

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.

Each year, foodborne illness...

Sickens

1 in 6

Americans

Results in

128k

Hospitalizations

Causes

3,000

deaths

Costs U.S. economy

\$15.6

billion

pathogens
most frequently affect

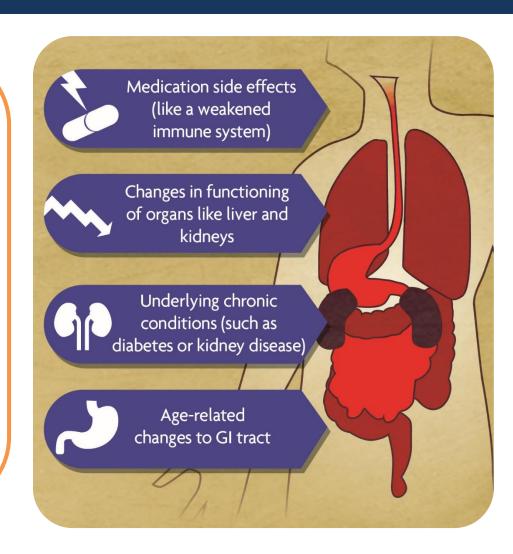
our regulated products.

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

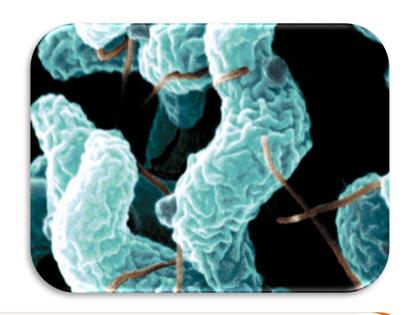
Underlying Chronic Conditions

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

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.

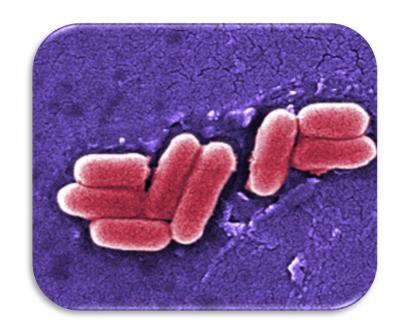
Complications: 1 in 1,000 develop Guillain-Barre syndrome and infection may spread to heart or brain

Sources: contaminated poultry, water, unpasteurized milk & cheese, or fresh produce

E. Coli

Foodborne Illness in Older Adults

- Campylobacter
- E. coli
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- Listeria monocytogenes



Incubation Period: 1-10 days

Symptoms: severe diarrhea that is often bloody, severe abdominal pain and vomiting. Symptoms last 5-10 days.

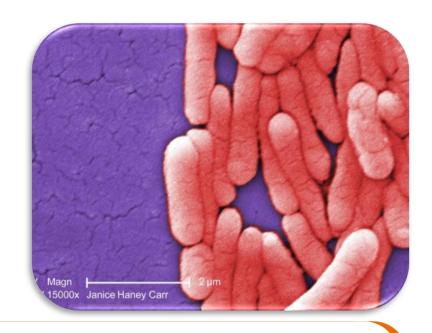
Complications: In some cases, patients can develop Hemolytic Uremic Syndrome (HUS) which can result in kidney failure or even death in extreme cases.

Sources: contaminated beef, contaminated water, unpasteurized milk & cheese, or fresh produce.

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.

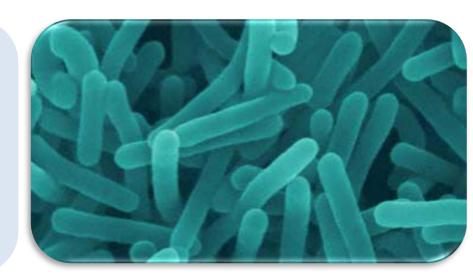
Complications: An estimated 400 people die annually from acute infection and young children are more likely to develop severe cases.

Sources: Eating food contaminated with animal feces. These are often beef, poultry, milk or eggs but may include vegetables .

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 diarrhea

Complications: 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



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



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)

