



Biorisk Management: Risk Assessment



Biorisk Management

Learning Objectives

By the end of the session, participants should be able to meet the following objectives:

- Discuss biorisk management as a concept
- Identify the key components of biorisk management





Biorisk: Definition

- ⊕ The **risk** associated with biological materials in the laboratory has a **safety** and a **security** component

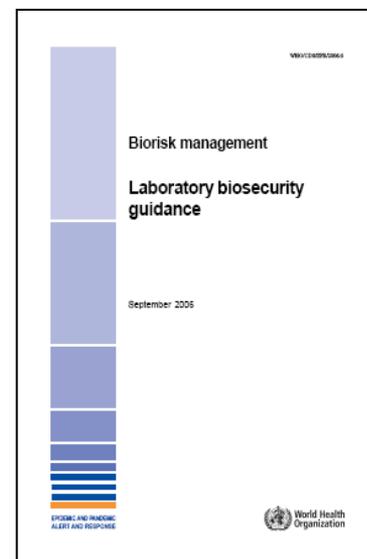
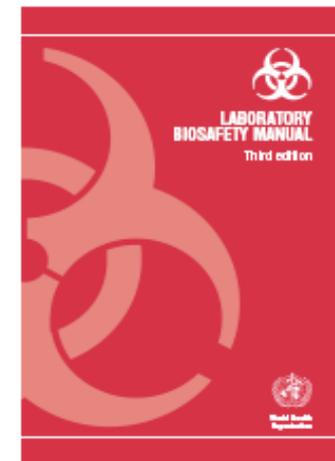
- ⊕ **Biorisk** encompasses **biosafety** and **biosecurity**

Definitions

☣ **Laboratory biosafety:** containment principles, technologies, and practices implemented to prevent unintentional exposure to pathogens and toxins, or their unintentional release

☣ **Laboratory biosecurity:** institutional and personal security measures designed to prevent the loss, theft, misuse, diversion, or intentional release of pathogens and toxins

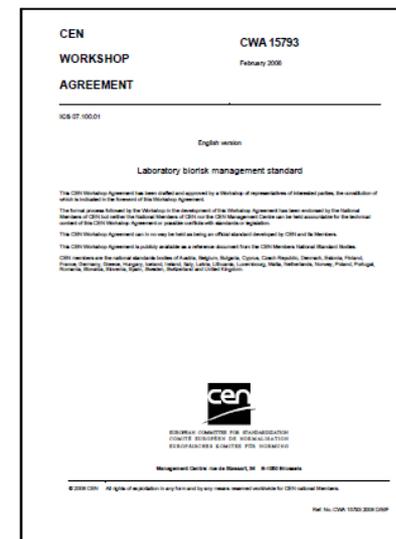
¹*Laboratory biosafety manual, Third edition*
(World Health Organization, 2004)



Laboratory Biorisk Management

⚠ System or process to control safety and security risks associated with the handling or storage and disposal of biological agents and toxins in laboratories and facilities

⚠ CWA 15793:2008





Group Exercise 2

In your group, take 10 min to discuss and answer the following three questions:

How do you identify these risks?

Which steps do you take to manage these risks?

How do you know that your risk management is working, and will continue to work?

Use *post-it notes* to write down your answers, one idea per note, and post them on a flip chart

Report your answers to the class





Group Exercise 3

Let's get organized:

Take the *post-it notes*, and place them under one of the following columns:

Assessment	Mitigation	Performance
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Key Components of Biorisk Management

⚠ Biorisk Assessment

⚠ Biorisk Mitigation

⚠ Performance





Biorisk Management: the AMP Model

**Biorisk Management =
Assessment, Mitigation, Performance**



Key Components of Biorisk Management

- ⊕ During the next sessions, we will always refer back to the AMP model and individually address the three components

**Biorisk Management =
Assessment, Mitigation, Performance**