Nutrition and Physical Activity in Child Care: The NAP SACC Program

Dianne S. Ward, EdD

Department of Nutrition
Center for Health Promotion and Disease Prevention
University of North Carolina at Chapel Hill

NAP SACC

The goal of the NAP SACC project is to promote healthy eating and physical activity in young children in child care and preschool settings



NAP SACC Development

- Interviews of child care staff
- Focus Groups with parents
- Review of literature, regulations and best practice guidelines
- Consultation with experts including advisory group



Funding for NAP SACC was provided by the Centers for Disease Control and Prevention, the National Institutes of Health, and the NC Division of Public Health

NAP SACC Steps

- 1. Self-Assessment
- 2. Action Planning
- 3. Workshop Delivery
- 4. Targeted Technical Assistance
- 5. Evaluate, Revise, and Repeat

Step 1: Self-Assess

Child Care Facility Na	ame:			
Please read each statement or question of conest responses will help us work with y SECTION I: NUTRITION	ou to build a health			
(N1) Fruits and Vegetables				
A. Fruit (not juice) is offered:	2 times per week or less	3-4 times per week	1 time per day	2 or more times per day
B. Fruit is offered fresh, frozen, or canned in own juice:	Rarely or never	☐ Some of the time	☐ Most of the time	☐ All of the tim
 Vegetables (not including French fries, tater tots, hash browns) are offered; 	2 times per week or less	3-4 times per week	☐ 1 time per day	2 or more times per day
D. Vegetables offered are dark green, red, orange, or yellow in color:	Less than 1 time per week	1.2 times per week	3.4 times per week	1 or more times per day
Cocked vegetables are prepared with added meat fat, margarine or butter;	1 or more times per day	3-4 times per week	1-2 times per week	Less than once a week or never
(N2) Additional Foods				
A. Fried or pre-fried potatoes (French fries, tater tots, hash browns) are offered:	1 or more times per day	3-4 times per week	1-2 times per week	Less than once a week or never
Fried or pre-fried (frozen and breaded) meats (chicken nuggets) or fish (fish sticks) are offered:	1 or more times per day	3-4 times per week	1-2 times per week	Less than

Nutrition and Physical Activity Self-Assessment for Child Care

Ammerman, AS, Benjamin, SE, Sommers, JK, Ward, DS. 2004. The Nutrition and Physical Activity Self-Assessment for Child Care (NAP SACC) environmental self-assessment instrument. Division of Public Health, NC DHHS, Raieigh, NC, and the Center for Health Promotion and Disease Prevention, UNC-Chapel Hill, NC.

☐ 1-2 times per

1-2 times ner

3-4 times per

week

week

☐ Less than

1 or more

times per day

once a week or

1 or more

times per day

Less than 1

time per week

C. High fat meats (sausage, bacon

D. Lean meats (baked or broiled

are offered

hot dogs, bologna, ground beef)

chicken, turkey, or fish) or beans

- Center director completes self-assessment instrument with help from key staff, such as the cook, teacher or program planner.
- This should be done without Consultant help.

Nutrition and Physical Activity Key Areas

- Fruits and Vegetables
- Fried Foods and High Fat Meats
- Beverages
- Menus and Variety
- Meals and Snacks
- Foods Outside of Meals and Snacks
- Adult Role Modeling
- Nutrition Education
- Nutrition Policies

- Active Play and Inactive Time
- TV Use and Viewing
- Play Environment
- Adult Role Modeling
- PA Education
- PA Policies

Step 2: Action Plan

- Initially, director chooses 1
 nutrition, 1 physical activity,
 and 1 other key area to
 improve.
- Improvements chosen should be facility guided with the Consultant available only for assistance and support.

acility Name:					
Date:	Target Date for Evalu	uation:			
Areas for Improvement/Specific Goals:					
Self- Assessment Area	Goals	Target date for completion			
Nutrition Area:	1.				
	2.				
	3.				
Physical Activity Area:	4.				
	5.				
	6.				
Additional Area:	7.				
	8.				
	9.				

Step 3: Deliver Workshops

- The NAP SACC
 Consultant delivers
 the 5 workshops to
 center staff at a
 mutually agreeable
 time and place.
- These are currently approved for CEUs.











Step 4: Provide Technical Assistance

- Regular follow-up with center to see how they are doing.
- This offers them a means of support, helps break through barriers they may be facing, and facilitate the changes they hope to make.
- This may be the most important step in the process!!

Step 5: Evaluate, Revise and Repeat

- This is not a finite process, but evolving over time.
- After 6 months or earlier if necessary,
 Director's complete the self-assessment again.
- What has changed? Did they make the improvements they chose? What would they like to do next?

