



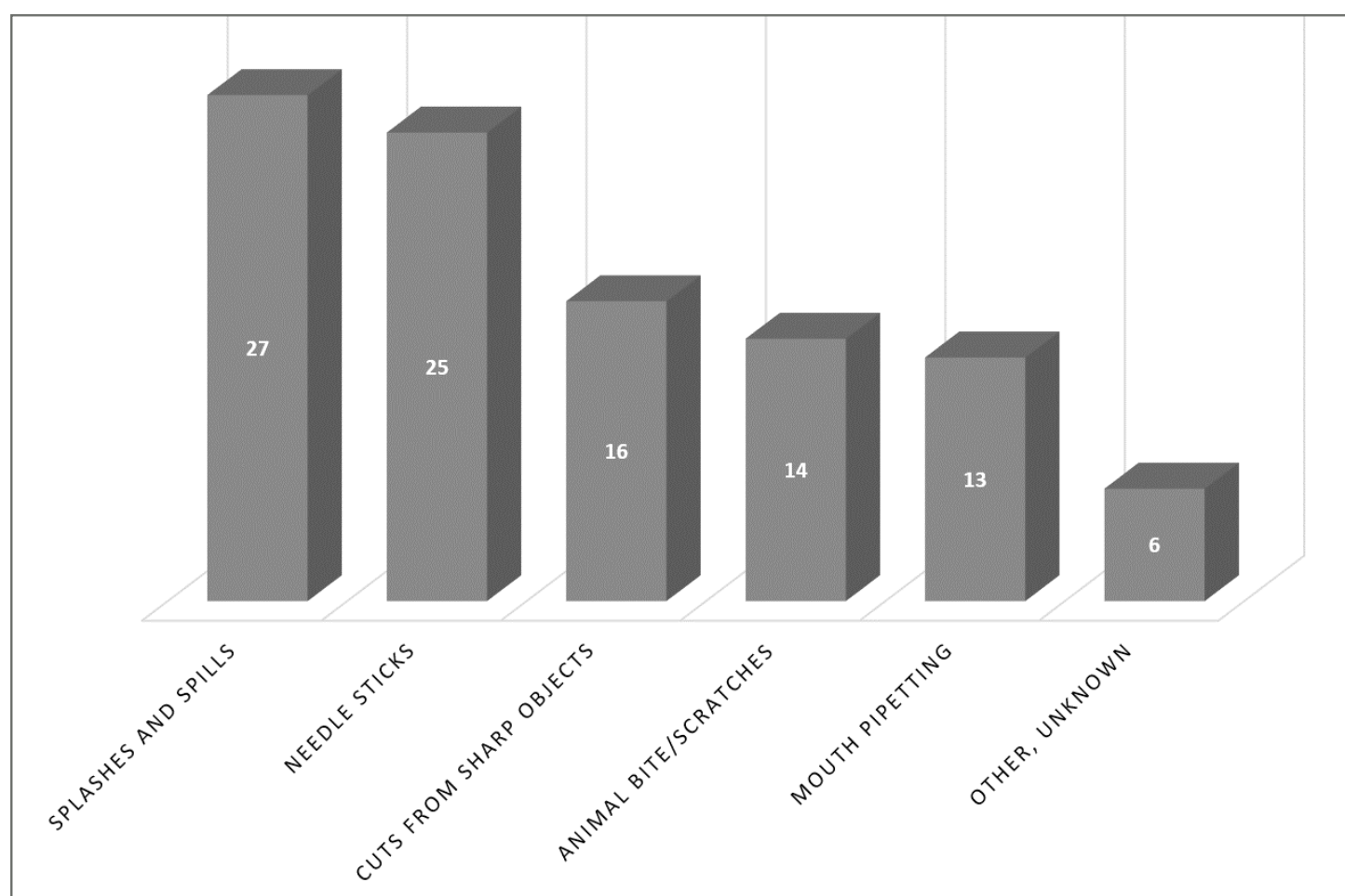
Using a Mobile Training Kit to Promote Biosafety, Biosecurity



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Rationale

- We are interested in providing training materials that will allow biosafety professionals to train researchers and participants at different laboratory institutes.
- As of today, biosafety professionals and biological sciences laboratory workers do not have forum to discuss and exchange ideas to improve teaching, research, and service activities that promote biorisk management.
- Due to lack of training, over 27% of LAIs have been attributed to incorrect spill clean up and handwashing techniques.



