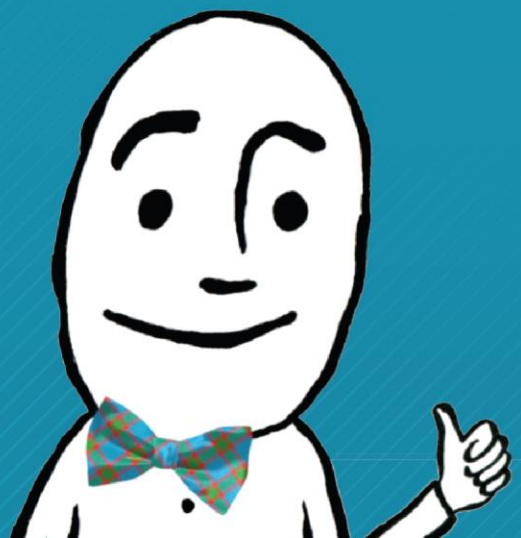
NCCOR
National Collaborative on Childhood Obesity Research

NATIONAL COLLABORATIVE ON
CHILDHOOD OBESITY RESEARCH

1. Overview of NCCOR's Measures Registry Resource Suite
2. Spotlight: NCCOR's Tools in Action: Featuring the Summer Physical Activity and Friendship Study
   - Tyler Prochnow
3. One on One
   - David Berrigan, NIH
   - Sarah Sliwa, CDC
4. NCCOR Announcements

TODAY'S PROGRAM



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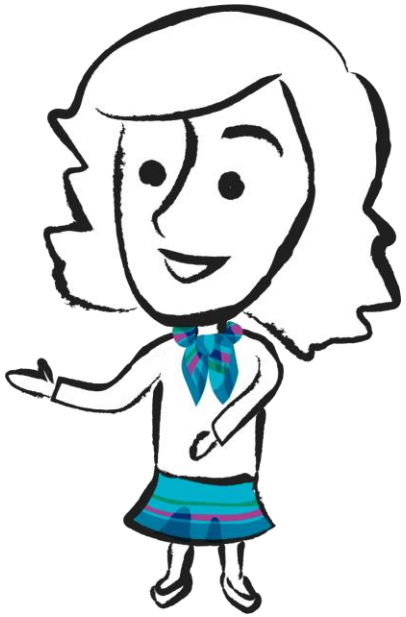
Today's Conversation

Tyler Prochnow
PhD Candidate at Baylor University



David Berrigan, PhD, MPH
National Institutes of Health

Sarah Sliwa, PhD, MS
Centers for Disease Control and Prevention

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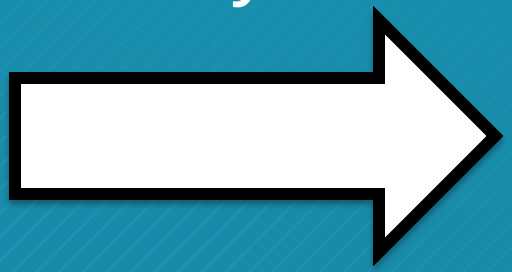
Need technical assistance? Have a question for our speakers?

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



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Join the conversation on social media

#ConnectExplore

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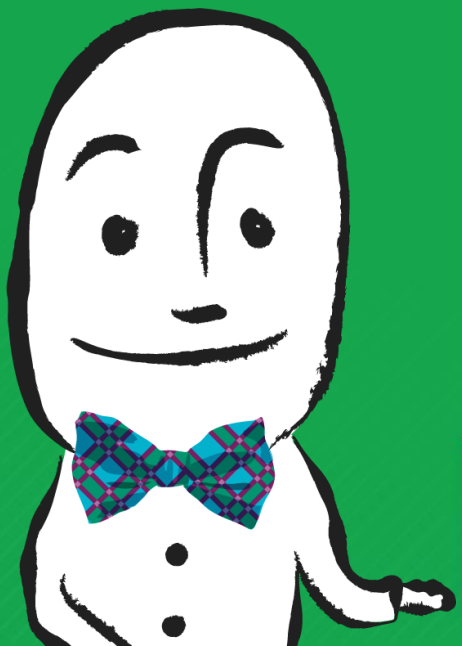
INTERACTIVE POLL



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NCCOR's Measures Registry Resource Suite

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Standard measures are needed for:

Research and evaluation related to the causes of childhood obesity

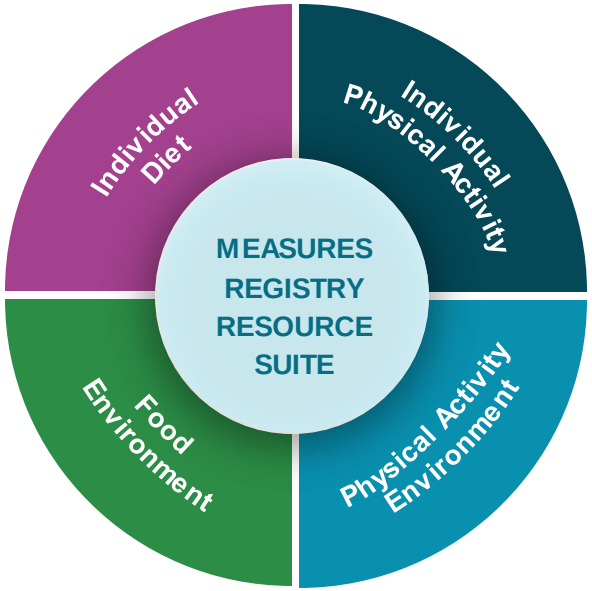
Interventions to prevent and treat obesity in children

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 Resource Suite

- Measures Registry
- Measures Registry User Guides
- Measures Registry Learning Modules