NAP SACC Tool Kit

NAP SACC Notebook

- Assessment Tool
- Consultation Guides
- Parent Handout
- Center Handouts

Workshops

- Childhood Overweight
- Healthy Eating
- Physical Activity
- Personal Health (2004)
- Working with Families (2006)





NAP SACC Evaluation

- 96 child care center across
 33 counties in NC
- Random assignment into:
 - Intervention
 - Web-trained
 - In-person trained
 - Minimal intervention (Self assessment only)
 - Comparison (delayed intervention)



CCHC and Centers

- ALL active CCHC, except those from the pilot, were invited to participate
- Recruited 33 CCHC
- CCHC identified 3 centers in their county
- NAP SACC staff recruited centers

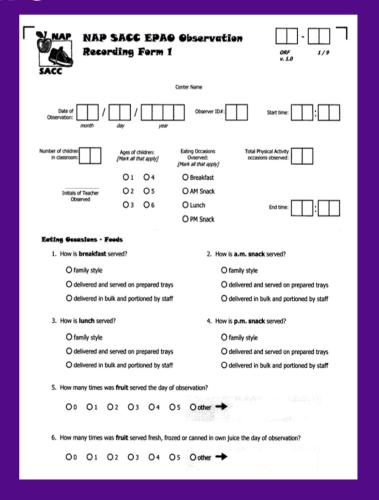
Evaluation Design

Group 1	Group 2	Group 3	
Intervention (in-person training)	Intervention (web training)	Control	Totals
9 CCHC	10 CCHC	9 CCHC	28 CCHC
29 Centers	29 Centers	26 Centers	84 Centers

^{*}Additional 12 centers were in a "minimal" intervention group receiving self-assessment only

Use Observational Outcome Measure

- EPAO: Environment and Policy Assessment and Observation
- Based on NAP SACC program and standards
- Completed by trained field observers



Evaluation Outcomes

- 2 centers closed during the evaluation period
- 15 centers did not receive the intervention
 - -3 CCHC (9 centers)
 - 6 additional centers did not start the intervention

Item Analysis

Nutrition	Mean	Low	High
Control	-0.50±7.5	-19	+15
Intervention	4.34±7.3	-11	+29
Physical Act	Mean	Low	High
Control	-0.15±6.8	-8	+11

Overall Results

 Intervention centers increased scores in both the nutrition and physical activity areas, although greater changes were seen in the nutrition area



Process Evaluation: Action Plans

- 16 centers targeted a change in milk (from whole to reduced fat or skim)
 - 9 centers made this change and while 7 did not
 - Some centers made big changes (from whole to skim)
- 11 centers targeted fruit/vegetables
 - 5 changed fruit; 3 changed vegetables
 - Few were able to target both

Process Evaluation: Action Plans

- 14 centers targeted increasing structured (some type of staff led) physical activity
 - 6 centers made this change, 8 did not
- 10 centers targeted parent nutrition and 12 centers targeted physical activity education
 - Of these 22 centers, only 1 center was able to achieve this objective



States Using NAP SACC Intervention Materials



National Dissemination Efforts

- NAP SACC was selected as an "effective practice-based intervention"
- Received funds from the Center for Excellence in Training and Research Translation to revise and prepare NAP SACC for dissemination

Timeline

- Currently, access can be granted to the current NAP SACC training web site
- Contact <u>napsacc@unc.edu</u>
- New CDC-funded site will be available January, 2008

NAP SACC Publications

- Ammerman A, Ward D, Benjamin S, Ball S, Sommers J, Molloy M, and Dodds J. An Intervention to Promote Healthy Weight: Nutrition and Physical Activity Self-Assessment for Child Care (NAP SACC) Theory and Design. Preventing Chronic Disease. (Jul;4(3):A67. 2007
- Ball, S, Benjamin, S, Ward, DS. Development and reliability of an observation method to assess food intake of young children in child care. 2007; Journal of the American Dietetics Association; 107(4):656-61.
- Benjamin, S, Ammerman, A, Sommers, J, Dodds, J, Ward, DS. Improving nutrition and physical activity environments in child care: Results from the NAP SACC pilot project. Nutrition Education and Behavior. 2007;39(3):142-149.
- Benjamin SE, Neelon B, Ball SC, Bangdiwala SI, Ammerman AS, Ward DS. Reliability and Validity of a Nutrition and Physical Activity Environmental Self-Assessment for Child Care. International Journal of Behavioral Nutrition and Physical Activity. 2007 Jul 5;4(1):29.

Contact Us

www.napsacc.edu

Sarah Ball, MPH, RD
Project Director

napsacc@unc.edu 919-966-6035

