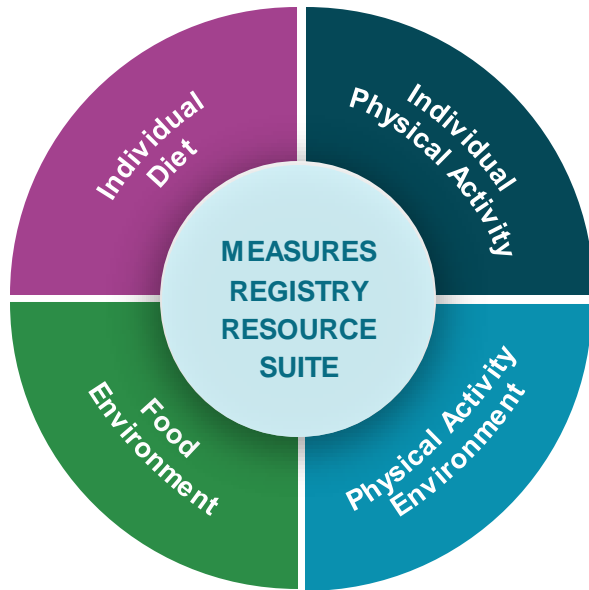
4

How to apply a measure to use in a different population?

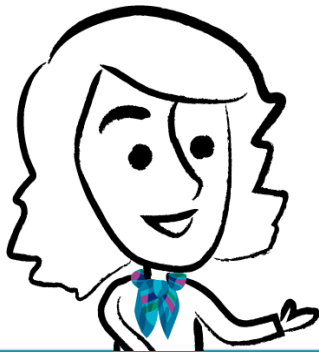
5

How to develop a new measure for your research/ evaluation project?

# Measures Registry Resource Suite



[nccor.org/mrresourcesuite](http://nccor.org/mrresourcesuite)



## MEASURES REGISTRY

A searchable database of more than 1,400 diet and physical activity measures relevant to childhood obesity research

## MEASURES REGISTRY USER GUIDES

Designed to complement the Measures Registry and provide an overview of measurement, describe general principles of measure selection, and share additional resources

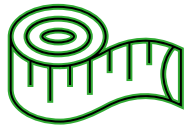
## MEASURES REGISTRY LEARNING MODULES

Consists of short, interactive videos to learn about the four domains of the Measures Registry: individual diet, food environment, individual physical activity, and physical activity environment. There are also quizzes to test your knowledge.

## MEASURES FOR CHILDREN AT HIGH RISK FOR OBESITY DECISION TREE

Walks researchers and practitioners through a series of questions regarding whether to develop, adapt, or apply an instrument for obesity measures in high-risk populations.

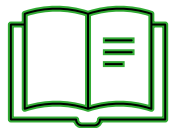
# A Guide to Methods for Assessing Childhood Obesity



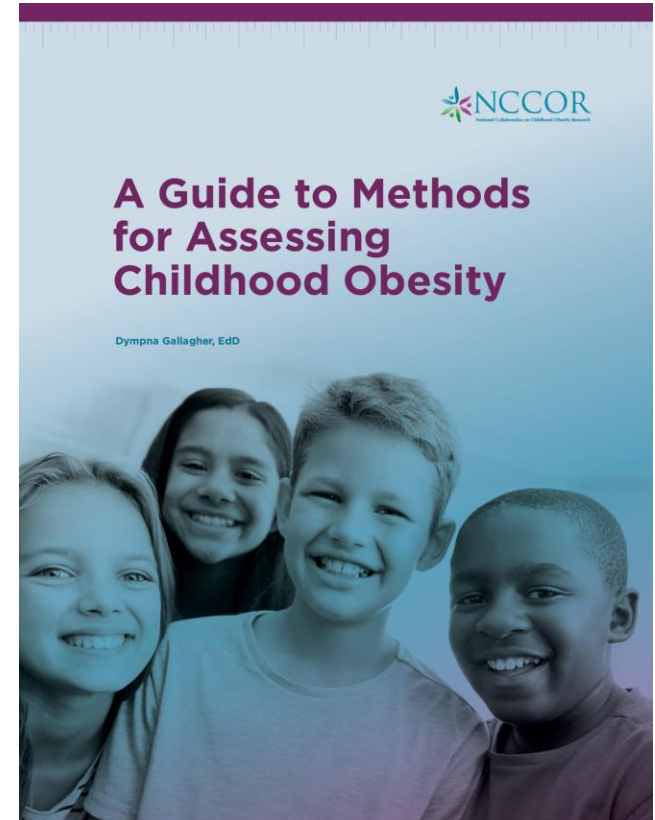
Assists users in selecting an appropriate adiposity measurement method



