Food Safety From Prep To Table

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Overview

- Food Safety Basics
- Food Safety Basics Applied to Packaging
- Food Safety Basics Applied to Distribution
- Food Safety Basics Applied to Delivery
- Food Safety Education for Meals on Wheels Clients

Food Safety Basics

- Clean
- · Hands, Utensils, Surfaces
- Separate
- Prevent Cross-Contamination
- Cook
- Prep

- Cooking TimeInternal TemperaturesHolding Temperatures
- Storage and Holding Temperatures



Food Safety Basics

- The goal is to produce a delicious product under the safest conditions.
 - Prevent cross-contamination during prep
 - Use of separate meat, fish, vegetable, etc areas can help
 - Use of cutting boards for each specific area can help
 - Use of gloves (disposed of after each "use")
 - · Well-trained staff is crucial



Food Safety Basics

Cook to appropriate temperature

Meat	Minimum Internal Temperature		
Beef, Veal, Lamb steaks & roasts	145°F		
Fish	145°F		
Pork	160°F		
Beef, Veal, Lamb ground	160°F		
Egg Dishes	160°F		
Turkey, Chicken, Duck pieces & ground	165°F		

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Food Safety Basics

Cook to appropriate temperature

Meat	Internal Temp.	Centigrade	
Fresh ground beef, veal, lamb, pork	160°F	71°C	
Beef, veal, lamb roasts, steaks, chops: medium rare	145°F	63°C	
Beef, veal, lamb roasts, steaks, chops: medium	160°F	71°C	
Beef, veal, lamb roasts, steaks, chops: well done	170°F	77°C	
Fresh pork roasts, steaks, chops: medium	160°F	71°C	
Fresh pork roasts, steaks, chops: well done	170°F	77°C	
Ham: cooked before eating	160°F	71°C	
Ham: fully cooked, to reheat	140°F	60°C	
Ground chicken/turkey	165° F	74°C	
Whole chicken/turkey	180° F	82°C	
Poultry breasts, roasts	170° F	77°C	

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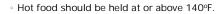
Food Safety Basics

- Chill to appropriate temperatures quickly
 - According to both the U.S. Food and Drug Administration and the U.S. Department of Agriculture's Food Safety and Inspection
 Service, refrigeration at 40° F or below is one of the most effective ways to reduce risk of foodborne illness.
 - Microorganisms grow more rapidly at warmer temperatures, and research shows that keeping a constant refrigerator temperature of 40° F or below helps slow growth of these harmful microbes.



Food Safety Basics

- ▶ Hold Food At Safe Temperatures
 - Cold food should be held at or below 40°F.
 - Federal Food Code ?
 - · State Food Code?
 - · Local Food Code?
 - Program Food Code ?





• What Code are you responsible for?

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Food Safety Basics Applied to Packaging

- Clean
- $^{\circ}$ Prep area, storage containers, packaging line, staff
- Separate
- Avoid cross-contamination from raw food in prep stage
- Cook
 - All foods prepared under sanitary conditions
 - All foods cooked to internal temperatures
- Chill
 - All foods chilled quickly to allow ample time to package and re-refrigerate foods
 - All foods packaged from small batches to keep the volume of food at appropriate temperatures

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Packaging and Containers

- Types of food packaging
- Metal with cardboard lid
- Plastic with seal
- Cardboard with seal
- Others
- Types of delivery containers
- Climate controlled trucks
- Boxes
- Cambroes
- Hot Box
- Others





Food Safety Basics Applied to Distribution

- Clean
 - Personnel and containers
- Vans and other vehicles
- Separate
- Distribution containers and vehicles for cooked food only
- Re-heating meal for hot meal service
- Temperature control during reheat and packing process.
- ▶ Chill
 - Climate controlled vehicle?
- Alternative temperature-controlled containers

Food Safety Basics Applied to Delivery

- Clean
 - Does food safety education need to be provided for this client?
- Separate
- Delivery containers for food use only!
- Cook
- Temperature control during the delivery process
 What temperature is best for each client?
 Hot/Frozen/Chilled?

- Hot meals: Will they be eaten or left on the counter?
- Is this client receiving the meal at correct temp? Is the client saving meals for weeks in the refrigerator?

Food Safety Education for Meals on Wheels Clients

- Clean
- Cleaning tools that do the trick
- Separate
 - · Cross-contamination prevention for the client
- Cook
- Reheating process for the client
- Temperature control for the hot meal client
- Chill
 - Appropriate storage for meals not eaten within 15 minutes of delivery
- Freezer and refrigeration basics

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Examples of Food Safety Education Topics Needed

- ▶ Risk and Consequences of Foodborne Illness
- Personal Hygiene
- Adequate Cooking
- What is Cross-Contamination?
- ▶ How to Prevent Cross-Contamination
- Safe Temperatures
- Safe Food Sources



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Erroneous Food Safety Perceptions of Seniors

- Foodborne illness is not common.
- Foodborne illness happens with food from outside sources, not in the home.
- It is ok to store foods in the large containers in which they were cooked.
- It is ok to thaw food outside or on the counter.
- It is ok to thaw food in a sink of standing cold water
- It is ok to leave food on the counter for more than two hours.

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Methods of Providing Food Safety Education to the Client

- Printed Materials
 - Newsletters
 - Flyers and Pamphlets
- Face to Face Training for Client
 - In Home Consults
 - Classes in Senior Centers
- Face to Face Training for Caregiver
 - In Home Consults
- Classes provided after work for caregivers
- Phone Consults
- Kiosks and other Technology



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Conclusions

- Food safety basics are needed in all aspects of the Meals on Wheels process
- Training is needed for staff and for clients
- Time and temperature are areas that need attention
- Appropriate storage is an area that needs attention
- Food safety education is essential for the Meals on Wheels client

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Bibliography

- Almanza, B.A., Y. Namkung, J.A. Ismail, D.C. Nelson. "Clients' Safe Food-Handling Knowledge and Risk Behavior in a Home-Delivered Meal Program." Journal of the American Dietetic Association. May 2007; p. 816–821.

 Gettings, M. A., N. E. Klernan. "Practices and Perceptions of Food Safety Among Seniors Who Prepare Meals at Home." Journal of Nutrition Education Volume 33 Number 3, p. 148–154, May, June 2001.

 Mederios, L.C., V. N. Hilliers, P.A. Kendall, A. Mason. "Food Safety Education: What Should We Be Teaching to Consumers?" Journal of Nutrition Education Volume 33, Number 2, March/April Number 1, 1887, Number 1
- 2007: p. 316-320. Left his social or use American Detettic Association Newell, D. G., M. Koopmans, Uefnerf, E. Düzer, A. Aktara-skap H. Sporng, A. A
- 2: p. 13-21. Trepka, M.J., F.L. Newman, F. G. Huffman, Z. Dixon. "Food Safety Education Us Interactive Multimedia Klosk in a WIC Setting: Correlates of Client Satisfaction Issues." Journal of Nutrition Education and Behavior. 2010, p. 1-6.

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