

child obesity 180_reverse the trend.



The Effectiveness of the Healthy Kids Out of School Initiative

Presented by: Clarissa M Brown MS, MPH



Research Team:

Economos CE, Anzman-Frasca S, Koomas A, Folta S, Fullerton K, Gonsalves D, Sacheck J, Brown C, Nelson ME



Healthy Kids Out of School The Opportunity

 Out-of-school time (OST) programs are well positioned to contribute to the establishment of healthy habits. They engage millions of children, including large numbers of minority youth.



Healthy Kids Out of School The Opportunity

- Out-of-school time (OST) programs are well positioned to contribute to the establishment of healthy habits. They engage millions of children, including large numbers of minority youth.
- Research suggests opportunities for healthy eating and physical activity in the OST setting have room for improvement. To date, most research has focused on structured, staff-led after-school programs.



Healthy Kids Out of School The Opportunity

- Out-of-school time (OST) programs are well positioned to contribute to the establishment of healthy habits. They engage millions of children, including large numbers of minority youth.
- Research suggests opportunities for healthy eating and physical activity in the OST setting have room for improvement. To date, most research has focused on structured, staff-led after-school programs.
- Healthy Kids Out of School (HKOS) identified, developed and supported the implementation of principles to improve nutrition and physical activity practices in volunteer-led OST programs.



Healthy Kids Out of School

Three Guiding Principles





Healthy Kids Out of School Three Guiding Principles



Drink Right: Choose water instead of sugar-sweetened beverages.



Move More: Boost movement and physical activity in all programs.



Snack Smart: Fuel up on fruits and vegetables.



4th H for Health Challenge Tracker

Congratulations for taking on the 4th H for Health Challenge! Use this tracker to record the dates of the meetings or gatherings when your club has water, a healthy snack, or performs 15 minutes of physical activity.

Name: # of Participants:



Healthy Meeting Activities:

Meeting or Gathering Dates:

Serve a fruit or vegetable snack at 3 meetings.*

1 2 3 *Snacks served at events or other gatherings can fulfill this requirement.

There is no food at my meetings.

9 💢



primary beverage at 6 meetings.

Quick Tips: Drink Right

Make sure water is in plain sight and easily accessible during meetings. Encourage youth to bring a water bottle to meetings and show them where they can refill it.

Quick Tips: Move More

Make physical activity fun!

Try music or props, like balls or jump ropes. Keep all games and activities non-competitive and encourage all youth to participate.

Quick Tips: Snack Smart

Ask volunteers to rotate bringing in a fruit or vegetable snack. Check out the Snack Smart handout for ideas and activities.

Completed the Challenge? Contact your local 4-H staff member to request a certificate for your club!

Coaching Healthy Habits Training







Time: 6 minutes

Healthy Kids Out of School Evaluation

GOAL: To assess the extent to which the three healthy practices were being met before and after the implementation of the HKOS interventions promoting them.

METHODS: Validated online survey (Out-of-School-Time Snacks, Beverages, and Physical Activity Questionnaire) measuring nutrition and physical activity offerings as reported by OST program leaders in Maine, Massachusetts and New Hampshire.

ANALYSIS: Frequencies were calculated to the extent to which healthy snack, beverage, and physical activity criteria were met at baseline and follow-up.



Healthy Kids Out of School Defining Success

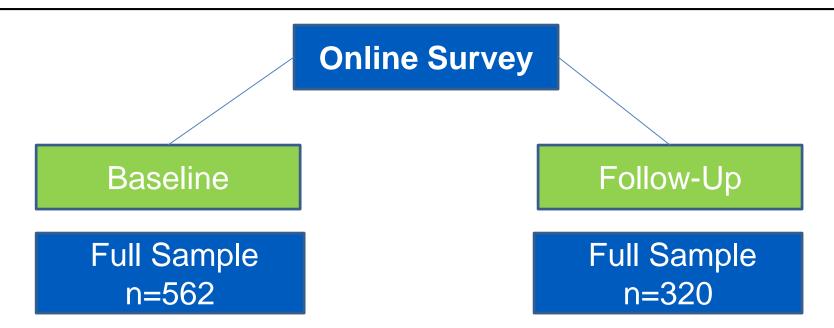
- Success variables were created to indicate implementation of healthy snack, beverage, and PA practices as defined by the evidence-based HKOS principles.
- Successful typical meeting practices:
 - Offer water as the only beverage.
 - Serve fruits and/or vegetables for snack.
 - Include physical activity during programming time.

