



Implementing Smarter Lunchroom Makeovers in New York State Middle Schools: Results of Process Evaluation

Presented by Alisha Gaines, PhD, Cornell University, Division of Nutritional Sciences

Welcome, thank you for joining!

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During the last 10 minutes of this presentation Alisha will address as many questions as time allows. To ask a question please use the Q & A feature.

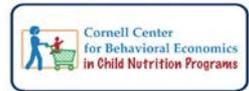
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Smarter Lunchrooms: Does Changing Environments Really Give More Nutritional Bang for the Buck?

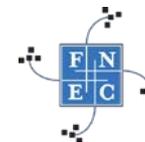
The Smarter Lunchrooms Movement (SLM)

- Cornell University Food & Brand Lab, Center for Behavioral Economics in Child Nutrition Programs (BEN Center)
- Easy no- or low-cost changes to encourage students to select, eat, and enjoy healthier foods in school without eliminating their choice.



The Food and Nutrition Education in Communities group (FNEC)

- Cornell University Division of Nutritional Sciences
- Vision of healthy people and food secure communities through research- and issue-based programming with a focus on low-income individuals and families.



Agriculture and Food Research Initiative (AFRI)

- 2011 call for research-extension studies focused on middle-school-aged youth
- BEN-FNEC-Cooperative Extension project awarded in 2012 (grant no. 2012-68001-19604)



United States
Department of
Agriculture

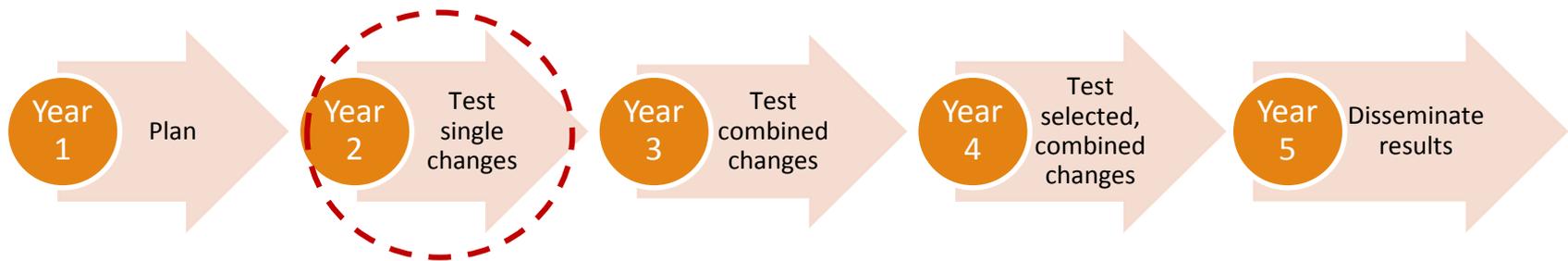
National Institute
of Food and
Agriculture

