



One Team, One Purpose





Food Safety and Inspection Service Protecting Public Health and Preventing Foodborne Illness





Food Safety and Kidney Disease

Chrystal Okonta, MSPH, CHES



Thanks to our speaker!

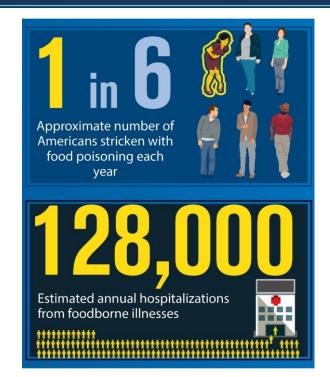


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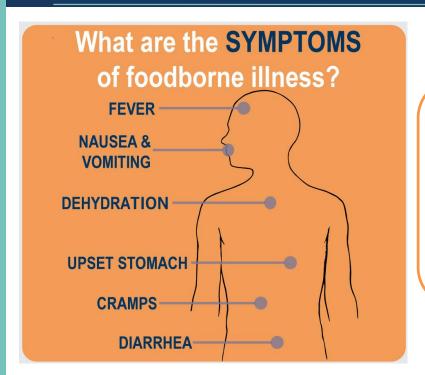
- Technical Information Specialist for USDA Food Safety and Inspection Service
- In her role, she seeks to protect public health and prevent foodborne illness
- Leads educational efforts to improve the public's knowledge and awareness of food safety



- Foodborne illness is a serious problem in the United States:
 - Sickens 1 in 6 Americans each year
 - Results in about 128,000 hospitalizations
 - Causes about 3,000 deaths each year
 - Costs consumers \$6.9 billion per year
 - Costs the US economy \$15.6 billion per year



Foodborne Illness



- Common foodborne pathogens (germs):
 - E. coli
 - Listeria
 - Salmonella
 - Campylobacter





Kidney Disease

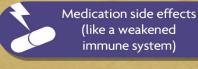
- Decreased kidney function may lead to increased growth of bacteria
- Kidney disease can affect the immune system, leaving patients more at risk for foodborne illness
 - Symptoms are more likely to last longer or be more severe
- Acid production in the GI tract may be affected in patients with diabetes, causing food to move more quickly through the digestive system
- Suppressing the immune system in transplant recipients can decrease the body's ability to fight off infection from foodborne illness

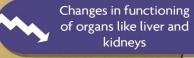
USDA United

United States Department of Agriculture Food Safety and Inspection Service

Why Are You at Risk

Older adults are at elevated risk for hospitalization and death from foodborne infections. Why?









Why Food Safety?

Other At-Risk Populations

- Older adults (65 and older)
- Diabetes patients
- Cancer patients
- Transplant recipients
- Immuno-compromised individuals
- Pregnant women
- Children under 5 years



What Foods May Make You Sick



- Some foods are more risky than others
- Foods that are more likely to contain harmful germs fall into two categories:
 - Uncooked fresh fruits and vegetables
 - 2. Some animal products (raw, undercooked, or processed)



Make Wise Food Choices

- Cook meat, poultry, seafood and eggs to a safe internal temperature
- Wash all produce before preparing or eating
- Avoid raw or unpasteurized milk, cheese and juice; avoid deli salads
- Reheat hot dogs and deli meats to 165°F or until steaming hot

Foods to AVOID



Haw or undercooked meat, poultry, or seafood



Unpasteurized or raw milk



Raw or undercooked eggs



Unwashed fresh produce



Soft cheeses made from unpasteurized (raw) milk



Cold hot dogs & deli meats



Raw sprouts (alfalfa, bean, etc)

Foods to EAT



Meat, poultry, & seafood cooked to a safe internal temperature



Pasteurized milk



Cooked eggs with a firm yolk



Washed fresh or cooked produce



Hard cheeses or soft cheese made from pasteurized milk



Reheat hot dogs & deli meat to steaming hot or 165 °F



Cooked sprouts



The Four Steps to Food Safety

- Clean
- Separate
- Cook
- Chill







- Wash your hands with warm soapy water for 20 seconds
- Key times to wash hands:
 - Before meal preparation and eating
 - After handling raw meat, poultry, seafood or eggs
 - After using the bathroom, tending to a sick person, handling pets, etc.