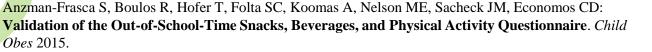




HKOS Evaluation: Enrichment Programs

Sample Overview





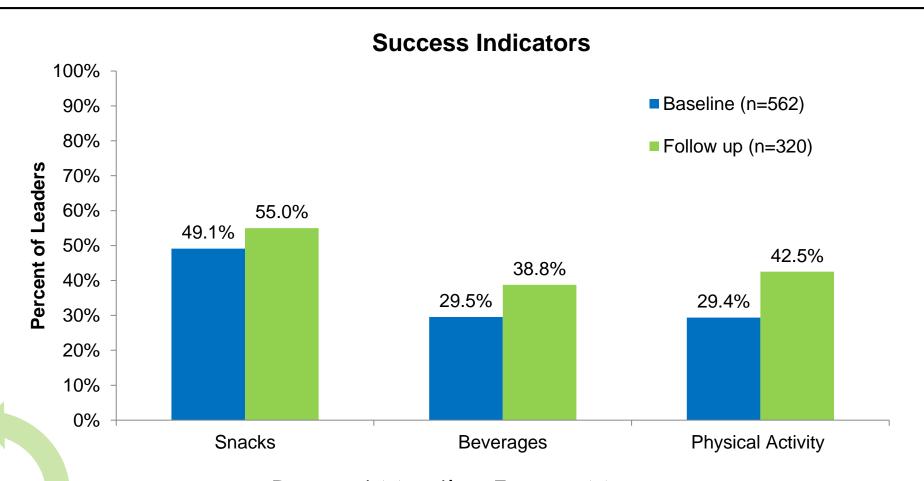


Child Demographics: Enrichment Programs

	Baseline	(n=530)	Follow-u	p (n=294)
Participant Characteristics	Mean (%)	Median	Mean (%)	Median
Race/Ethnicity				
White	90.5	99	89.6	99
Black	3.1	0	2.8	0
Hispanic	2.3	0	1.9	0
Other	2.2	0	3.2	0
Asian	1.9	0	2.6	0
Gender				
Boys	79.5	100	80.5	100
Girls	20.5	0	19.6	0
Age (years)				
< 5	0.5	0	0.5	0
5-7	17.5	0	16	0
8-12	54.6	50	49.7	50
> 13	27.5	6	33.8	25

HKOS Success Indicators: Enrichment Programs

Baseline vs Follow-up

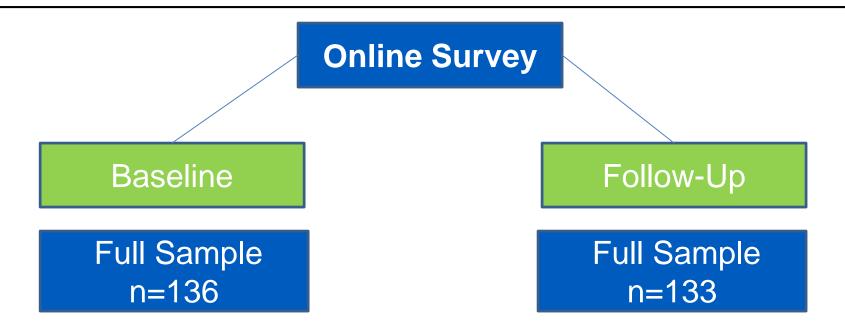


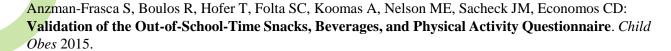
Percent Meeting Two or More 27.6% Baseline vs 40.6% Follow-up



HKOS Evaluation: Sports Programs

Brief Overview





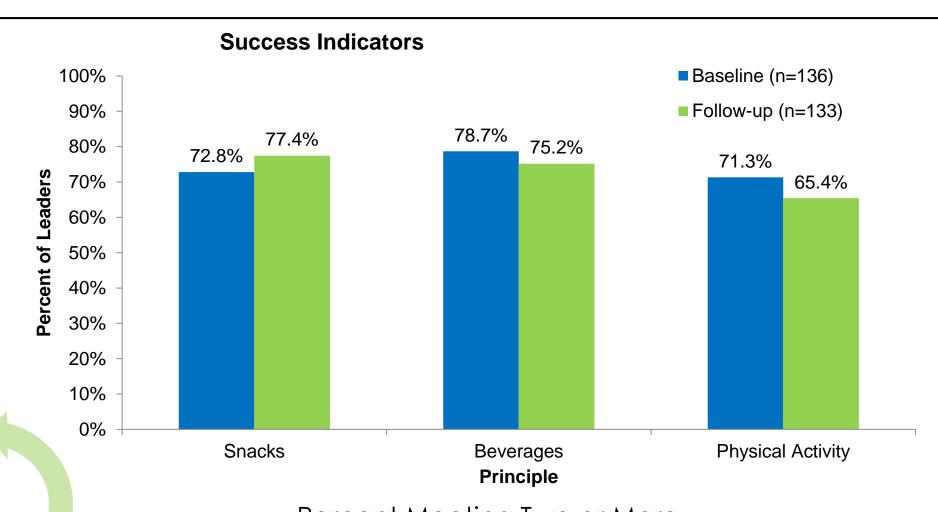


Child Demographics: Sports Programs

	Baselin	e (133)	Follow-u	p (n=127)
Participant Characteristics	Mean	Median	Mean	Median
Race/Ethnicity				
White	81.8	90	83.1	90
Black	5	0	3.7	0
Hispanic	4.7	0	4.2	0
Other	4.8	0	3.9	0
Asian	3.7	0	5.1	0
Gender				
Boys	52.1	60	43.4	40
Girls	47.9	40	56.6	60
Age (years)				
< 5	0.9	0	4.6	0
5 - 7	12.7	0	23.8	0
8 - 12	82.6	100	68.7	100
> 13	3.8	0	2.8	0

