



WELCOME TO 2016

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We at FCS would like to wish everyone a Happy New Year. We hope that you all had a rejuvenating festive season and are ready for an exciting and successful 2016.

This year we aim to bring you a monthly newsletter filled with insight and answers to our most commonly asked queries.

For any queries regarding the newsletter, or if you would like a specific topic covered, please contact Tara at tara@foodconsulting.co.za

Here is to another year as your partners in food safety.



THE IMPORTANCE OF FOOD SAFETY

A large majority of people will experience a food borne illness at some point in their lives. Every year, millions of people become ill and many die from eating unsafe food. For infants, pregnant women, the sick and the elderly, a food borne disease can often be fatal. Contaminated food can also cause long-term health problems such as cancer and neurological problems.

This highlights the importance of making sure that the food we eat is not contaminated with potentially harmful bacteria, parasites, viruses and toxins. Food borne illnesses have been an issue throughout the ages of time. However, over the past century the process by which food gets from farm to fork has changed drastically. Food contamination that occurs at one point in the chain, may affect consumers on the other side of the planet.

This means that food safety is a shared responsibility between, governments, industry, producers, academia and consumers and it is essential that all are well informed on safe food handling practices.

Millions of people fall ill every year and many die as a result of eating unsafe food. Diarrhoeal diseases alone kill an estimated 1.5 million children annually, mostly attributed to food and drinking unsafe water. Proper food preparation can prevent most food borne diseases

WHAT IS A FOOD BORNE DISEASE/ ILLNESS

Food borne Illness, or more commonly called food poisoning, is caused by consuming food that is contaminated with harmful (pathogenic) bacteria, viruses or parasites or the toxic products of a microorganism's growth. Generally, a foodborne illness often involves a disturbance of the gastrointestinal tract, abdominal pain, diarrhoea, fever and vomiting. However, different foodborne pathogens may cause different bodily reactions. Incubation periods (the time delay between the consumption of the contaminated food and the onset of first symptoms) can also vary, depending on the amount of contaminated food consumed, and what the food was contaminated with.

During the incubation period, microbes pass through the stomach into the intestine and attach to the intestinal wall cell lining and begin to multiply. Some types of microbes stay in the intestine, while others with produce a toxin that can be absorbed into the blood stream and invade deeper tissues.

Food borne illnesses are usually caused by improper food handling, preparation, storage or a lack of hygiene in food handlers. However, a number of factors can contribute to food being contaminated; often this is a combination of events. Regular handwashing is an excellent defence against the spread of food borne illness.

SAFER FOOD SAVES LIVES

WHO Statistics (2010)

- 1. There were an estimated 582 million cases of 22 different foodborne enteric diseases and 351 000 associated deaths.
- 2. The most deaths were caused by <u>Salmonella Typhi</u> and enteropathogenic <u>E.coli.</u>
- 3. The African region recorded the highest disease burden for enteric foodborne disease.
- 4. Over 40% of those suffering from enteric diseases caused by contaminated food were under the age of 5 years.







COMMON FOOD BORNE DISEASES

Bacteria:

- Salmonellosis: Caused by the bacterium Salmonella found in contaminated meat and poultry. Infected people generally develop diarrhoea, fever, vomiting, and abdominal cramps often lasting from 12-72 hours.
- Listeria: a bacterial infection spread by consuming contaminated raw vegetables, processed meats, smoked fish and soft cheeses. It can result in blood poisoning and meningitis.
- Cholangitis: One of the many bacterial infections caused by *E.coli. E.coli* can cause many symptoms such as pain, fever, jaundice, nausea and diarrhoea.
- Cholera: causes watery diarrhoea that can be fatal within hours if left untreated. Caused by consuming foods contaminated with *Vibrio cholera*.

Virus:

• Hepatitis A: A virus that is transmitted through food that is contaminated by the faeces of an infected person. It is a liver disease that causes nausea, jaundice, anorexia, fever, malaise and abdominal pain.

Parasites:

• Toxoplasmosis: Caused by *Tocoplasma gondi*, spread through consuming undercooked meat and fresh produce. Often results in impaired vision and neurological conditions

Toxins:

• Aflatoxin: a toxin that is produced by moulds that grows in incorrectly stored grains. It can cause deadly liver cancer.

Food borne illness often occurs as outbreaks. For example: In Limpopo January 2014, a diarrhoeal outbreak which hospitalized 42 people was attributed to Salmonella, and in Pietermaritzburg March 2015, 56 Children were hospitalized after consuming incorrectly prepared foods

High risk foods:

- Nearly any food items can cause a food borne illness. However, the most likely to be contaminated is seafood, beef, poultry and eggs. The simplest reminder is that, if these foods provide us with nutrients, it almost always provides nutrients for bacteria.
- 2. Fruits and vegetable are also of particular concern as although washing does decrease the risk, it often does not completely rid the food of contaminates. The quality of the water is essential in the washing of fresh produce.
- 3. Unpasteurized milk, fruit juice and other dairy products are often be a risk.



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