Proper Handwashing







Don't Wash Raw Meat or Poultry

- DON'T wash raw meat or poultry before cooking!
- Washing raw meat and poultry can spread illness-causing bacteria to kitchen sinks and surfaces
- CLEAN inner sink and kitchen surfaces with warm soapy water
- Then, SANITIZE with a sanitizing solution or sanitizing wipes





- Keep raw meat, poultry and seafood away from raw produce and other ready-to-eat foods
 - Keep them separate in your grocery cart and shopping bags
 - Store separately in the refrigerator



During Meal Preparation

During Meal Preparation

- Use separate utensils and cutting boards:
 - One for raw produce
 - One for raw meat, poultry and seafood
- Clean and sanitize knives, cutting boards, and other utensils between use
- Never place cooked food on the same plate that held raw food





Cross-Contamination



Cross-Contamination

- Kitchen towels are a major source for cross contamination in the kitchen
 - Wash towels frequently in hot water to remove bacteria
- Contaminated spice containers, faucets, and refrigerator doors can also carry bacteria
 - Wash hands well after handing raw meat

The Four Steps: Cook



- Cooking to a safe internal temperature will destroy food poisoning bacteria
- Always use a food thermometer
- Color is not a reliable indicator of doneness



The Four Steps: Cook

Safe Internal Temperatures







- Put all leftover food in the refrigerator within 2 hours after cooking
 - Within 1 hour if temperatures are above 90°F
- Set refrigerator to 40°F or below; Set freezer to 0°F or below
- No need to wait for leftovers to cool to room temperature before refrigerating





The Danger Zone (40 to 140° F)



Keep Hot Food Hot

- Store hot food in warming drawer of oven, chafing dishes, or slow cookers until ready to serve
- Keep at 140°F or warmer

Keep Cold Food Cold

- Put cold side dishes on beds of ice
- Serve small amounts at a time and leave the rest in the fridge until serving
- Keep at 40°F or cooler





Safe Storage Times

Storage Times

- Use all refrigerated leftovers within 3-4 days
- Frozen leftovers are safe for a long time, but at best quality for 2-6
 months







The Four Steps to Food Safety

Summary

- Clean: Wash your hands and surfaces often
- **Separate**: Keep raw meat and poultry away from other food
- **Cook**: Cook to the right temperature and use a food thermometer
- **Chill:** Refrigerate your food on time











Foodborne Illness

During Holiday Meals - Thanksgiving

Foodborne Illness Can Occur Because...

- Larger amount of food prepared
- Opportunities for cross-contamination
- Foods left out in the "Danger Zone" too long
- Undercooking of meat and poultry
- Guests with higher risk of foodborne illness





Fresh or Frozen?

Thanksgiving Turkey

FROZEN

- Purchase 1 pound of turkey per person
- Best quality within 12 months
 - Safe for a long time
- Only purchase frozen prestuffed turkeys

FRESH

- Purchase 1 pound of turkey per person
- Buy 1 to 2 days before you plan to cook
 - Or check manufacturer's label for date through Thanksgiving
- Do NOT purchase fresh prestuffed turkeys





Three Ways to Safely Thaw

Thanksgiving Turkey

Refrigerator:

Safe to store the turkey for another 1 – 2 days in the refrigerator.

This is the USDA recommended thawing method.

How to thaw:

Allow approximately 24 hrs. for every 4-5lbs of bird.

BEST

Keep turkey in original wrapper, place on tray to catch juices

Cold water:

Cook immediately after thawing.

How to thaw:

Submerge the bird in cold water & change every 30 mins.