HKOS Sports Success Indicators

Baseline vs Follow-up



Percent Meeting Two or More
82.4% Baseline vs 78.9% Follow-uphild obesity 180
reverse the trend

Healthy Kids Out of School Conclusions

- Volunteer-led out-of-school time (OST) programs can promote nutrition and physical activity by implementing three simple, actionable principles.
 - Our national partner organizations have enthusiastically adopted the evidence-based principles based on the success of our pilot-program.
- These programs are relevant from a public health standpoint given the large population of children regularly participating in these programs, many for multiple years, and the potential for repeated exposure.
- More research in other geographic areas can further elucidate the generalizability of the current results.



Acknowledgements

- Harvard Pilgrim Healthcare Foundation (funding organization)
- Partner OST organizations:
 - Boy Scouts of America
 - 4-H
 - US Youth Soccer
 - Pop Warner Football
- Healthy Kids Out of School Team: Alyssa Koomas, Megan Halmo, Anna Marie Finley, Karen Fullerton, Diane Gonsalves

http://www.healthykidshub.org



Questions?



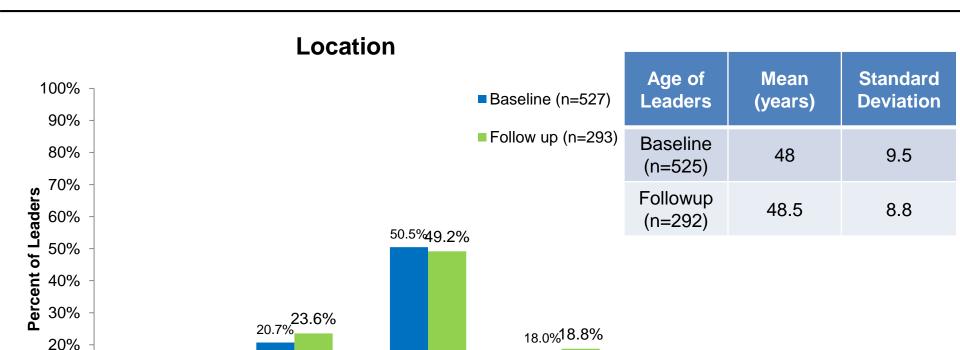


Supplementary Slides





Leader Demographics: Enrichment Programs Baseline vs Follow-up



Rural or farm area

Small town

10.8% 8.5%

City

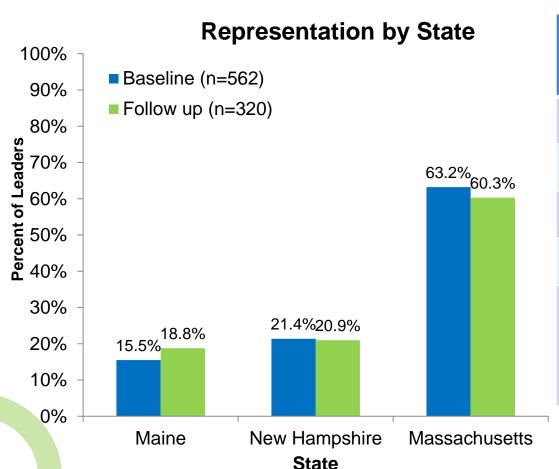
Suburb

10%

0%



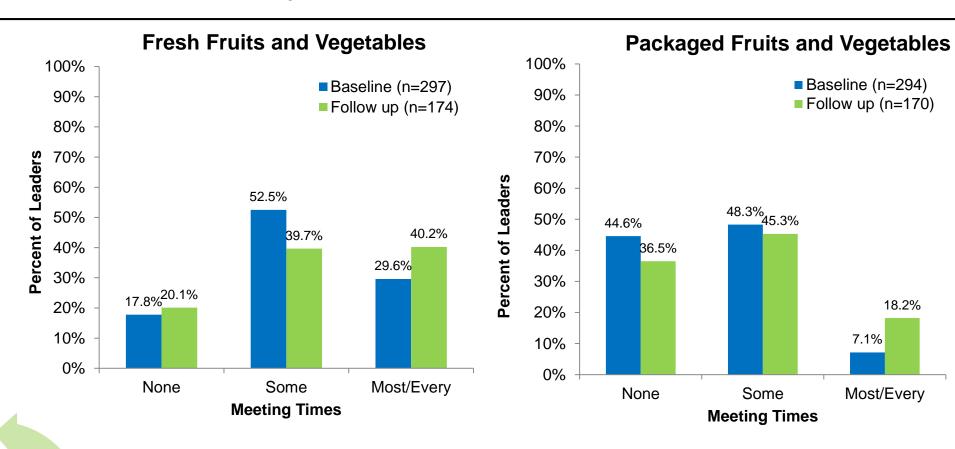
Leader Demographics: Enrichment Programs Baseline vs Follow-up



