Environment health Activity

Safe food is essential for our health and well-being, but each year it's estimated that 600 million people get sick and 420,000 people died because of contaminated food. food safety an important public health issue so what makes food unsafe how it happens what it leads to and how we can prevent it

1. What ____ Contaminants

Contaminants: Biological -> Micro-organism some of these can Produce toxins illness _ lead < * Prions - Protien Potiential cause severe disease B) Chemicals: I heavy metals 2 compounds 3 Detergant C) Physical: 1 Plastic 2-Stones 3-Glass

Contamination can happen at any number of points to add to the complexity is increased globalization which means that food source from many different countries.

besides contamination other ways that food could be potentially <u>h**armful**</u> or if it is <mark>not labeled</mark> properly. This is a concern for people who have food, allergies or potentially from consuming food past its expiry date.

2. HOW

- * food supply chain: getting food where 1. Production:
 - 1 Production: raising animals/growing the plants that we used for food, some cought/harvested from the wild
 - 2. Processing: Plants, animals or there products converted & Packaged into a form we buy as food
 - 3. Distribution: where the food gets from the farm to the consumer thru retail stores
 - 4 Preparation: getting food ready to eat

- * contamination can happen if animals are infected & transmint Pathogens to their meat/animal Products: eggs/milk
- * If Water used to irrigate fruits & vegetables contain Pathogen/chemicals
- * Use of Pesticides which can lead to toxic festicide residues in food

3. Distribution: 2 Processing: * by unclean unsafe storage lead * During the Slaughtering Process if the Pathogen from animals Cl system to biological, Chemial, Physial contaminut. * Pests -> rats, insects, birds that can contaminate the meat Product Soluting processing: Pathogens/Chemical/
physical contaminate > Class introduce Pathogens / Physical contaminant nair/droppings could enter food * Poor tempreture control for ex: contaminated water/surfaces not 4 Preparation * food adultration is the trandulent Practise - unnecessary, inferior, * Unclean hands

* cross contramination -> using same

Knife in cooking toxic chemical added to food G to improve appearance, taste, reduce cost, last longer. * Cooking food to the not right tempreture 3. Effects * sick food handlers Contaminated food > 200 diseases B. Prions -> fetal neurological discase Depends on type of contamination

Range symptoms: Chemical compounds: Shorter long term can impact many organs -> Cancer 1. Asymptomatic 2 severe disease 3. Death Physical contiminats: injury or introduce another types of contaminants Biological contaminants: 1. lever 2. Abdominal Pain 3. Nosia 4. voniting S. diarrhoea J-hours - days Complication: * High risk groups > 1 Eldery > 65 yrs 1 Kidney Paliure 2. Arthritis 3 Miscarriage 3. Pregnant women L. u. immunocompromised Toxins -> Castrointestinal disease * unsafe food - 1 Economy 2 food security 3 antimicrobial resistance

4. Prevention → complex → requires action at all levels

1. Global level: WHO - world health organization

FAD - food and Agriculture organization

forex: CODEX alimentarius: collection of international Standards, quidelines, codes, Practise

> INFOSAN: global network of national that share information & collaborates on food safety

2. Notional level: Posel codes & Standards & manufacturing Practise also for surveillance & mangement of footborne Illness & outbreaks.

3. Industry: food safety at all stages of supply chain include: compliance, quality assurance, stuff training,

analysis & critical control point = HACCP & identify Potiential food Hazards

4. Individual level

2. Separate row & cooked food

3. Cooking thoroughly 4. Safe tempreture