SAFE FOOD HANDLING FOR ADULTS AGES 60 AND OVER
WHAT IS FOOD POISONING?

Food poisoning (also known as foodborne illness or food-related illness) is caused by eating food that has been contaminated by bacteria, viruses or parasites. Food can become contaminated by these microorganisms at any time before you eat it, including at home during:

» handling
» storing
» cooking

There are many signs of food poisoning, but most types cause one or more of the following:

» nausea
» vomiting
» diarrhea
» stomach pain and cramps
» fever and chills

Symptoms can start within hours after eating the contaminated food, or sometimes not until days or even weeks later. Usually, people recover quickly and completely.

However, food poisoning sometimes causes serious complications, including death. This may be the case for people who are more at risk for both food poisoning and related health complications, like older adults.
FOOD POISONING AND ADULTS AGES 60 AND OVER

Most people who get food poisoning can have a full recovery. But for older adults, serious longer-term problems can be more common. As people get older, it becomes harder for their immune system to protect them from food poisoning. Chronic diseases, such as diabetes and kidney disease, can make it even more difficult to fight off infections.

It is very important for older adults, and people who prepare food for older adults, to follow safe food handling and cooking practices.

This guide offers helpful advice on how to reduce the risk of food poisoning to you or the person you care for.
SAFE FOOD HANDLING FOR ADULTS AGES 60 AND OVER

WHAT DO I NEED TO KNOW WHEN SHOPPING FOR FOOD?

You should:
» buy cold or frozen food at the end of your shopping trip
» check the “best before” date on your food
» check fruits and vegetables to avoid buying items that are bruised or damaged
» avoid spreading bacteria from raw food to ready-to-eat food by:
  - putting raw food in individual plastic bags (which can be found in the produce section and at some meat counters)
  - keeping your raw meat, poultry, fish and seafood away from other food in your grocery cart
  - labelling and using the same bag or bin for raw meat, poultry, fish and seafood
» refrigerate or freeze raw meat, poultry, fish and seafood as soon as you get home from the grocery store; perishable food should not be left out for more than:
  - 1 hour during summer outdoor activities
  - 2 hours at room temperature
» wash your reusable grocery bags often, especially if you are carrying raw meat, poultry, fish and seafood

WHAT DO I NEED TO KNOW WHEN STORING FOOD?

It is important to keep cold food cold, and hot food hot. Perishable food should never reach temperatures between 4 °C to 60 °C (40 °F to 140 °F). This is because this temperature range is where bacteria can grow quickly and cause food poisoning.

You can reduce your chances of getting food poisoning by:
» set your fridge at 4 °C (40 °F) or lower
» set your freezer at -18 °C (0 °F) or lower
» put raw meat, poultry, fish and seafood in sealed containers or plastic bags on the bottom shelf of your fridge—this prevents raw juices from dripping onto other food
» store cut fruits and vegetables in the fridge
» refrigerate or freeze raw meat, poultry, fish and seafood immediately; dangerous bacteria can grow if left out for more than:
  - 1 hour during summer outdoor activities
  - 2 hours at room temperature
» cook raw meat, poultry, fish and seafood by the “best before” date, or no more than 2 to 4 days after buying it
» freeze raw meat, poultry, fish and seafood if you do not plan on cooking by the “best before” date

SAFE FOOD ALTERNATIVES FOR ADULTS AGES 60 AND OVER

Some types of food can be a higher risk for older adults, because of how they are produced and stored. To lower your chances of getting food poisoning, you should avoid these foods. The following chart can help you make safer food choices.