Study Objective & Design

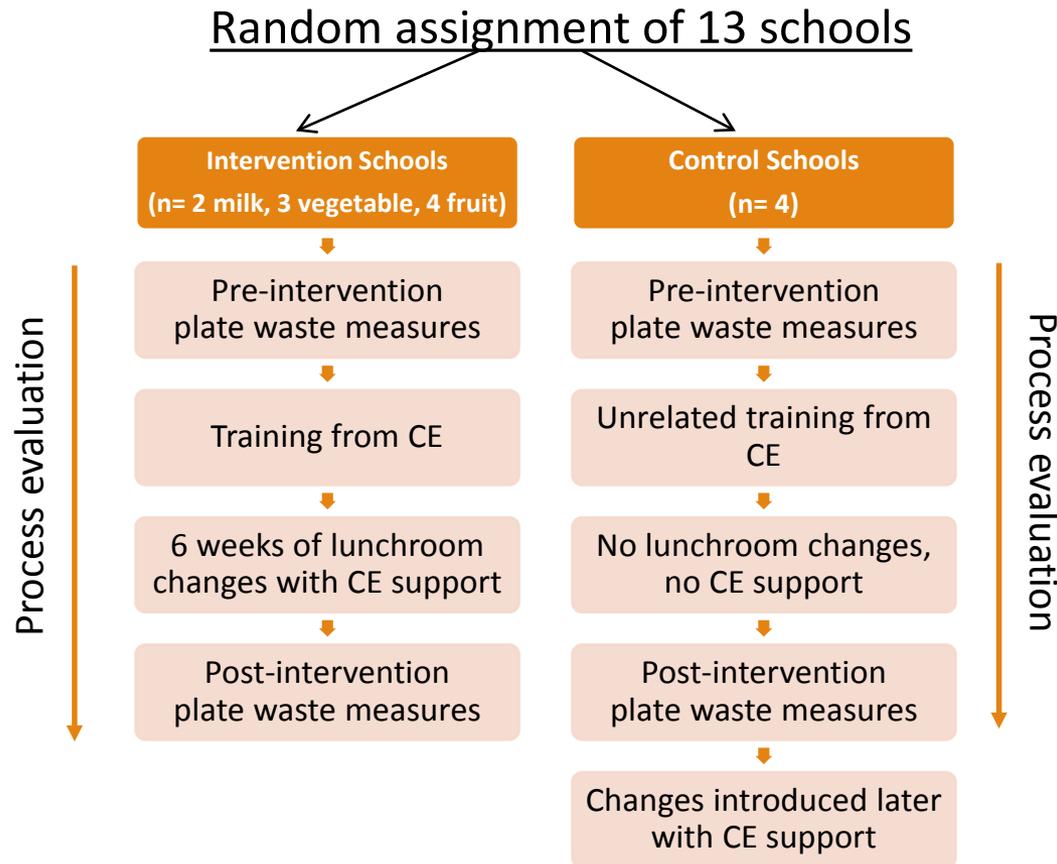
Overall Objective

- Examine how low- or no-cost changes in New York State middle school cafeterias impact students' fruit, vegetables, and unsweetened milk selection and consumption, measured by plate waste.

A series of randomized controlled trials over 5 years



Year 2 Study Design



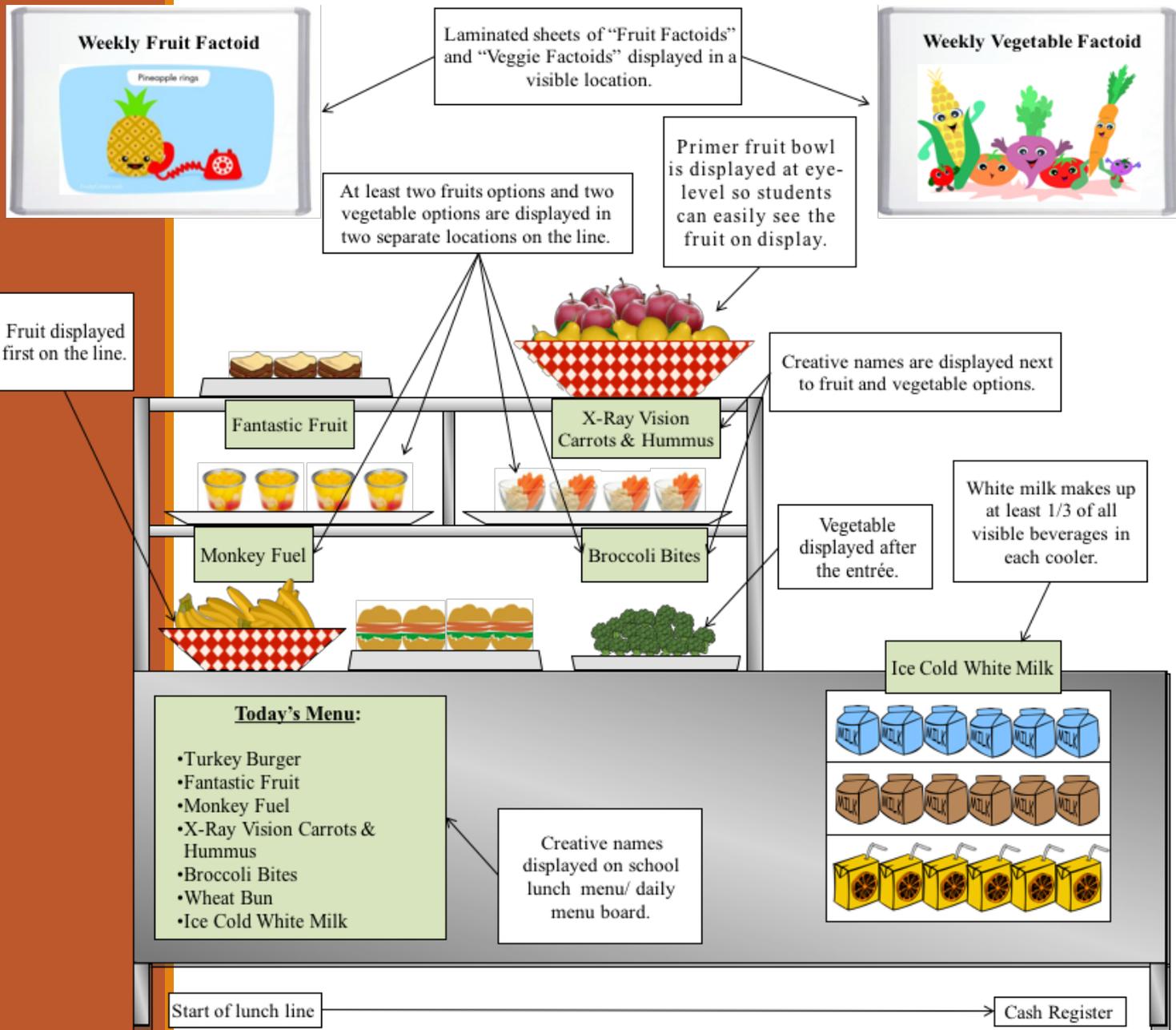
Roles of Cooperative Extension (CE)