Microwave:

Cook immediately after thaw-



How to thaw:

Use defrost function based on weight

Good

Allow 30 minutes of thawing per pound

Good

Check owner's manual for minutes per pound







- Wash hands for 20 seconds before meal preparation and after handling raw turkey, meat, or eggs
- Sanitize any surface that comes into contact with raw turkey with a sanitizing solution
- Homemade sanitizing solution:
 - 1 tablespoon bleach per 1 gallon of water







- Prevent cross-contamination of foods, hands or equipment
- Keep raw turkey away from readyto-eat food
- Use separate cutting boards, knives, and other utensils for raw turkey





The Four Steps: Cook



- Done at **165°F** in three places:
 - Innermost part of thigh
 - Innermost part of wing
 - Thickest part of breast
- Safest **not** to stuff a turkey
 - Cook stuffing to 165°F as well
- Safe to cook a frozen turkey
 - Cooking will take ~50% longer than thawed turkey



The Four Steps: Cook

Thanksgiving Turkey



- Set oven temperature no lower than
 325°F
- Even if "pop-up" says done, check with a food thermometer in all three places
- Let turkey stand for 20 minutes before carving
- No "interrupted cooking"

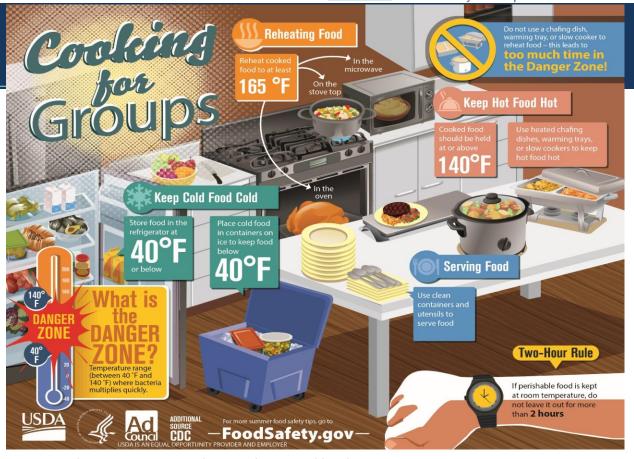






- Do not leave food at room temperature for more than 2 hours
 - Store leftovers in small, shallow containers
 - Leftover turkey should be carved into smaller pieces
- Use all refrigerated leftovers within 3 to 4 days
 - Freeze for longer storage
- Reheat leftovers to 165°F
 - To keep turkey moist, add broth or water

Thanksgiving Cooking for Groups





The FoodKeeper App

Resources





Includes:

- Tips to prevent food waste
- Storage advice on more than 600 food and beverage items
- **Cooking advice** for meat and poultry
- **Recall** information

Technical Features:

- Syncs to your calendar
- Access to food safety questions

USDA Meat and Poultry Hotline

Resources



Open Monday – Friday: 10 am to 6 pm ET

On Thanksgiving Day: 8 am to 2 pm ET

1-888-MPHotline

(1-888-674-6854)

Live Chat: ask.usda.gov

Email: MPHotline@usda.gov





Resources



1-888-MPHotline 1-888-674-6854





www.FoodSafety.gov (in partnership with FDA and CDC)



FoodKeeper App



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Thank you!

Webinar: Food Safety and Kidney Disease

Special thanks to: **American Kidney Fund!**





Questions?

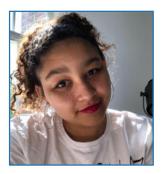




Join us for our next webinar!



Ken Sutha, MD, PhD



Bayli Park

Balancing Kidney Disease: Teenage Perspective

Thursday, December 12, 2019 from 6:00 – 7:00 p.m. EST

Join our speakers to hear more about their:

- Their journey with kidney disease and transplant
- Answers to common questions from teens
- Resources for teens

Go to <u>www.KidneyFund.org/webinars</u> to learn more and register!