







# NCCOR MEMBER CALL

April 18, 2018 2 p.m. ET

Login: <a href="https://fhi360smc.adobeconnect.com/nccor/">https://fhi360smc.adobeconnect.com/nccor/</a>

Call In: 1-866-668-0721 Enter the Access Code: 169-033-0430

We will begin at 2:05 p.m. to allow participants time to join the webinar.



# Agenda

- Emerging opportunities for NCCOR
- Steering Committee update
- Workgroup updates
- Spotlight
  - Recent NCCOR publications
- Communications update
- Other NCCOR activities
- Announcements
- Calendar reminders



# **Emerging Opportunities for NCCOR**



## **Steering Committee Update**

- June Member Meeting planning
  - Theme: Leveraging Data Sources for Childhood Obesity Research
  - Date: Friday, June 15, 2018 (Washington, DC)
- Senior Leaders Briefing Call planning
  - Brings together senior leadership from NCCOR's funders
  - May 2018











### WORKGROUP UPDATES











# NEW WORKGROUP DEVELOPING AN NCCOR USER GUIDE FOR ASSESSING CHILDHOOD OBESITY



# Background

- Childhood growth is an indicator of health
- Accurate measurement of childhood growth is an ongoing need
  - Measurement challenges exist, particularly for children at the upper extreme of childhood obesity

### Background: Measurement Challenges

- Z-scores (or standard deviation scores) are widely used to quantify human body measurements
- Expressing BMI-for-age as z-scores (BMIz) using CDC's growth charts for children with severe obesity has drawbacks
  - Uninformative above the 97<sup>th</sup> percentile for several statistical reasons<sup>1,2</sup>
  - With large BMIs, a wide range of BMI translates to a very narrow range of BMIz<sup>3</sup>
    - o Example: A 17-year-old female with an implausible BMI of 300 yields a BMIz close to the theoretical maximum for this sex/age
  - With large BMIs, relationship between BMI and BMIz differs by age, sex, and starting BMI<sup>3</sup>
    - Example: Stable high BMI in adolescence leads to increasing BMIz in boys, but decreasing BMIz in girls<sup>3</sup>

<sup>&</sup>lt;sup>2</sup> Centers for Disease Control and Prevention. Modified z-scores in the CDC growth charts. Available at https://www.cdc.gov/nccdphp/dnpao/growthcharts/resources/biv-cutoffs.pdf. <sup>3</sup> Woo JG. Using body mass index Z-score among severely obese adolescents: A cautionary note. Pediatr. Obes. 2009;4(4): 405-10.



<sup>1</sup> Freedman DS, Butte NF, Taveras EM, et al. BMI z-Scores are a poor indicator of adiposity among 2- to 19-year-olds with very high BMIs, NHANES 1999-2000 to 2013-2014. Obes. 2017; 25(4):739-46.

## Background: Research Limitations

- BMIz have been widely used in all types of analyses despite limitations
- Very high BMIs, which are typical for children in treatment programs, may lead to erroneous measurement and evaluation of treatment effects because baseline and follow-up BMIz cannot be estimated accurately



## Background: Complementary Efforts

- Current NCHS activities
  - Exploring statistical approaches for monitoring childhood obesity at the national level
  - Updating the CDC growth charts to assess extreme values of BMI
- NCHS staff are participating on this workgroup to provide input and help coordinate the work of the User Guide with the Center's work



### Purpose

- This User Guide will provide guidance on selecting the most appropriate measures of obesity for population-level evaluations in children
- The User Guide will:
  - Provide an overview of measurement issues
  - Describe general principles of measurement selection
  - Present case studies that walk users through the process of selecting appropriate measures
  - Direct researchers and practitioners to additional resources and sources of useful information



### **Next Steps**

- Soliciting NCCOR members to:
  - Serve on the workgroup
  - Help define the scope of work for this new User Guide
  - Guide content development
  - Select external expert(s) to write the User Guide