Describes **six commonly used methods** for assessing body composition in children

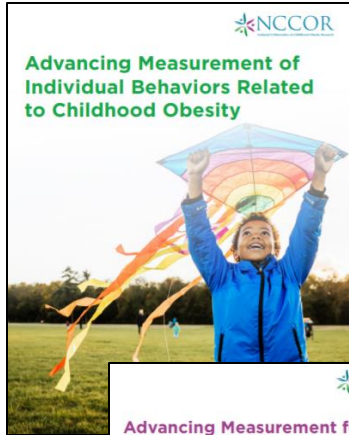


Includes **six case studies**



You can find the guide at [nccor.org/tools-assessingobesity-guide](https://nccor.org/tools-assessingobesity-guide)

# Looking Ahead



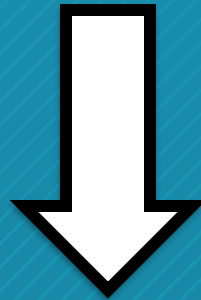
- NCCOR released three whitepapers in 2020 on Advancing Measurement containing 100+ research recommendations
  - Individual behavioral
  - High risk populations and communities
  - Environmental and policy influences

You can find them at

<https://www.nccor.org/projects/measurement-workshop-series/>

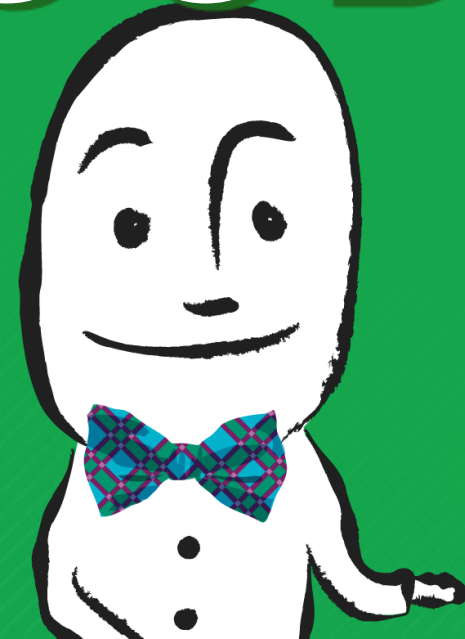
# Have a question for our speakers?

Type your question(s) by clicking the Q&A icon located below and we'll answer them during the Q&A.



# EARLY CHILDHOOD

- Childhood Obesity Evidence Base



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# Making Better Use of Evidence: COEB



# A Novel Approach to include all possible evidence:

- **Commonly accepted meta-analytic methods** for clinical trial results restrict content
  - only includes studies that meet *specific trial design and evaluation criteria* to conduct statistical aggregation of effect size.
  - The systematic review approach to aggregating evidence may include studies of varying types; however, comparability of evidence, study components, and design types may or may not be examined.
- A **taxonomic approach** to social science evidence aggregation makes use of evidence from diverse obesity prevention studies and initiatives
- COEB, an NCCOR activity funded by the NIH, published an example of this method and actual findings, in a Sept. 2020 supplement of *Childhood Obesity*.

# The Steps to the Method:

## Design Hierarchy

- Created a design hierarchy/architecture for study/report inclusion.

## Bibliography

- Created a topic-specific bibliography

## Article Coding & Taxonomy

- Created a coding system based on elements present in reports using a representative sample of 200 studies to produce a foundational taxonomy

## Manual of Procedures

- Formally documented coding procedures, including definition of taxonomy categories and elements used for article coding based on grounded theory.