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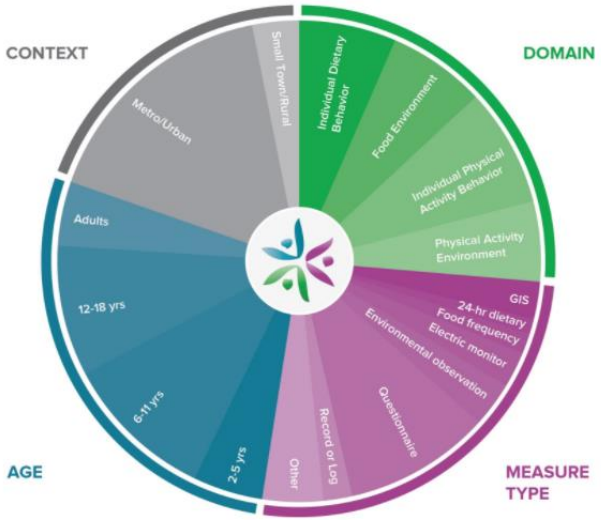
Measures Registry

- 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



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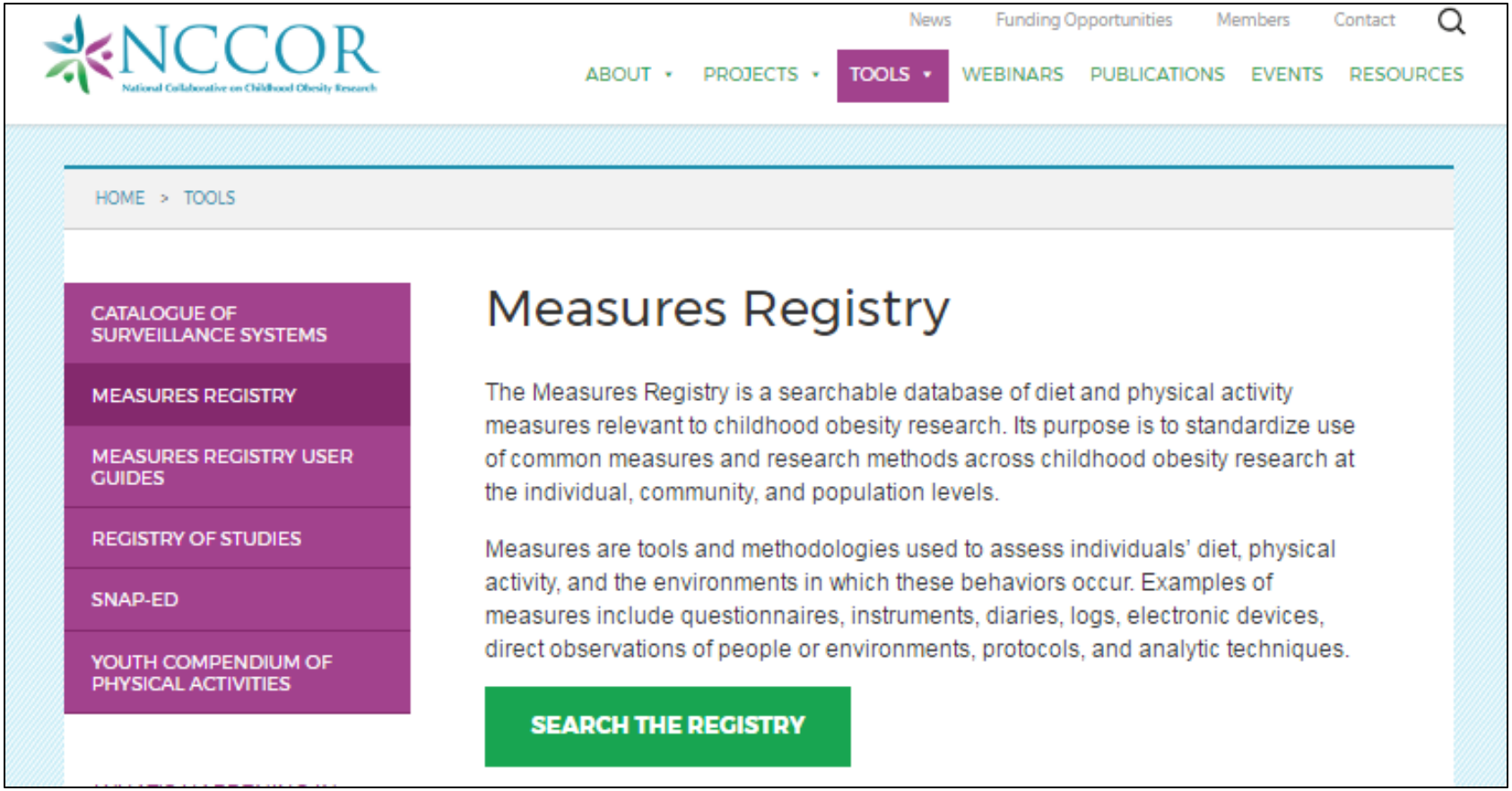
NCCOR.org/measures



