

FACILITATOR GUIDE

LJ CULTURE TECHNIQUE

BIOSAFTEY IN LJ CULTURE LAB

MODULE: 3

Acknowledgements

This Module was prepared by Kabugo Joel.

Part 1.0: Concepts of Biosafety in LJ culture Laboratory



OBJECTIVE: To acquaint participants with Knowledge of Biosafety in TB LJ culture Laboratory

MATERIALS:

1. Handouts,
2. Slides
3. PPE: gloves, lab coats/gowns, lab shoes/shoe covers and N95 respirators

TIMELINE: 45 Minutes

METHODOLOGY:

1. Lecture
2. Discussion
3. Demonstration
4. Video

ADVANCE PREPARATION:

1. Printing notes,
2. Reading Biosafety materials and slides
3. Preparing the PPE demonstration materials: gloves, lab coats/gowns, N95 respirators and lab shoes/shoe covers.

FACILITATORS STEP-BY STEP INSTRUCTIONS:

1. Welcome and Introduction
2. Present module overview
3. Ask question about module expectations
4. Distribute handouts
5. Start the presentation
6. Recap presentation using discussion questions
7. Personal Protective Equipment demonstration
8. Ask if there is any question.

FACILITATORS NOTES

1. Notes on Personal Protective Equipment
2. Discussion questions; how do you manage spillage in LJ culture lab, what safety measure are required in LJ culture lab.
3. Instructions on demonstration

SLIDE OF POWERPOINT PRESENTATION



SITUATION ANALYSIS/ EXERCISES

Ask for a volunteer (s) to practice donning and doffing of PPE

Gloves

Assess how well the gloves are put on/don

Ensure that double gloving is maintained

Observe the removal/doff of the gloves: ensure that contamination of the dirty/ contaminated gloves does not touch the skin

N95 respirator

Observe procedure of putting on the respirator.

Straps should be hanging freely under the palm.

Respirator should be placed on the face without touching the inside.

Metal clip of the respirator should sit on the nose and should be carefully molded to conform to the nose of the user.

Comment about the labeling and storage of the respirators

Laboratory gown

Observe if the person correctly ties the four straps of the gown.

Observe whether the gown is correctly removed taking care not to contaminate the inside part.

Respirator fit testing

Play the 8 minute video that demonstrates the fit testing procedure

After the video explain the various components of the fit testing kit

Get a volunteer and demonstrate to the class how to conduct the fit testing.

Allow at least 2 or 4 persons to come be fit tested by the fellow participants.

Observe and guide the class through the various activities of the fit testing session.

ASSESSMENT REVIEW

1. What is the required concentration of lysol and ethanol in a LJ culture laboratory.
2. What biosafety level is ideal for a LJ culture lab?
3. Describe the flow arrangement when working inside a biosafety cabinet.

REFERENCES

- GLI TB training package <http://www.stoptb.org/wg/gli/trainingpackages.asp>