- 1) Receive training from campus staff
- 2) Recruit schools
- 3) Train food service staff
- 4) Provide weekly support during intervention

Intervention Protocol

15 fruit, 13 vegetable, & 9 milk protocol items in categories:

- 1) Placement & display
- 2) Creative naming
- 3) Nutrition messaging
- 4) Variety (FV only)



Process Evaluation Overview

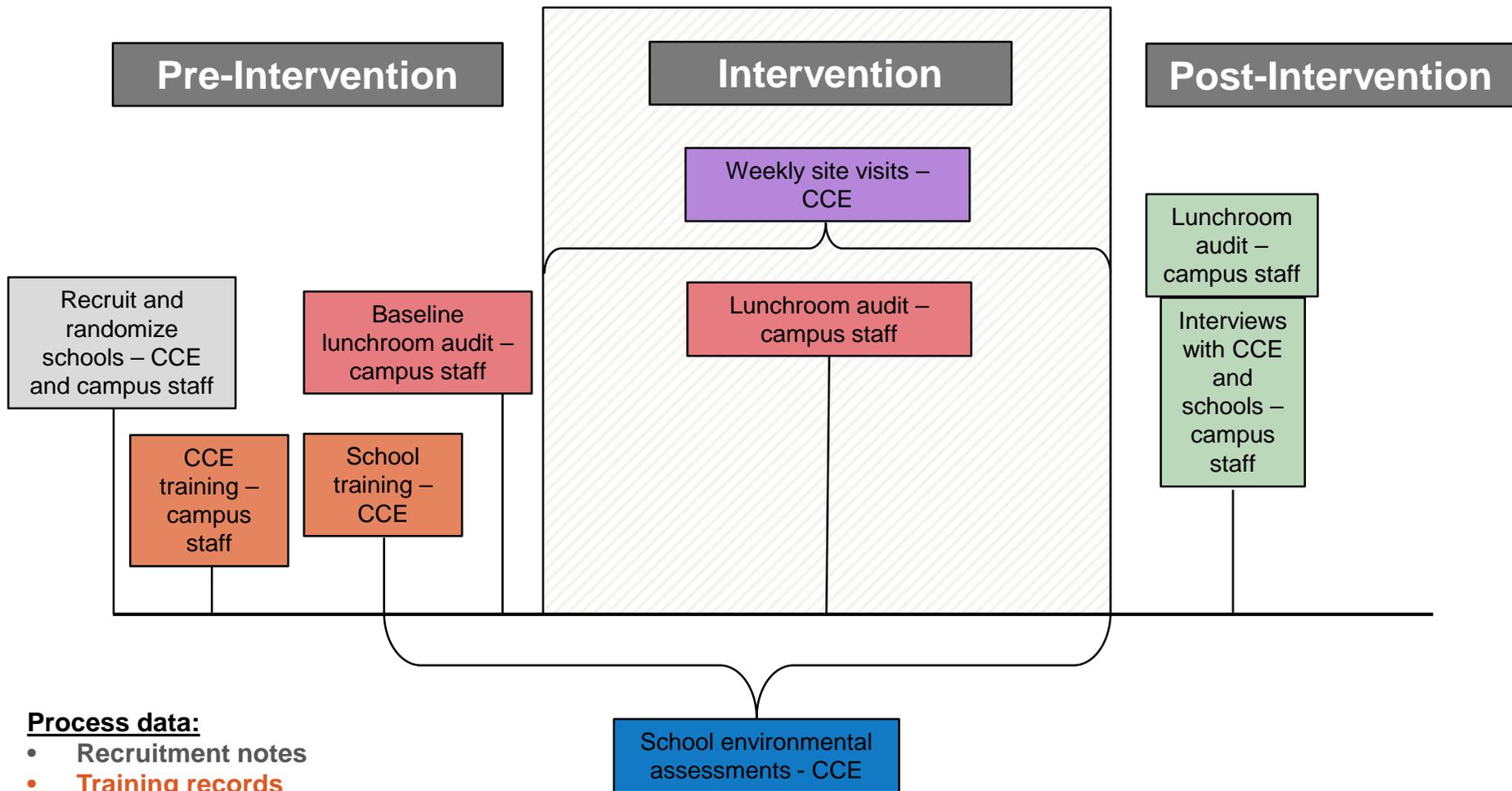
What is process evaluation?