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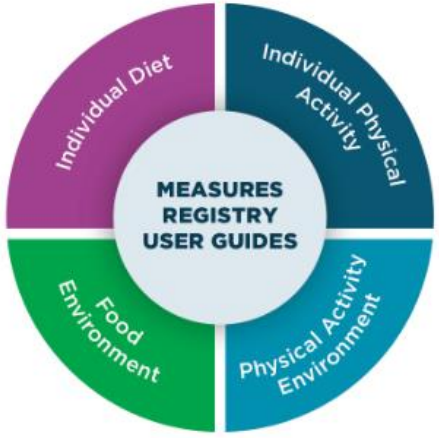
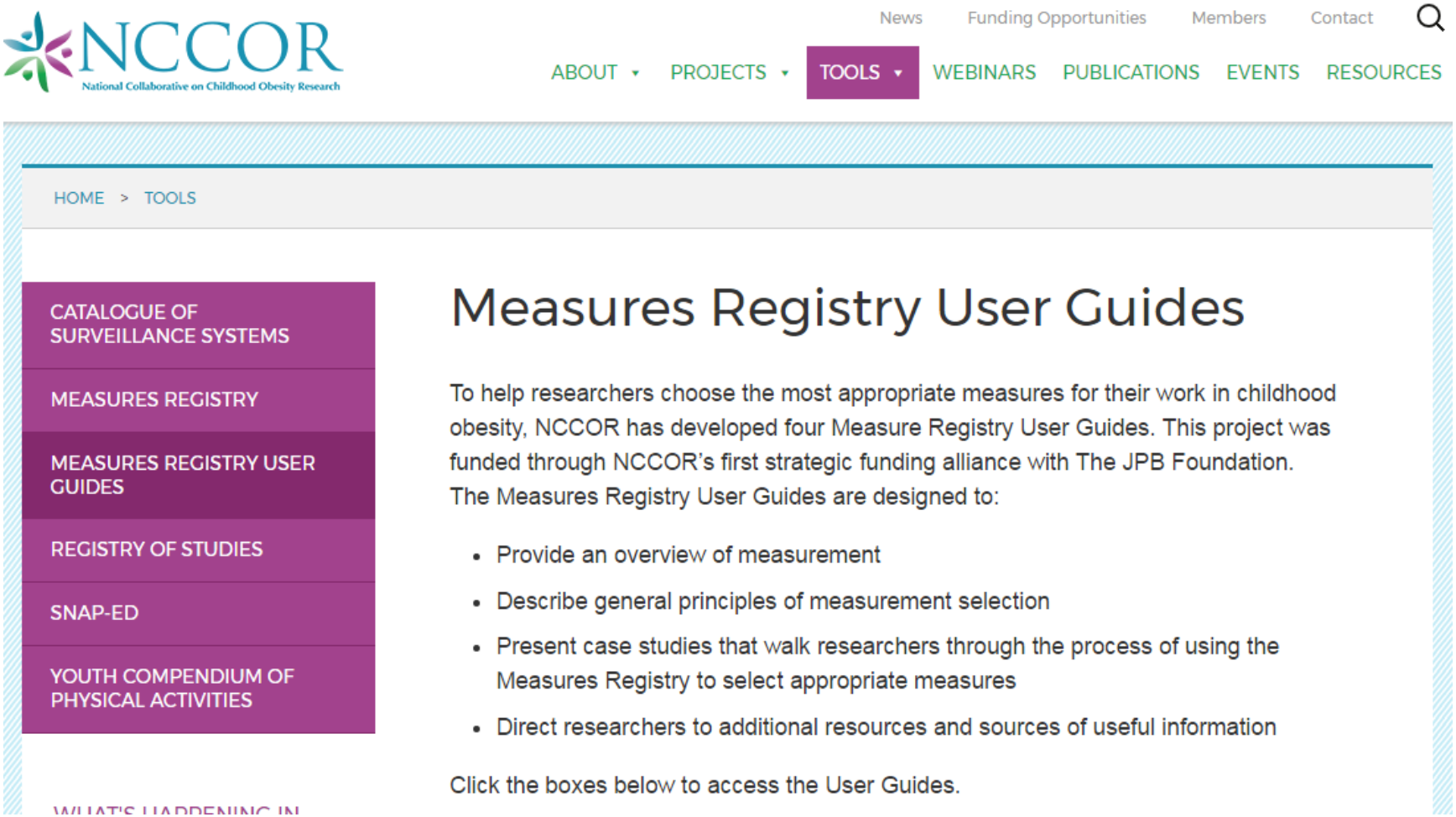
Measures Registry User Guides

- 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



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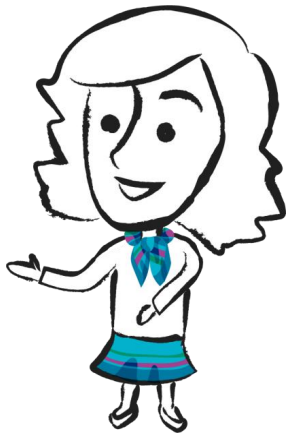
Measures Registry Learning Modules

- 17 modules; 4 for each domain and an introductory module
- Each module takes 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



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NCCOR.org/mrmodules

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

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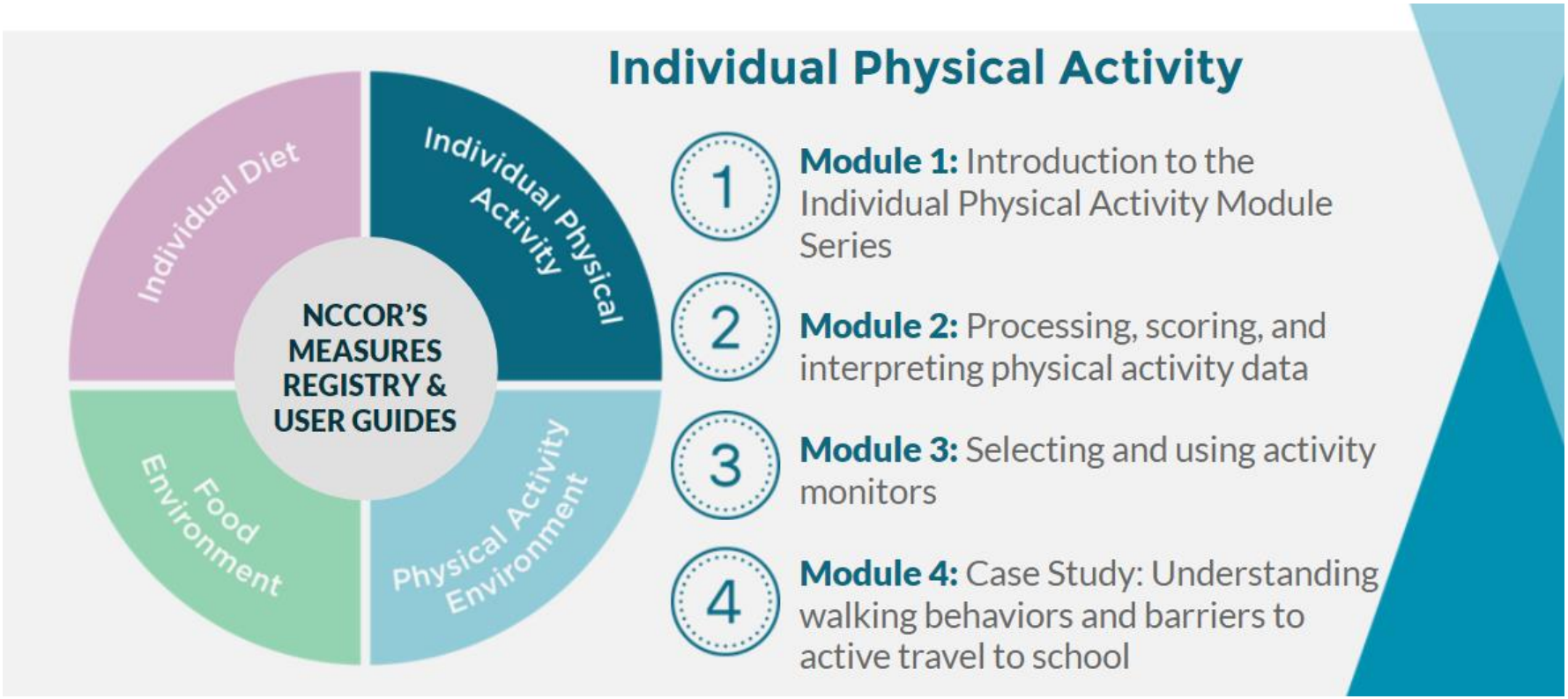
Measures Registry Learning Modules: Individual Physical Activity



