EFFECTS OF HARVEST OF THE MONTH (HOTM) CURRICULUM ON MEDIATORS OF CHILDREN’S VEGETABLE INTAKE

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Spring, 2015

Introduction
Problem: 40% of U.S. children eat the recommended amount of fruit and 7% eat the recommended amount of vegetables (CDC, 2014).

Ramification: Low fruit and vegetable intake...
- Plays a role in development of cardiovascular disease and some cancers – the primary causes of death in U.S. (Boeing et al., 2012).
- Causes 1.7 million deaths annually worldwide (WHO, 2015).

One solution: USDA’s Farm to School (F2S) program which includes:
- Serving local farm produce in schools
- Classroom nutrition lessons
- School gardens
- Recipe tasting
- Physical activity
- Cooking lessons
- Farm field trips
- Produce harvesting

In 2011 - 23.5 million students in F2S + $325 million spent locally by participating schools (USDA, 2012).

Hypothesis: Students who complete four HOTM classes will have increased intake of vegetables & mediators of vegetable intake.

Research objective: Evaluate effectiveness of HOTM in improving mediators of vegetable intake and actual intake.
Mediators = knowledge, preference, and self-efficacy

Participants
n=120, 4th grade students located in Half Moon Bay, CA (60 in control group and 60 in intervention group)

Materials and Methods
Pre-intervention
- Both groups took a validated survey addressing mediators of vegetable intake and reported vegetable intake.
- Students provided with cup of vegetables in classroom, allowed to eat if desired.
- Amount of vegetables consumed (in grams) recorded.

Intervention
- Four HOTM classes focusing on broccoli, carrots, spinach, and cucumbers over a two month period.

Post-intervention
- Same survey repeated and vegetable cups placed at desks.
- Measured differences in pre- and post-intervention survey responses of mediators and reported intake using paired t-test statistical analysis.
- Analyzed difference in weight (grams) of vegetables consumed both pre- and post-intervention.

Acknowledgements
Gretchen George, PhD, RD – 1st reader
Kathrin Spoeck, MA, RD – 2nd Reader
Nancy J. Rabolt, PhD – Dept. Chair
Jayden Ross – Research Assistant

References