## Taxonomy Review

- Reviewed and finalized taxonomy with vetting by NCCOR WG and the External Expert Panel

## Dataset

- Conducted a scoping review of US literature. Produced final comprehensive dataset of intervention studies coded using taxonomies

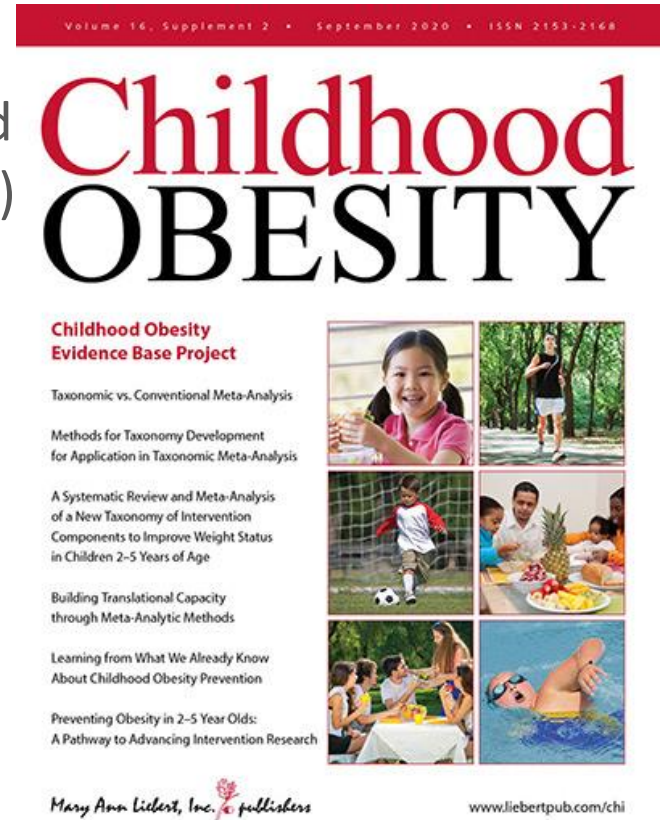
## Papers

- Produced rationale, methods, results, and implications papers for publication

# Childhood Obesity Evidence Base

## Products

- A scoping review of the literature regarding prevention efforts of childhood obesity (bibliography of included reports) interventions in this age group
- Identified successful approaches used to prevent childhood obesity in children aged 2 – 5 years
- Provide evidence of mechanisms, pathways including contextual elements, and implementation strategies to inform future efforts
- Provide instructions regarding how to implement this method



# Looking Ahead

## MANUAL OF PROCEDURES

Describe the methods and coding schema used to create this dataset

## TAXONOMY OVERVIEW

Four taxonomies were created:

- intervention components
- intended recipient characteristics
- intervention component context
- outcomes

## DATABASE INSTRUCTIONS

Outlines the development of the COEB dataset and instructions for use

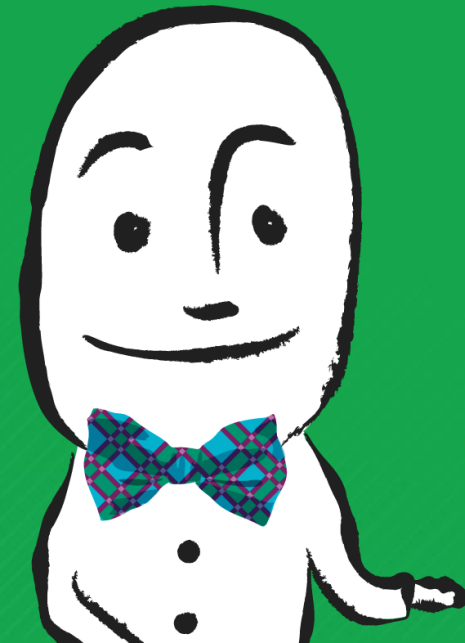
## DATABASE

Includes a dataset of 51 unique studies with **147 supplemental documents** of childhood obesity interventions to which taxonomic categorization or coding has been applied

Researchers can use the project documentation freely at [nccor.org/COEB](https://nccor.org/COEB)