Race of Leaders	Baseline Frequency (n=503)	Follow-up Frequency (n=281)
White	494	271
Other	7	2
Black	0	1
Asian	0	2
American Indian or Alaskan Native	2	5

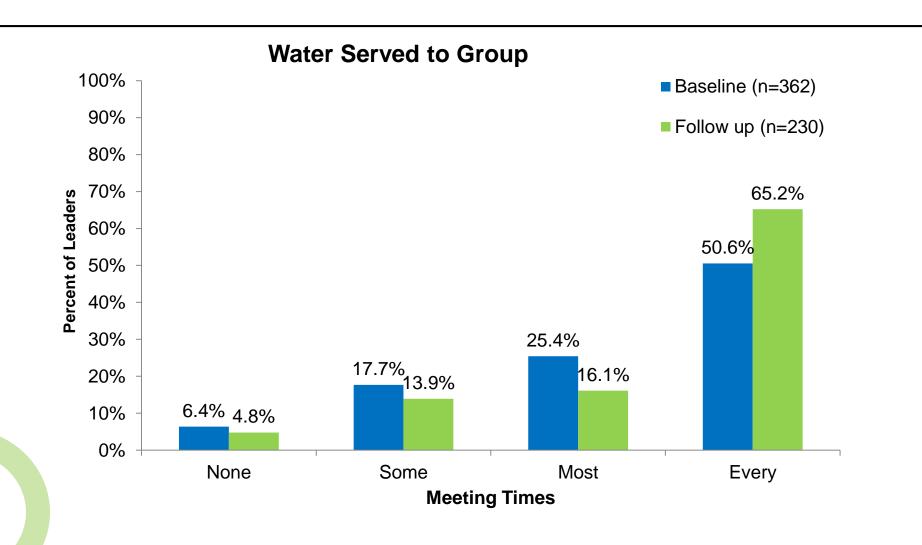


Enrichment Results: Snacks Provided for Group



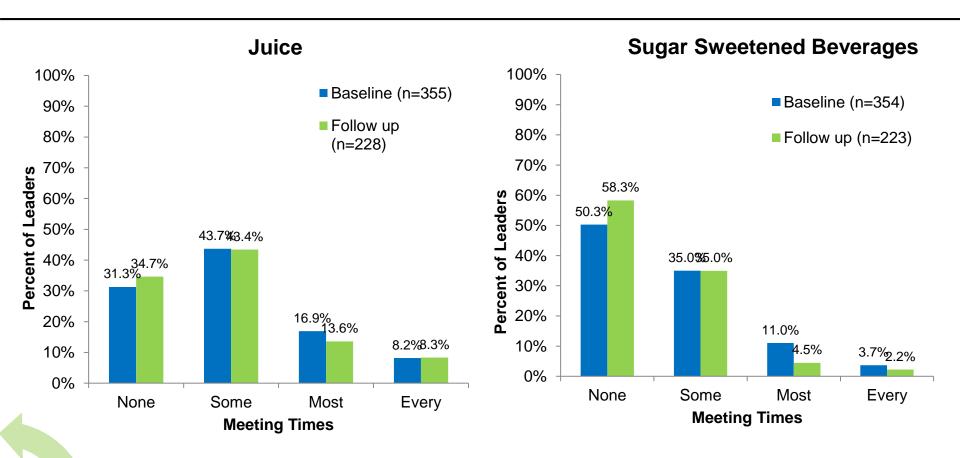


Enrichment Results: Beverages Provided for Group Baseline vs Follow-up



child obesity 180

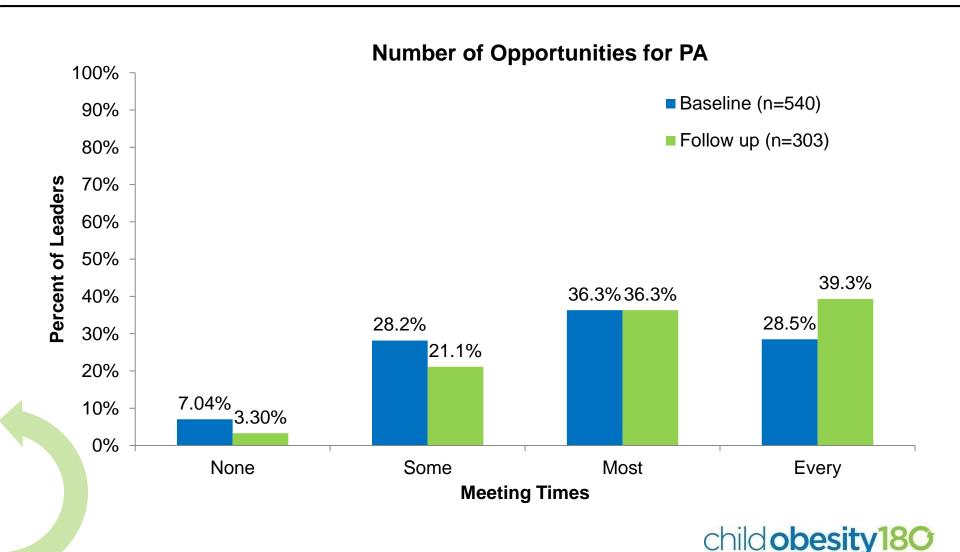
Enrichment Results: Beverages Provided for Group