- What happened? How? Why?
- Informs outcome results (plate waste)

Process evaluation objectives

- Monitor protocol fidelity
- Determine maintenance post-intervention
- Identify facilitators and barriers to implementation

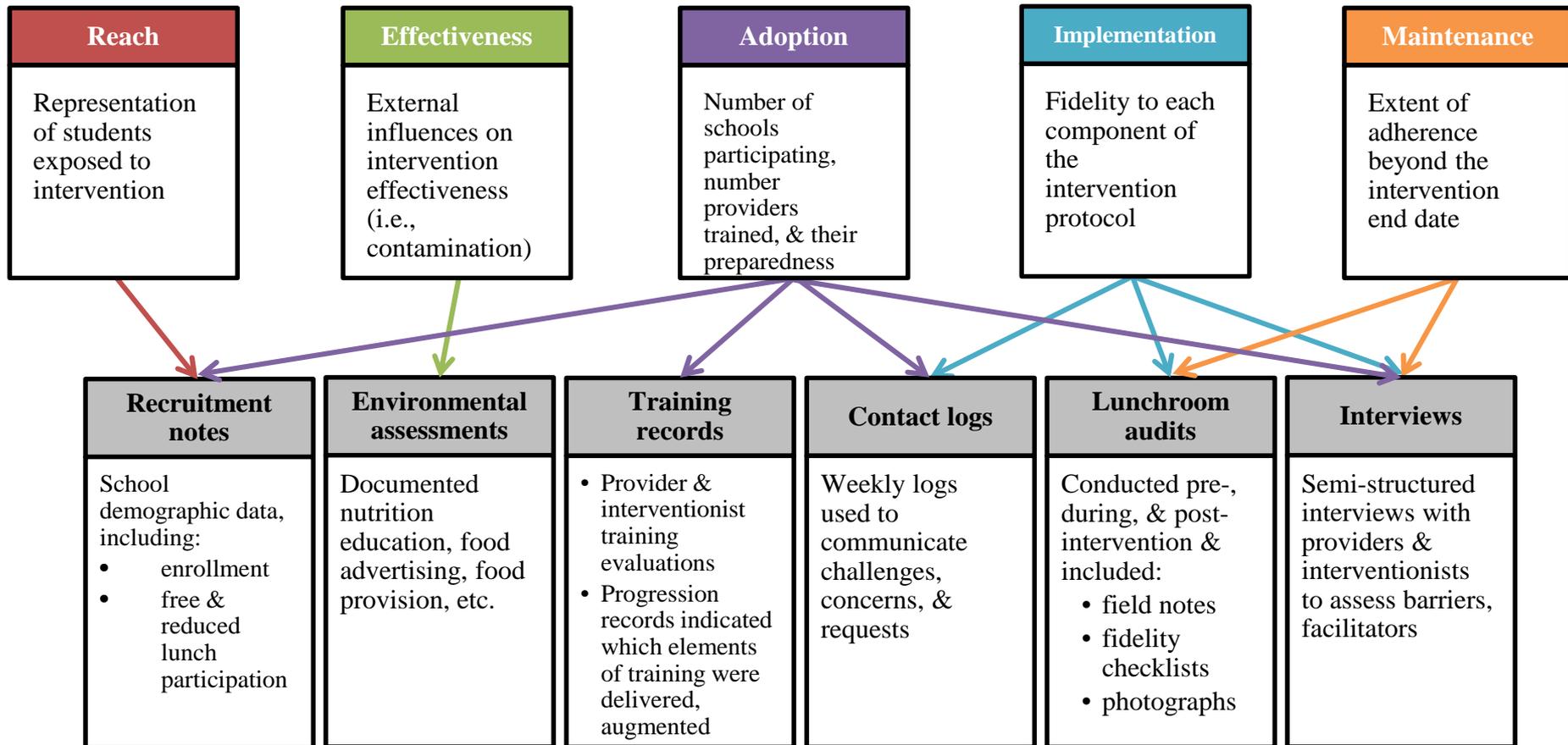
Process Evaluation Timeline and Measures



