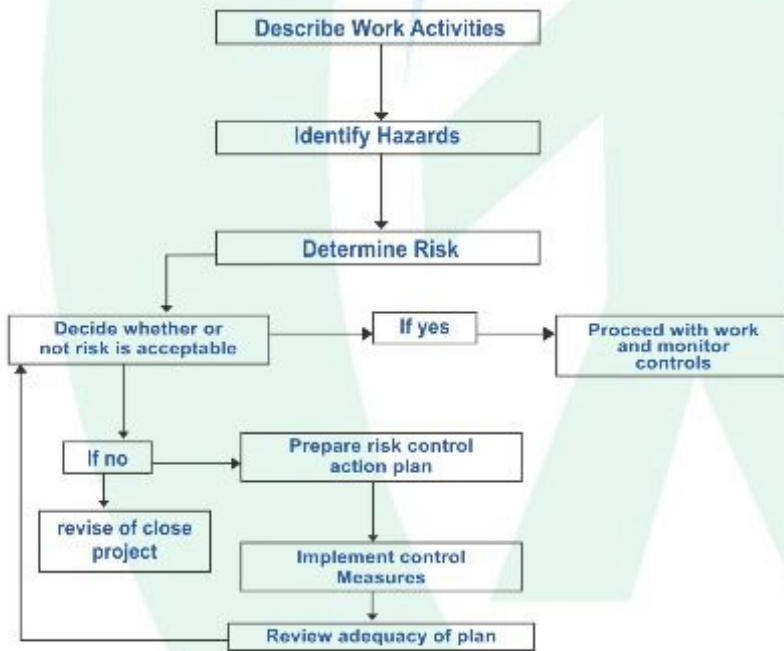


## Way Forward; Bio Risk Management Capacity Building Program in 2017

Similar to the one for Lahore city, Pak One Health alliance is aims to organize similar Biorisk Management Capacity Building and Assessment Workshops in additional major cities of Pakistan (i.e. Karachi, Faisalabad Multan and Peshawar) during 2017-18.

### Risk Assessment Strategy



Unite For Cause



Unite For Cause

## Biorisk Management & Safety Program

# Pak One Health Alliance

#### Partners:

- University of Health Sciences, Lahore.
- Department of Health punjab, Lahore.
- skoll global threats fund (SGTF), USA.

#### Official Address:

#### Pak OneHealth Alliance

Office # 401, 408, 4th Floor, Cubator One, CIIT Premises Park Link Road, P.O.Box # 3308 Islamabad, Pakistan.

☎ +92 51 8447600

🌐 www.pakonehealth.org

✉ info@pakonehealt.org

📘 pakonehealth



## Biorisk Management Safety Program ( BRM )

### What is Biorisk?

- The risk associated with biological materials in the laboratory has a safety and a security component.

### What is Biorisk Management and Safety?

Biorisk management ranges from development and application standard operating procedures (SOPs) and protocols to functional specimen transport system, combined with strong laboratory biorisk curtailment and quality systems. All this aims to ensure that laboratories document results in a safe, secure, timely and reliable manner.



### POHA's Biorisk Management Program:

Keeping in view the linkages of biorisk management & safety with the approach of 'One Health', Pak One Health Alliance (POHA) has developed a short term on job training program for health on laboratory Managers of secondary and tertiary case hospitals.

#### Objective:

The prime objective of the program is to promote the cause and make participants fully conversant with the concepts of bio risk management, biosafety and bio security. This includes; risk assessment, risk mitigation and performance management by adopting key principles, standard procedures and best practices.

## BRM – Rapid Assessment Workshop Venue: University of Health Sciences - Lahore

More than 50 professionals from following leading institutes participated.

- Ministry of National Health Services, Regulations & Coordination / IHR Section.
- National Institute of Health - Islamabad.
- Relevant officials from strategic level (Provincial Govt. Secretariat & DGHS office).
- Staff of University of Health Science Lahore.
- Representatives from Tertiary care hospitals'/ laboratories of Lahore.
- Representatives from District Health
- Private Laboratories of Lahore.
- USAID Punjab Office.
- World Health Organization – Pakistan.

### Sessions:

- Following four scientific sessions are organized:
  - Biosafety / Biosecurity in Laboratories
  - BRM Best Practices
  - BRM SOP, Desired Capacities
  - Safe Use & maintenance of Biosafety Cabinets
- Three plenary sessions are also held:

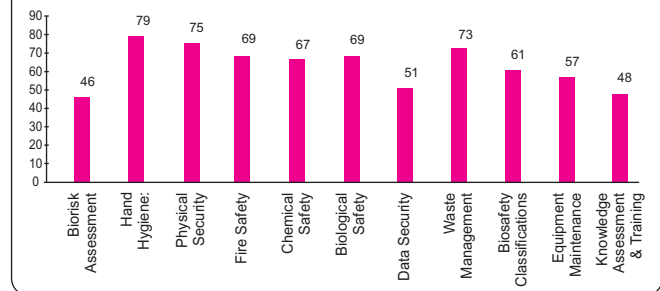
### Outcomes:

Relationship of Risk Groups to Biosafety Levels, Practices and Equipment

Risk Group	Biosafety Level	Laboratory Type	Laboratory Practices	Safety Equipment
1	Basic-Biosafety Level 1	Basic teaching, research	GMT	None; open bench work
2	Basic-Biosafety Level 2	Primary health services; diagn. research	GMT plus protective clothing, biohazard sign	Open bench plus BSC for potential aerosols
3	Containment-Biosafety Level 3	Special diagnostic, research	As Level 2 plus special clothing, controlled access, directional air flow	BSC and/or other primary devices for all activities
4	Maximum-Biosafety Level 4	Dangerous pathogens unit	As Level 3 plus airlock entry, shower exit, special waste disposal	Class III BSC Positive Pressure + BSC II Double door Autoclave filtered air

## Bio Risk Management Assessment (Lahore Hospital)

### Bio Risk Assessment - Overall View ( % Achievement )



### Finding Recommendations/ Way Forward:

- Creating a road map to institutionalize Bio-Risk management and safety while using one health approach
- Developing National Standard SoPs/ Guidelines for Biosafety and Biosecurity through a technical consultative process.
- Developing short term training programs for one health professionals in BRM in local contexts.
- Standardizing IT systems for data collection, storage, processing and analysis. Information gathered is to be compatible with other such data systems.
- Regulating and keeping a strong check on the private Laboratories working in the country.
- To ensure sustain ability and culture of Bio-Risk management system, its fundamentals be incorporated in the curriculum of undergraduate medical studies.
- Awareness among laboratory staff be raised for preservation of infected specimens separate from the rest/routine samples.