Strengthening Laboratory Biosafety Programs (SLBP) Checklist

Thomas L. Stevens

Health Scientist
Centers for Disease Control and Prevention (Atlanta, Georgia)
Center for Global Health
DGHT/ILB/Biosafety Team
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Disclaimer: "The findings and conclusions in this presentation have not been formally disseminated by [The Centers for Disease Control and Prevention/The Agency for Toxic Substances and Disease Registry] and should not be construed to represent any agency determination or policy."

Goals of the Checklist

- Identify safety gaps and evaluate biosafety programs
- Standardize biosafety practices and procedures
- Strengthen biosafety policies, programs, and practices
- Assist laboratories with laboratory accreditation programs

Checklist References

- Biosafety in Microbiological and Biomedical Laboratories (BMBL)
- ISO 15189- Medical Laboratories-Particular Requirements for Quality and Competence
- ISO 15190- Medical Laboratories-Requirements for Safety
- CWA 15793- Laboratory Biorisk Management
- CWA 16393 Laboratory Biorisk Management Guidelines for the Implementation of CWA 15793
- WHO Laboratory Biosafety Manual
- WHO AFRO Stepwise Laboratory (Quality) Improvement Process Towards Accreditation (SLIPTA) Checklist
- Other references and guidance documents

The Checklist Biosafety Program Elements for Low to Middle Income Countries

Biosafety Checklist: Program Elements

- 1. Management's Responsibilities
- Safety Business and Administrative Programs
- 3. Laboratory and Biosafety Programs Review
- 4. Equipment Evaluation
- 5. Building and Facility Safety Review
- 6. Occupational Health Program
- 7. Chemical Management and Industrial Hygiene Programs

Biosafety Checklist: Program Elements

- 8. Waste Management and Environmental Safety Programs
- Emergency Preparedness and Response Programs
- 10. Transport of Biological Agents
- 11. Biosecurity
- 12. Training
- 13. Radiation Safety Program (if applicable)

Checklist Scoring System

- Items marked YES receive 1 point
- Items marked No receive O points
- Items marked Partial receive .5 points
- Items marked N/A subtracted from the total number of questions
- Total questions = 165

Checklist Assessment Stages

Stage 0	Stage 1	Stage 2	Stage 3	Stage 4
<40%	40-59%	60-79%	80-89%	>90%

- * **Stage o** = needs improvement and immediate remediation
- * Stage 1 = needs improvement in specific elements
- * Stage 2 = meets the minimum elements
- * Stage 3 = meets more than the minimum elements
- * Stage 4 = meets most/all of the elements

In Closing

- Develop a stepwise process (i.e., tool) that can evaluate and strengthen biosafety programs and utilized by low to middle income countries
- Create a tool that is based on national and international biosafety standards and guidelines, which will also support laboratory accreditation programs
- Develop a tool that consists of robust biosafety program elements, a scoring system, and stages for improving and sustaining a biosafety program

Thank you

Breakout Sessions: Strengthening Assessment Tools and BSC Certification Programs

Strengthening Assessment Tools and BSC Certification Programs

- Group A Review and Critique of Proposed Assessment
 Tool (Salon I)- Candace Eastman
- Group B Review and Critique of Proposed Assessment
 Tool (Salon II-III)- Peter Minchella
- Group C Utilization of Two Different Laboratory
 Designations (Salon IV)- George Alemnji
- Group D Biosafety Cabinet Certification (Salon V) David Bressler

Strengthening Assessment Tools and BSC Certification Programs

- Each group has specific questions to address during the break out sessions
- Facilitators will provide structure to the discussion, guide the discussion, work with the preassigned reporter to record and summarize the discussion, identify a participant to serve as the rapporteur, and monitor time
- A rapporteur (e.g., presenter) from each group will have <10 minutes to share the group's results from with the larger group

Questions