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SPOTLIGHT

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Summer Physical Activity and Friendships Study with Tyler Prochnow

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Summer PA and Friendships

- Decreased PA during summer
- Fewer structured opportunities
- Summer Care Programs (e.g. Boys & Girls Clubs)
  - Attended by more than 14.3 million each year
  - May fill gap
- Social influences?

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Social Influences on PA

- Selection – Choose friends based on PA
- Influence – Become more like friends over time
- Co-participation or Concurrent Play

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Research Questions

- How are friendships at a summer care program related to PA?
- How do these friendships change over time?
  - Does PA play a role in these changes?

Research Questions

Questions about the Adolescent

- Self-reported PA
- Skill Competency
- Team Sport Participation
- Demographics

Social Network Questions

- Relation
- Location
- Frequency of play
- Activity
- Support

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Why you should use NCCOR's Measures Registry!

- So simple to use
- Everything in one place
- Quick scope of options

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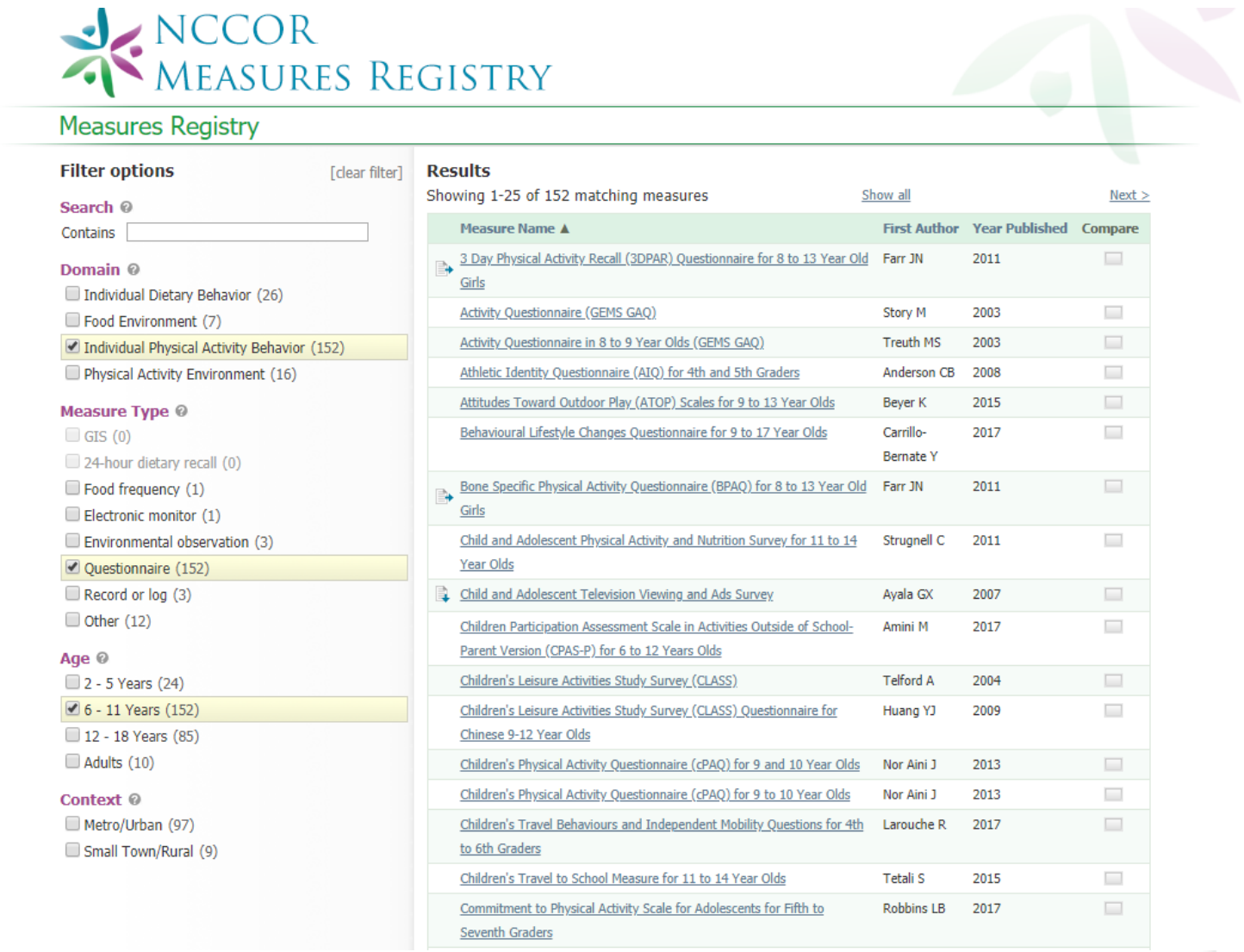
What does it look like?



