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PB1420 A Quick Consumer Guide to Safe Food Handling

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A Quick Consumer Guide to Safe Food Handling

This booklet tells you what to do at each step in food handling — from shopping through storing leftovers — to avoid food-borne illness.

Never had food-borne illness? Perhaps you have, but thought you were sick with the flu. Some 76 million Americans could suffer from food-borne illness each year.

Why? Because under the right conditions, bacteria that you can't see, smell or taste can make you sick.

It doesn't have to happen. Many such cases could be avoided if people just handled food properly. So here's what to do...

When You Shop

Buy cold food last; get it home fast.

- When you're out, grocery shop last. Take food straight home to the refrigerator. Never leave food in a hot car!
- Don't buy anything you won't use before the use-by date.
- Don't buy food in poor condition. Make sure refrigerated food is cold to the touch. Frozen food should be rock solid. Canned goods should be free of dents, cracks or bulging lids, which can indicate a serious food-safety threat.

 Don't purchase products if the packaging is open, torn, damaged or looks as if it has been tampered with. This includes products on the shelf or in the refrigerator or freezer sections of the grocery store.

When You Store Food

Keep it safe; refrigerate.

Check the temperature of your refrigerator with an appliance thermometer. To keep bacteria in check, the refrigerator should run at 40 degrees F; the freezer unit at 0 degrees F. Keep your refrigerator as cold as possible without freezing milk or lettuce.

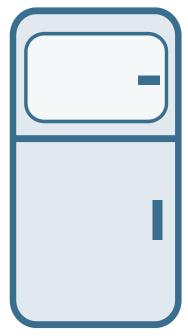
- Freeze fresh meat, poultry or fish immediately if you can't use it within a few days.
- Put packages of raw meat, poultry or fish on a plate before refrigerating so their juices won't drip on other food. Raw juices often contain bacteria.

When You Prepare Food

Keep everything clean; thaw in refrigerator.

 Wash hands in hot soapy water before preparing food and after using the bathroom, changing diapers and handling pets.

- Harmful bacteria multiply quickly in kitchen towels, sponges and cloths. Wash cloth items often in the hot-cycle in your machine. Consider using paper towels to clean up meat and poultry juices. Avoid sponges or clean them in the dishwasher every couple of days to kill bacteria.
- Keep raw meat, poultry and fish and their juices away from other food. For instance, wash your hands, cutting board, knife and counter tops in hot soapy water after cutting up the chicken and before slicing salad ingredients. Also, wash sink and kitchen faucet handles the raw meat or your "meatcovered" hands have touched with hot, soapy water.
- Use separate cutting boards for meat, poultry and fish and for other foods. Inspect your boards often and dispose of them when they have deep cuts and scratches. Wash boards thoroughly using hot water and soap, or wash them in the dishwasher.
- What about antibacterial sanitizers in the kitchen? Foodhandling experts feel hot soapy water, used properly, should protect you adequately against food-borne bacteria. However, kitchen sanitizers (including a mixture of bleach and water) can provide some added protection. NOTE: Sanitizer product directions must be followed carefully, as products differ greatly.



 Thaw frozen food in the refrigerator or in the microwave, NOT on the kitchen counter. Marinate in the refrigerator too.

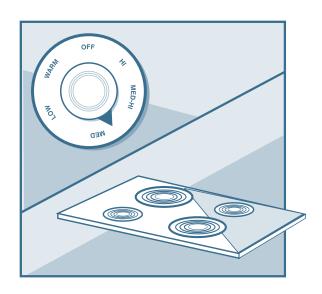
When You're Cooking

Cook thoroughly.

Food safety experts agree that foods are properly cooked when they are heated for a long enough time and at a high enough temperature to kill the harmful bacteria that cause food-borne illness. To prevent food-borne illness, follow these guidelines:

 Use a clean food thermometer to make sure meat, poultry, casseroles and other foods are properly cooked all the way through.

- Cook roasts and steaks to at least 145 degrees F. Whole poultry should be cooked to 180 degrees; check for doneness in the thigh. Chicken breast should be cooked to 170 degrees.
- Cook ground beef, where bacteria can spread during processing, to at least 160 degrees. Check the temperature with a food thermometer.
- Cook eggs until the yolk and white are firm. Don't use recipes in which eggs remain raw or only partially cooked.
- Fish should be opaque and flake easily with a fork.



Safe Microwaving

A great timesaver, the microwave has one food-safety disadvantage. It sometimes leaves cold spots in food. Bacteria can survive in these spots. So...