<table>
<thead>
<tr>
<th>TYPE OF FOOD</th>
<th>FOOD TO AVOID</th>
<th>SAFER ALTERNATIVES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hot dogs</td>
<td>Hot dogs straight from the package, without further heating.</td>
<td>Hot dogs that are well cooked to a safe internal temperature. The middle of the hot dog should be steaming hot or 74 °C (165 °F).</td>
</tr>
<tr>
<td>Soup</td>
<td>Do not eat soup that is tepid or lukewarm.</td>
<td>Eat soup that is steaming hot or 74 °C (165 °F).</td>
</tr>
<tr>
<td>Milk</td>
<td>Do not eat milk that is tepid or lukewarm.</td>
<td>Drink milk that is steaming hot or 74 °C (165 °F).</td>
</tr>
<tr>
<td>Fruit juices</td>
<td>Do not eat fruit juices that are tepid or lukewarm.</td>
<td>Drink fruit juices that are steaming hot or 74 °C (165 °F).</td>
</tr>
<tr>
<td>Canned foods</td>
<td>Canned foods that are not heated until steaming hot.</td>
<td>Canned foods that are heated until steaming hot.</td>
</tr>
<tr>
<td>Raw eggs</td>
<td>Raw eggs should be cooked before eating.</td>
<td>Eggs that are cooked to a safe internal temperature of 74 °C (165 °F). Cook eggs until the yolk is firm.</td>
</tr>
<tr>
<td>Seafood</td>
<td>Seafood should be cooked to a safe internal temperature.</td>
<td>Seafood that is cooked to a safe internal temperature.</td>
</tr>
<tr>
<td>Meats</td>
<td>Raw meats should be cooked to a safe internal temperature.</td>
<td>Meats that are cooked to a safe internal temperature.</td>
</tr>
<tr>
<td>Pâté and meat spreads</td>
<td>Pâté and meat spreads should be cooked before eating.</td>
<td>Thoroughly cooked pâté and meat spreads.</td>
</tr>
<tr>
<td>Sprouts</td>
<td>Sprouts should be cooked before eating.</td>
<td>Thoroughly cooked sprouts.</td>
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<td>Hot dogs</td>
<td>Hot dogs that are well cooked to a safe internal temperature.</td>
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<td>Soup</td>
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<td>Raw eggs</td>
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<td>Seafood</td>
<td>Seafood that is cooked to a safe internal temperature.</td>
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<td>Meats that are cooked to a safe internal temperature.</td>
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</tr>
</tbody>
</table>

TIP
› Avoid spreading juice from hot dog packages onto other food, or to cutting boards, utensils, dishes and countertops. Wash your hands after touching hot dogs.

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**FRIDGE AND FREEZER STORAGE**

If you freeze food that is well-wrapped, it can last longer. Here are the recommended refrigeration and freezing times for different foods.

<table>
<thead>
<tr>
<th>FOOD Description</th>
<th>Fridge at 4 °C (40 °F) or Lower</th>
<th>Freezer at -18 °C (0 °F) or Lower</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fresh meat and poultry</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beef, pork, lamb and veal</td>
<td>2–4 days</td>
<td>8–12 months</td>
</tr>
<tr>
<td>Chicken and turkey (whole and pieces)</td>
<td>2–3 days</td>
<td>6–12 months</td>
</tr>
<tr>
<td>Ground meat and raw sausages</td>
<td>1–2 days</td>
<td>2–3 months</td>
</tr>
<tr>
<td><strong>Fresh fish</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lean fish (e.g., cod and sole)</td>
<td>3–4 days</td>
<td>6 months</td>
</tr>
<tr>
<td>Fatty fish (e.g., salmon, tuna and trout)</td>
<td>3–4 days</td>
<td>2 months</td>
</tr>
<tr>
<td>Shellfish, cooked or uncooked (e.g., clams, crab, lobster, scallops and shrimp)</td>
<td>1–2 days</td>
<td>2–4 months</td>
</tr>
<tr>
<td><strong>Ham, bacon and wieners</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooked ham</td>
<td>3–4 days</td>
<td>2–3 months</td>
</tr>
<tr>
<td>Bacon</td>
<td>By “best before” date or 1 week</td>
<td>1 month</td>
</tr>
<tr>
<td>Opened hot dogs</td>
<td>1 week</td>
<td>1–2 months</td>
</tr>
<tr>
<td><strong>Lunch meat and deli food</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Opened and deli-packaged lunch meat</td>
<td>3–5 days</td>
<td>1–3 months</td>
</tr>
<tr>
<td>Deli or homemade salads</td>
<td>3–5 days</td>
<td>Do not freeze</td>
</tr>
<tr>
<td><strong>Leftovers</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooked meat, stews, and egg or vegetable dishes</td>
<td>3–4 days</td>
<td>2–3 months</td>
</tr>
<tr>
<td>Cooked poultry, fish, meat broth, gravy and soups</td>
<td>3–4 days</td>
<td>4–6 months</td>
</tr>
<tr>
<td><strong>Eggs</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fresh in shell</td>
<td>By “best before” date or 3–4 weeks</td>
<td>Do not freeze</td>
</tr>
<tr>
<td>Fresh out-of-shell</td>
<td>2–4 days</td>
<td>4 months</td>
</tr>
<tr>
<td>Hard-boiled</td>
<td>1 week</td>
<td>Do not freeze</td>
</tr>
<tr>
<td>Opened egg substitutes</td>
<td>3 days</td>
<td>Do not freeze</td>
</tr>
<tr>
<td><strong>Dairy products</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Opened milk, yogurt and cottage cheese</td>
<td>4 days</td>
<td>Do not freeze</td>
</tr>
<tr>
<td>Cheeses</td>
<td>By “best before” date</td>
<td>Up to 1 year</td>
</tr>
<tr>
<td>Opened butter</td>
<td>3 weeks</td>
<td>Do not freeze</td>
</tr>
<tr>
<td><strong>Vegetables</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tomatoes</td>
<td>Do not refrigerate</td>
<td>2 months</td>
</tr>
<tr>
<td>Lettuce</td>
<td>3–7 days</td>
<td>Do not freeze</td>
</tr>
<tr>
<td>Beans (green or waxed), spinach and summer squash</td>
<td>5–7 days</td>
<td>8–12 months</td>
</tr>
<tr>
<td>Carrots, celery and winter squash</td>
<td>2 weeks</td>
<td>10–12 months</td>
</tr>
</tbody>
</table>