### NCCOR Members Interested in Workgroup

Name	Agency
Rachel Ballard	NIH, ODP
Voula Osganian	NIH, NIDDK (NIH co-chair)
Sue Yanovski	NIH, NIDDK
Deborah Young-Hyman	NIH, OBSSR
Brook Belay	CDC, DNPAO (CDC co-chair)
Carrie Dooyema	CDC, DNPAO
Anita Ellis	CDC, DNPAO
Aly Goodman	CDC, DNPAO
Laura Kettel-Khan	CDC, DNPAO
Sohyun Park	CDC, DNPAO
Craig Hales	CDC, NCHS
Cynthia Ogden	CDC, NCHS
Sarah Silwa	CDC, DPH/SHB
Young Jo	USDA, ERS



### Questions?

- Workgroup contacts
  - Voula Osganian, NIH co-lead, voula.osganian@nih.gov
  - Brook Belay, CDC co-lead, <a href="https://hup1@cdc.gov">hup1@cdc.gov</a>
  - Hatidza Zaganjor, FHI 360, <a href="mailto:hzaganjor@fhi360.org">hzaganjor@fhi360.org</a>











# CATALOGUE OF SURVEILLANCE SYSTEMS (CSS) UPDATE



## 2018 CSS Update

- Last updated in 2016
- 2018 update:
  - Conducted link check on all surveillance systems
  - Updated outdated information found online
  - Reached out to key contacts for in-depth updates
  - Removed outdated systems (generally systems with data 10 years old or older)
  - Identified new systems for inclusion



# **CSS Systems Removed**

- Food Attitudes and Behaviors (FAB) Survey
- Food Intakes Converted to Retail Commodities Database (FICRCD)
- Kansas Child Health Assessment and Monitoring Program (K-CHAMP)
- National Latino and Asian American Study (NLAAS)
- National Survey of Ambulatory Surgery (NSAS)

- National Survey of America's Families (NSAF)
- National Survey of Families and Households (NSFH)
- Pediatric Nutrition
   Surveillance System (PedNSS)
- Pregnancy Nutrition
   Surveillance System (PNSS)
- Survey of Program Dynamics (SPD)



# CSS Systems Identified for Inclusion

- California Fitnessgram
- Family Life, Activity, Sun, Health, and Eating (FLASHE) Study
- National Household Food Acquisition and Purchase Survey (FoodAPS)
- Survey of Income and Program Participation (SIPP)



# Call for System Submissions

- Inclusion criteria
  - Relevance to childhood obesity
  - Relevance to at least one level within the social-ecological model
  - Conducted in the U.S.
  - Publicly available data
  - Generally, data within last 10 years
- Exclusion criteria
  - One-time survey
- Suggest systems for inclusion here:
   <a href="https://www.nccor.org/nccor-tools/catalogue/feedback/">https://www.nccor.org/nccor-tools/catalogue/feedback/</a>











### RECENT NCCOR PUBLICATIONS

Laura Kettel-Khan, CDC Deborah Young-Hyman, NIH



# A Collaborative to Advance Solutions-Oriented Research for Childhood Obesity

Published in the *American Journal of Preventive Medicine* March theme issue:

- Developing A Partnership for Change: The National Collaborative on Childhood Obesity Research
   Rachel M. Ballard, MD, MPH; Anne B. Rodgers, MA; Laura Kettel Khan, PhD;
   C. Tracy Orleans, PhD; Elaine Arkin, MS; Todd M. Phillips, MS
- A National Collaborative for Building the Field of Childhood Obesity Research

Rachel M. Ballard, MD, MPH; Anne B. Rodgers, MA; Laura Kettel Khan, PhD; C. Tracy Orleans, PhD; Elaine Arkin, MS; Todd M. Phillips, MS



