## Laboratory Management (Laboratory Safety; Biosafety etc.) 27 Jan (Fri.). 2017 14:00 $\sim$

## Cases with laboratory accident, near miss, and incident in your (or other) lab

Non- disclosures	Name	Case	Background/factors	Action taken and the outcome	Potential hazards	Comments
Afghanista	1: VDPV2	2 vials of VDPV2	Virology II - NIID of Japan.	Inventory repeated.	Sometimes such mismanagements can	It indicates
n (1)	isolates	isolate lost when		Case Reported to the NIID BS & BS officer and	make numerous problems especially for	administrative
	lost.	inventory has		NIID director	intentional release of infections.	problem because
		done for 2017 it		Director said appropriate action must be taken.	As everyone knows better such pathogens	there was improper
		revealed, that two		Cameras also reviewed.	can spread to many people easily.	documentation.
		vials of VDPV2		No one stolen or discarded the isolates vials		For each action or
		isolates are not		recently.		activity all the steps
		available.		Finally one of the scientists remembered that, He		must be recorded.
				discarded the isolates before inventory.		Proper inventory
				Appropriate inventory system must be applied.		and existence of
						accountability can
						easily solve these
						issues and can
						prevent facility from
						its occurring.
	2: Anthrax	In one of vaccine	Vaccine preparation	When he came to the clinic for his hand wound,	Infected of a scientist.	Unauthorized
	detected in	production	department of CVDRL – Kabul,	the doctor advised him wound C/S, after few	Chance of transmission to the other people.	access.
	one of Lab	laboratories one of	AFG.	days it diagnosed, that his hand wound caused		Lack of awareness
	scientists.	the scientists		by bacillus Anthraces.		of lab scientist from
		diagnosed with		When doctor investigated he found, that the		characteristics of

						,
		Anthrax in his		patient works in a BSL II facility on vaccine strain		pathogen that he
		hand.		of Bacillus Anthraces.		works on.
				Investigations found, that he went to a BSL III lab		No gloves it means
				of Pathogenic Anthrax diagnosis to meet his		he does not know
				friend.		GLWP.
				There he has just helped him, in labeling of		Training on GLWP,
				samples.		BS & BS must be
				He first wiped the samples well with 70%		conducted.
				ethanol, but he has not donned gloves.		SOP must be
						revised.
Afghanista	Diphteria	inficuse diphteria	NPHL Microbiolgy Deparment	Room closed	case reported to biosafty and biosecurty	Selected PEP and
n (2)		culture plates		Door closed sign attach to the bacteriology Lab	officer	SOP used
		broken in the room		main door	Cleaning proceduer done successfuly	
		surface				
	fire	autocluve	NPHL	Alarm activeted	Spreading to other sections	SOP used
	accident	electericty cable	Virolgy deportment	Case reported to the biosafty and biosecurty		
		fire		afficer by telephone		
				Fire Extenguisher used		
				Fire coverd		
Indonesia	Lights off	Freezer thaw	Environment and public health	SOP of the electric function established	Specimen thawing	
			laboratory			
	Container Burst Accident	Dry ice in the container	Virology laboratory, NIHRD	Guideline established SOP arranged	Injury staff, destroyed equipment, leakage of the specimen	

Kenya (1)	Loose	Lab staff carrying	TB Central reference lab.	SOP established for specimen handling.	leakage of infectious material.	
rtonya (1)	electrical	specimens on a	TE Contrai Toronomos las.	CME conducted on safe spill management.	iodiage of imodicae material.	
				·		
	extension	tray from reception		Introduced break proof (plastic) containers.		
	cable	to lab for		All electrical cables fitted on wall.		
	accident.	processing.				
Kenya (2)	Blood	Blood sample of	Suspected cases of measles in	Local disease surveillance officer and hospital	•Blood specimen transported in syringe has	Blood samples
	sample fell	suspected	Kenya are mostly shipped from	personnel were contacted and informed of the	a potential hazard of the cool box falling on	should be
	on	measles case was	the health facilities to national	incident. They were asked to ensure proper	the way and the syringe may then fall and	transported in
	laboratory	received in the lab	measles lab at KEMRI, Kenya	packaging and transportation of blood samples	injure handler.	proper tubes and
	floor.	packaged in a	through courier service.	and other clinical samples to the lab.	Again, on arrival to the laboratory the	the transportation
		syringe inside a		The disease surveillance officer was asked to	blood sample in a syringe poses a great	box properly sealed
		cool box carrier.		guide the health workers within his locality on the	risk of injury to the laboratory personnel	in order to prevent
				proper way of packaging and shipment of blood	while handling it.	potential risk of the
				specimen.		syringe injury to
				Emphasis on proper sample packaging and		people handling the
				shipment during disease surveillance review		sample during
				meeting at national level.		transportation or to
				Continued onsite trainings on sample collection		the laboratory
				packaging and transportation at local levels .		personnel.
Pakistan	Fire	Spirit lamp fell	Microbiology Research	Urgently fire extinguisher was used to fight fire,	Injury of students working in lab, lab wares	Preventory
(1)		down on working	laboratory QAU, Islamabad	SOPS were applied and arrangements were	were damaged and samples were burnt	measures should
		bench		made to prevent any such mishap in future		always be strictly
						observed to avoid
						any accidents in

						labs
Pakistan	Hot water	Autoclave cage	At the autoclave room of	SOP established to handle the autoclave	First aid was given to the minor injured	Told about safety
(2)		was drooped	virology department,		person, work time line delayed	measures at early
						stages
Philippines				Incident report submitted		
	Cryobox Burst	Dry ice inside the cryobox	Annex I - Virology Department, RITM	SOP on proper handling of Liquid Nitrogen tank	Injury of staffs, leakage of biological material	Accomplished
	Accident			Re-orientation of proper revival, utilizing and		
				handling of Liquid Nitrogen Tank		
				Incident report submitted		
		Opening the -80		Dedicated cryogloves in placed		
	Slight Burnt	freezer using latex	Biobank facility - RITM	, ,	Major injury of staffs	Accomplished
	Accident	gloves rather than cryogloves	BIODAIIK IACIIITY - INTTIVI	Availability of the first-aid kit		Accomplished
		ci yogioves		SOP on Proper handling of equipments like		
				freezer		
Vietnam	Breakage	Glass bottle in	Rabies virus lab	Chloramine disinfection	Leakage of infectious rabies vaccine	It's lucky that all lab
(1)	of glass	minus freezer			strains, Possible Injury to staff upon	staff were
	bottle				clean-up	vaccinated with
						Rabies vaccine
	Miss the	Rotavirus primer	Enterovirus Lab	Inventory check up	Loss of important reagents for molecular	Will be further
	biologicals	sent by WHO			testing; quarrels among staff	discussed as it's
		missing in freezer				complicated!
Vietnam	Staff	Cell container	Respiratory lab	SOP available	Infection	Following the SOP
(2)		explosion		Training	Injured from the debris	
					Chemical stick the skin	