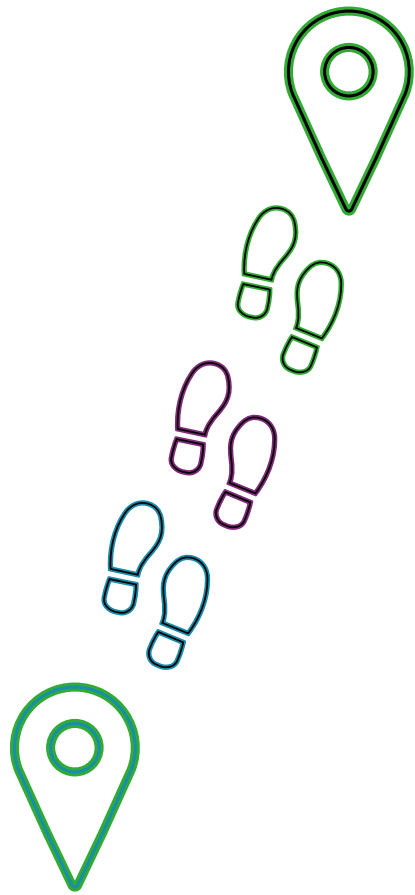
# PHYSICAL ACTIVITY

- Economic Impact of Built Environment Improvements Project
- Trail Use
- Youth Active Travel to School



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# Responding to a Need



Features of physical activity-friendly communities can be tied to both health and economic benefits

There is limited research identifying economic evidence to support and inform decision makers' choices for improvements to built environments

# Taking Action

NCCOR identified 72 indicators as an early step to better understand *non-health-related economic benefits* of built environment approaches to promote physical activity:



Walkability score



Number of small businesses



Vacancy rates



Vehicle miles traveled



Housing affordability



Life expectancy



Real estate property tax revenue



Air quality



Retail sales per square foot



Total number of jobs and total number of employed adults

# Looking Ahead



Developing a manuscript describing the project activities and findings



Distilling project findings into a summary to help guide research agendas



Organizing a follow-up expert consultation to identify how to continue to move this work forward



Proposing economic indicators to be piloted in the field



# Additional Physical Activity Projects

## ACTIVE TRAVEL TO SCHOOL VIRTUAL WORKSHOP OCTOBER 14–15, 2020

Workgroup is currently developing a white paper with recommendations

## TRAIL USE RESEARCH PUBLICATION

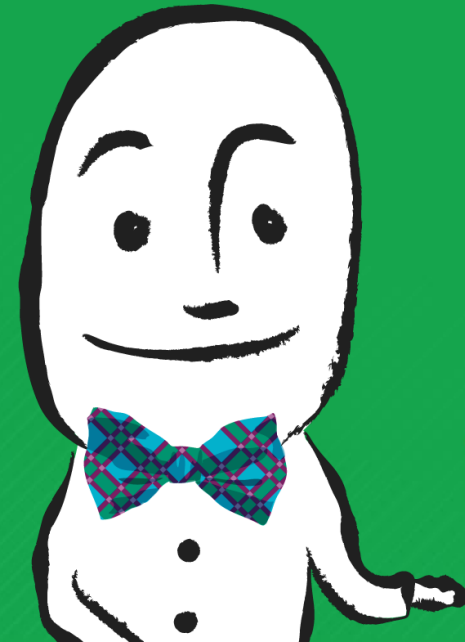
- Identification of Effective Programs to Improve Access to and Use of Trails among Youth from Under-Resourced Communities: A Review
- Published in the *International Journal of Environmental Research and Public Health*

