

## **Safety Overcome and Responses to the laboratory incident**

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**Objectives:-** Evaluation of the laboratory workers interactions to the suspected laboratory incident and their adherence to Standard Operating Procedures(SOPs), Following the proper PPE with complete description of the incident case(spills, leaks, cuts) .

**Methods:** - Expect incident that resulting from washing some flasks in our lab. When preparing a mixture of acids to the flask, a procedure typical in our lab, analyst was holding the flask and swirling the acid along the inner walls. A reaction occurred inside the flask .the analyst capped it to prevent spillage. A pressure build-up blew the cap off the flask and sprayed acid on face. In shock, the analyst dropped the flask on the bench and it shattered, spilling acid on the surface. Poor interaction between laboratory workers and their failure to follow Personal Protective Equipments advised for protection from the planned work and incorrect application of (SOPs) and responsibilities of each one on the lab including Biosafety officer and the lab director.

**Results:** - The analyst ran to the eyewash at the sink and rinsed his face for approx. 15 minutes, holding his eyes open with his hands. The early detection and notification of the incident depend on various levels of experience of the lab workers and their presence or absence of corrective actions beside realizations of the safe acts to overcome the incident. Evaluation was conducted to determine what went right and what went wrong .Proper detection of the follow up SOPs and PPE and responses to the Lab incident details, Training was documented with identifications of the laboratory workers were not taken training seriously as those were the real cause of the incident to plan for the future response.

**Conclusion:** - Training on Basic required PPE and risk assessment was enhanced. Low level experience workers who did not comply with incident were retrained and evaluated. A major factor that played critical rule in the incident related to biohazardous was recorded.

**Outcome:** - Workers and participants must be able to establish an emergency response fit expected incident, Be aware of the necessity to regular train training is critical component of the successful program. Analyst must work with high containment and correctly apply SOPs.