- Cover food with a lid or plastic wrap so steam can help food cook. Vent wrap and make sure it doesn't touch food.
- Stir and rotate your food for even cooking. No turntable? Rotate the dish by hand once or twice during cooking.
- Observe the standing time called for in a recipe or package directions. During the standing time, food finishes cooking.
- Use the oven temperature probe or a meat thermometer to check that food is done. Insert it at several spots.

When You Serve Food

Never leave food out more than two hours.

- Use clean dishes and utensils to serve food, not those used in preparation. Serve grilled food on a clean plate too, not one that held raw meat, poultry or fish.
- Never leave perishable food out of the refrigerator more than two hours! (No more than one hour in hot weather.) Bacteria

- that can cause food-borne illness grow quickly at warm temperatures.
- Pack lunches in insulated carriers with a cold pack.
 Caution children never to leave lunches in direct sun or on a warm radiator.
- Carry picnic food in a cooler with a cold pack. When possible, put the cooler in the shade. Keep the lid on as much as you can.
- Party time? Keep cold party food on ice or serve small amounts at a time. Keep the rest in the refrigerator to serve as needed.
- Likewise, divide hot party food into smaller serving platters. Keep platters refrigerated until time to warm them up for serving.

When You Handle Leftovers

Use small containers for quick cooling.

- Divide large amounts of leftovers into small, shallow containers for quick cooling in the refrigerator. Don't pack the refrigerator — cool air must circulate to keep food safe.
- With poultry or other stuffed meats, remove stuffing and refrigerate it in separate containers.

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When You Reheat

- Bring sauces, soups and gravy to a boil. Heat other leftovers thoroughly to 165 degrees F.
- Microwave leftovers using a lid or vented plastic wrap for thorough heating.

Kept It Too Long?

When in doubt, throw it out.

Safe refrigerator and freezer storage time limits are given for many common foods in the "Cold Storage" table in this booklet. But what about something you totally forgot about and may have kept too long?

- Be safe rather than sorry.
 Just discard it. Some harmful micro-organisms can grow at refrigerator temperatures.
 Never taste food that looks or smells strange to see if you can still use it.
- Is it moldy? The mold you see
 is only the tip of the iceberg.
 The poisons molds can form
 are found under the surface
 of the food. So, while you can
 sometimes save hard cheese,
 salamis and firm fruits and
 vegetables by cutting the
 mold out, most moldy food
 should be discarded.

Cold Storage				
Refrigerator and Freezer Storage Chart				
Vegetables	Refrigerator (40 degrees F) Raw	Freezer (0 degrees F) Blanched/cooked		
Beans, green or waxed	3-4 days	8 months		
Carrots	2 weeks	10-12 months		
Celery	1-2 weeks	10-12 months		
Lettuce, leaf	3-7 days	Don't freeze		
Lettuce, iceberg	1-2 days	Don't freeze		
Spinach	1-2 days	10-12 months		
Squash, summer	4-5 days	10-12 months		
Squash, winter	2 weeks	10-12 months		
Tomatoes	2-3 days	2 months		

Refrigerator and Freezer Storage Chart			
Product	Refrigerator (40 degrees F)	Freezer (0 degrees F)	
Eggs			
Fresh, in shell	3-5 weeks	Don't freeze	
Hardcooked	1 week	Don't freeze well	
Egg substitutes, opened	3 days	Don't freeze	
Egg substitutes, unopened	10 days	1 year	
Dairy Products			
Milk	1 week	3 months	
Cottage cheese	1 week	Doesn't freeze well	
Yogurt	1-2 weeks	1-2 months	
Deli Foods			
Entrees, cold or hot	3-4 days	2-3 months	
Store-prepared or homemade salads	3-5 days	Don't freeze	
Hot Dogs & Lunch Meats			
Hotdogs, open package	1 week		
Hotdogs, unopened package	2 weeks	1-2 months in freezer wrap	
Lunch meats, opened	3-5 days	1-2 months	
Lunch meats, unopened	2 weeks	1-2 months	
TV Dinners/Frozen Casseroles			
Keep frozen until ready to serve		3-4 months	
Fresh Meat			
Beef-steaks, roasts	3-5 days	6-12 months	
Pork-chops, roasts	3-5 days	4-6 months	
Lamb-chops, roasts	3-5 days	6-9 months	
Veal-roasts	3-5 days	4-6 months	
Ground meats	1-2 days	3-4 months	

