• Massachusetts Parternship for Food Safety Education •

Food Safety for Food Workers

M ost foodborne illness can be avoided by handling food properly. Foods from animal sources and cooked beans, rice and pasta are especially risky. These foods are "Potentially Hazardous Foods" (PHFs). Follow these basic food safety principles and practices to keep the food you prepare and serve safe to eat. These recommendations are consistent with the FDA 1999 Food Code.

STAY HEALTHY			
Key Principle	Hazard	Food Safety Message	
Be in Good Health	Microbiological Contamination	 Don't prepare food when you are ill or have an open cut or sore on your hands or arms. Peport illnesses to the manager. Avoid coughing and sneezing in food areas. 	
Practice Good Personal Hygiene	Microbiological Contamination	 Always wash your hands after you: use the restroom. cough, sneeze, or use a handkerchief or tissue. work with raw foods. handle dirty equipment or utensils. take out the garbage. 	
	Cross-contamination	Use a designated hand sink.	
· e	Physical Contamination	Wear clean clothing on the job.	
	Microbiological and Physical Contamination	 Wear effective hair restraint while working in a food preparation area. Don't eat, drink or smoke while preparing food. Keep nails trimmed. 	
	CONTROL TIME A	ND TEMPERATURE	
Key Principle	Hazard	Food Safety Message	
Control Time and Temperature Refrigerator 41° F Freezer 0° F During Receiving	Bacterial Growth, Toxin Production	 Keep foods out of the "Danger Zone": 41°F - 140°F Use a calibrated food thermometer to check food temperatures. Receive and store food at proper temperatures Pefrigerated foods at 41°F or below. Frozen foods at 0°F or below. 	
During Preparation	Bacterial Growth, Toxin Production	 Thaw frozen foods in: Pefrigerator. Potable cold running water below 70°F for 2 hours or less. Microwave oven followed by cooking or as part of the cooking process. 	

CONTROL TIME AND TEMPERATURE				
Key Principle	Hazard	Food Safety Message		
Key Frinciple Control Time & Temperature During Cooking	Hazaru Bacterial Survival, Toxin Production	 Cook each food to proper internal temperature: 165°F for 15 seconds: poultry, stuffed meat, fish, pasta and stuffing containing meat, poultry or fish. 165°F for 15 seconds: ground poultry, turkey. 155°F for 15 seconds or 158°F instantaneously: for ground meats (comminuted and injected meats) and the following comminuted: fish, meat and raw eggs not prepared for immediate consumption. 145°F for 15 seconds: fish, meat, pork and raw shell eggs that are intended for immediate service. 145°F for 3 minutes: whole beef roasts, whole pork roasts and corned beef roasts. 145°F on the top and bottom surface of a beef steak labeled to indicate that it meets the definition of "whole muscle intact beef." 		
During Holding	Bacterial Growth, Toxin Production	 165°F raw animal foods cooked in a microwave. Hold hot Potentially Hazardous Foods (PHFs) at 140°F and above. 		
		 Hold cold PHFs at 41°F or below. 		
During Cooling	Bacterial Growth, Toxin Production	 Cool cooked Potentially Hazardous Foods (PHFs): 140°F to 70°F in 2 hours or less. 70°F to 41°F in 4 hours or less. Cool foods prepared cold to 41°F or less within 4 hours. Date and mark cold foods prepared on-site and held for more than 24 hours with the date of discard: at 41°F - 7 days including date of preparation at 45°F - 4 days including date of preparation Cool foods in shallow containers (4 inches or less). 		
During Reheating	Bacterial Survival and Growth, Toxin Production	 Papidly reheat PHFs to 165°F (2 hours or less) and hold at 140°F. 		

Hazard	Food Safety Message
Microbiological and Physical Contamination	 Prevent bare-hand contact with ready-to-eat foods by using utensils like disposable gloves, deli tissue, spatulas, tongs or dispensing utensils.
	 Minimize bare-hand contact with exposed foods that are not in ready-to-eat form.
	Store food in covered containers or original packaging.
	 Do not store packaged food in absorbent packaging in direct contact with ice or water.
	 Do not store unpackaged food in direct contact with undrained ice.
	Wash fruits and vegetables before cooking or serving.
	 Store foods in a clean, dry location that is not subject to splash, dust or other contaminants and is 6 inches above the floor.
Cross-contamination	 Separate raw animal foods from ready-to-eat animal foods and other ready-to-eat foods (sushi, molluscan shellfish, fruits and vegetables) during storage, prepa- ration, holding and serving.
Microbiological Contamination	 Clean and sanitize food thermometers before and after each temperature check of raw and ready-to-eat foods.
Cross-contamination	• Do not mix raw animal foods with cooked food.
Microbiological Contamination	Clean and sanitize food contact equipment and utensils:
	 Before you use a different type of raw animal food (beef, fish, lamb, pork and poultry).
	 When you change from working with raw foods to working with ready-to-eat foods.
	 Between preparing raw fruits and vegetables and Potentially Hazardous Foods.
	 At any time during the operation when contamination may have occurred.
	 Every 4 hours if used with Potentially Hazardous Foods at room temperature greater than 55°F.
	 Clean and sanitize food thermometers before using and storing.
	Microbiological Physical Contamination Cross-contamination Microbiological Contamination Microbiological Contamination

KEEP YOUR FOOD SUPPLY HEALTHY				
Key Principle	Hazard	Food Safety Message		
Consider the Source and the Condition of the Food	Microbiological, Physical and Chemical Contamination	 Use foods from approved suppliers. Do not use food prepared in a private home. Do not use food from bulging or dented cans or from damaged packaging. 		
Use Safe Water	Microbiological and Chemical Contamination	 Use only safe, potable water. Ice for food use must be made from potable water. 		
Use Safe Transportation/ Travel	Microbiological and Chemical Contamination	 Protect food from contamination during transportation. Transport in clean vehicles and equipment. Keep refrigerated foods cold (41°F or below). Keep hot foods hot (140°F or above). 		
Use and Store Chemicals and Pesticides Safely	Chemical Contamination	 Store and use only chemicals that are absolutely necessary. Use chemicals in accordance with manufacturers' instructions. Do not store chemicals where they can contaminate food equipment, utensils, linens and single service/single use articles. Only licensed individuals should apply pesticides. 		

he Massachusetts Partnership for Food Safety Education is a collaboration established among the University of Massachusetts Extension Nutrition Education Program and state and federal agencies and associations working with consumers, regulators and food workers in food preparation, processing, food service and retail establishments. Its goal is to reduce foodborne illnesses in Massachusetts by:

- Improving food safety knowledge and skills among target groups
- Educating target groups in a systematic approach to food safety
- · Increasing collaborations and communication among partners

Participating agencies include:

- MA Department of Education
- MA Department of Food & Agriculture
- MA Department of Public Health
- MA Environmental Health Association
- MA Executive Office of Eder Affairs
- MA Food Association
- Massachusetts Food Banks
- Massachusetts Head Start Programs
- MA Health Officers Association
- MA Milk, Food & Environmental Inspectors Association
- MA Restaurant Association
- MA School Food Service Association
- US Department of Agriculture Food & Nutrition Service (NERO)
- US Department of Agriculture Food Safety & Inspection Service
- · US Food and Drug Administration



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