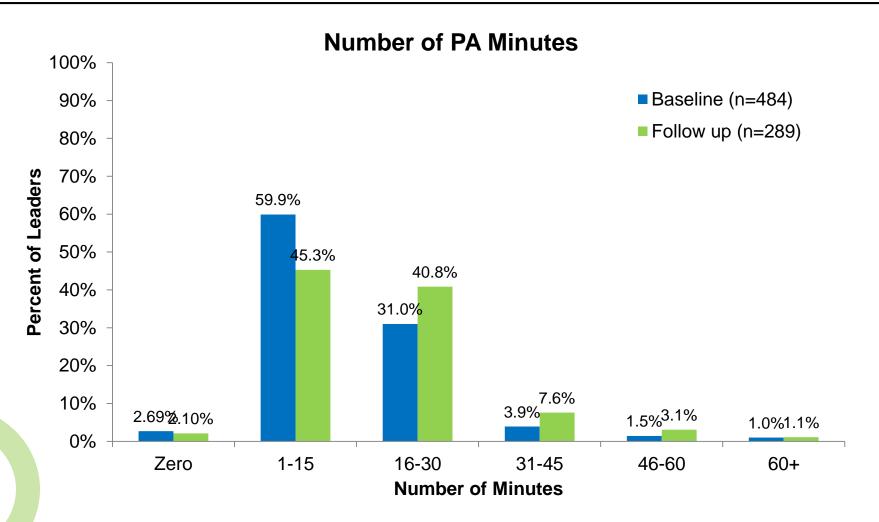
Enrichment Results: Physical Activity

Baseline vs Follow-up



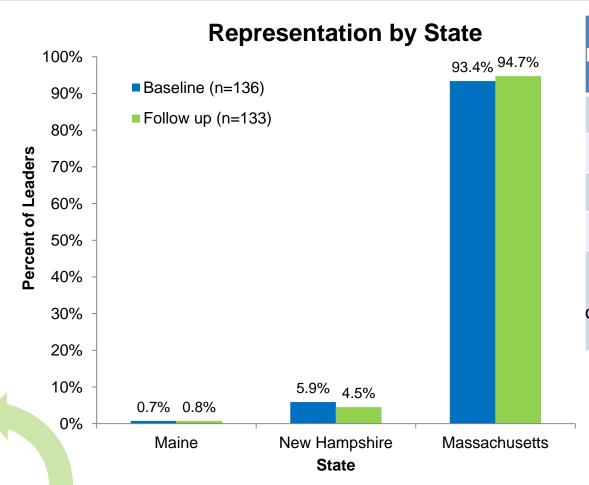
reverse the trend

Enrichment Results: Physical Activity





Leader Demographics: Sports Programs



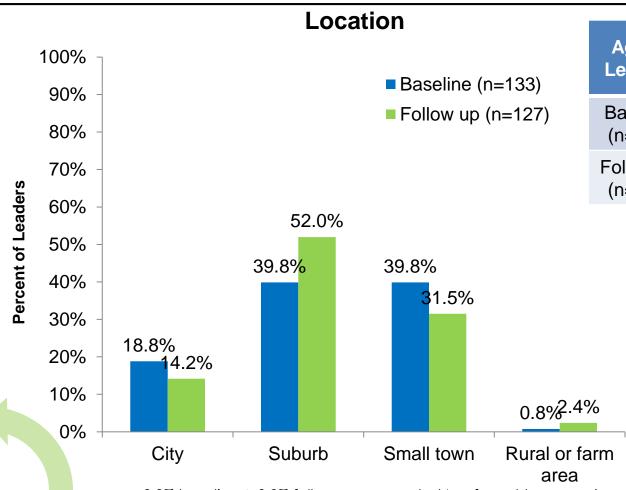
Race of Leaders	Baseline (n=133) Frequency	Follow-up (n=127) Frequency
White	117	108
Other	4	4
Black	5	2
Asian	4	9
American Indian or Alaskan Native	2	0

Leaders of Hispanic or Latino Background	Percent
Baseline (133)	5.3%
Followup (127)	3.2%