## TRAIL USE PROGRAM BRIEF FOR PRACTITIONERS

Available on NCCOR website



# LOOKING FORWARD



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# Looking Forward

## FUTURE DIRECTIONS

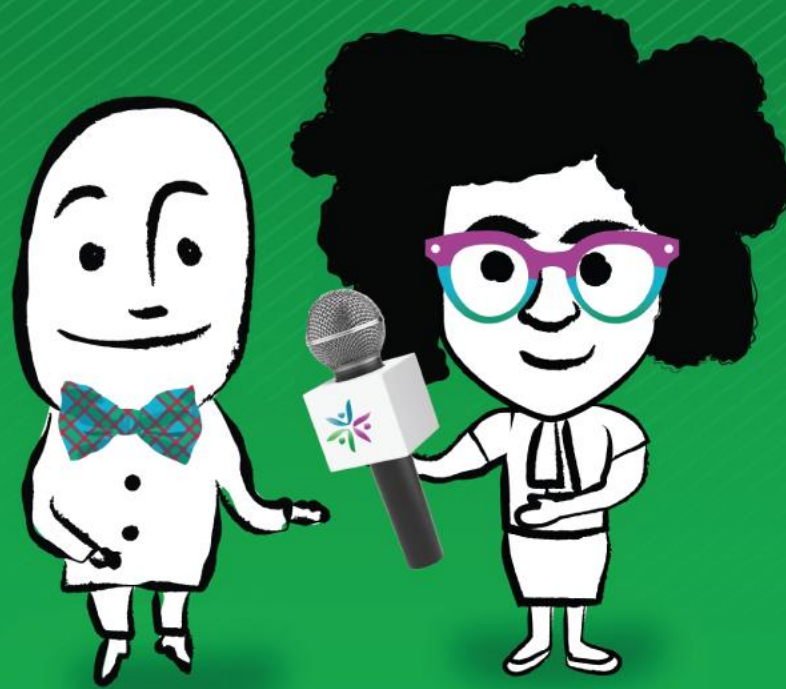
Address the impact of  
COVID-19 on obesity prevention

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Focus on the role that social  
determinants play in obesity

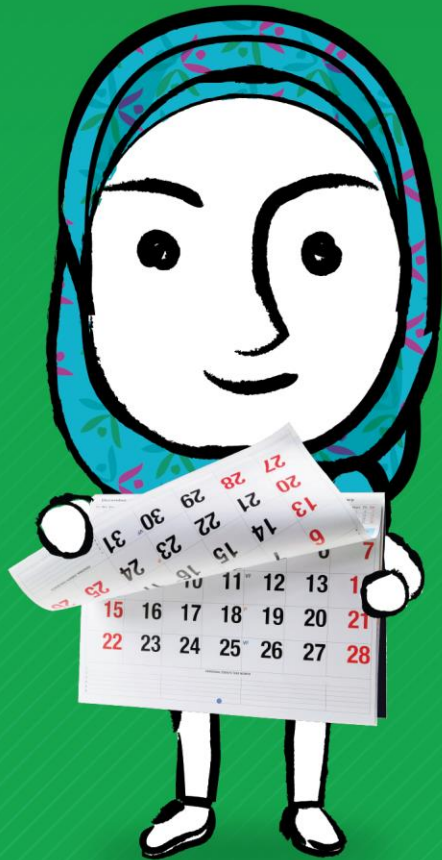
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Explore the influence of early  
childhood on obesity



# Q & A

# UPCOMING EVENTS



# Connect & Explore Webinar

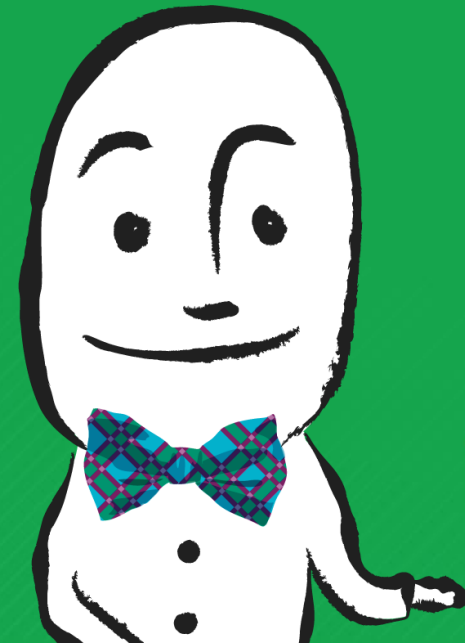
- Childhood Obesity Evidence Base: Using NCCOR's Newest Dataset to Examine Childhood Obesity Interventions
- Wednesday, March 24, 2–3 p.m. ET

# American Trails Webinar

- Effective Programs to Improve Access to and Use of Trails for Youth from Under-Resourced Communities
- Thursday, April 22, 1–2:30 p.m. ET