**WHAT DO I NEED TO KNOW WHEN DEFROSTING FOOD?**

You should:
- defrost your raw meat, poultry, fish and seafood in:
  - the fridge
  - the microwave
  - a sealed bag or container submerged in cold water
- if you use the microwave, cook it immediately after thawing it
- defrost larger pieces of meat (such as a whole turkey) in its original wrapping and submerge it in cold water
  - change the water often to make sure that it stays cold (approximately every 30 minutes)
- do not refreeze thawed food

**YOU CANNOT ALWAYS TELL IF FOOD IS SAFE BY ITS LOOK, SMELL OR TASTE. WHEN IN DOUBT, THROW IT OUT!**
WHAT DO I NEED TO KNOW ABOUT FOOD AND CLEANLINESS?

Reduce the risk of bacteria growth and food poisoning by properly cleaning your:

» hands
» kitchen surfaces
» utensils
» fruits and vegetables
» reusable grocery bags and bins

HANDS

You should always wash your hands:

» before and after touching raw meat, poultry, fish and seafood
» after using the washroom
» after touching pets
» after changing diapers

Wash your hands with warm, soapy water for at least 20 seconds. A hand-rub sanitizer can be used if soap and water are not available.

FRESH FRUITS AND VEGETABLES

Before you eat or cook fresh fruits and vegetables:

» gently wash them under cool, running, drinkable water
- you do not need to use anything other than water to wash fruits and vegetables

» use a scrub brush on fruits and vegetables that have a firm skin, such as:
- carrots
- potatoes
- melons
- squash

» avoid soaking fresh fruits and vegetables in a sink full of water. Sinks can contain bacteria that can be transferred to your food

KITCHEN SURFACES AND UTENSILS

You can prevent the spread of bacteria in the kitchen if you:

» clean sinks, kitchen surfaces or containers immediately after they have been in contact with raw meat, poultry, fish and seafood

» avoid reusing plates or utensils that have touched raw food
- wash them in the dishwasher or in warm, soapy water
- use only clean plates and utensils for your ready-to-eat foods

» use one cutting board for ready-to-eat foods, and a different one for raw meat, poultry, fish and seafood

» use paper towels to wipe kitchen surfaces, and change dishcloths daily

» do not use sponges because they are hard to keep bacteria-free

» clean your countertops, cutting boards and utensils before and after preparing food using a kitchen sanitizer (follow the directions on the container) or prepare a bleach solution in a labelled spray bottle (you can use a ratio of 5 ml of household bleach to 750 ml of water) and rinse with water
WHAT DO I NEED TO KNOW WHEN COOKING FOOD?

It is not always possible to tell if food is safe by its colour or how long it has been cooked. Cooking food according to the proper internal cooking temperature can help you make sure your food is safe to eat. Always cook raw meat, poultry, fish and seafood to a safe internal temperature. Follow these tips to avoid eating undercooked meat:

» Use an instant read digital food thermometer for a more accurate reading. Meat can turn brown before all the bacteria in your food are killed.

» Remove your food from the heat and insert the digital food thermometer into the thickest part of the meat. Make sure it is inserted all the way to the middle and does not touch any bones.