Process data:

- Recruitment notes
- **Training records**
- **School environmental assessments**
- **Contact logs**
- **Lunchroom audits with fidelity checklists for scoring, photos, and field notes**
- **Post-intervention interviews**

RE-AIM Framework & Process Evaluation Measures



Results: Reach

- Data sources: Recruitment notes, NY State Dept. of Education (NYSED)
- 13 schools, ~2100 students
 - 75% of enrolled 6-8th graders
 - More in urban schools with Community Eligibility Provision
 - 455 low-income students

Results: Effectiveness

- Data source: Environmental assessments
- Sources of 'contamination'
 - Wellness policies
 - Extracurricular food and nutrition programming
 - New cafeteria practices

Results: Adoption

School

- Data sources: Recruitment notes, NYSED data
- 13 schools (6 urban, 7 rural)
- Randomization generated 4 control, 2 milk, 3 vegetable, 4 fruit schools

Cooperative Extension

- Data sources: training records, contact logs, interviews
- 16 staff trained by research staff; high evaluation ratings
- Reported comfort with training materials, but needed them earlier
- Experienced unanticipated time restraints for food service staff training
- Requested guidance for food service staffs' concerns

Food service staff

- Data sources: training records, contact logs, interviews
- 63 staff trained with high evaluation ratings
- Limited suggestions for training improvement

Results: Implementation & Maintenance

Implementation	Maintenance
Fidelity to each component of the intervention protocol	Extent of adherence beyond the intervention end date

Fruit

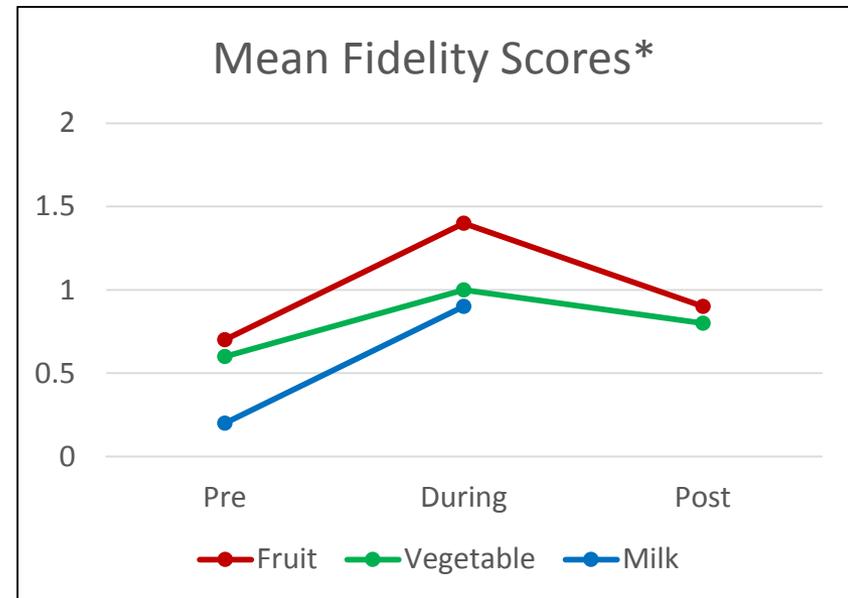
- ~70% compliance during intervention
- Highest: Variety, placement and display
- Lowest: Nutrition messaging