Over 27% of LAIs in Egypt occur due to incorrect cleaning of spill.

Benefits to Audience

- Provide training materials and resources to other biosafety association.
- Prepared curriculum materials including practices ; hand on training hand out and videos.

Topics Covered Included

- Definition and terminology
- Pillars of biosafety and biosecurity
- Development of standard operating procedures
- Disinfection and waste disposal
- Working safely in biosafety cabinets
- Lab practices (hand wash – spills in environment)

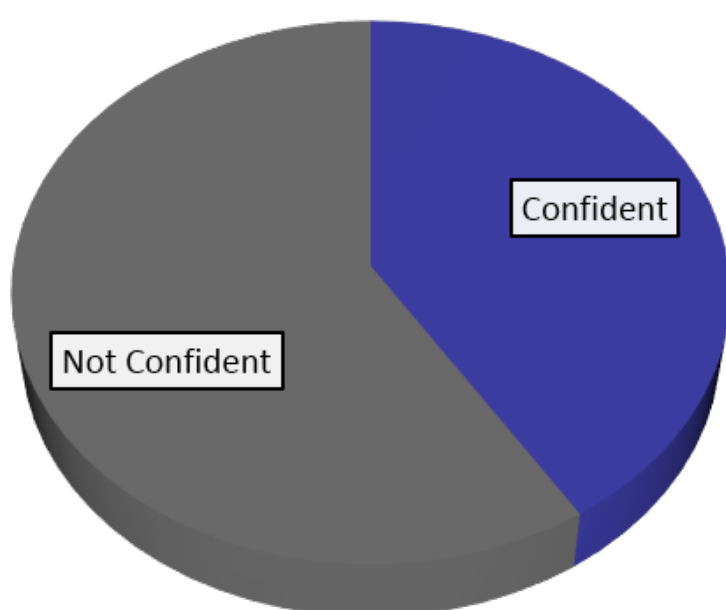
Communication Media

1. Presenting at three locations (4 presentations)
 - Animal Research Institute (2 presentations)
 - Benha Laboratory Institute
 - Alexandria Laboratory Institute
- These materials were used to train 162 researchers

