CDC ECHO Biosafety Program: August 27, 2024

Topic of Discussion

Operations: Planning and Maintaining

Didactic Speaker and Presenter

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Resources

Background - The WHY

- Addressing the Continuing Threat of Laboratory-Acquired Infections: https://www.cdc.gov/cliac/docs/addenda/cliac0908/Addendum-E.pdf
- ABSA Laboratory-Acquired Infection (LAI) Database: https://my.absa.org/LAI

Have a Process

- Biosafety in Microbiological and Biomedical Laboratories (BMBL), 6th Edition: https://www.cdc.gov/labs/pdf/SF__19_308133-A_BMBL6_00-BOOK-WEB-final-3.pdf
- WHO Laboratory Biosafety Manual, 4th Edition and Associated Monographs: Risk Assessment: https://iris.who.int/bitstream/handle/10665/337966/9789240011458-eng.pdf?sequence=1
- Sandia National Laboratories - Biosafety Risk Assessment Methodology: https://biosecuritycentral.org/static/f25db321edd166d353ac2a770fb45a1a/Sandia_BioRAMs_Biosafety%20Risk%20Assessment%20Methodology..pdf
- ABSA International BioRisk Evaluation Tool Fungi: https://absa.org/wp-content/uploads/2023/05/BioRiskEvaluation-Tool_Fungi.pdf

Background

- CWA 15793: Laboratory biorisk management standard: https://biosecuritycentral.org/static/d440d0bbecfb340fe2b2b5d0b87be97a/CWA15793..pdf
- CWA 16393: Laboratory biorisk management - Guidelines for the implementation of CWA 15793:2008: https://biosecuritycentral.org/static/9f67bf2c781d3f4cde30584a73afab26/CWA%2016393..pdf
- ISO 35001:2019: Biorisk management for laboratories and other related organisations: https://www.iso.org/obp/ui/en/#iso:std:iso:35001:ed-1:v1:en

Be Aware of Conditions

- CDC Outbreaks: https://www.cdc.gov/outbreaks/index.html
- CDC Health Alert Network (HAN): https://emergency.cdc.gov/han/
- World Animal Health Information System (WAHIS): https://wahis.woah.org/#/home
- WHO Disease Outbreak News (DONs): https://www.who.int/emergencies/disease-outbreak-news

Applying ISO 35001

- Considerations for Laboratory Biosafety and Biosecurity During the Coronavirus Disease 2019 Pandemic: Applying the ISO 35001:2019 Standard and High-Reliability Organizations Principles: http://doi.org/10.1089/apb.20.0068

Is the Laboratorian Competent?

- APHL Laboratory Biosafety Competency Assessment Form: https://www.aphl.org/programs/preparedness/Documents/APHL%20Approved%20Conversation-Based%20Biosafety%20Competency%20Assessment%20Form.pdf

- ISO/TS 5441:2024: Competence requirements for biorisk management advisors: https://www.iso.org/obp/ui#iso:std:iso:ts:5441:ed-1:v1:en

- CDC MMWR - Guidelines for Biosafety Laboratory Competency: https://www.cdc.gov/mmwr/pdf/other/su6002.pdf

- OSHA Biological Safety Officer (BSO) Competency: https://absa.org/wp-content/uploads/2018/05/OSHABSOcompetencyFactSheet.pdf

Have Standard Operating Procedures

- CDC MMWR - Guidelines for Safe Work Practices in Human and Animal Medical Diagnostic Laboratories: https://www.cdc.gov/mmwr/pdf/other/su6101.pdf

- Biosafety in Microbiological and Biomedical Laboratories, 6th Edition: https://www.cdc.gov/labs/pdf/SF__19_308133-A_BMBL6_00-BOOK-WEB-final-3.pdf

- Sandia National Laboratories - Core Biorisk Management Document Templates: https://gcbs.sandia.gov/core-documents/

- WHO Laboratory Biosafety Manual, 4th Edition and Associated Monographs: Risk Assessment: https://iris.who.int/bitstream/handle/10665/337966/9789240011458-eng.pdf?sequence=1

- WHO Tuberculosis Laboratory Biosafety Manual: https://iris.who.int/bitstream/handle/10665/77949/9789241504638_eng.pdf?sequence=1

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