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Comparing Measures

Comparing Measures

Hide empty rows	Attitudes Toward Outdoor Play (ATOP) Scales for 9 to 13 Year Olds ▸ X	Knowledge, Attitudes, and Habits Questionnaire for 6 to 7 Year Olds ▸ X	Motivation for Physical Activity ▸ X
Domain			
Individual Dietary Behavior		✓	
Food Environment			
Individual Physical Activity Behavior	✓	✓	✓
Physical Activity Environment			
Measure Type			
GIS			
24-hour dietary recall or food frequency			
Electronic monitor			
Environmental observation			
Questionnaire	✓	✓	✓
Record or log			
Other			
Available Info			
Validity	✓	✓	✓
Reliability	✓	✓	✓
Instrument			
Age			
2 - 5 Years			
6 - 11 Years	✓	✓	✓
12 - 18 Years	✓		

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HBSC - PA

Health Behavior in School-aged Children (HBSC) Questionnaire for 11 and 15 Year Olds

Abstract | At A Glance | Study Design | How To Use | Validity (0) | Reliability (6)

Citation

Bobakova D, Hamrik Z, Badura P, Sigmundova D, Nalecz H, Kalman M. Test-retest reliability of selected physical activity and sedentary behaviour HBSC items in the Czech Republic, Slovakia and Poland. Int J Public Health 2015 Jan;60(1):59-67. Epub 2014 Dec 4.

Abstract

OBJECTIVES: Better assessment of the reliability of the physical activity and sedentary behaviour items across countries in all WHO regions is highly needed. The aim of the study was to examine the test-retest reliability of selected physical activity and sedentary behaviour items of the HBSC questionnaire in Czech, Slovak and Polish adolescents.

METHODS: We obtained data from 693 Czech, Slovak and Polish (50.9% boys) primary school pupils, grades five (mean age = 11.08; SD = 0.45) and nine (mean age = 15.12; SD = 0.45), who participated in a test-retest study in 2013. We used the single measures of Intraclass Correlation Coefficients (ICC) and Cohen's Kappa statistic to estimate the test-retest reliability of all selected items within the sample and stratified by gender, age group and country.

RESULTS: Both physical activity items (VPA and MVPA) and most of the sedentary behaviour items showed moderate agreement (ICC 0.41-0.60) and a similarly moderate correlation (Cohen's Kappa 0.3-0.5) after dichotomization.

CONCLUSIONS: The physical activity and sedentary behaviour items of the HBSC questionnaire seem to be at the borderline of reliability to be used in adolescents.

Full Text

The full text is available at https://dx.doi.org/10.1007/s00038-014-0628-9

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HBSC - PA

Health Behavior in School-aged Children (HBSC) Questionnaire for 11 and 15 Year Olds

Abstract | **At A Glance** | Study Design | How To Use | Validity (0) | Reliability (6)

Domain(s)

Individual Physical Activity Behavior

Measure Type

Questionnaire

Measure Availability

Measure included in article

Number of Items

5 Reported

Study location

Metro/Urban

Olomouc, Pardubice, Kosice, Warsaw, Czech Republic, Slovakia, Poland

Languages

Czech, Polish

Information about Development of Measure

The Health Behavior in School-aged Children (HBSC) questionnaire's vigorous physical activity and moderate to vigorous physical activity items have been shown to be reliable in adolescent populations. But HBSC questions regarding sedentary behaviors, such as television watching and computer use have not been tested adequately in diverse child populations to know if they have acceptable reliability or acceptable validity. This study examines the test-retest reliability of selected physical activity and sedentary behavior items of the HBSC questionnaire in Eastern European adolescents.

▼ Individual Physical Activity Behavior Variables

Expenditure
Moderate Physical Activity
Vigorous Physical Activity
Sedentary Activity

Behavior
Sports/Recreation
Physical Education
Recess/Playtime/PA Breaks
Commute to Work/School
Screen Time

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HBSC - PA

Health Behavior in School-aged Children (HBSC) Questionnaire for 11 and 15 Year Olds

Abstract | At A Glance | Study Design | How To Use | Validity (0) | **Reliability (6)**

Type of reliability	Construct/subscale assessed	Test/statistic used	Result
Test-retest	Health Behavior in School-aged Children questionnaire, moderate to vigorous physical activity items	Intraclass correlation coefficients (ICC), (95 % CI)	ICC = 0.52, (0.46-0.58), all ICC = 0.53, (0.45-0.61), boys ICC = 0.51 (0.41-0.59), girls ICC = 0.52, (0.43-0.60) 11 year olds ICC = 0.52 (0.42-0.60), 15 year olds
Test-retest	Health Behavior in School-aged Children questionnaire, vigorous physical activity items	Intraclass correlation coefficients (ICC), (95 % CI)	ICC = 0.55, (0.49-0.61), all ICC = 0.56, (0.48-0.64), boys ICC = 0.53, (0.44-0.61), girls ICC = 0.52, (0.44-0.60), 11 year olds ICC = 0.58, (0.50-0.66), 15 year olds
Test-retest	Health Behavior in School-aged Children questionnaire, TV use	Intraclass correlation coefficients (ICC), (95 % CI)	ICC = 0.51, (0.45-0.57), weekday, all ICC = 0.52, (0.46-0.58), weekend, all
Test-retest	Health Behavior in School-aged Children questionnaire, computer/internet use	Intraclass correlation coefficients (ICC), (95 % CI)	ICC = 0.61, (0.55-0.66), weekday, all ICC = 0.62, (0.56-0.67), weekend, all
Test-retest	Health Behavior in School-aged Children questionnaire, sitting time	Intraclass correlation coefficients (ICC), (95 % CI)	ICC = 0.55, (0.48-0.60), weekday, all ICC = 0.53, (0.47-0.59), weekend, all
Test-retest	Health Behavior in School-aged Children questionnaire, physical activity items	CohenÃ¢Â□Â□s Kappa (k)	k = 0.26 to 0.57, all p < 0.001

Measure last modified : 08/24/2018 4:16 PM

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Outcomes of the Study

- Cross-Sectional Results
- Longitudinal Results
- Network Perceptions
- Next steps

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Cross-Sectional Results

- Perceived Skill is spatially correlated
- Friendships are mutual and occur between same age and sex adolescents
- Self-reported PA was associated with more nominations received but less sent
- Similarity in PA increased the odds of connection in the larger program

Longitudinal Results

- Over time adolescents formed friendships based on similarity in PA at larger program
- Smaller program saw opposite effects
- Evidence of friend turnover or change in friend groups due to new members or members leaving

