Safety and biosecurity

Lecture.2

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المرحلة الاولى/الفصل الدراسي الاول

2022-2023

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Biological waste

This group includes medical waste and waste resulting from biological research, and includes medical wraps resulting from emergency departments and operating rooms in hospitals and medical clinics, in addition to syringes and human tissues, damaged blood units, dead animal corpses, as well as expired medical drugs. Some of these wastes may be toxic, and others pose a risk to health as a result of bacterial contamination, so it must be handled with sufficient care to ensure that it does not affect public health, especially for the people who deal with it, whether in collecting or transporting and disposing it, and it can be collected in paper bags lined with material Wax, or plastic bags, and placed inside lined metal containers.

Differentiating between biosafety and biosecurity

BIOSAFETY:

Describes the containment principles, technologies and practices that are applied to prevent the unintentional exposure to Biological agents and toxins or their accidental release

BIOSECURITY:

Describes protection, control and accountability for valuable biological materials within laboratories, in order to prevent their **loss**, **theft**, **misuse**, **diversion** of, **unauthorized access** or **intentional release**.

Biosafety *protects people from germs –* ***Biosecurity*** *protects germs from people.*

biosecurity risk

Is anything that could increase the impacts of pests, diseases, weeds or contaminants on the economy, environment or community.

The risk may not directly impact you and your property, but may impact someone else

what are the Biosecurity hazards?

A variety of biosecurity hazards threaten health and biosafety. Some of these are listed in the table below:

Table 1. Definitions of hazard as unlikable to different biosecurity sectors Sectors Definitions of hazard.

Food safety	A biological, chemical or physical agent in, or condition of, food with the potential to cause an adverse health effect.
Zoonoses	A biological agent that can be transmitted naturally between wild or domestic animals and humans.
Plant and Animal health	Any pathogenic agent that could produce adverse consequences on the immuration of a commodity.