

## **Improper cleaning up of a spill**

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### **Objectives:**

Investigation of a case of cross contamination took place at RLQP and Proper application of the lab biosecurity and biosafety procedures.

### **Abstract:**

In the sample reception unit of (RLQP), while preparing a sample which was suspected to contain avian influenza virus inside the biosafety cabinet, there was an accidental spill took place. Although, the biosafety cabinet was disinfected according to WHO manual biosafety procedures, all prepared samples at same time were tested positive for avian influenza. A following root cause analysis was performed and the cause was found to be the improper application of the disinfectant for the required time. The corrective action in this case was decontamination by fumigation using para-formaldehyde and testing a negative control sample afterwards.

**Material:** 70% ethanol, paper towel, sterilized water, biohazard bags, gloves, protective clothing, including face and eye protection, Paraformaldehyde, Ammonium bicarbonate, hot plates and negative control sample.

**Methods:** **1-Disinfection** according to laboratory biosafety manual WHO spill clean-up procedures using absolute ethanol 70 %, **2-Fumigation** according to laboratory biosafety manual (WHO using paraformaldehyde)

**3-** A negative control sample was prepared and tested inside the contaminated cabinet tested for avian influenza analysis

**Result:** The control tested sample was negative for avian influenza

**Conclusion:** Biosecurity measures play the most important role to avoid cross contamination and every laboratory should give it the required attention by continuous effective training and ensuring the application of proper biosecurity practices.