

Food Safety in Older Adults: Disease Prevention Strategies and Educational Resources

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Outline

- Foodborne illness in the United States
- •Why older adults at higher risk
- Common foodborne pathogens
- •4 steps of food safety (Clean, Separate, Cook & Chill)
- USDA consumer food safety resources
 - Publications
 - Mobile apps
 - Presentations





One Team, One Purpose



Food Safety and Inspection Service

Protecting Public Health and Preventing Foodborne Illness



Food Safety and Inspection Service: The Threat of Foodborne Illness in U.S.



A pathogens most frequently affect our regulated products.

E. coli Listeria Salmonella Campylobacter

Food Safety and Older Adults

Adults 65+ are at an increased risk of hospitalization and death from foodborne illness.

Why?



Why Older Adults At-Risk

Changes in the Gastrointestinal Tract

- GI tract holds on to food for longer periods of time (more time for bacterial growth)
- Liver and kidneys may not properly rid our bodies of foreign bacteria and toxins
- Stomach may produce less acid. Less acid can result in more bacterial growth

Why Older Adults At-Risk



Medication Side Effects

- Weakened immune system
- Changes in sense of taste or smell

Why Older Adults At-Risk

Underlying Chronic Conditions

- Diabetes
- Cancer
- Transplant Recipient
- Autoimmune Disease (MS, IBD, SLE)

About Foodborne Illness: *Campylobacter*

Foodborne Illness in Older Adults

- Campylobacter
- E. coli
- Salmonella
- Listeria monocytogenes



Incubation Period: 2-4 days

 Symptoms: cramping abdominal pain, fever, nausea and vomiting, watery diarrhea. Most people recover in 5 to 8 days.
 Complications: 1 in 1,000 develop Guillain-Barre syndrome and infection may spread to heart or brain
 Sources: contaminated poultry, water, unpasteurized milk & cheese, or fresh produce

About Foodborne Illness: *E. Coli*

Foodborne Illness in Older Adults

- Campylobacter
- E. coli
- Salmonella
- Listeria monocytogenes



 Incubation Period: 1-10 days
 Symptoms: severe diarrhea that is often bloody, severe abdominal pain and vomiting. Symptoms last 5-10 days.
 Complications: In some cases, patients can develop Hemolytic Uremic Syndrome (HUS) which can result in kidney failure or even death in extreme cases.
 Sources: contaminated beef, contaminated water, unpasteurized milk & cheese, or fresh produce.

About Foodborne Illness: Salmonella

Foodborne Illness in Older Adults

- Campylobacter
- E. coli
- Salmonella
- Listeria monocytogenes



 Incubation Period: 12 to 72 hours
 Symptoms: nausea, vomiting, abdominal cramps, diarrhea, fever, chills, headache. Symptoms last 4 to 7 days.
 Complications: An estimated 400 people die annually from acute infection and young children are more likely to develop severe cases.
 Sources: Eating food contaminated with animal feces. These are often beef, poultry, milk or eggs but may include vegetables .

About Foodborne Illness: *Listeria monocytogenes*

Foodborne Illness in Older Adults

- Campylobacter
- E. coli
- Salmonella
- Listeria monocytogenes



Incubation Period: 3 to 70 days

Symptoms: fever, muscle aches, sometimes preceded by diarrheaComplications: those with a weakened immune system, such as older adults, can develop more serious illness

Sources: deli meats, smoked seafood, unpasteurized milk, store made salads such as tuna, chicken or seafood salad, soft cheeses such as feta or queso blanco, and raw sprouts.

Foods to Avoid



Raw or undercooked meat, poultry, eggs and seafood



Hot dogs, deli meat and lunch meats (unless reheated to steaming hot)



Unwashed fresh fruits and vegetables



Raw or unpasteurized milk



Unpasteurized refrigerated pâtés or meat spreads (Canned or shelf-stable pates/meat spreads may be eaten)



Raw sprouts (alfalfa, clover and radish)



Soft cheeses (unless labeled "made with pasteurized milk")

The Four Steps of Food Safety



The Four Steps: CLEAN



- Wash hands for 20 seconds with soap and warm water
- Sanitize surfaces that contact raw meat or poultry with a solution of 1 tablespoon bleach per 1 gallon of water

The Four Steps: CLEAN

Do NOT Wash Raw Meat or Poultry!



The Four Steps: SEPARATE



- Prevent crosscontamination of foods, hands or equipment
- Keep raw meat away from ready-to-eat food
- Use separate cutting boards and utensils for raw meat or poultry

The Four Steps: COOK

Your bird is not safe until it reaches 165 °F — you cannot tell by the color. Remember to ensure any stuffing cooked with the bird reaches 165 °F, too! Use three places to check the temperature. Thickest part of breast Innermost part of wing Innermost part of thigh When turkey is removed from the oven, let it stand 20 minutes before carving to allow juices to settle.

