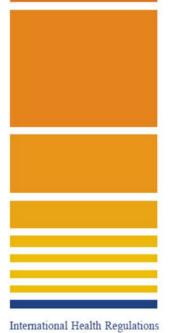
WHO/HSE/2012.3

# Laboratory Biorisk Management Strategic Framework for Action 2012–2016

Applicable from 1st January 2012



Coordination



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### **Abbreviations**

BRM Biorisk Management

BRM ATP Biorisk Management Advanced Trainer Programme

BWC Biological Weapons Convention

CEN European Committee for Standardization

CWA CEN Workshop Agreement
IHR International Health Regulations
FAO Food and Agriculture Organization
ISST Infectious Substances Shipping Training

MLB Managing Laboratory Biorisk

OIE World Organisation for Animal Health

PHEIC Public Health Emergencies of International Concern

WHA World Health Assembly WHO World Health Organization

/HSE Health Security and Environment Cluster

/GCR Department of Global Capacities Alert and Response

/SID Support for IHR Capacity Development Unit

/BMT Biorisk Management Team

## **Terms and Definitions**

accident unintended event giving rise to harm (from CWA 15793:2011)

NOTE An accident is an incident which has resulted in harm.

biorisk combination of the probability of occurrence of harm and the severity

of that harm where the source of harm is a biological agent or toxin

(from CWA 15793:2011)

NOTE The source of harm may be an unintentional exposure, accidental release or loss, theft, misuse, diversion, unauthorized

access or intentional unauthorized release.

biorisk management analysis of ways and development of strategies to minimize the

likelihood of the occurrence of biorisks. The management of biorisk places responsibility on the facility and its top management to demonstrate that appropriate and valid biorisk mitigation strategies are established, documented, implemented, maintained and continually

improved. (adapted from: WHO/CDS/EPR/2006.6)

biorisk management system part of an organization's management system used to develop and

implement its biorisk policy and manage its biorisks (from CWA

15793:2011)

NOTE 1 A management system is a set of interrelated elements used to establish policy and objectives and to achieve those objectives.

NOTE 2 A management system includes organizational structure, planning activities (including for example, risk assessment and the setting of objectives), responsibilities, practices, procedures,

processes and resources.

biosafety laboratory biosafety describes the containment principles, technologies

and practices that are implemented to prevent the unintentional exposure to biological agents and toxins, or their accidental release

(adapted from: WHO/CDS/EPR/2006.6)

biosecurity laboratory biosecurity describes the protection, control and

accountability for biological agents and toxins within laboratories, in order to prevent their loss, theft, misuse, diversion of, unauthorized

access or intentional unauthorized release (adapted from: WHO/CDS/EPR/2006.6)

NOTE In the context of this standard biosecurity is restricted to laboratory biosecurity; laboratory includes animal and manufacturing facilities, and does not include all aspects of biosecurity in the sense of national or regional control measures to prevent the dissemination of alien species and pathogens.

certification

systematic, documented process to ensure systems perform in accordance with available certification standards or applicable validation guidance (from CWA 15793:2011)

community

people outside the workplace potentially affected by the activities of the facility (from CWA 15793:2011)

competence

appropriate education, training, skills and experience (from CWA 15793:2011)

facility

operational unit and associated buildings and equipment used to manage biological agents and toxins (from CWA 15793:2011)

NOTE 1 This includes the laboratory, together with the supporting infrastructure, equipment and services including ancillary rooms such as airlocks, changing rooms, sterilizing rooms and storage rooms.

NOTE 2 In the context of this standard additional facility types may also need to be considered which fall outside the definition of "laboratory" (e.g. vivaria, aquaria and green houses).

hazard

source, situation, or act with a potential for causing harm (from CWA 15793:2011)

incident

event with a potential for causing harm (from CWA 15793:2011) NOTE 1 An accident is an incident which has resulted in harm. NOTE 2 An incident where no harm is caused may also be referred to as a "near miss", "near hit", "close call" or "dangerous occurrence". NOTE 3 An emergency situation is a particular type of incident.

inspection

conformity evaluation by observation and judgement accompanied as appropriate by measurement, testing or gauging (from CWA 15793:2011)

laboratory

room within a facility, designated for work on biological agents and/or toxins (from CWA 15793:2011)

organization

company, corporation, firm, enterprise, authority or institution, or part or combination thereof, whether incorporated or not, public or private, that has its own functions and administration (from CWA 15793:2011) NOTE For organizations with more than one operating unit, a single operating unit may be defined as an organization.

record

document stating results achieved or providing evidence of activities performed (from CWA 15793:2011)

risk

combination of the probability of occurrence of harm and the severity of that harm (from CWA 15793:2011)

risk assessment

process of evaluating the risk(s) arising from a hazard(s), taking into account the adequacy of any existing controls and deciding whether or not the risk(s) is acceptable (from CWA 15793:2011)

safety

freedom from unacceptable risk (from CWA 15793:2011)

# Aim

This document presents a strategic framework, aimed towards the development of sustainable global, regional and national plans relating to laboratory biorisk management.

## **Vision**

"Safe and secure environments in and around every laboratory in the world"

# **Mission**

- Lead, participate and collaborate in advancing biorisk management, including biosafety and laboratory biosecurity.
- Provide frameworks, expertise and tools to inform, guide, and support WHO's Member States
  in protecting the health of people in and around laboratory environments through appropriate
  biorisk management.
- Establish a positive and growing culture towards responsible biorisk management worldwide.

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