Network Perception Results

Adolescents perceive similar levels of PA for their friends

More physically competent and central adolescents were perceived as more active

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Next Steps

- Objectively measured activity levels
- Self-response Network Data

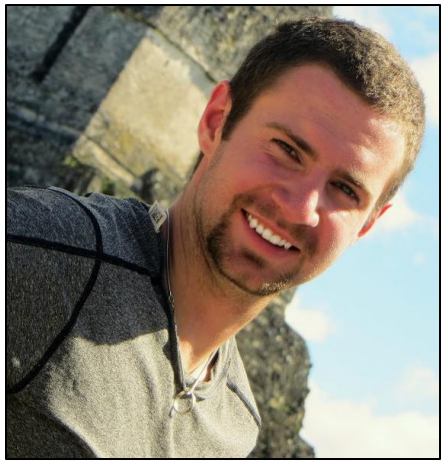
Network Canvas BETA

Final Words

- Use the resources
- Take advantage of every opportunity
- Ask questions and reach out

Questions

- Tyler_prochnow1@baylor.edu
- Tprochnow.com



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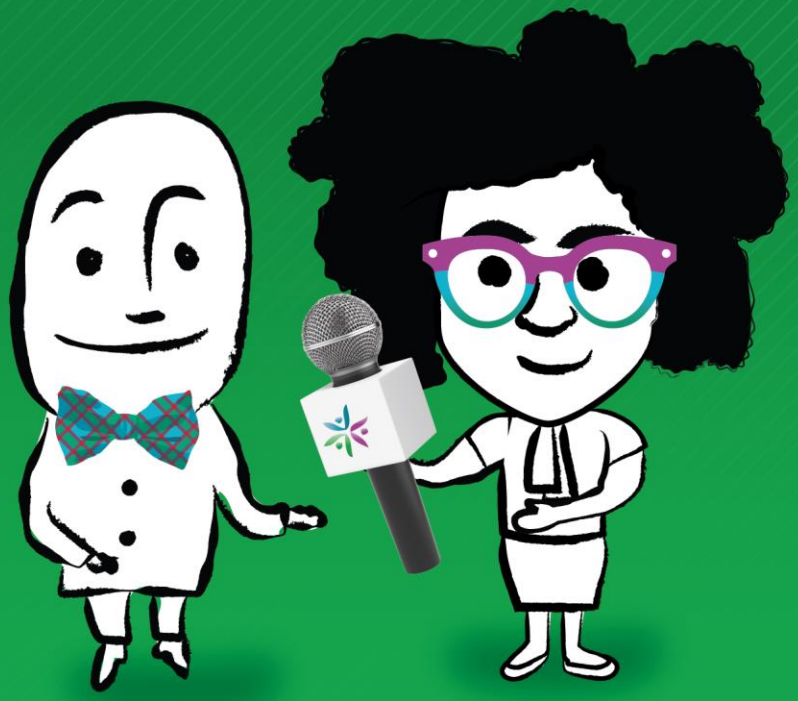

ONE ON ONE

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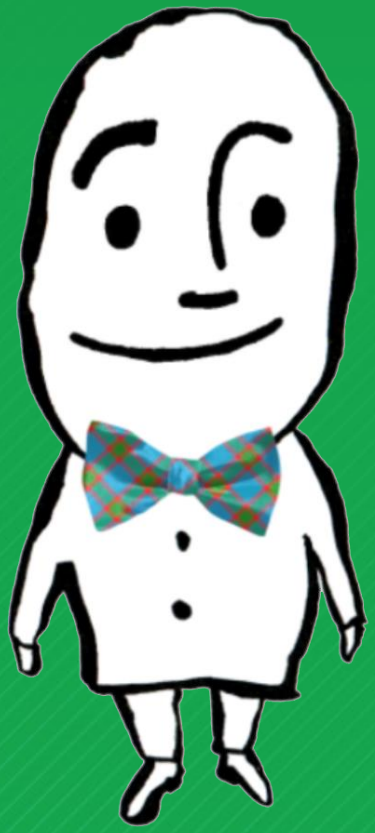
QUESTIONS?

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



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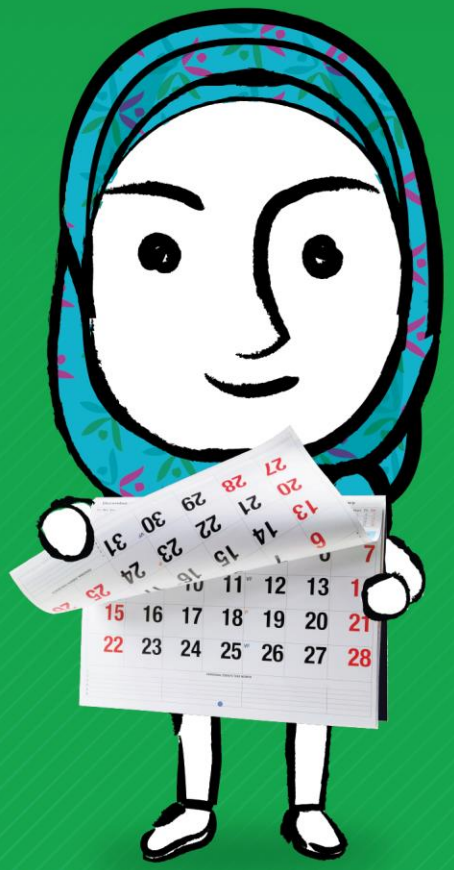
UPCOMING EVENTS



