P50 (continued)

Study Design, Settings, Participants: Random sample of Supplemental Nutrition Assistance Program-eligible (130% of FPL) households with children across 30 California counties. Youth age 10 to 18 years of age (n = 2,231) completed an interviewer administered 24-hour dietary recall (ASA24) in English or Spanish in 2016.

Measurable Outcome/Analysis: Intake of whole grains was compared to recommendations, gender, ethnicity, and body mass index (BMI). Means were analyzed using independent sample t-tests and ANOVA (with Tukey’s HSD).

Results: Youth participating in the study were 13.7 ± 2.3 years old (51% female) and ethnically diverse (71% Latino). Forty percent were categorized as either overweight or obese. Males consumed 0.95 ± 1.4 ounce equivalents (oz. eq.) of whole grains per day and females consumed 0.72 ± 1.0 oz. eq. (P < .001). The overall percentage of grains that were whole grains (14% male and 13% female), did not meet recommended level of at least 50%. Most whole grain items were from a grocery store and very few from school cafeteria (< 1%). Whole grain intake significantly differed among ethnic group categories (P < .05) with highest consumption among African Americans (0.98 ± 1.6 oz. eq.) and lowest in Latinos (0.79 ± 1.1 oz. eq.). Whole grain intake for obese youth was lower than those in the normal weight category (0.70 ± 1.1 vs. 0.88 ± 1.3 oz. eq., P = .041).

Conclusion: Low-income youth in this sample are burdened by overweight/obesity and are far below the whole grain recommendations. Intervention is needed targeting those defined by overweight/obesity and are far below the whole grain recommendations. Intervention is needed targeting those defined by overweight/obesity and are far below the whole grain recommendations.

Funding: USDA.

Nutrition Education Program Design Implementation and Evaluation

P51 4-H Food Smart Families: Extension Engages Teens to Provide Youth and Families with Nutrition Education and Cooking Skills
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Objective: To engage teens as teachers to help plan and lead educational programs that equip youth and their families to make healthy living part of their everyday lives through increasing knowledge to adopt healthy eating and food preparation behaviors.

Use of Theory or Research: Research shows improving eating and physical activity behaviors is effective when implementing multiple changes at various levels of the Social-Ecological Model (SEM). This program focused on SEM individual factors through partnerships with in-school and out-of-school community settings. Teen ambassadors were trained using the Experiential Learning Model.

Target Audience: Programming focused on urban low income youth and their families in five counties across the state. Teens, 16-19 years of age, were recruited as teen ambassadors.

Program Description: 4-H Food Smart Families aims to empower teens through youth-adult partnerships to be leaders in their communities and advocate for healthy lifestyle choices. Youth participants were provided with 10 hours of nutrition and physical activity focused programming that utilized research-based curricula. Families were encouraged to attend Family and Community Engagement events and teen led activation events.

Evaluation Methods: 4-H Common Measures was utilized to collect quantitative data and evaluate program impact in participants. Survey results and qualitative success stories were entered and analyzed in either Qualtrics or the PEARS reporting system. Quantitative post survey data was captured from teens.

Results: Eighteen Extension professionals and 16 teen ambassadors reached over 1,140 underserved youth and 2,540 family members. Two teen activation events were successfully delivered with the support of community partners. 92% of youth (n = 816) and 100% of teens (n = 10) indicated learning about healthy food choices. 45% of youth and 100% of teens indicated giving their family healthy meal or snack ideas. Youth reported paying attention to how much fruit (64%) and how many vegetables (55%) they eat each day.

Conclusions: Nebraska Extension professionals were able to empower teens to help deliver healthy lifestyle programs that improved the knowledge and behaviors of participants.

Funding: None.

P52 A Nutrition Education Intervention on Dietary Management of Chronic Diseases Among the Elderly in Delaware County, Indiana
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Background: Multiple factors, such as aging and lifestyle habits, contribute to chronic diseases within the aging population. In the United States, 80% of individuals ≥ 65y have been diagnosed with at least one type of chronic disease. Studies have indicated that nutrition education interventions have shown positive results in increasing nutrition knowledge and healthier food selections in older adults.

Objective: To provide older individuals with the knowledge needed to help manage chronic diseases by making healthier food selections. The two objectives were to determine if: the Pennsylvania State Cooperative Extension (PSCE) nutrition curriculum improves nutrition knowledge; and participants’ attitudes toward dietary behavior changes were positive.

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