Food Safety and People with Lower Immunity

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Food Safety and People with Lower Immunity

Immunity is one's ability to defend against infection

 There are groups more susceptible to foodborne disease due to their lower immunity





People with Lower Immunity

Pregnant women

- Hormonal and immunological changes during pregnancy result in weakening of mother's immune system and hence she is more prone to foodborne disease
- The developing foetus is susceptible to foodborne pathogens that may not cause symptoms in the mother

Young children and infants

- The immune system is not well developed and the protection afforded by resident gut flora may not be as effective as that in adults
- The stomach of newborns is less acidic than that of adults; bacteria and other pathogens survive relatively easier in newborns.





People with Lower Immunity (con't)

Elderly

- The natural defences against or ability to withstand an infection decline gradually as people age
- Weakened immunity due to certain chronic diseases,
 such as diabetes, or its therapy





People with Lower Immunity (con't)

- Due to immunological disorders
 - HIV infection
 - Some chronic diseases (e.g. cancer)
 - Immunosuppressive therapy, such as drugs given to prevent transplant rejection





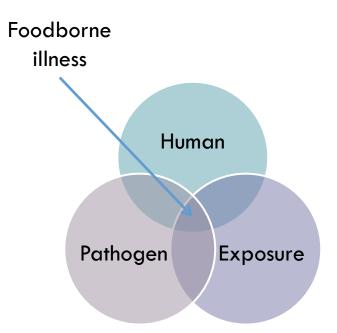
Risk of "Superbugs"

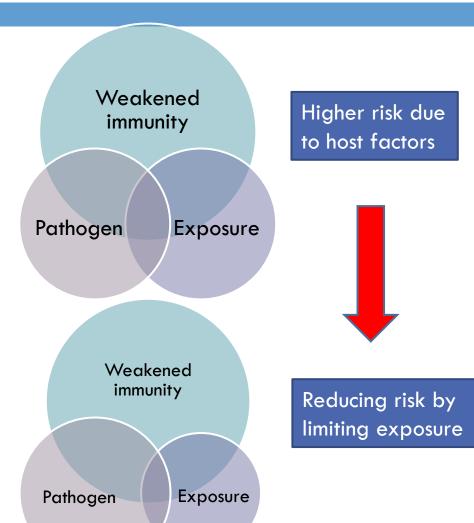
- "Superbugs": Microorganisms that develop antimicrobial resistance (AMR)
- Raw or undercooked foods are more likely to carry microorganisms, including "superbugs", than thoroughly cooked foods.
- Pathogens that are "superbugs" are even more dangerous to susceptible populations
 - Antimicrobials that are effective for treatment would be limited





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Food Safety for People at Risk

- Strict observance on food safety and hygiene!
- 5 Keys to Food Safety
 - 1. Choose (Choose safe raw materials)
 - 2. Clean (Keep hands and utensils clean)
 - 3. Separate (Separate raw and cooked food)
 - 4. Cook (Cook thoroughly)
 - 5. Safe Temperature (Keep food at safe temperature)
- □ https://goo.gl/u25g4K







Examples of Food Choice:

HIGHER RISK:

- Raw / Undercooked foods
- 2. Unwashed fruit and vegetables
- Refrigerated ready-to-eat food with a long shelf life (> 5 days)

	Food type	Food to Avoid	Lower Risk Choice
	Dairy Products	Cheeses made from unpasteurised milk	Pasteurised milkCheeses made from pasteurised milk
	Meat and Poultry	Undercooked or raw meat and poultryCold meats	 Thoroughly cooked meat and poultry Cold meats reheated thoroughly
	Seafood	 Undercooked or raw seafood e.g. sashimi Refrigerated smoked seafood Precooked seafood 	 Thoroughly cooked seafood Smoked seafood and precooked seafood reheated thoroughly Canned fish and seafood
	Fruits and Vegetables	 Unwashed fresh fruits and vegetables, including lettuce/salads 	Thoroughly washed fresh vegetables and fruitsCooked vegetables
	Eggs	Food that contain raw/ undercooked eggs	 Use pasteurised egg for recipes that call for raw or undercooked eggs Fully cooked eggs





To facilitate at-risk consumers ...

 Product labels should include information on safe handling practices and storage.

 Recommend to provide additional warning or information for people with lower immunity.

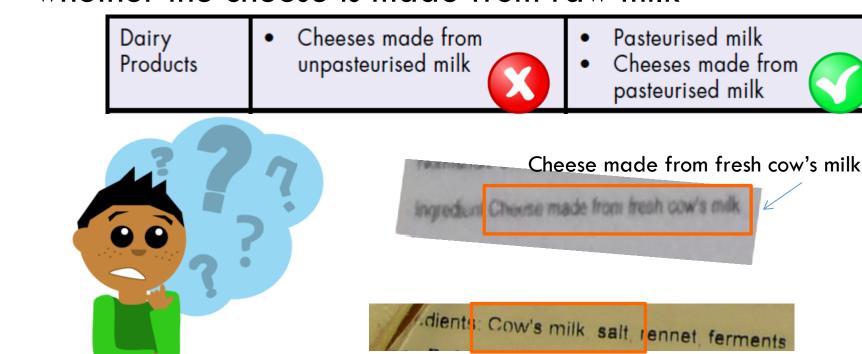
Some examples...