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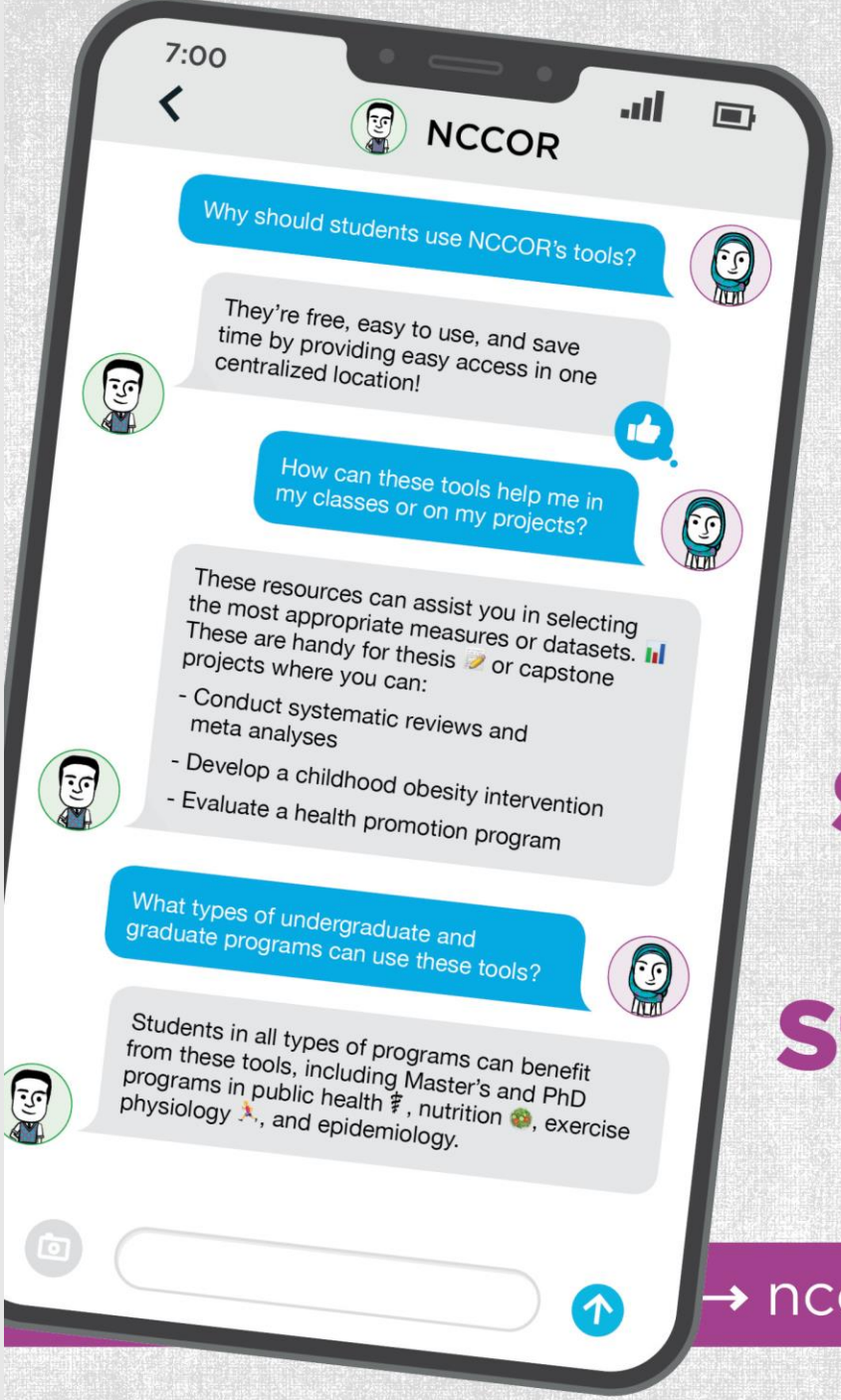

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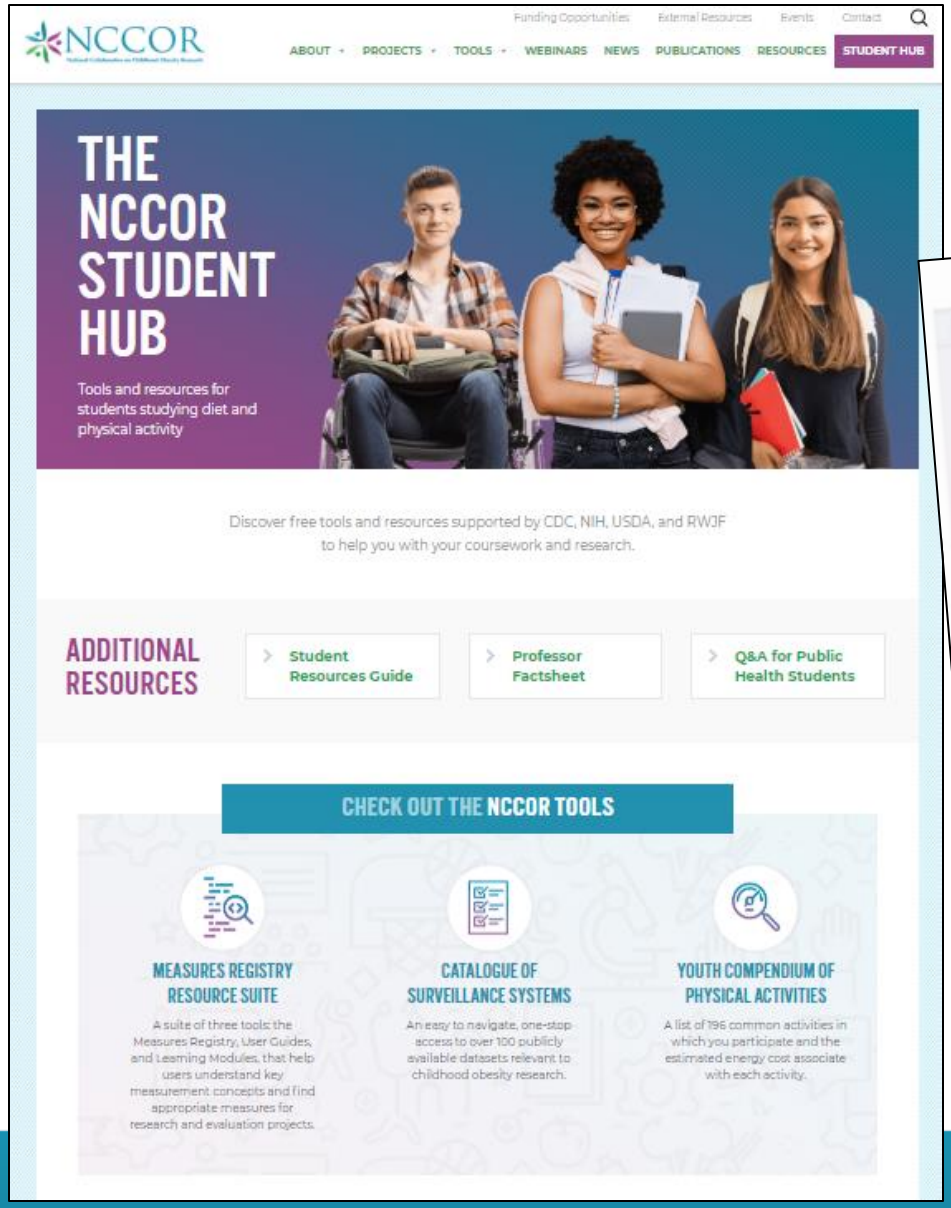
Sign up for NCCOR Student Hub!