To learn more visit <u>www.nccor.org/accomplishments</u>



# Overview of AJPM NCCOR Papers

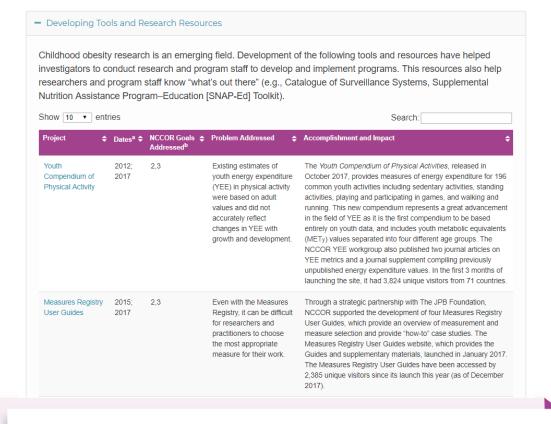
- Describes NCCOR's formation, structure, and operations
- Shares lessons learned and benefits of the collaborative model
- Explains how NCCOR has used some of Petrovich's principles to help build a field of research





### More Resources on Accomplishments

- NCCOR has a new webpage that links to the supplement nccor.org/accomplishments
- The page includes an expanded table of accomplishments and a list of all members that have been part of NCCOR since its inception





# The Childhood Obesity Declines Project Supplement

#### Published in *Childhood Obesity* supplement:

- An Effort of the National Collaborative on Childhood Obesity Research to Explore Progress in Four Communities Tina Kauh, Nicola Dawkins-Lyn, Carrie Dooyema, Carole Harris, Jan Jernigan, Laura Kettel Khan, Phyllis Ottley, and Deborah Young-Hyman
- A Different Methodology
   Laura Kettel Khan, Phyllis Ottley, Carole Harris, Nicola Dawkins-Lyn, Carrie Dooyema, Jan Jernigan, Tina Kauh, and Deborah Young-Hyman
- An Exploratory Study of Strategies
   Identified in Communities Reporting
   Declines

Phyllis Ottley, Nicola Dawkins-Lyn, Carole Harris, Carrie Dooyema, Jan Jernigan, Tina Kauh, Laura Kettel Khan, and Deborah Young-Hyman

- A Review of Enacted Policies
   Carrie Dooyema, Jan Jernigan, Amy Lowry Warnock,
   Nicola Dawkins-Lyn, Carole Harris, Tina Kauh, Laura
   Kettel Khan, Phyllis Ottley, and Deborah Young Hyman
- Highlights of Community
   Strategies and Policies
   Jan Jernigan, Laura Kettel Khan, Carrie Dooyema, Phyllis
   Ottley, Carole Harris, Nicola Dawkins-Lyn, Tina Kauh, and Deborah Young Hyman
- Implications for Research and Evaluation Approaches

Deborah Young-Hyman, Kathryn Morris, Laura Kettel Khan, Nicola Dawkins-Lyn, Carrie Dooyema, Carole Harris, Jan Jernigan, Phyllis Ottley, and Tina Kauh

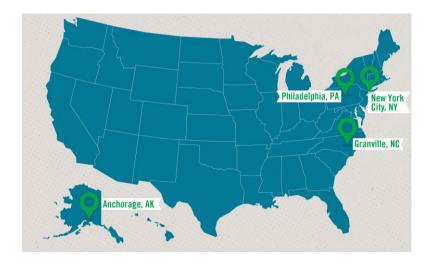


To learn more visit <a href="https://www.nccor.org/projects/obesity-declines/">https://www.nccor.org/projects/obesity-declines/</a>



### Summary

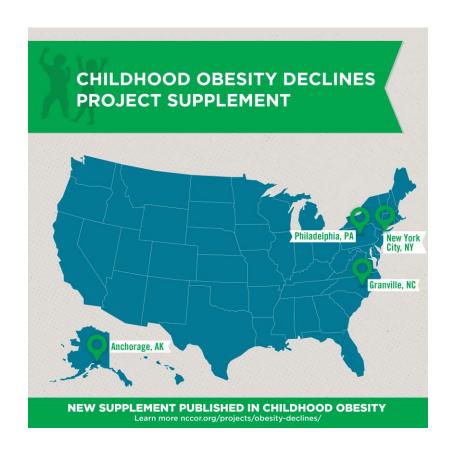
- Detail the rationale, aims, and overall study design
- Document the what, how, when, and where of community-based strategies intended to reduce rates of childhood obesity in four communities
- Findings suggest that simultaneous, synergistic community-specific initiatives, including policy implementation and multilayered initiatives, were likely important contributors to success





