



BIOSAFETY

MID-ATLANTIC BIOLOGICAL SAFETY ASSOCIATION

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PHEL Biosafety Officer

**NEW JERSEY DEPARTMENT OF HEALTH
PUBLIC HEALTH AND ENVIRONMENTAL LABORATORIES
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Date of Hire: March 21, 2016

- a) Internal safety in-service and training – Safety officer
- b) Monthly laboratory safety audits
- c) Bio-threat in-service and audits
- d) Reviewed and summarized CAP LPX data to assess performance in clinical labs
- e) Risk assessment for Zika ELISA and PCR testing
- f) Risk Mitigation – taking steps to reduce adverse effects

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Prepared work plan for ELC supplemental grant – Project B- Biosafety

Training

- ABSA online training
- Attend Regional ABSA conference, – Sept 30 to October 5, 2016
- Attend ABSA Training on Principles of Biosafety
- Attend Quarterly New Jersey Health Inspection Control Assessment and response HICAR meetings

Internal PHEL

- Perform Risk Assessment of NJDOH Bio-threat Laboratory

External Outreach

- Laboratory Biosafety Advisory Committee (LBAC) meeting
- Create a standardized Risk Assessment template and SOP
- Facilitate workshop with LBAC on Risk Assessment and Mitigation – LBAC committee can help train sentinel laboratories on Risk Assessments

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Northeast Environmental and Public Health Laboratory Directors (NEEPHLD)

New Hampshire – June 1, 2016

North East Region Biosafety Officers - breakout session discussed the following:

1. APHL Risk Assessment Templates/Website
2. External workshops and outreach training for Sentinel labs -
3. Required components of Biosafety Plan
 - a) Hazard information on agent or procedure –
 - b) Engineering Controls
 - c) Personal Protective Equipment
 - d) BSL requirements – BMBL
 - e) Risk Mitigation – commitment to change the culture begins with management level involvement from start to finish

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1. Shipping and Packaging

- Certification: Packaging and Shipping Division 6.2
Materials – online
- Didactic session – sentinel laboratories
Provide laboratorians with practical learning tools
NJDOH can provide Packaging and Shipping Scenarios to
sentinel labs for self evaluation. Labs can use this to
reinforce CDC Train online tutorial
- Risk assessment should included in Packaging and
Shipping scenarios

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EXAMPLE OF RISK ASSESSMENT**

Make it applicable to task or agent

Working with an unknown - patient history suggests *Brucella* spp.

Procedure/task	Hazards	Work practice control	PPE
Transport of package or specimen between lab areas	Leaking package /breakage of specimen	Immediately place inside BSC . Transport inside closed, leak-proof, bleachable container. Decontaminate container and area before transport	Lab coat/ gloves
Processing of unknown specimen	Splash/splatter/aerosol	Work in BSC	Disposable solid front gown, double gloves
		Dedicated Waste inside BSC	
		Equipment used discarded inside BSC	
		Sealed plates before removing from BSC	
		Clean and disinfect all surfaces and equipment	
Examination of culture plates- suspicious <i>Brucella</i> organism	Splash/splatter/aerosol/ sharps	same as above	Same as above

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Biosafety Plan for the Agent Brucella must include:

- Biosafety level required – BSL 3 recommended
- Laboratory disinfectant: contact time
- Training/competency requirements:
- Donning/doffing of PPE.

Personnel must have documented proficiency in performing *Isolation of Brucella spp.*

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References:

- APHL website: www.aphl.org
- CDC website: www.cdc.gov
- BMBL 5th edition
- Antiseptic, Disinfection, and Sterilization – Gerald E. McDonnell