Leader Demographics: Sports Programs

Baseline vs Follow-up

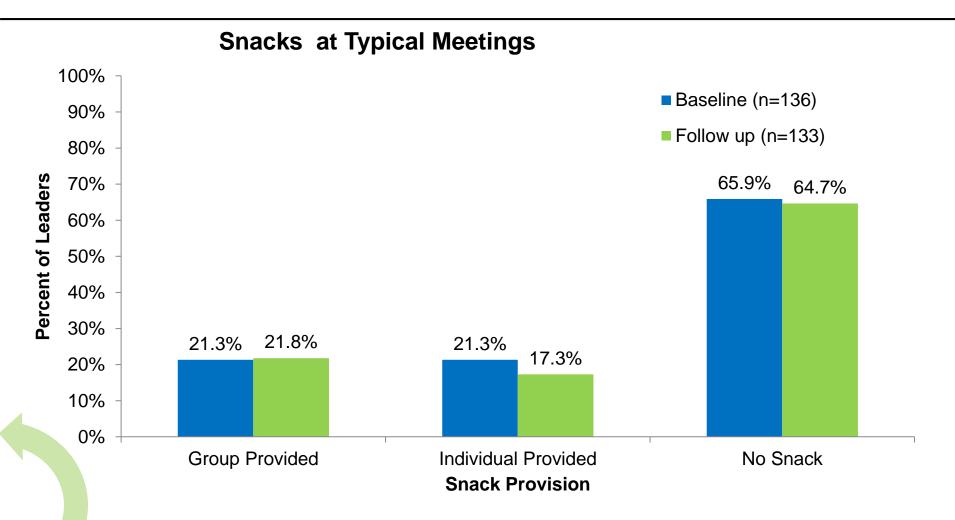


Age of Leaders	Mean (years)	Standard Deviation
Baseline (n=131)	42.1	6.3
Follow-up (n=124)	41.5	6.4

0.8% baseline & 0.0% follow-up responded 'prefer not to answer'.

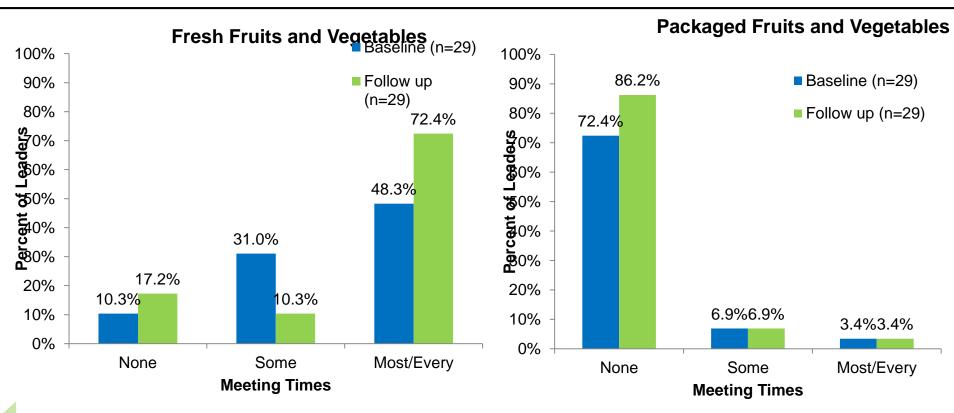


Sports Results: Snacks





Sports Results: Snacks Provided for Group

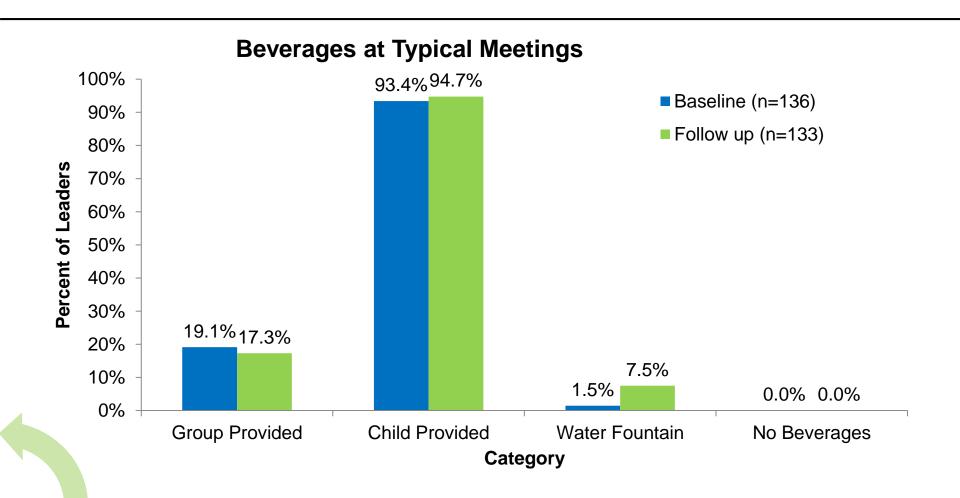


10.3% baseline & 0.0% follow-up responded 'don't know'.

17.2% baseline & 3.4% follow-up responded 'don't know'.