» For hamburgers, insert the digital food thermometer into the side of the patty, all the way to the middle.

» When cooking several pieces of meat, make sure to check the internal temperature of the thickest pieces. Food can cook unevenly.

» Keep hot foods at or above 60 °C (140 °F). Bacteria can grow quickly in the temperatures between 4 °C to 60 °C (40 °F to 140 °F).

» Use only clean plates and utensils for cooked meat to avoid contamination with raw meat juices.

» Clean your digital food thermometer in warm, soapy water between each temperature reading.
SAFE INTERNAL COOKING TEMPERATURES CHART

<table>
<thead>
<tr>
<th>MEAT, POULTRY, EGGS AND FISH</th>
<th>TEMPERATURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beef, veal and lamb (pieces and whole cuts)</td>
<td></td>
</tr>
<tr>
<td>Medium-rare</td>
<td>63 °C (145 °F)</td>
</tr>
<tr>
<td>Medium</td>
<td>71 °C (160 °F)</td>
</tr>
<tr>
<td>Well-done</td>
<td>77 °C (170 °F)</td>
</tr>
<tr>
<td>Mechanically tenderized beef (solid cut)</td>
<td></td>
</tr>
<tr>
<td>Beef and veal</td>
<td>63 °C (145 °F)</td>
</tr>
<tr>
<td>Steak (turn over at least twice during cooking)</td>
<td>63 °C (145 °F)</td>
</tr>
<tr>
<td>Pork (ham, pork loin and ribs)</td>
<td></td>
</tr>
<tr>
<td>Pork (pieces and whole cuts)</td>
<td>71 °C (160 °F)</td>
</tr>
<tr>
<td>Ground meat and meat mixtures (burgers, sausages, meatloaf and casserole)</td>
<td></td>
</tr>
<tr>
<td>Beef, veal, lamb and pork</td>
<td>71 °C (160 °F)</td>
</tr>
<tr>
<td>Poultry (chicken and turkey)</td>
<td>74 °C (165 °F)</td>
</tr>
<tr>
<td>Poultry (chicken, turkey and duck)</td>
<td></td>
</tr>
<tr>
<td>Pieces</td>
<td>74 °C (165 °F)</td>
</tr>
<tr>
<td>Whole</td>
<td>82 °C (180 °F)</td>
</tr>
<tr>
<td>Eggs</td>
<td></td>
</tr>
<tr>
<td>Egg dishes</td>
<td>74 °C (165 °F)</td>
</tr>
<tr>
<td>Seafood</td>
<td></td>
</tr>
<tr>
<td>Fish</td>
<td>70 °C (158 °F)</td>
</tr>
<tr>
<td>Shellfish* (shrimp, lobster, crab, scallops, clams, mussels and oysters)</td>
<td>74 °C (165 °F)</td>
</tr>
<tr>
<td>Other foods</td>
<td></td>
</tr>
<tr>
<td>Other foods (hot dogs, stuffing and leftovers)</td>
<td>74 °C (165 °F)</td>
</tr>
</tbody>
</table>

* Checking the temperature of shellfish with a food thermometer can be hard. Because of this, eat only the shellfish that have opened after being cooked. Discard the rest.

LEFTOVERS

Even leftovers can cause food poisoning if not properly stored or reheated. Follow these tips to help prevent you from getting sick.

- You can quickly cool leftovers by putting them in shallow containers. To lower the chances of bacteria growing in your food, you should refrigerate or freeze leftovers as soon as possible.
- Perishable food should not be left out for more than:
  - 1 hour during summer outdoor activities.
  - 2 hours at room temperature.
- Store leftovers safely by cutting and deboning the meat from large cooked birds, such as turkey.
- Avoid overstocking your fridge, so that cool air can circulate better.
- Eat refrigerated leftovers as soon as possible (within 2 to 4 days).
- When reheating food, make sure it is cooked to an internal temperature of at least 74 °C (165 °F). Bring gravies, soups and sauces to a full, rolling boil and stir during the process.
- You should avoid reheating the same leftovers more than once.
HOW DOES THE GOVERNMENT OF CANADA PROTECT YOU FROM FOOD POISONING?

The Government of Canada is committed to food safety. Health Canada has rules and standards to make sure that food sold in Canada is safe and nutritious. The Canadian Food Inspection Agency enforces Health Canada’s requirements.

For more information:
» Canada.ca/FoodSafety