→ nccor.org/e-newsletter

Check out the new student hub webpage!



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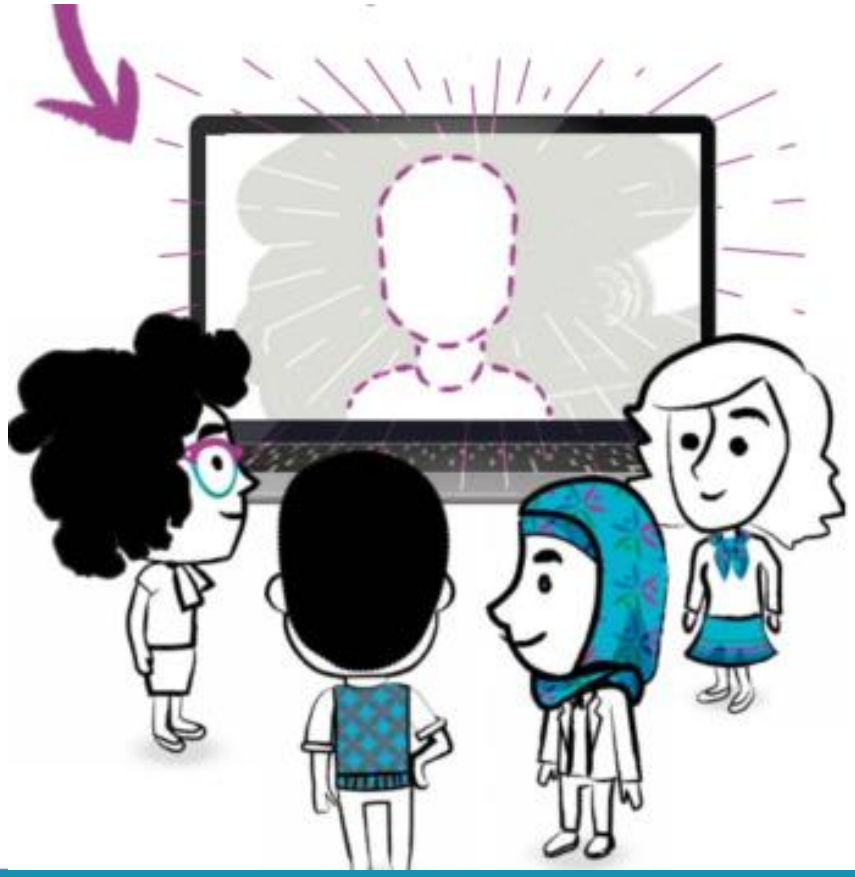
Have you used any of NCCOR's tools?

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



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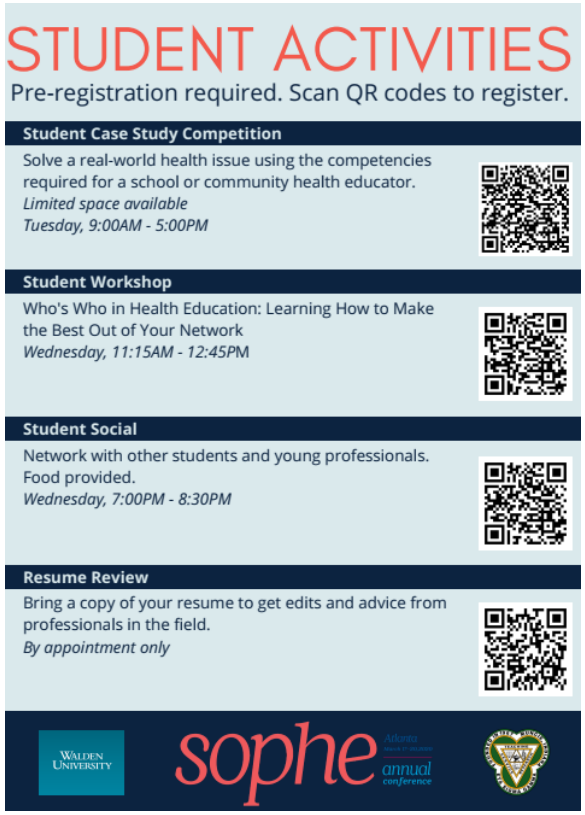
Upcoming Events

- NCCOR will have a booth at SOPHE in Atlanta, GA March 17-20
- NCCOR presenting at SOPHE Student Workshop Wednesday, March 18, 11:15–12:45 p.m.



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FURTHER QUESTIONS?

Other questions about NCCOR or upcoming activities?

Email the NCCOR Coordinating Center
nccor@fhi360.org

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ABOUT ▾ PROJECTS ▾ TOOLS ▾ WEBINARS PUBLICATIONS EVENTS RESOURCES

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!

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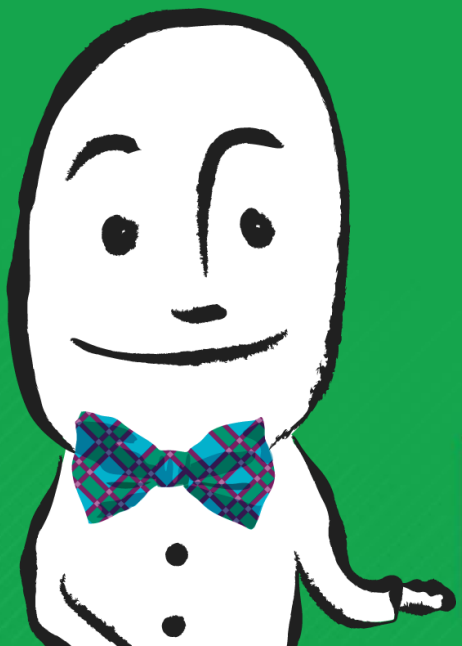
THANK YOU!



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