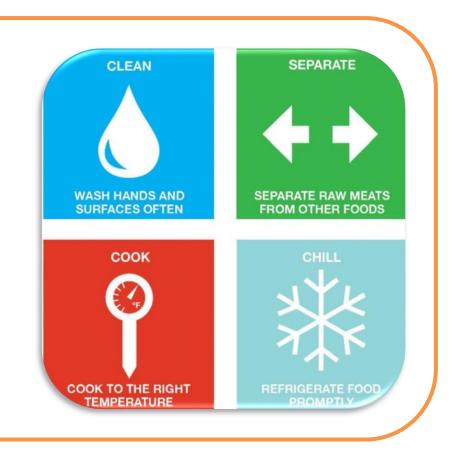
The Four Steps of Food Safety

Clean

Separate

Cook

Chill



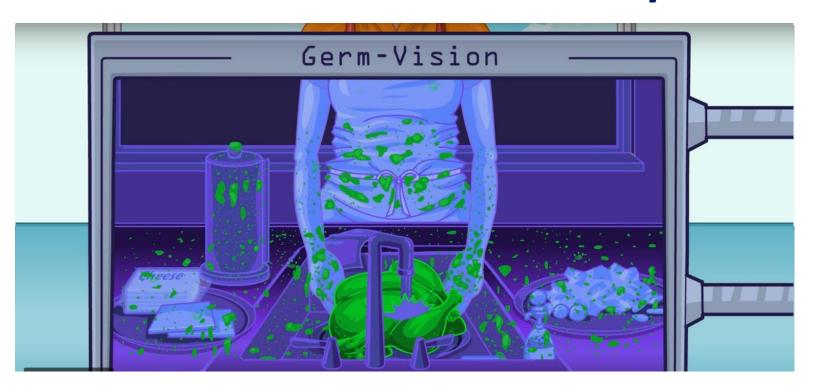
The Four Steps: CLEAN



- 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



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

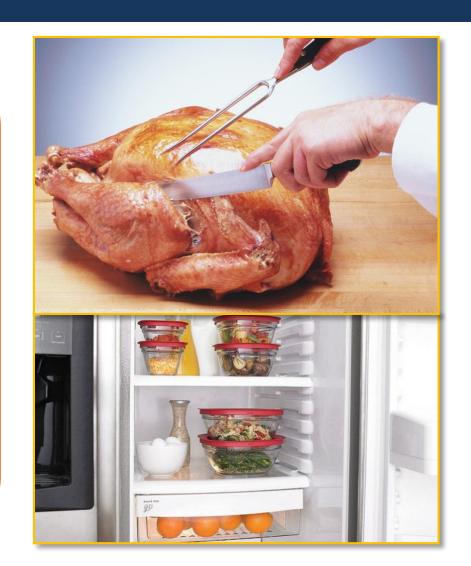
The Four Steps: CHILL



- Food at room temperature for more than 2 hours should be discarded
- Use all refrigerated leftovers within 3 to 4 days
- Reheat **leftovers to 165°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 dangerou 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	1 week	Don't freeze wel
Liquid Pasteurized Eggs, Egg S	ubstitute	
Opened	3 days	Don't freeze wel
Unopened	10 days	1 year
Deli and Vacuum-Packed Produ	icts	
Egg, chicken, ham, tuna		
& macaroni salads	3 to 5 days	Don't freeze wel
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	eats	
Hamburger, ground beef, turkey,		
veal, pork, lamb & mixtures of them	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	

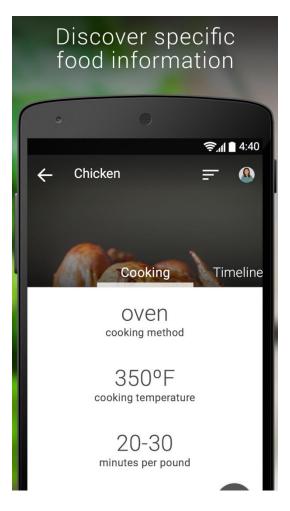
FoodKeeper app

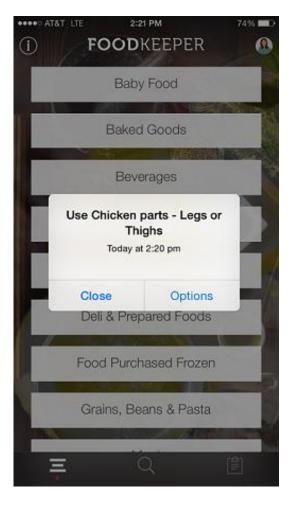
- Prevent food waste
- Storage advice for 500+
 food and beverage items
- Receive automatic recall notifications
- Syncs to your calendar
- Access to AskKaren



FoodKeeper app







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

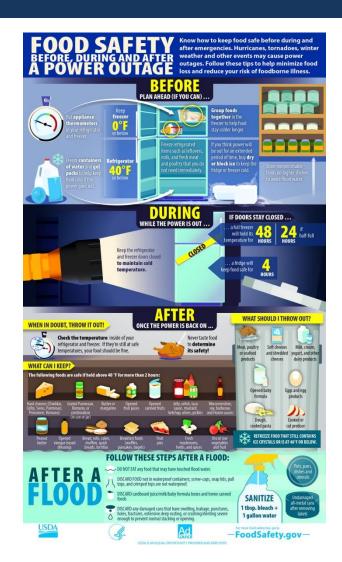


Food Safety Publications:

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















"Is it done yet?"

You can't tell by looking. Use a food thermometer to be sure.

USDA Recommended Safe Minimum Internal Temperatures

145°F

145°F

160°F

160°F

165°F



Beef, Pork, Veal & Lamb Steaks, Roasts & Chops



Fish



Beef, Pork, Veal & Lamb Ground



Egg Dishes



Turkey, Chicken & Duck Whole, Pieces & Ground

www.FoodSafety.gov

USDA Meat & Poultry Hotline 1-888-MPHotline (1-888-674-6854)









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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:

AskKaren.gov

More Resources



1-888-MPHotline



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www.FoodSafety.gov



FoodSafety.gov

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

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Questions?