### Find More Resources

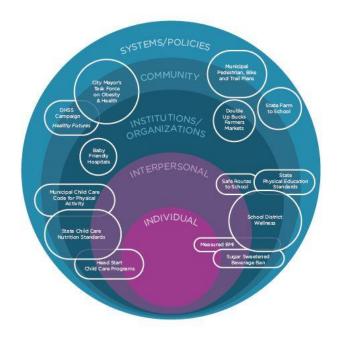
- The Childhood Obesity **Declines Project page links** to the supplement nccor.org/projects/obesity -declines/
- The page also includes the site summary reports





# Connect & Explore – April 30

- Next Connect & Explore webinar: Examining Declines in Childhood Obesity in Four Communities: Highlights from Six Papers Published in Childhood Obesity
- Will highlight strategies and policies implemented in four diverse communities that experienced declines in childhood obesity prevalence from 2003 to 2011
- April 30 at 1 p.m. ET
- Speakers include:
  - Tina Kauh, RWJF
  - Nicola Dawkins-Lyn, ICF
  - Laura Kettel Khan, CDC
  - Deborah Young-Hyman, NIH
- Register here: <u>connectexplore.eventbrite.cor</u>





### **Communications Update**

- Publications
  - American Journal on Preventive Medicine (AJPM) March Theme Issue: A Collaborative to Advance Solutions-Oriented Research for Childhood Obesity
  - Childhood Obesity Declines Project Supplement
  - Annual Report 2017
- Connect & Explore Webinars
  - February 27
  - March 29
- Conferences
  - Active Living Research (ALR) Annual Conference, February 2018
  - Society of Health and Physical Educators (SHAPE) National Convention & Expo, March 2018
  - Society of Behavioral Medicine (SBM) Annual Meeting & Scientific Sessions, April 2018



# AJPM March Theme Issue: A Collaborative to Advance Solutions-Oriented Research for Childhood Obesity

- Usage statistics February 15–March 31
- Landing page: nccor.org/accomplishments
  - 1,703 page views

# Pageviews 200 100 Feb 22 Mar 1 Mar 8 Mar 15 Mar 22 Mar 29



# AJPM March Theme Issue: A Collaborative to Advance Solutions-Oriented Research for Childhood Obesity

### **Dissemination Channels**

NCCOR February e-Newsletter

Social media (Twitter, Facebook)