# ANNOUNCEMENTS



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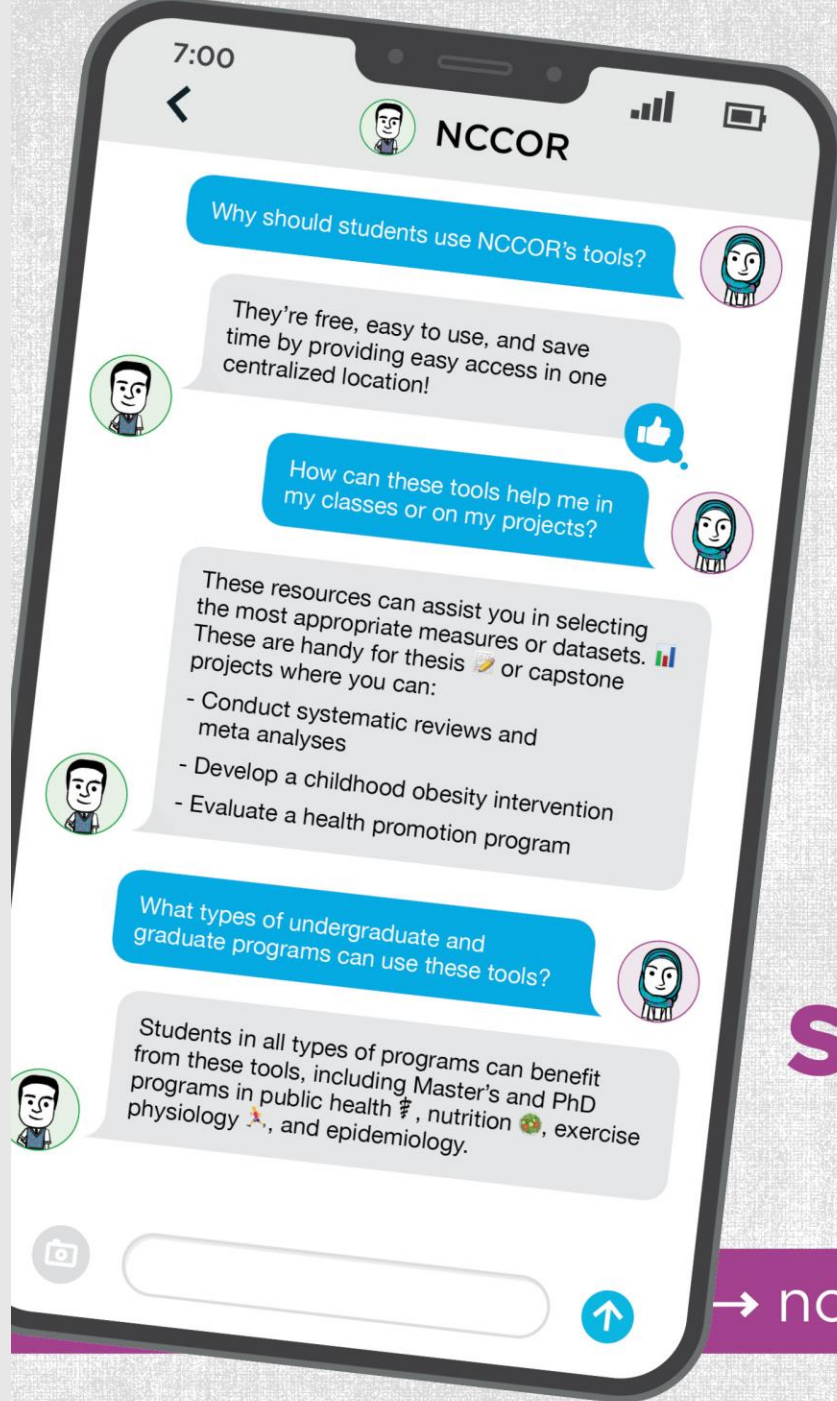




# Sign up!

NCCOR e-Newsletter

[NCCOR.org/enewsletter](https://nccor.org/enewsletter)



# Sign up for NCCOR Student Hub!

→ [nccor.org/e-newsletter](https://nccor.org/e-newsletter)

