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Abstract: Ready-to-go, interactive food safety exhibits were developed to allow Extension Educators the opportunity to communicate the magnitude of food safety risk and to prevent foodborne illness. Four food safety topics were chosen: 1) Atâ Risk Groups, 2) Preserving Food, 3) Food Thermometers, 4) Kitchen

Safety for Kids. Data collected showed an increase in food safety knowledge and planned behavior change.

Background

Idaho Family & Consumer Sciences (FCS) Extension educators are often given the opportunity to present at local resource and health fairs, county fairs, libraries, community centers, schools, and other locations. These opportunities allow educators to maintain a strong presence in their community, market the university, and provide reliable, research-based information to participants. Requests to provide an exhibit are sometimes last minute, so a ready-to-go exhibit allows outreach to occur even when time is limited. Displays are an effective method for reinforcing and disseminating information to consumers (Ensle, 2009). These fairs are a perfect venue to educate participants in food safety.

One-on-one contact with a local expert who can answer a participant's food safety question is oftentimes invaluable and can lead to linking participants to University of Idaho Extension in the future, when other food safety questions arise. Consumers who understand the magnitude of food safety risk and the serious nature of some of the foodborne illnesses are more likely to take steps to prevent foodborne illness for themselves and their family members (Redmond & Griffith, 2004).

In November 2005, a team of food safety educators identified the need for an attractive, ready-to-go food safety exhibit because food safety education was oftentimes the topic requested by fair organizers. A professional, well-designed exhibit that would include a number of interchangeable information "panels" and resource notebook would provide Extension personnel with the greatest flexibility in presenting food safety topics at a variety of consumer venues.

Program Development

A six-member development team consisting of the Extension Food Safety specialist and five FCS Extension educators representing each of Idaho's Extension Districts with expertise in food safety planned the content and format of the food safety exhibits. Four food safety topics were selected by surveying FCS Educators across Idaho to identify and rank topics in order of consumer interest and importance: 1) At-Risk Groups, 2) Preserving Food, 3) Food Thermometers, 4) Kitchen Safety for Kids. The unifying theme was Targeting Food Safety.

Research was conducted to identify and select the most important food safety information for each of the four topics and to identify appropriate visual aids or handout materials. The team reviewed and edited the information for each topic and worked with a desktop publishing specialist to create the design. After completing the content and design, each poster was sent to a food safety extension expert on that topic for review:

- Dr. Lydia Medeiros, Department of Human Nutrition, The Ohio State University, Targeting Food Safety for At-Risk Groups
- Dr. Elizabeth Andress, Department of Food and Nutrition, University of Georgia, Targeting Food Safety When Preserving Food
- Ms. Zena Edwards, Nutrition Education and Food Safety Faculty, Thurston County Extension, Washington State University, Targeting Food Safety with Thermometers

- Dr. Judy Harrison, Department of Food and Nutrition, University of Georgia, Targeting Food and Kitchen Safety for Kids

Suggestions made by these reviewers were incorporated.

Coordinating bookmarks were developed as handouts for each topic. In addition, appropriate handouts for each topic were identified or developed.

Delivery

The posters (Figure 1) were delivered using a display system that fit a majority of the expected display spaces. The poster panels were colorful, well illustrated, and attractive. They also had a uniform design and format, so they could be used interchangeably and tailored to specific audiences.

Figure 1.
Targeting Food Safety Posters



In addition, interactive components were developed to provide a "hook" to generate consumer interest. A 31-inch diameter spin wheel (Figure 2) with question "wedges" for each topic allowed participants to spin the wheel and answer a food safety question, while the Game Show Presenter software with questions programmed for each topic displayed a virtual game show emcee character and audio track to encourage participation. Additionally, dial and digital thermometers with the thermometer stems painted red to indicate depth of insertion and a food model of a hamburger patty were used for the *Targeting Food Safety with Thermometers* exhibit; 16 coloring pages and two food safety stickers were added to the *Kitchen Safety for Kids* exhibit.

Figure 2.
Targeting Food Safety Spin Wheel

about the importance of using an instant-read thermometer, and many people indicated that they would start using an instant-read thermometer for testing hamburger patties (Table 1).

Table 1.
Retrospective Pre-Test Survey Results for Targeting Food Safety with Thermometers Exhibit

BEFORE seeing this exhibit	Agree	AFTER seeing this exhibit	Agree
Q1. I knew it is important to use an instant-read thermometer when testing hamburger patties to see if they are safely cooked.	63%	Q4. I know it is important to use an instant-read thermometer when testing hamburger patties to see if they are safely cooked.	92%
Q2. I knew about instant-read thermometers.	55%	Q5. I know about instant-read thermometers.	93%
Q3. I tested the internal temperature of hamburger patties with a food thermometer.	29%	Q6. I will test the internal temperature of hamburger patties with a food thermometer.	83%

Conclusion

The Targeting Food Safety exhibits and resources were presented to Idaho FCS Extension Educators during their 2007 FCS In-Service, and again at the 2008 JCEP Galaxy III Conference in Indianapolis, Indiana. These ready-to-go exhibits have assisted Idaho FCS Educators in providing reliable, research-based consumer food safety information to participants at a variety of venues throughout the state. The Logic Model was used to design and evaluate the impact of the project. Team members assessed the situation, developed quality resources to share food safety information with the public, marketed and disseminated the resources, and assessed the impact of one of the exhibits on the general public. Individuals surveyed showed an increase in knowledge and in planned behavior changes. The exhibits have been well used in Idaho, displayed 37 times in a 12-month period.

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