5 Keys to Food Safety Practical Tips for the Trade



Centre for Food Safety

Risk Communication Section





Content

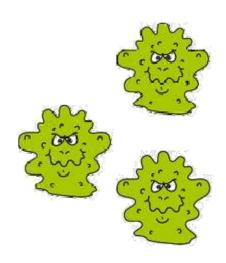
- What is Foodborne Disease?
- Symptoms, causes and contributing factors of Foodborne Disease
- What are the 5 Keys to Food Safety?
- How to apply the 5 Keys to Food Safety
 - Purchase
 - Store
 - Prepare
 - Cook
 - Transport and Serve





What is Foodborne Disease?

- Sickness caused by food that people eat
- Causes
 - dangerous microorganisms and/or
 - toxic chemicals







Common symptoms of Foodborne Disease

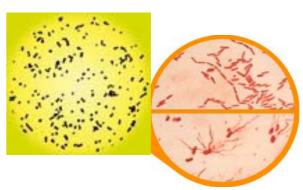
- Most symptoms occur in 24 to 72 hours after eating
 - stomach pains
 - vomiting
 - diarrhoea, etc
- Most symptoms are mild
- Some diseases may severely affect infants, pregnant women, elderly and the sick





What are the causes locally?

- In the past five years (2003-2007)
 - about 90% of food poisoning cases were caused by bacteria and viruses
- In 2006, the top four commonest dangerous microorganisms
 - Vibrio parahaemolyticus (40%)
 - □ Salmonella species (19%)
 - Staphylococcus aureus (19%)
 - Noroviruses (15%)







Local contributing factors

- In 2006, the top three contributing factors
 - inadequate cooking (38%),
 - contamination by raw food (15%)
 - 3. poor personal hygiene of food handlers (14%)
- More than half (64%) of the foodborne diseases occurred at food premises





What are the 5 Keys to Food Safety?

 Advocated by the World Health Organization to prevent foodborne diseases



- Choose (Choose safe raw materials)
- 2. Clean (Keep hands and utensils clean)
- Separate (Separate raw and cooked food)
- 4. Cook (Cook thoroughly)
- 5. Safe Temperature (Keep food at safe temperature)





5 Keys to Food Safety in Daily Operation

- Purchase
- Store
- Prepare
- Cook
- Transport and serve







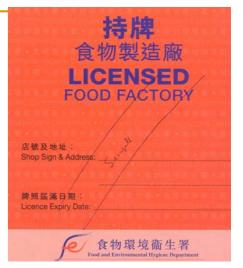






Purchase - CHOOSE(1)

 Obtain food and food ingredients from approved and reliable sources



 confirm that the suppliers have obtained relevant and valid licences from the Food and Environmental Hygiene Department (FEHD)
 Please visit

http://www.fehd.gov.hk/licensing/licence-type.html

don't buy food from illegal or questionable source,
 e.g. food of unreasonably low price or meat with abnormal red colour





Purchase - CHOOSE(2)

 Use fresh and wholesome food ingredients and check the quality of the ingredients upon receipt

- fruits or vegetables are not damaged and without bruised areas
- canned foods are not bulging or dented
- jars are not cracked or have loose lids
- eggs in the carton are not cracked or leaking
- Food or food ingredients are stored at safe temperature
 - hot foods at above 60°C
 - cold foods at or below 4°C
 - frozen foods at or below -18°C







Purchase - CHOOSE(3)

- Do not use food beyond its expiry date
- Read food labels carefully and follow instructions
- Choose food before its expiry date
 - "use by" date
 - "best before" date
- Label and check the storage time of the food in the refrigerator
- Stick to the first-in-first-out principle for food storage

READ THE FOOD LABELS







Purchase - CHOOSE(4)

Difference between "use by" and "best before" date

	"use by" date	"best before" date
Example of Food	A cup of ice-cream	A pack of biscuit
Example of Expiry Date	1-1-2008 If the food is properly stored, it is recommended for use on or before 1-1-2008	1-1-2008 If the food is properly stored, it can be expected to retain its specific properties on or before 1-1-2008
Recommendations after the Expiry Date	Usually, the food is highly perishable. If you consume it after the date, there is a chance that you will suffer from foodborne disease	If you consume it after the date, the food may not be at its best flavour and quality