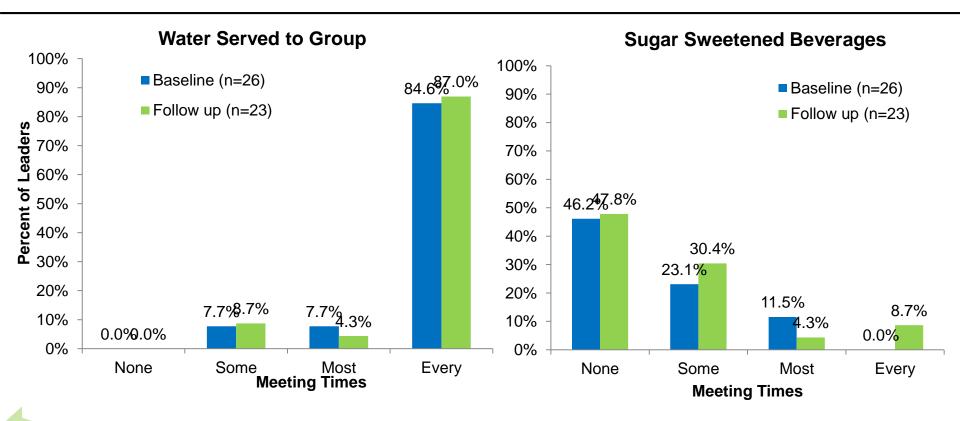
Sports Results: BeveragesBaseline vs Follow-up





Sports Results: Beverages Provided for Group

Baseline vs Follow-up



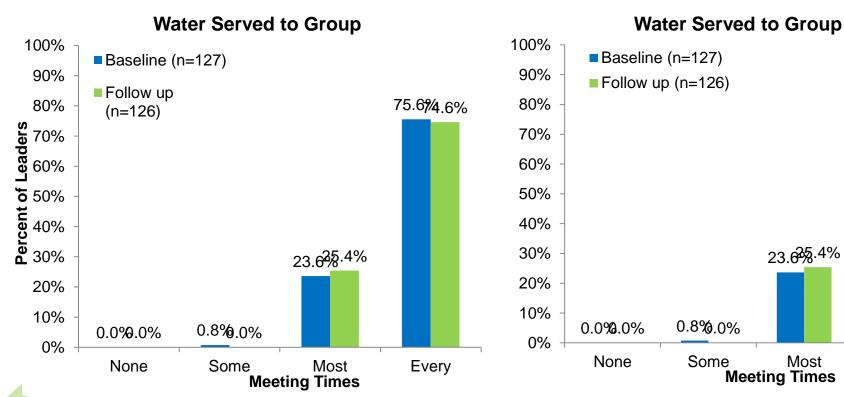
0.0% baseline & 0.0% follow-up responded 'don't know'.

19.2% baseline & 8.7% follow-up responded 'don't know'.



Sports Results: Individual Beverages

Baseline vs Follow-up



0.0% baseline & 0.0% follow-up responded 'don't know'.



