

A Community-based Participatory Approach to Wellness Policy Implementation and Process Evaluation: A Case Study

Donald M. Lucente, MEd, Leslye T. Jones, M.S.Ed., Caitlin Kelly, MA, April Bouzan, MEd, Mary Driscoll, MEd, and Stephanie Shapiro Berkson, PhD, MPH APHA November 6, 2013



Presentation Overview

- Purpose of study
- Background
 - Obesity prevalence in Boston, MA
 - BPS Wellness Policy
 - Edison K-8 School
 - Edison Wellness Council
- · Methods
- Results
- Assets
- Challenges & barriers
- Lessons learned
- Future steps

Purpose

 To conduct a process evaluation of one school's nutrition and physical activity environment improvements, pre- and post- establishment of a participatory wellness committee.

Edison K-8 School

Background: Obesity Prevalence

- MA adult obesity rate (23%) ranks 3rd lowest in US.^{1,2}
- But, MA youth obesity rate (13%) ranks 17th lowest in US.²
 - And, in Boston, approximately 15-25% of Boston Public School Students (BPS) are obese!^{3,4}
 - Compared to approximately 9% of Brookline Public School students⁴

balant solvers for headin. An Access have for final to heading years and heading user that any transfer of the solution of th

Edison K-8 School

Background: Physical Activity and Nutrition

In 2011:

5 Youth Risk Behavior Survey 2011, Youth Risk Behavior Surveillance System (YRBS), Centers for Disease Control and Prevention (CDC). DATA ANALYSIS: Boston Public Health Commission Research and Evaluation Office

- 29% of MA public high school students engaged in regular physical activity.
- 19% ate at least five servings of fruits and vegetables daily.
- 24% consumed at least one soda daily. 5

BPS Health and Wellness

- BPS Wellness Policy first passed on June 30, 2006 and was updated during the 2012-2013 school year.
- BPS Health and Wellness Department established in 2010
- As stated in the BPS Wellness Policy:

"A wellness Council shall be established and/or maintained both for the district and for each school. These councils shall consist of members who are representative and inclusive of the Boston school community. They shall recommend, review, and implement school district policies addressing wellness related issues that affect student health."





Edison Wellness Council Objectives

By the end of the school year:

- Begin a formal tracking process specific to Edison students of student BMI, using state mandated school BMI data
 By the end of the 2015-2016 school year, decrease overall BMI of Edison students by 2%
- Increase minutes spent engaged in physical activity in classrooms by 20 minutes/day
- Improve the school nutrition environment as measured by changes influenced by the implementation of at least three new school policies implemented or proposed
- Increase the awareness of Edison teachers and families of health and wellness and the BPS wellness policy as measured by wellness council event attendance and knowledge change assessed on surveys.

Edison K-8 School

Methodology

- A wellness team including parents, students, teachers, the school nurse, and the principal determined needs, assets, and likely uptake of best practice intervention.
- Process Documentation
 - Nutrition and physical activity environment improvements and student exposure were implemented and documented.

Results: Physical A	ctivity	
 Physical education 		
- K1-5: >1 time/week	(
- 6-8: 1 time/week		
 Health and Movemer 	nt Class	
– K1-5: >1 time/week	(
 Moving minute 		
– K1-8: Daily		
 Playworks 		
 K1-5: 2 times/month 	h	
Grade	Increase Minutes of Physical Activity/week	
K1-5	105 minutes (n=493)	
	130 extra minutes/month	
6-8	70 minutes (n=345)	





Results: Nutrition Environment

- Universal breakfast
- Universal lunch
- All students are offered fresh produce daily in addition to varying menu items
- Water cooler availability throughout school
- Annual wellness fair
- Vending machines eliminated!







Health and Wellness Fair Evaluation

- Participants reported that they learned: •
 - Soda has a lot of sugar Soda has a lot of sugar
 Importance of eating healthily and relationship with overall wellness
 Importance of whole grains and
 Importance of eating minimum of 5 fruits & veggies/day
 Importance of walking at least 20 min/day
- · Direct quotes from survey

 - "Eating unhealthy can cause problems."
 "Eat fresh"
 "Food can taste good and be healthy at the same time."
- Participants reported that they enjoyed: Food (especially Haley House food and chocolate avocado pudding) Raffle

 - Rame Fun physical activities (lots of attendees like learning how to play Switch), Variety of vendors Community building, including meeting other Edison families and meeting the school nurse

Discussion: Assets

- Boston (Resources in Boston!)
- State and municipal policy
- District support
- School Wellness Department createdInternal school support
 - Principal, nurse, (some) teachers, family council
 - Participatory wellness council
- Urban school yard
- Boston Schoolyard initiative recipientRich cultural diversity
 - Edison K-8 School

Challenges and Barriers

- Implementing culturally tailored healthy eating and physical activity opportunities
- Changing the thinking regarding food rewards and celebrations:
- "On the 'Nutrition' item, I ...strongly disagree with not being able to give out candy, have birthday/holiday celebrations with a cupcake, etc. ..." – Edison teacher
- · Food offered in cafeteria
- School-specific effect evaluation is costly (both in regard to financial and personnel resources) Edison K-8 School

Lessons learned

- Strong support from school and district administration is needed for successful implementation (case example: removal of vending machines).
- Physical activity must be embedded throughout the day and into K-8 curriculum.
- Changing food culture is harder among school staff and parents than among students. Full implementation of district policy regarding competitive foods will be most successful if implemented gradually.
 - Teacher and parent frustrations must be acknowledged and addressed.
- School health and wellness program implementation works best when overseen by a participatory coalition.

Future steps

- Ensuring that School Food Service plays a larger roll on the wellness council
- Nutrition environment
- Ensuring physical activity intervention sustainability

Edison K-8 School

Conclusion

A participatory school wellness committee is a powerful strategy to implement district wellness policy and sustainable health promoting school environment change.

Edison K-8 School

References

- 1. Boston Moves for Health. An Action Plan for Healthy Weight and Healthy Community. Boston: 2012. Web. 20 Oct 2013. http://www.bphc.org/orograms/dib/chronid/sease/bostonmovesforhealth/ Documents/BMH%20Action%20Plan%20-%20Apri%202012.pdf
- Trust for America's Health. F as in Fat: How Obesity Threatens America's Future. Washington D.C.: Trust for America's Health, 2011. Web. 20 Oct 2013. < http://www.healthyamericans.org/assets/files/TFAH2011FasInFat10.pdf>
- Boston Moves for Health. An Action Plan for Healthy Weight and Healthy Community. Boston: 2012. Web. 20 Oct 2013. http://www.bphc.org/programs/cib/chondisease/bostonmovesforhealth/ Documents/BMH%20Action%20Plan%20-%20April%202012.pdf
- Kotz, Deborah. Obesity rates down for infants, toddlers. Boston: Boston.com, 2012. Web. 20 Oct 2013. http://www.boston.com/lifestyle/health/articles/2012/04/23/ obesity rates drop in states youngest children_study_shows/?page=2
- Youth Risk Behavior Survey 2011, Youth Risk Behavior Surveillance System (YRBS), Centers for Disease Control and Prevention (CDC). DATA ANALYSIS: Boston Public Health Commission Research and Evaluation Office.