Store - SAFE TEMPERATURE



 Refrigerate cooked and perishable food within 2 hours

- Check and record the temperature of the refrigerator with a thermometer and ensure
 - fridge is at or below 4°C
 - freezer is at or below -18°C
- Don't overstuff the refrigerator





Store - SEPARATE

Ideally, use two separate refrigerators for storing raw food and cooked or ready-to-eat food



- If raw food and cooked or ready-to-eat food have to be stored in the same refrigerator:
 - store food in containers with lids
 - store raw meat, poultry, and seafood below ready-to-eat food or cooked food in the fridge







Prepare - CLEAN (Personal Hygiene)

Nail brush

Wash hands frequently

- before handling food
- often during food preparation
- after handling raw meat or poultry
- after handling soiled equipment
 - or utensils
- after coughing, sneezing, blowing nose,
 - eating or drinking
- after touching ears, nose, hair, mouth
 - or other parts of the body
- after handling rubbish
- after handling animals and chemicals
- after going to the toilet
- before wearing gloves and
- after engaging in any activities that may contaminate hands (e.g. handling money, carrying out cleaning duties)



Procedures to wash hands

Liquid soap

Warm water supply





Prepare - CLEAN (Personal Hygiene)

- Wash your hands with warm soapy water for 20 seconds
 - wet hands under running water
 - rub hands together for at least20 seconds with liquid soap
 - rinse hands under running water
 - dry hands with clean paper towels or air dryers







Prepare - CLEAN (Personal Hygiene)

Food handlers should

- wear clean and light-coloured outer clothing or protective overalls
- wear mouth masks when handling food as far as possible
- wear disposable gloves when handling ready-to-eat food
- cover sore or cut on hands by waterproof bandages or gloves
- keep nails short and unpolished









Prepare - CLEAN(Environmental Hygiene)

Wash utensils and worktops with hot water and detergent after each use

Keep kitchen clean and away from insects, pests and other animals

- keep food covered or in closed containers
- keep rubbish bins covered and remove rubbish at least once a day
- keep floors, surface channels and gratings
 clean and clear from food remnants
- keep food preparation areas in good condition, e.g. repair wall cracks or holes
- use rodenticides or insecticides to kill pests but take care not to contaminate food
- keep pets away from kitchen





Store - SEPARATE



- Use separate utensils to handle raw food and cooked or ready-to-eat food
- Label utensils (including cutting boards and knives) with different colours, e.g.
 - Red- Raw food
 - Blue- cooked food
 - Green- Ready to eat food
- Use one utensil to taste and another to stir or mix food







Cook - COOK thoroughly



- Thaw frozen food properly before cooking, put it
 - in microwave
 - in the fridge or
 - under running water







Cook - COOK thoroughly

Ideally, use a food thermometer to check that the core temperature reaches at least 75 °C



- When you use the food thermometer, make sure you use it properly:
 - place the food thermometer in the centre of the thickest part of the meat
 - the food thermometer is not touching a bone or the side of the container
 - clean the food thermometer between each use







Cook - COOK thoroughly



- If you do not have a food thermometer, cook or reheat food thoroughly until it is piping hot throughout and check
 - meat and poultry: juices are clear, not red;
 - blood is not visible when you cut
 - the cooked meat
 - eggs: egg yolks are not runny or liquid
 - soups and stews: bring to a boil and continue to boil for
 - at least one minute
- Stir, rotate and cover food when microwaving to ensure thorough cooking





Transport & Serve - SAFE TEMPERATURE

- Never leave cooked food at room temperature for more than 2 hours
 - Label foods to indicate how long they have been stored



- For hot foods, keep them at above 60°C
 - During transportation,
 - wrap them well and place in a clean insulated container
 - When serving, they should be held
 - in warming device or
 - on preheated steam tables, warming trays, and/or slow cookers
 - Check the temperature frequently to ensure it reaches more than 60°C







Transport & Serve - SAFE TEMPERATURE

- For cold foods, keep them at or below 4°C
 - During transportation,
 - place them in cooler with a cold source such as ice or frozen gel packs
 - When serving, they should be held in
 - shallow containers which are placed inside a deep pan filled partially with ice to keep food cold
 - drain off water as ice melts and replace ice frequently





Follow 5 Keys to Ensure Food Safety



