

Food Hygiene Health and Food Security



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Food Safety



- WHO Regional Food Safety Strategy,:
 - Food safety is defined protecting the food supply from microbial, chemical and physical hazards that may occur during all stages of food production, including growing, harvesting, processing, transporting, retailing, distributing, preparing, storing and consumption, in order to prevent foodborne illnesses.



Food Security and Food Safety

Pillars of food security and determinant factors of each pillar

FOOD SECURITY

Food availability

- Domestic production
- Import capacity
- Food stocks
- Food aid

Access (Phys

- & eco)
- Purchasing power
- Income of population
- Transport & market infrastructure

Stability (of supply & access)

- Weather variability
- Price fluctuations
- political/eco factors

Food utilization

- Food safety
- Hygiene & Good Practices applied in food chain
- Diet quality & diversity: meeting needs of energy, macro/micro nutrients

Source: adapted from presentation by Ms. Shashi Sareen, FAO





- Anthrax; Typhoid Fever and Botulism; Chemical contamination of seed beans and maize (Zimbabwe; Uganda; Kenya; Nigeria);
- Salmonellosis due to fish mouse (Mauritius).
- Mushroom poisoning (Algeria); Bromide poisoning (Angola) and food poisoning (Madagascar, Angola, Kenya, Mauritius, and Botswana);
- Outbreaks of diarrhoea (Congo, Kenya, Madagascar, Burundi, Comoros, Uganda, Kenya, Botswana and Mozambique);
- Major outbreaks due to shigellosis (Malawi);
- Acute aflatoxicosis in Kenya and Konzo in DRC and Angola (Mensah et al., 2012). Aflatoxin-induced liver cancer, immunosuppression problematic in areas with high rates of infections (HBV, HIV, etc..)

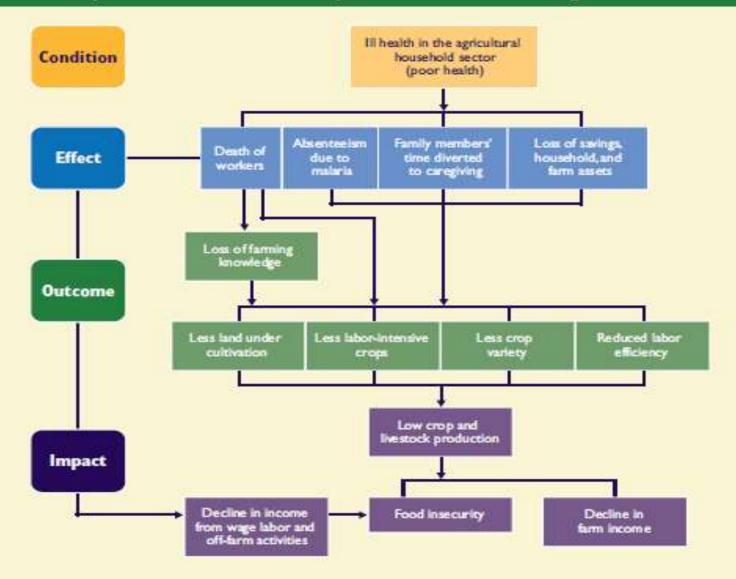








Figure 2—Conceptual framework for the impact of illness/disease on agriculture

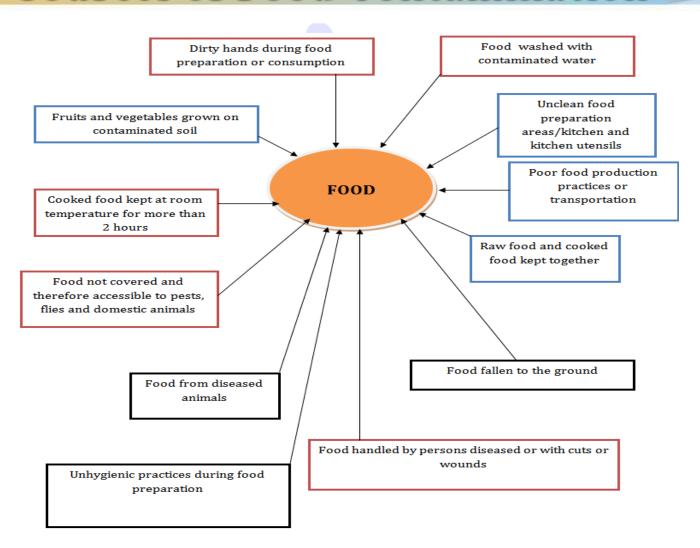


World Health Organization Food Safety and Food Security Security

- In case of ill-health of the male, the household loses 42% of its nutritious diet and 34 % when it is the mother (Donovan C, et al. Kigali, Food Security Support Project. 2003)
- In Sub-Saharan African, the death of the male reduced the production of the cash crops and female death reduced grain necessary for the household survival
- Food safety requirements if not meet:
 - impede established export flows, the economic losses affect both the private and public sector with considerable impacts on communities [15].



Sources of Food Contamination





World Health or Illustration of chicken as a source of contamination

Courtesy: Dr. Henk van der Zee, Food Inspectorate, the Netherlands



















Five keys to safer food

Keep clean

- Washyour handsbefore handling load and often during road preparation
- West your hands after going to the tollet Weath and sample of surfaces and equipment used for food preparation
- Protect Hitchen areas and food from insects, peets and other animals

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Separate raw and cooked

- Separate raw meat, picultry and scalood from other toods Use separate equipment and utensity such as knives and curring boards for
- Store load in containers to avoid contact between row and prepared loads

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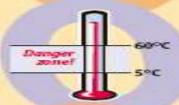


Cook thoroughly

- Cook foodth groughly, especially med, pourly eggs and scalood
- Being foodspies oupsands pows to be lang to make specific they have eached TOYC. For meet and poultry, make sure that places are clear, not pink. I dealing useathermometer
- Reheat cooked bad thoroughly

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Keep food at safe temperatures

- Do not leave cooked tood at room temperature for more than 2 hours
- Refrige site promptly all cooked and perishable food ignorerably below 5°C.
- Keep coaled bod piking not imprethan 60°C prior to serving.
- Do not storefood the long even in the religerator
- Do not thew frozen to at a com temperature

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Use safe water and raw materials

- Use softe water or treat k to make it sale
- Select fresh and wholesome foods
- Choose books processed for sale by such as paste urbed make.
- Washfruits and vegetables, especially if earen raw
- Do not use food beyond its expiry date

MARKET !

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Food Safety and Health

A Strategy for the WHO African Region



- Capacity building; countries effective participation to CODEX; risk analysis
- In collaboration with the AU:
 - Establishment of a Food Safety Authority and Rapid Alert System for Food and Feed.
 - AU/EU programme on Better Training for Safer Food.
- The Global foodborne Infections Network

 partners (CDC, USA; National Food Institute, Denmark; Reseau
 International Des Instituts Pasteur, France; Public Health Agency of Canada;
 FDA, USA; Animal Sciences Group Lelystad, Netherlands; Enter-net,
 European Union; OzFoodNet, Australia)
 - Capacity building of microbiologists and epidemiologists to conduct integrated surveillance for foodborne and other enteric infections from the farm to the table and research





Key Messages

- A comprehensive, coherent and coordinated strategy is needed to make progress towards, food security, food safety, nutrition, and health which are crosscutting issues that permeate the entire lifecourse from conception to old age.
- Include food safety in Food and Nutrition policies and Strategies and plan of action and establish a diversity of approaches to enhance consumer awareness and participation in food safety activities including commitment to consumer education.



Assuring Food Security, Food Safety and Nutrition – A Shared Responsibility Let us Be Together