# Check out the student hub webpage!

Funding Opportunities External Resources Events Contact

ABOUT PROJECTS TOOLS WEBINARS NEWS PUBLICATIONS RESOURCES **STUDENT HUB**

## 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.

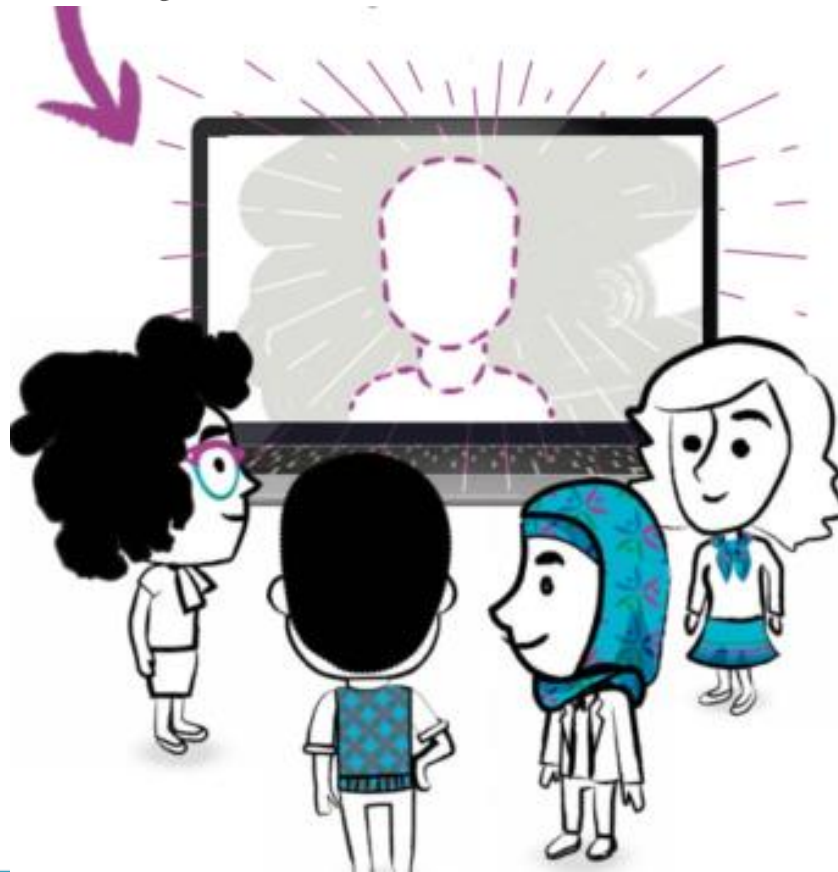
Be sure to select **STUDENT** when signing up!

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

**SIGN UP for our student newsletter!**  
nccor.org/te-newsletter

# Have you used any of NCCOR's tools?

- Let us know at [nccor@fhi360.org](mailto: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](mailto:nccor@fhi360.org)

## WHAT'S HAPPENING IN **NCCOR NEWS**

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

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

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Utility of the Youth Compendium of Physical Activities

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

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

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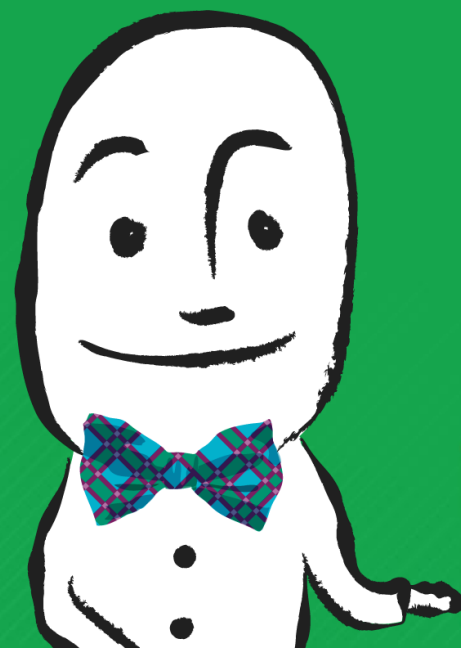
## Connect & Explore



## Upcoming Webinars

Mark your calendar for these upcoming Connect & Explore webinars!

THANK  
YOU!



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