Refrigerator and Freezer Storage Chart				
Fresh Poultry				
Chicken or turkey, whole	1-2 days	1 year		
Chicken or turkey pieces	1-2 days	9 months		
Fresh Fish				
Lean fish (cod, flounder, etc.)	1-2 days	6 months		
Fatty fish (salmon, etc.)	1-2 days	2-3 months		
Ham				
Canned ham (label says "keep refrigerated")	6-9 months	Don't freeze		
Ham, fully cooked (half & slices)	3-5 days	1-2 months		
Bacon & Sausage				
Bacon	1 week	1 month		
Sausage, raw (pork, beef or turkey)	1-2 days	1-2 months		
Pre-cooked, smoked breakfast links/patties	1 week	1-2 months		
Leftovers				
Cooked meat, meat dishes, egg dishes, soups, stews and vegetables	3-4 days	2-3 months		
Gravy and meat broth	1-2 days	2-3 months		
Cooked poultry and fish	3-4 days	4-6 months		

Fresh Produce

- Raw fruits are safe at room temperature, but after ripening they will mold and rot quickly. For best quality, store ripe fruit in the refrigerator or prepare and freeze. After cooking, fruit must be refrigerated or frozen within two hours.
- Some dense raw vegetables like potatoes and onions can be stored at cool room temperatures. Refrigerate other raw vegetables for optimum quality and to prevent rotting. After cooking, vegetables must be refrigerated or frozen within two hours.

Cooking Temperatures

Food	Internal Temperature (degrees F)	
Ground Products		
Beef, veal, lamb, pork Chicken, turkey	160 165	
Beef, Veal, Lamb		
Roasts & steaks medium-rare medium well-done	145 160 170	
Pork		
Chops, roast, ribs medium well-done Ham, fully cooked Ham, fresh Sausage, fresh	160 170 140 160	
Poultry (Turkey & Chicken)		
Whole bird Breast Legs & thighs Stuffing (cooked separately)	180 170 180 165	
Eggs		
Fried, poached Casseroles Sauces, custards	yolk & white are firm 160 160	
Fish	flakes with a fork	
*This chart provides guidance for cooking foods at home.		

Power's Out

Your Freezer

Without power, a full upright or chest freezer will keep everything frozen for about two days. A halffull freezer will keep food frozen one day.

If power will be coming back on fairly soon, you can make the food last longer by keeping the door shut as much as possible.

If the power will be off for an extended period, take food to friends' freezers, locate a commercial freezer or use dry ice.

Your Refrigerator-freezer Combination

Without power, the refrigerator section will keep food cool 4-6 hours depending on the kitchen temperature.

A full, well-functioning freezer unit should keep food frozen for two days. A half-full freezer unit should keep things frozen about one day.

Block ice can keep food on the refrigerator shelves cooler. Dry ice can be added to the freezer unit. You can't touch dry ice and shouldn't breathe the fumes, so follow handling instructions carefully.

Thawed Food?

Foods still containing ice crystals or that feels refrigerator cold can be refrozen.

Discard any thawed food that has risen to room temperature and remained there two hours or more. Immediately discard anything with a strange color or odor.

Is It Food-borne Illness?

If you or a family member develop nausea, vomiting, diarrhea, fever or cramps, you could have a food-borne illness. Unfortunately, it's not always easy to tell since, depending on the illness, symptoms can appear anywhere from 30 minutes to two weeks after eating bad food. Most people get sick within four to 48 hours after eating.

In more serious cases of foodborne illness, victims may have nervous system problems like paralysis, double vision or trouble swallowing or breathing.

If symptoms are severe or the victim is very young, old, pregnant or already ill, call a doctor or go to the hospital right away.

When to Report Food-borne Illness

You or your physician should report serious cases of food-borne illness to the local health department. Report any food poisoning incidents if the food involved came from a restaurant or commercial outlet.

Give a detailed, but short, account of the incident. If the food is a commercial product, have it in hand so you can describe it over the phone.

If you're asked to keep the food refrigerated so officials can examine it later, follow directions carefully.



If you have questions about food safety, contact your local Extension office at:

You can also contact The Food and Drug Administration Hotline with questions about safe handling of seafood, fruits and vegetables, as well as rules that govern food safety in restaurants and grocery stores. You can reach them by calling: 1-888-SAFEFOOD (1-888-723-3366).

The USDA Meat and Poultry Hotline can answer questions about safe handling of meat and poultry as well as many other consumer food issues. Call them at 1-888-mphotline (1-888-674-6854). Or, email your questions to mphotline.fsis@usda.gov.

This publication was adapted from USDA Home and Garden Bulletin No. 248, *A Quick Consumer Guide to Safe Food Handling*, published in 1995 and no longer in print.

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Visit the UT Extension Web site at http://www.utextension.utk.edu/

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