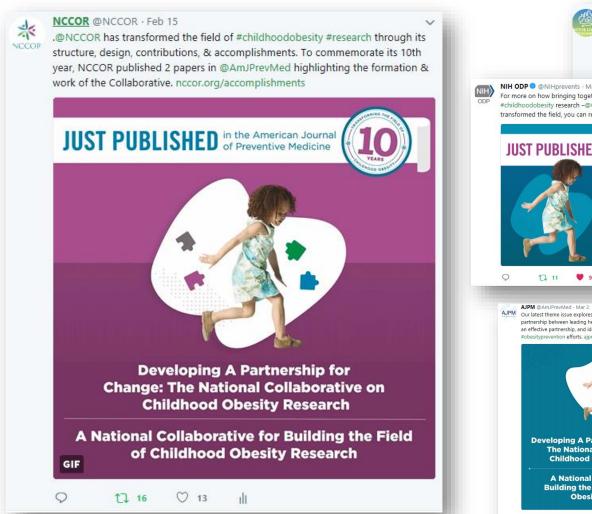
Connect & Explore webinar – March 29

Communication teams at NIH, CDC, RWJF, and USDA

Nutrition and physical activity organizations



### AJPM March Theme Issue: A Collaborative to Advance Solutions-Oriented Research for Childhood Obesity

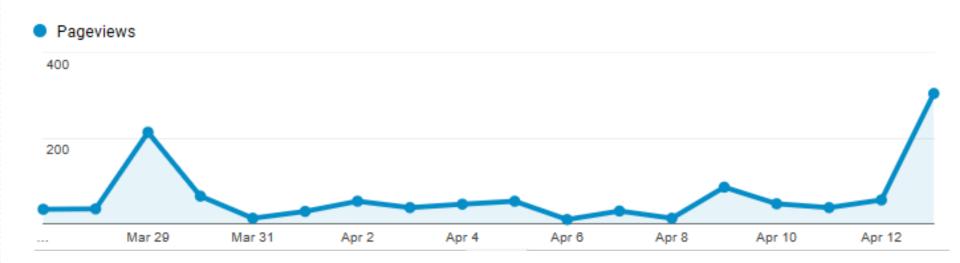






### Childhood Obesity Declines Project Supplement

- Usage statistics March 27–April 13
- Landing page: nccor.org/projects/obesity-declines
  - 1,149 page views





### Childhood Obesity Declines Project Supplement

### **Dissemination Channels**

NCCOR March e-Newsletter

Social media (Twitter, Facebook)

Connect & Explore webinar – March 29

Upcoming Connect & Explore webinar – April 30

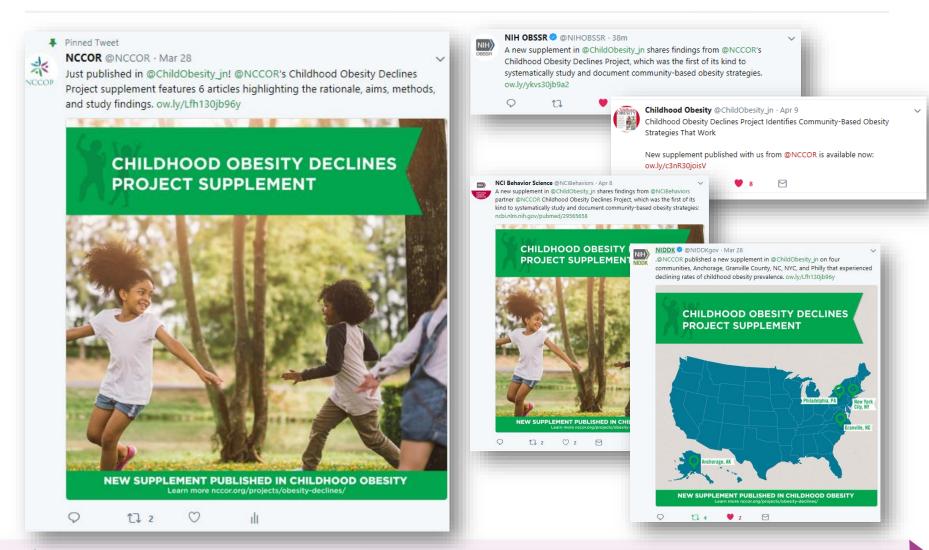
Communication teams at NIH, CDC, RWJF, and USDA

National League of Cities April e-Newsletter

Reaching out to additional organizations related to childhood obesity



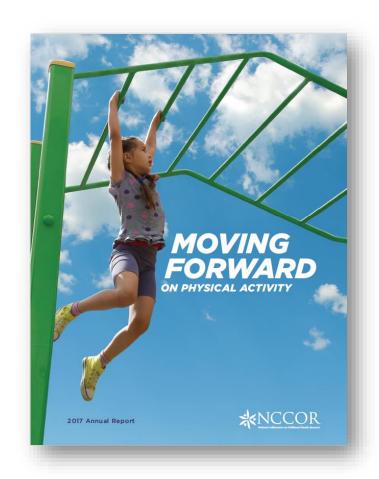
### Childhood Obesity Declines Project Supplement