Cheese - Raw milk or Pasteurised milk

 Recommend to provide clear label for consumers on whether the cheese is made from raw milk







Cheese Products – Advice to susceptible populations

- Read food labels and choose cheeses carefully before consumption. Hard and extra hard cheeses are generally safe.
 - Avoid soft cheeses (e.g. Feta, Brie, Camembert) and blue cheeses (e.g. Danish blue, Gorgonzola and Roquefort).
 - For other types of cheeses, choose only those made from pasteurised milk.
 - Do not eat if in doubt.
- Store cheese products strictly in accordance with the instructions on the labels.





Raw Seafood

Seafood

- Undercooked or raw seafood e.g. sashimi
- Refrigerated smoked seafood
- Precooked seafood



- Thoroughly cooked seafood
- Smoked seafood and precooked seafood reheated thoroughly
- Canned fish and seafood



Raw



- Cold Smoked: undercooked
- 2. Long shelf life



- 1. Filter feeder
- 2. Raw







Raw Seafood

- Warning for at-risk population for raw seafood, e.g. raw oysters
 - Eating raw oyster instead of cooked ones increases the chance of food poisoning. Susceptible groups of individuals (e.g. pregnant women, children, elderly and persons with compromised immune systems or liver diseases) should avoid consuming raw or partially cooked oysters.
- May provide for unpackaged seafood too.





Salads

- Susceptible groups (including pregnant women, children, the elderly and people with low immunity) are advised not to eat pre-prepared or pre-packaged salads in general.
 - Some may also contain ingredients, e.g. raw sprout, smoked seafood, or deli meat etc., which are of higher risk to at-risk populations.
- If salad is wanted, they are advised to prepare their own salad and consume it as soon as possible.

Fruits and Vegetables

- Unwashed fresh fruits and vegetables, including lettuce/salads
- Thoroughly washed fresh vegetables and fruits
- Cooked vegetables





Egg Products



 Choose pasteurised eggs or egg products or dried egg powder to prepare dishes not requiring heat treatment.

 Include warning for atrisk population for raw egg ingredients.





Consumer Advisory: Risk of consuming raw or undercooked food

- Consumer advisory:
 - Food product description/ingredients, e.g. "Containing raw or undercooked ingredients"
 - Consuming raw or undercooked food may increase your risk of food borne illness, especially to susceptible populations
- Brochures, deli case or menu advisories, label statements, table tents, placards...etc.
- Similar advisory is also given in the U.S. FDA Food Code





SWEET

Mango Mousse

Smooth mango mouse atop a la cake with a mango glaze

SOUPS

* Classic Hot & Sour Pork, mushroom, tofu, egg

Miso Soup Seaweed, enoki, tofu, scallion, b

* Tom Yum Soup Chicken Vegetable Seafood Traditional broth, lemongrass,

straw mushroom, chili pepper,

* Korean Seafood Soup Aromatic herb soup, scallop, shrimp, calamari

mussel, Korean chili

*Hot and Spicy

No Split Checks Minimum of \$10 per Person

v Vegetarian

ed to parties of 5 or more

Consuming Raw or Uncooked Meats, Poultry & Seafood Products May Increase Your Risk of Food-Borne Illness

SAUTÉED MARYLAND CRAB CAKES \$32

FRESH CHEESE TORTELLING \$16 Shiitake mushrooms, spinach, parmesan

Jumbo lump, sautéed green beans, carrot jicama slaw, creamy mustard mayonnaise



These items are Gluten Free

We follow FDA guidelines. Consuming raw or undercooked meats, poultry, seafood, shellfish or eggs may increase your risk of food borne illness, especially if you have certain medical conditions.

COME FOR THE VIEW, STAY

LUNCH SERVED UNTI

Pregnant woman, young children, elderly people and people who are immunocompromised should not consume this food product.

孕婦,幼兒,老人以及個人免疫功能低者, 不應進食此食品。





In summary,

Allow consumers to make informed choices appropriate to the individual's health status and concomitant risk of acquiring foodborne illness.

- Label high risk food items, so that at-risk consumers are adequately informed with respect to the safety and true nature of these products.
 - Avoid these food items; or
 - Cook before consumption





Relevant CFS Articles

□ Food Safety and People with Lower Immunity



□ Listeria monocytogenes in Cheese Products



Overview of Food Safety Risks of Oysters







THANK YOU



