Food poisoning

Food poisoning can be caused by:

- bacteria, e.g. through cross-contamination from pests, unclean hands and dirty equipment, or bacteria already present in the food, such as salmonella:
- physical contaminants, e.g. hair, plasters, egg shells, packaging;
- · chemicals, e.g. cleaning chemicals.

Bacterial contamination is the most common cause.

Microorganisms occur naturally in the environment, on cereals, vegetables, fruit, animals, people, water, soil and in the air. Most bacteria are harmless but a small number can cause illness. Harmful bacteria are called pathogenic bacteria.

The process of food becoming unfit to eat through oxidation. contamination or growth of micro-organisms is known as food spoilage.

Bacterial growth and multiplication

All bacteria, including those that are harmful, have four requirements to survive and grow:

- food:
- moisture:
- warmth:
- time.









-80 -70 -60

Allergen and food intolerance awareness

There are 14 ingredients (allergens) that are the main reason for adverse reactions to food. Crosscontamination of food containing these allergens must be prevented to reduce the risk of harm. They must also be labelled on pre-packaged food and menus so that consumers can make safe choices. The 14 allergens are:

Milk Celery (and celeriac) Molluscs Cereals containing Mustard aluten Nuts Crustaceans Peanuts Eggs Sesame Fish Sovbeans Lupin Sulphur dioxide

Where should food be stored in the fridge?

Cheese, dairy and egg-based products

The temperature is usually coolest and most constant at the top of the fridge, allowing these foods to keep best here.

Cooked meats

Cooked meats should always be stored above raw meats to prevent contamination from raw meat.

Raw meats and fish

Raw meats and fish should be below cooked meats and sealed in containers to prevent contamination of salad and vegetables.

Salad and vegetables

These should be stored in the drawer(s) at the bottom of the fridge. The lidded drawers hold more moisture, preventing the leaves from drying out.

Key terms

Allergens: Substances that can cause an adverse reaction to food Cross-contamination must be prevented to reduce the risk of

Bacteria: Small living organisms that can reproduce to form colonies. Some bacteria can be harmful (pathogenic) and others are necessary for food production, e.g. to make cheese and vogurt.

Cross-contamination: The transfer of bacteria from one source to another. Usually raw food to ready-to-eat food but can also be the transfer of bacteria from unclean hands, equipment, cloths or pests. Can also relate to allergens.

Food poisoning: Illness resulting from eating food which contains food poisoning microorganisms or toxins produced by micro-organisms.

High risk ingredients: Food which is ready to eat, e.g. cooked meat and fish, cooked eggs. dairy products, sandwiches and ready meals.

Task

Create a poster highlighting the top tips for ensuring food is safe to eat. Include personal hygiene, safe storage, preparation and cooking of food.

High risk food Bacteria easily multiply on foods known as 'high-risk food'. These are often high in protein or fat, such as cooked meat and fish, dairy foods and eggs. Cooked pasta and rice are also regarded as high risk foods if they are not cooled quickly after cooking and stored below 5°C.

Moisture

Bacteria need moisture to survive. Dried foods, such as powdered milk, cereals or dried egg do not support bacterial growth, if properly stored. However, if moisture is added. any bacteria still alive can quickly begin to multiply.

Time

When bacteria spend enough time on the right types of food, at warm temperatures, they can multiply to levels that cause illness.

Temperatures to remember

temperature control is vital:

To reduce the risk of food poisoning, good

• 5-63°C – the danger zone where

temperature for cold food, i.e.

temperature your fridge should

temperature, middle or thickest

part should reach at least this

temperature. In Scotland food

75°C – if cooking food, the core

bacteria grow most readily.

optimum temperature for

37°C – body temperature.

5°C (or below) – the ideal

75°C – if reheating food, it

should reach at least this

should reach at least 82°C.

bacterial growth.

vour fridge.

temperature.

8°C – maximum legal

Reheat food only once and eat leftovers within 48 hours

Use-by-date

You've got until the end of this date to use or freeze the food before it becomes too risky to eat

USE BY:

25/08/20

KEEP

REFRIGERATED

COOL DRY PLACE



Subject; Knowledge Food Organiser: 6

Symptoms of food poisoning The symptoms of food

poisoning include: nausea:

- vomiting:
- stomach pains;
- diarrhoea.

People at risk

Elderly people, babies and anyone who is ill or pregnant needs to be extra careful about the food they eat.

Why clean?

To remove grease, dirt and grime, and prevent food poisoning and pests.

Best-before-date

hands.

Getting ready to cook

Remove blazers/jumpers

and roll up long sleeves.

· Tie up long hair and tuck in

ties or head coverings.

Put on a clean apron.

Thoroughly wash and dry

You can eat food past this date but it might not be at its best quality.

BEST BEFORE:

25/08/21

STORE IN A