# **Annual Report 2017**

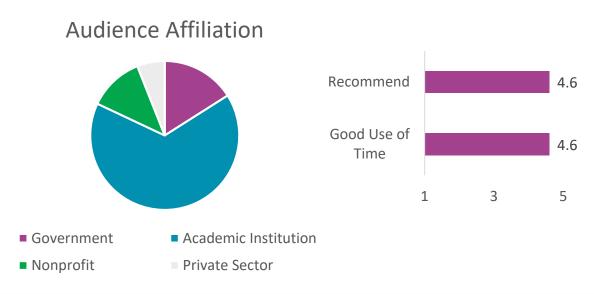
- Theme: Moving Forward on Physical Activity
- Highlights tools, resources, and communication efforts in 2017 related to physical activity
- Online March 15

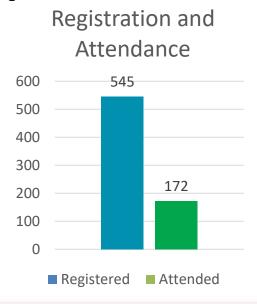




# Connect & Explore – February 27

- Preventing Childhood Obesity in Latin America: An Agenda for Regional Research and Strategic Partnerships
- Speakers:
  - Juan Rivera, PhD, National Institute of Public Health, Mexico
  - Camila Corvalán, MD, PhD, MPH, University of Chile
  - Rafael Pérez-Escamilla, PhD, Yale University School of Public Health
  - Michael Pratt, MD, MSPE, MPH, University of California, San Diego

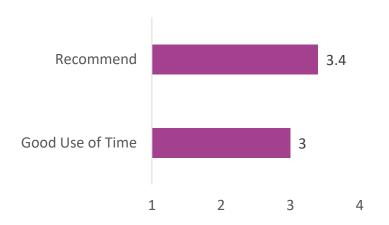


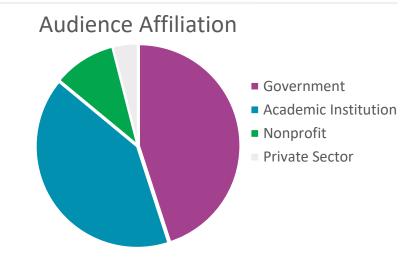


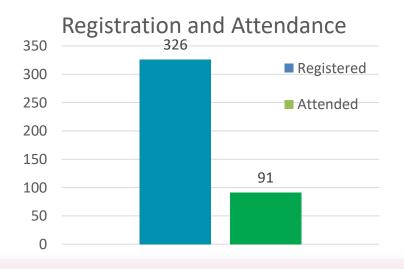


# Connect & Explore – March 29

- Collaborating for Impact: Lessons Learned from NCCOR
- Speakers:
  - C. Tracy Orleans, PhD, RWJF
  - Laura Kettel Khan, PhD, CDC
  - Rachel Ballard, MD, MPH, NIH
  - Jay Variyam, PhD, USDA
  - Jasmine Hall Ratliff, MHA, RWJF









### **ALR 2018**

- Workshop on Measures
   Registry User Guides
- Exhibit booth Feb 11–13
- 33 new e-Newsletter subscribers
- 200 NCCOR print materials distributed

### MEASURES REGISTRY USER GUIDES WORKSHOP



**Feb 11** at Active Living Research 2018 Annual Conference





### **SHAPE 2018**

- Presentation on Youth Compendium of Physical Activities
- Exhibit booth March 21–23
- 157 new e-Newsletter subscribers
- Nearly 700 NCCOR print materials distributed

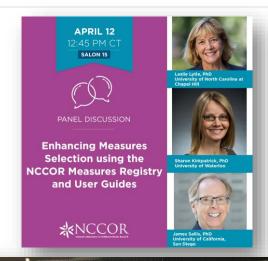






### SBM 2018

- Panel discussion on Measures Registry and **User Guides**
- Exhibit booth April 11–14
- 300+ NCCOR print materials distributed