- Always use a food thermometer when cooking meats
- All poultry: 165°F
- Ground meats: 160°F
- Whole cuts of red meat:145°F

The Four Steps: CHILL



- Food at room temperature for more than 2 hours should be discarded
- Use all refrigerated leftovers within 3 to 4 days
- Reheat leftovers to165°F
 - Rotate for even heating in microwave

The Four Steps: CHILL

- Leftovers should be cut into smaller pieces
- Store in small shallow containers
- No need to wait for leftovers to cool to room temperature before refrigerating



Food Storage Times

Cold Food Storage

These storage guidelines for home-refrigerated foods will keep them from spoiling or becoming dangerous to eat. The guidelines for freezer storage are for quality only. Frozen foods remain safe indefinitely.

Product	Refrigerator (40°F)	Freezer (0°F)	
Eggs			
Fresh, in shell	3 to 5 weeks	Don't freeze	
Hard cooked	l week	Don't freeze well	
Liquid Pasteurized Eggs, Egg Substitute			
Opened	3 days	Don't freeze well	
Unopened	10 days	l year	
Deli and Vacuum-Packed Products			
Egg, chicken, ham, tuna			
& macaroni salads	3 to 5 days	Don't freeze well	
Hot Dogs			
Opened package	1 week	1 to 2 months	
Unopened package	2 weeks	1 to 2 months	
Luncheon Meat			
Opened package or deli sliced	3 to 5 days	1 to 2 months	
Unopened package	2 weeks	1 to 2 months	
Bacon & Sausage			
Bacon	7 days	1 month	
Sausage, raw — from pork			
chicken, turkey & beef	1 to 2 days	1 to 2 months	
Hamburger & Other Ground M	leats		
Hamburger, ground beef, turkey,			
veal, pork, lamb & mixtures of then	1 to 2 days	3 to 4 months	
Fresh Beef, Veal, Lamb & Pork			
Steaks	3 to 5 days	6 to 12 months	
Chops	3 to 5 days	4 to 6 months	
Roasts	3 to 5 days	4 to 12 months	
Fresh Poultry			
Chicken or turkey, whole	1 to 2 days	1 year	
Chicken or turkey, pieces	1 to 2 days	9 months	
Seafood			
Lean fish (flounder, haddock,			
halibut, etc.)	1 to 2 days	6 to 8 months	
Fatty fish (salmon, tuna, etc.)	1 to 2 days	2 to 3 months	
Soups & Stews			
Vegetable or meat added	3 to 4 days	2 to 3 months	
Leftovers			
Cooked meat or poultry	3 to 4 days	2 to 6 months	
Chicken nuggets or patties	3 to 4 days	1 to 3 months	
Pizza	3 to 4 days	1 to 2 months	

Freezer Storage at 0 °F or Below		
Cooked meat or poultry	2 to 6 months	
Pizza	1 to 2 months	
Luncheon meats	1 to 2 months	
Refrigerator Storage at 40 °F or Below		
Cooked meat or poultry	3 to 4 days	
Pizza	3 to 4 days	
Luncheon meats	3 to 5 days	
Egg, tuna, and macaroni salads	3 to 5 days	

FoodKeeper app

Prevent food waste

- Storage advice for 500+
 food and beverage items
- Receive automatic recall
 notifications
- Syncs to your **calendar**
- Access to AskKaren



FoodKeeper app







Publications

- FoodKeeper app
- Meat & Poultry Hotline
- Social Media
- Presentations and Toolkits

HITTING THE ROAD

If you're bringing a dish to a get-together with coworkers, family or friends, make sure you are transporting food



Food Safety Publications:

- General Adult
- At-Risk (Older Adults, Cancer, Diabetes, etc.)
- Youth
- Spanish
- Infographic Posters
- Foodservice











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How to Order Publications:

- Fill out a publication request form and email to <u>FSIS.Outreach@fsis.usda.gov</u>. (This email box can be used to attain request forms)
- Call the USDA Meat and Poultry Hotline (1-888-674-6854)

USDA Meat and Poultry Hotline



Open Monday - Friday 10 a.m. to 6 p.m. ET On Thanksgiving Day 8 a.m. to 2 p.m. ET

1-888-MPHotline (1-888-674-6854)

Live Chat/Email:



More Resources



Food Safety 101 Presentations

Empowering Older Adults

- Summer and Thanksgiving
- USDA-FSIS presenters available
- Facilitator guide available for non-FSIS presenters
- Held at senior centers and similar locations



Food Safety 101 Presentations

For more information contact:

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Questions?