Vegetable

- ~50% compliance during intervention
- Highest: Variety, placement and display
- Lowest: Nutrition messaging

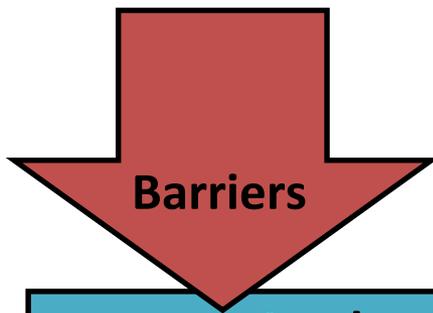
Milk

- ~45% compliance during intervention
- Highest: Placement and display
- Lowest: Creative naming



*All data from lunchroom audits/fidelity checklists

Results: Facilitators & Barriers



- NSLP changes
- Health department regulations
- Kitchen structure
- Time restraints
- Provider perceived ineffectiveness, lack of buy-in



- SLM recognition
- Staff dedication to student health
- Potential benefits for bottom line
- Satisfactory training efforts
- Weekly support from interventionists



Addressing Barriers for Future Study Iterations

Lack of buy-in

- Provided guidance for involving food service staff and addressing resistance
- Adapted training to highlighting prestige and benefits of participation
- Provided pre- and post-intervention incentives for food service staff
- Redesigned the intervention to allow staff to select intervention components

Lack of time for changing routines and materials

- Modified materials to better suit school staff needs
- Enhanced training to include practicing making changes

Takeaways

- Process evaluation is essential, and RE-AIM is a helpful framework.
 - Determine methods for monitoring progress and gathering feedback.
 - Increased monitoring for our research project was warranted.
- Involve food service staff in all aspects of SLM endeavors, including planning and evaluation.
 - Talk about benefits to student health, to bottom lines.
 - Build in opportunities for constructive feedback and praise.
 - CE can facilitate this dialogue.
- Partnerships can be mutually beneficial.
 - For some schools, external support is great! For those that want to work with schools, like CE, the cafeteria may be a place to start!
 - Designate point persons for communication.
 - Seek SLM training opportunities for school staff and non-school partners.

Resources

Implementing Smarter Lunchrooms Makeovers in New York state middle schools: an initial process evaluation

- <https://archpublichealth.biomedcentral.com/articles/10.1186/s13690-016-0153-9>
- Contact Alisha Gaines (againes@cornell.edu) with questions

SLM

- <http://smarterlunchrooms.org/>
 - See Our Ideas>Best Practices, Resources, and Training
 - Other SLM webinars
 - Measuring the Long-Term Impact of Behavioral Interventions in School Cafeterias
<https://learn.extension.org/events/2856>

Food and Nutrition Education in Communities (FNEC)

- <http://fnec.cornell.edu/>

SNAP-Ed Toolkit

- <https://snaped.fns.usda.gov/national-snap-ed/snap-ed-plan-guidance-and-templates>

Acknowledgements

- **School food service** and **Cornell Cooperative Extension** staff in Erie, Seneca, Steuben, Yates, Jefferson, Chautauqua, Albany, and Schenectady counties
- **Research staff members** Laura Thomas, Lara Latimer, Lizzy Pope, Tisa Hill, Adam Brumberg, Katherine Greene, Gnel Gabrielyan, and plate waste volunteers
- **Principal Investigators** Brian Wansink, David Just, and Jamie Dollahite
- **Develop Healthy Eating Dialogues content group members**
- **FNEC group**

Thank you for attending!

We hope you found the presentation informative and useful!

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<https://learn.extension.org/events/2857>

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