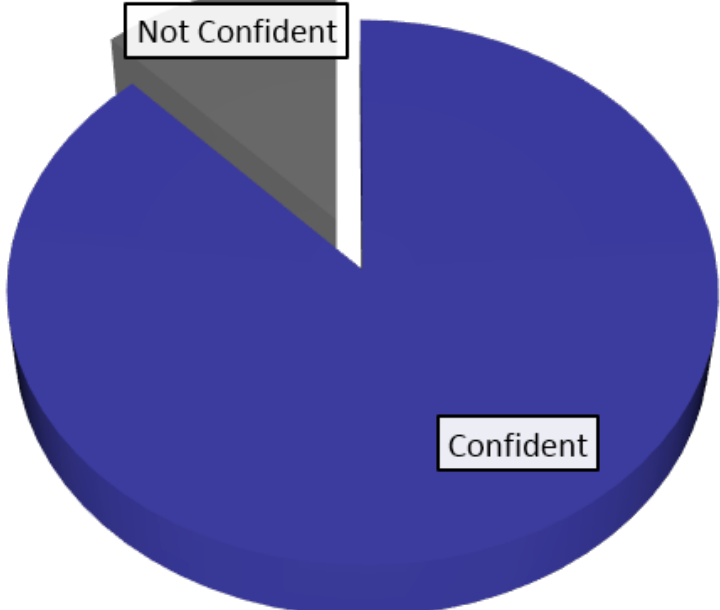


New Knowledge

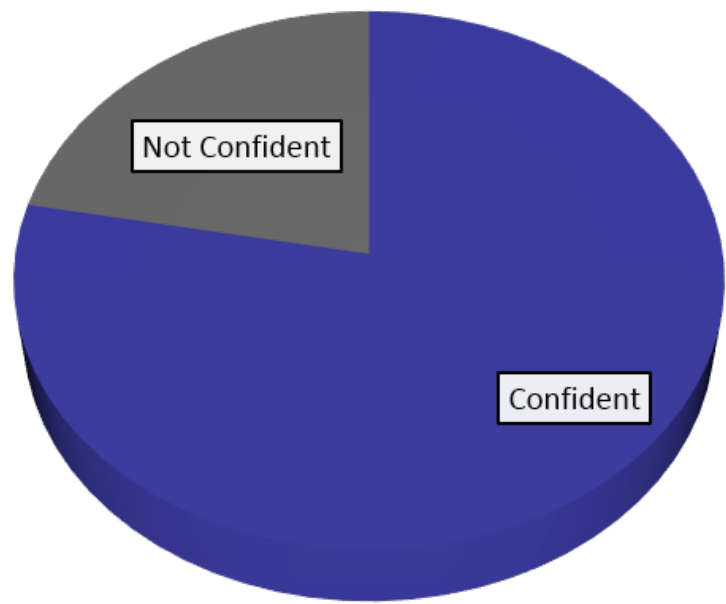
Biosafety and Biosecurity Knowledge **(Before)** Presentation)



Biosafety and Biosecurity Knowledge **(After)** Presentation)



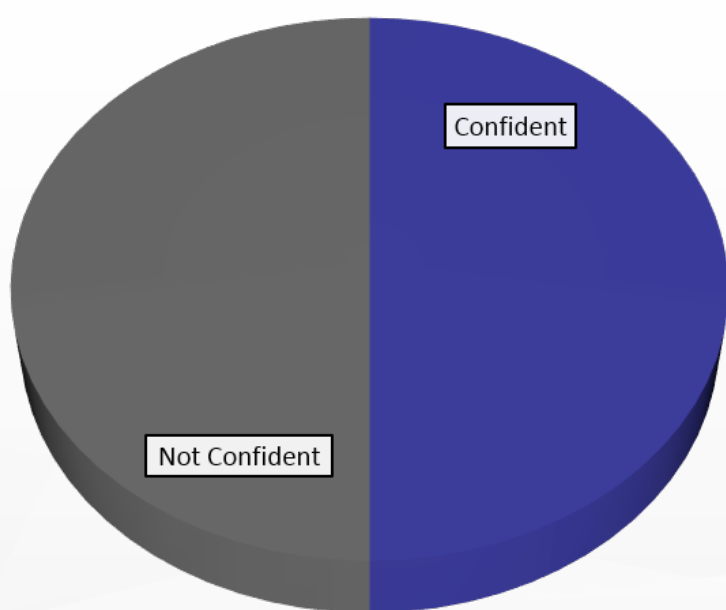
Handwashing Technique **(Before)** Presentation)



