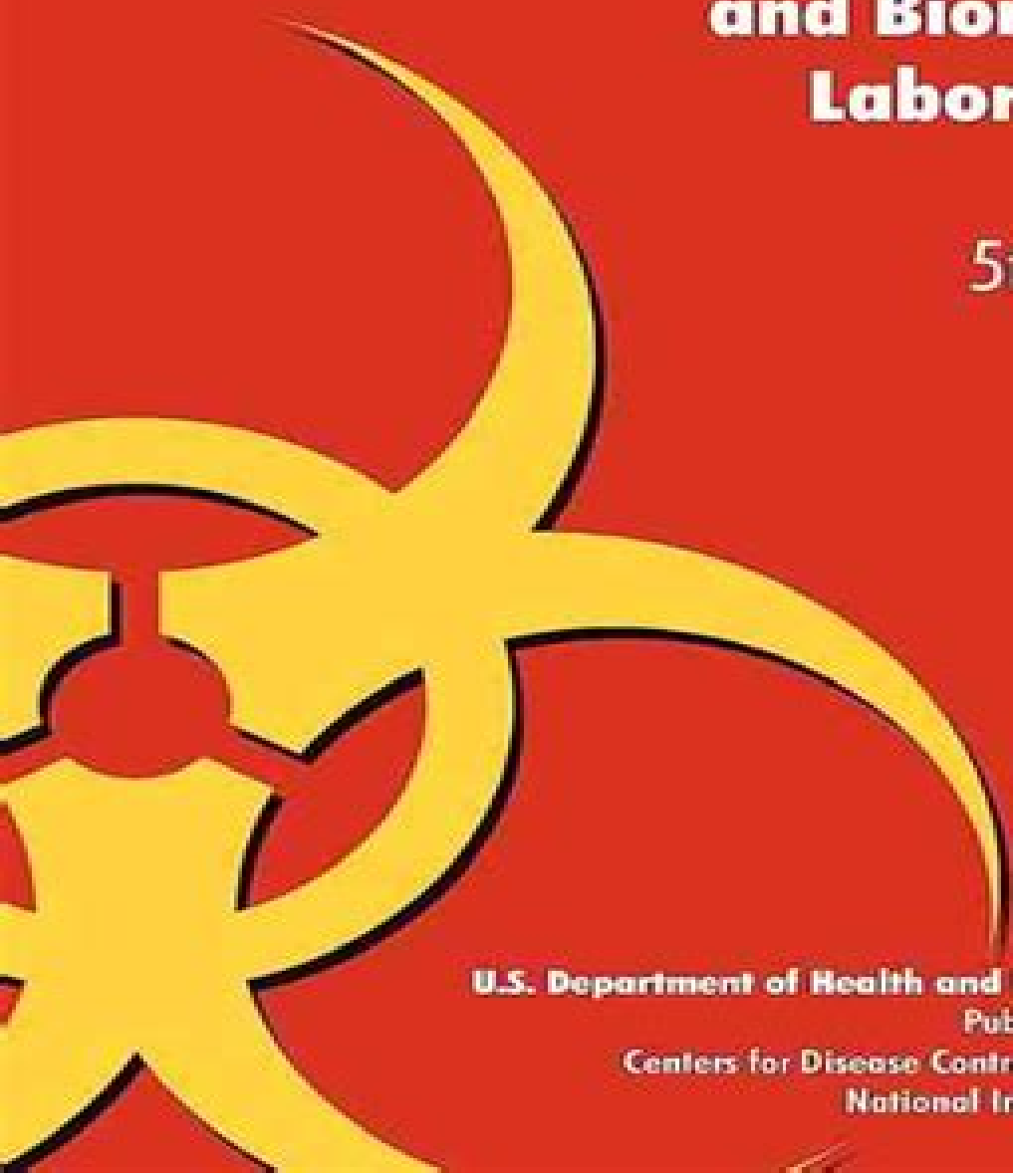


Biosafety in Microbiological and Biomedical Laboratories

5th Edition



U.S. Department of Health and Human Services
Public Health Service
Centers for Disease Control and Prevention
National Institutes of Health

Biosafety In Microbiological And Biomedical Laboratories

Albert A Gayle



Biosafety In Microbiological And Biomedical Laboratories:

Biosafety in Microbiological and Biomedical Laboratories U. S. Department Human Services, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institutes of Health, 2013-10 Over the past two decades Biosafety in Microbiological and Biomedical Laboratories BMBL has become the code of practice for biosafety the discipline addressing the safe handling and containment of infectious microorganisms and hazardous biological materials The principles of biosafety introduced in 1984 in the first edition of BMBL and carried through in this fifth edition remain steadfast These principles are containment and risk assessment The fundamentals of containment include the microbiological practices safety equipment and facility safeguards that protect laboratory workers the environment and the public from exposure to infectious microorganisms that are handled and stored in the laboratory Risk assessment is the process that enables the appropriate selection of microbiological practices safety equipment and facility safeguards that can prevent laboratory associated infections LAI The purpose of periodic updates of BMBL is to refine guidance based on new knowledge and experiences and to address contemporary issues that present new risks that confront laboratory workers and the public health In this way the code of practice will continue to serve the microbiological and biomedical community as a relevant and valuable authoritative reference Historically the information in this publication has been advisory in nature even though legislation and regulation in some circumstances have overtaken it and made compliance with the guidance provided mandatory We wish to emphasize that the 5th edition of the BMBL remains an advisory document recommending best practices for the safe conduct of work in biomedical and clinical laboratories from a biosafety perspective and is not intended as a regulatory document though we recognize that it will be used that way by some This edition of the BMBL includes additional sections expanded sections on the principles and practices of biosafety and risk assessment and revised agent summary statements and appendices We worked to harmonize the recommendations included in this edition with guidance issued and regulations promulgated by other federal agencies Wherever possible we clarified both the language and intent of the information provided The events of September 11 2001 and the anthrax attacks in October of that year re shaped and changed forever the way we manage and conduct work in biological and clinical laboratories and drew into focus the need for inclusion of additional information in the BMBL To better serve the needs of our community in this new era this edition includes information on the following topics Occupational medicine and immunization Decontamination and sterilization Laboratory biosecurity and risk assessment Biosafety level 3 Ag laboratories Agent summary statements for some agricultural pathogens Biological toxins [Biosafety in Microbiological and Biomedical Laboratories](#) ,2009 **Biosafety in Microbiological and Biomedical Laboratories** L. Casey Chosewood, 2007-08 Biosafety in Microbiological Decontam Lab biosecurity Biosafety Level 3 Ag labs Agent summary state for some ag pathogens all agent summary state efforts were made to harmonize recommend with reg s promulgated by other fed agencies **Biosafety in Microbiological and Biomedical**

Laboratories Department of Health and Human Services,2016-04-29 Biosafety in Microbiological and Biomedical Laboratories BMBL quickly became the cornerstone of biosafety practice and policy in the United States upon first publication in 1984 Historically the information in this publication has been advisory in nature even though legislation and regulation in some circumstances have overtaken it and made compliance with the guidance provided mandatory We wish to emphasize that the 5th edition of the BMBL remains an advisory document recommending best practices for the safe conduct of work in biomedical and clinical laboratories from a biosafety perspective and is not intended as a regulatory document though we recognize that it will be used that way by some This edition of the BMBL includes additional sections expanded sections on the principles and practices of biosafety and risk assessment and revised agent summary statements and appendices We worked to harmonize the recommendations included in this edition with guidance issued and regulations

BIOSAFETY IN MICROBIOLOGICAL AND BIOMEDICAL LABORATORIES U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES,1984 Biosafety in Microbiological and Biomedical Laboratories U. S. U. S. Health Dept,2010-03-17

Soliciting Stakeholder Input for a Revision of Biosafety in Microbiological and Biomedical Laboratories (BMBL) National Academies of Sciences, Engineering, and Medicine,Division on Earth and Life Studies,Board on Agriculture and Natural Resources,2016-07-29 Since its publication by the National Institutes of Health NIH and the Centers for Disease Control and Prevention CDC in 1984 Biosafety in Microbiological and Biomedical Laboratories BMBL has become the cornerstone of the practice of biosafety in the United States and in many countries around the world The BMBL has been revised periodically over the past three decades to refine the guidance it provides based on new knowledge and experiences allowing it to remain a relevant valuable and authoritative reference for the microbiological and biomedical community Seven years after the release of the BMBL 5th Edition NIH and CDC are considering a revision based on the comments of a broader set of stakeholders At the request of NIH the National Academies of Sciences Engineering and Medicine conducted a virtual town hall meeting from 4 April to 20 May 2016 to allow BMBL users to share their thoughts on the BMBL in general and its individual sections and appendices Specifically users were asked to indicate what information they think should be added revised or deleted Major themes from the virtual town hall meeting were further discussed in a workshop held on 12 May 2016 in Washington DC This document encapsulates the discussion of the major comments on the BMBL that were posted on the virtual town hall prior to 12 May 2016 and the various BMBL comments and issues related to biosafety that were raised during the workshop by participants who attended the meeting in Washington DC and those who listened to the live webcast

Biosafety in Microbiological and Biomedical Laboratories (5th Edition) U. S. Health Dept,2010-03-17 This edition includes additional sections expanded sections on the principles and practices of biosafety and risk assessment and revised agent summary statements and appendices that are in harmony with guidance issued and regulations promulgated by other federal agencies **Biosafety in Microbiological and Biomedical Laboratories (5th Edition)** U.S. Health

Department,2013-02-04 The 5th edition of the BMBL remains an advisory document recommending best practices for the safe conduct of work in biomedical and clinical laboratories from a biosafety perspective and is not intended as a regulatory document although it is used that way by some This edition of the BMBL includes additional sections expanded sections on the principles and practices of biosafety and risk assessment and revised agent summary statements and appendices We worked to harmonize the recommendations included in this edition with guidance issued and regulations promulgated by other federal agencies Wherever possible we clarified both the language and intent of the information provided The events of September 11 2001 and the anthrax attacks in October of that year re shaped and changed forever the way we manage and conduct work in biological and clinical laboratories and drew into focus the need for inclusion of additional information in the BMBL To better serve the needs of our community in this new era this edition includes information on the following topics Occupational medicine and immunization Decontamination and sterilization Laboratory biosecurity and risk assessment Biosafety level 3 Ag laboratories Agent summary statements for some agricultural pathogens Biological toxins **Biosafety in Microbiological and Biomedical Laboratories** ,1999

The Enigmatic Realm of **Biosafety In Microbiological And Biomedical Laboratories**: Unleashing the Language is Inner Magic

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