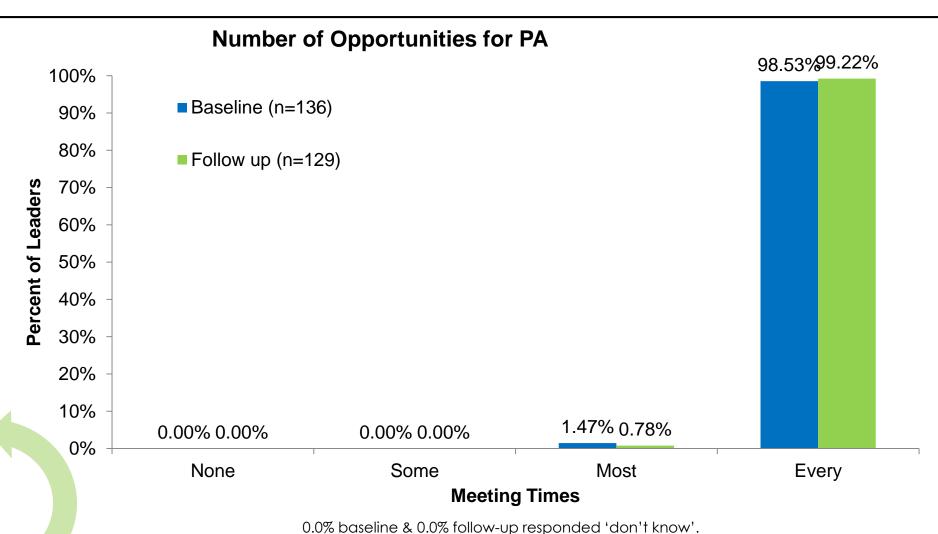


23.6% .4%

75.6%

Sports Results: Physical Activity

Baseline vs Follow-up

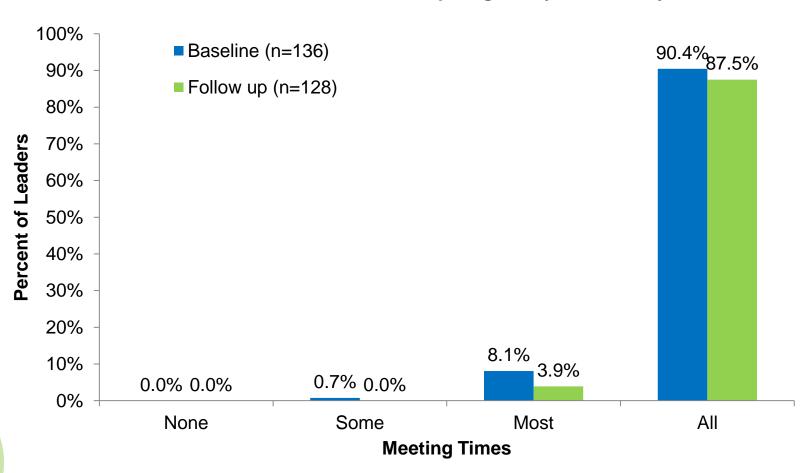


child **obesity 180**

Sports Results: Physical Activity

Baseline vs Follow-up

Children Participating in Physical Activity

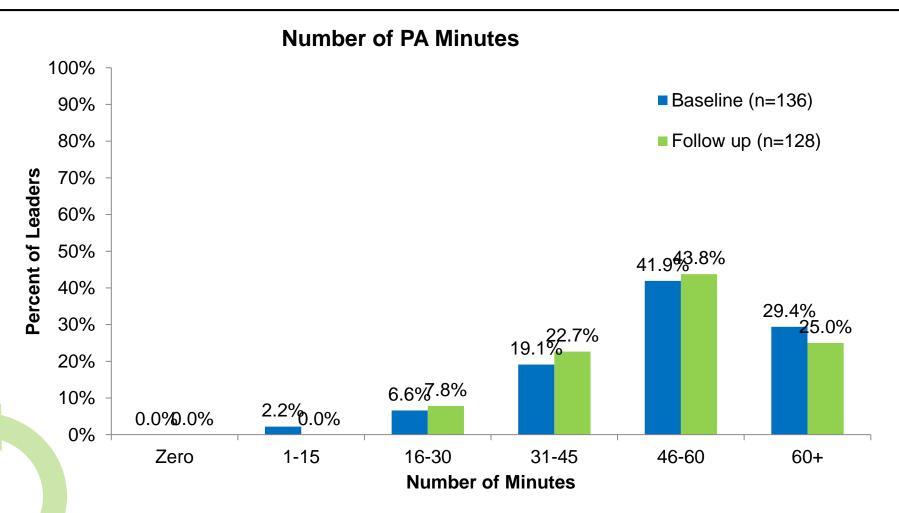


0.7 % baseline & 0.8% follow-up responded 'don't know'.



Sports Results: Physical Activity

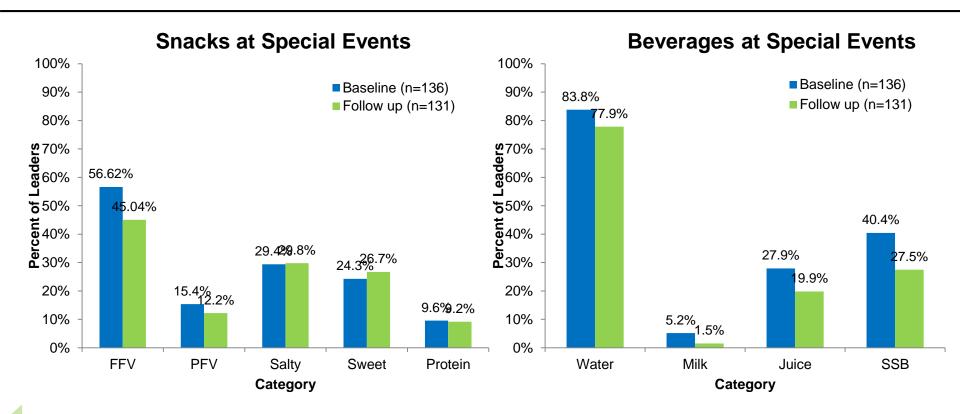
Baseline vs Follow-up



0.7 % baseline & 0.0% follow-up responded 'don't know'.



Sports Results: Special Events





Key Informant Interviews

Actions Taken

The majority of program leaders indicated that they had adopted all 3 of the principles in some form.





Key Informant Interviews

Actions Taken

The majority of program leaders indicated that they had adopted all 3 of the principles in some form.

Reactions

Many leaders felt that increasing physical activity and not serving sugary foods caused the kids to be calmer and increased their ability to focus.





Key Informant Interviews

Actions Taken

The majority of program leaders indicated that they had adopted all 3 of the principles in some form.

Reactions

Many leaders felt that increasing physical activity and not serving sugary foods caused the kids to be calmer and increased their ability to focus.

Sustainability

All leaders expected to maintain the changes that they had made, and some anticipated additional changes.





Key Informant Interviews

Actions Taken

The majority of program leaders indicated that they had adopted all 3 of the principles in some form.

Reactions

Many leaders felt that increasing physical activity and not serving sugary foods caused the kids to be calmer and increased their ability to focus.

Sustainability

All leaders expected to maintain the changes that they had made, and some anticipated additional changes.

But it was so easy, honestly, to incorporate -- you know, water? Boom. Done. That's an immediate change. The 15 minutes of physical activity? What boy doesn't like to get out there and, you know, mess around? (BSA)