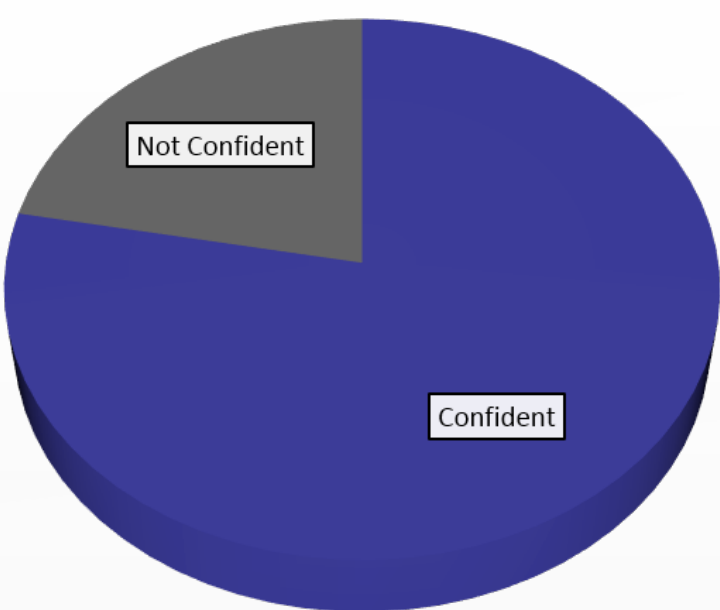
Handwashing Technique **(After)** Presentation)



Spill Clean Up Technique **(Before)** Presentation)



Spill Clean Up Technique **(After)** Presentation)

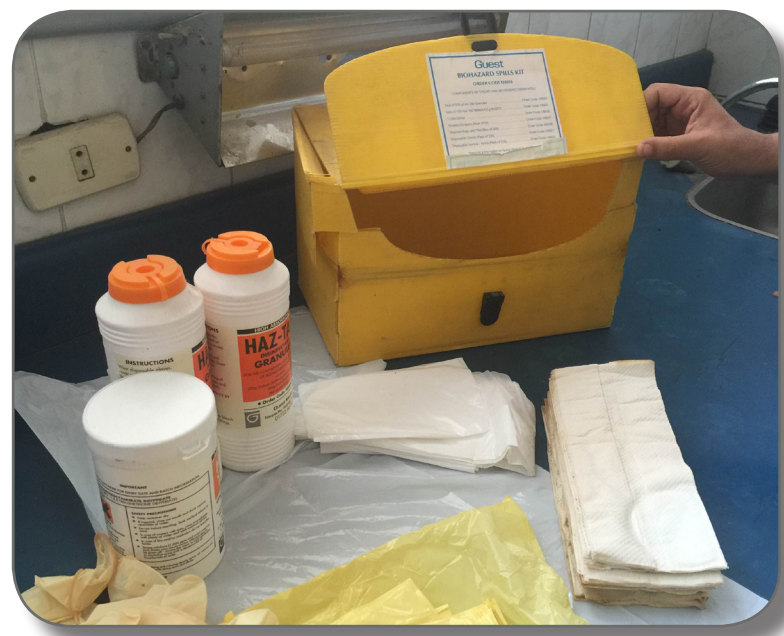


Summary Statement

- Proper training in hand wash and spill decrease the probability of laboratory acquired infection.
- After hands-on and didactic lecturing , participants increase the confident in hand wash.

Results

- Pre and Post questionnaire showed the participants learned about biosafety, biosecurity, and the role of EGBSA.
- Handwashing and spill kit use was effective increasing confidence in biosafety practices.
- Practical examples in how to achieve biosecurity increased confidence in participants.
- The four presentations contributed in gaining new EGBSA members.