# CATALOGUE OF SURVEILLANCE SYSTEMS





# One-stop access to review, sort, and compare over 100 surveillance systems relevant to childhood obesity research and the evaluation of policy and environmental interventions

- All offer publicly available data collected within the past 10 years in the U.S.
- Includes systems that contain data for evaluating policy and environmental interventions
- Makes manuscript development easier

- Great resource for teaching and for students
- Video overview of features and how to use
- Updated annually



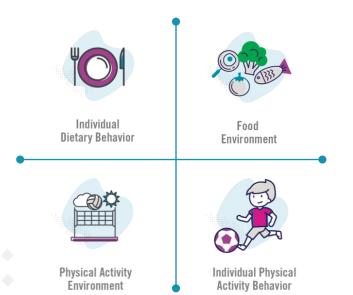


### **MEASURES REGISTRY**





# Searchable database of articles on diet and physical activity measures relevant to childhood obesity research



- Search for existing measures and measures in development and details about how to use them
- Includes information on validity, reliability, protocols on use, settings, geographic areas, populations
- Supports manuscript development, reports, and grant applications
- Great resource for teaching and for students
- Video overview of features and how to use
- Updated regularly





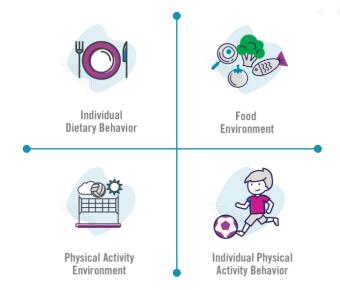
### **MEASURES REGISTRY USER GUIDES**





# Four User Guides explain measurement, discuss measure selection, and present "how-to" case studies

- Provide guidance for choosing the most appropriate measure for a research question or evaluation project
- Include key considerations for measurement, selecting measures, collecting, and analyzing data
- Help move the field forward by fostering more consistent use of measures
- Case studies illustrate considerations influencing selection of the most appropriate method given the study aims
- Slide decks available for faculty and student use







### YOUTH COMPENDIUM OF PHYSICAL ACTIVITIES





# Searchable tool of 196 common activities and the estimated energy cost associated with each activity

- Provides energy costs for sedentary activities, standing, household chores, playing in games and sports, walking and running
- Reports energy expenditure levels in youth METs; a youth MET (MET<sub>y</sub>) is a MET that has been adjusted to account for the unique physiological characteristics of children and adolescents
- For use by researchers, health care professionals, teachers and coaches, fitness professionals, and more
- Use for research, public health policy making, education, and interventions to encourage physical activity in youth
- Represents group-level estimates for energy expenditure





### Other NCCOR Activities

- Catalogue of Surveillance Systems
- Childhood Obesity Declines:
   Exploring Promising Approaches
- CORD
- Economics and Obesity
- Engaging Health Care Providers and Systems
- FLASHE Study
- Food Patterns Equivalents Database
- Get Research Used
- Health, Behavioral Design, and the Built Environment
- Healthy Communities Study
- Healthy Eating Index

- Healthy Food Incentives
- Johns Hopkins Global Obesity Prevention Center
- Lessons Learned from Global Efforts
- Measures Registry
- National Leadership on Evaluating Obesity Prevention Efforts
- Physical Activity
- Registry of Studies
- School Wellness Survey
- SNAP-Ed
- Youth Energy Expenditure
- Other

For updates on the progress of NCCOR's workgroups, visit: <a href="http://nccor.org/internalresources">http://nccor.org/internalresources</a>



### Announcements



### Calendar Reminders

- Member Meetings
  - June 15, 2018 (Washington, DC)
  - September 14, 2018 (Washington, DC)
- Member Calls
  - July 18, 2018
  - November 14, 2018