Conclusions

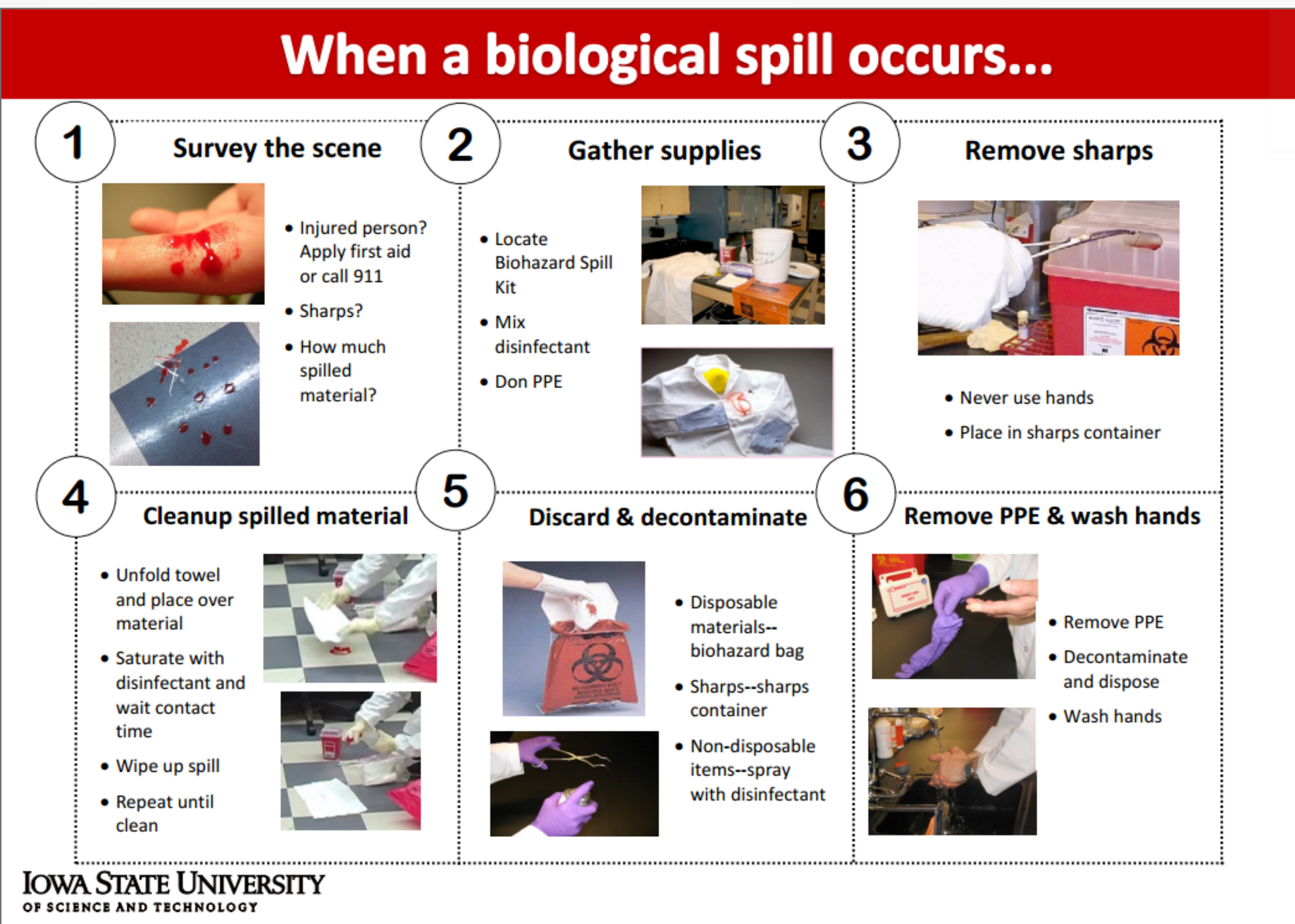
- EGBSA has created a template with biosafety training materials and biosecurity practical examples for you and professional organizations.
- Learn from peers and other scientists instead of management about biosafety and biosecurity practices
- Non- governmental association can play an effective and proactive role concerning safety and security issues

Future Plans

- Create more training material
- Monthly newsletter with tips to participants
- Translate materials from English to Arabic
- Share materials with other organization

Thank You

- Sandia National Laboratories
- U.S. Department of State - BEP
- Dr. Momtaz Shain (AHRI Manager)
- Dr. Mona Mehrez (EGBSA President)



Source: Iowa State University of Science and Technology