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**RRT Advanced Training Package**

**A5.1b Occupational safety and health: Scenario-based exercises**

**Participant guide**

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**Learning objectives:**

* Identify key health and safety hazards associated with the activity concerned.
* Identify key manners in which exposure to human beings can occur in the concerned situation.
* Identify key health and safety impacts due to exposure to the hazard
* Correctly enumerate key actions / controls required to prevent or manage the hazards and risks.

**Instructions:**

* Participants will work in groups.
* Each group will discuss and address 1 scenario (15’).
* Each group will present answers in the appropriate format depending on the questions asked (5’/group).
* Facilitator will wrap up (5’).

**Scenario 1: Case investigations among community in the field**

An outbreak of vomiting, loose motions and dehydration among children has occurred in a village 25 km from the district hospital. An epidemiologist and a social scientist are ordered to carry out case investigations among the community in the village.

**Scenario 1 questions:**

1. What are the probable diseases from which the children in the village could be suffering from?
2. What is / are the key hazard(s) associated with such cases?
3. List the possible ways in which the disease agent can pass from the affected children to the personnel who are carrying out investigations and who all could be affected in the community?
4. What measures in the environment i.e. homes, surroundings etc. can be taken to prevent such spread from person to persons?
5. What precautions the investigating personnel should take while carrying out investigations in the village to protect themselves?

**Scenario 2: Handling and managing suspect case of communicable disease at the airport**

A 24 years old man has arrived by a flight from country X with fever, coughing, body ache etc. The case is suspected to be suffering from some acute disease. There is an outbreak of Influenza currently occurring in the country X.

**Scenario 2 questions:**

1. What are the probable diseases from which this person could be suffering?
2. What is / are the key hazard(s) associated with this person?
3. List the possible ways in which the disease agent can pass from the person to the personnel at the airport and who can be affected?
4. What measures in the environment i.e. reception area, care center etc. can be taken to prevent such spread from person to the airport personnel?
5. What precautions the airport personnel should take while handling this person at the airport to protect themselves?

**Scenario 3: Handling and transportation of suspected case of communicable disease**

A 12 years old boy has arrived in city A by a bus from another city B, 250 km away where there are news of a disease outbreak ongoing in that city. The boy appears sick with high fever, redness in eyes, body ache etc. The boy needs to be transferred from bus stand to the local municipal hospital by local transport. Mr X and Mr Y, two health workers from the hospital are ordered to bring the boy to the hospital in the ambulance.

**Scenario 3 questions:**

1. What are the probable diseases from which this boy could be suffering?
2. What is / are the key hazard(s) associated?
3. List the possible ways in which the disease agent can pass from the boy to the health personnel attending to him at the bus terminal, transporting to the hospital and who else can be affected?
4. What measures in the transport environment i.e. ambulance as well as at emergency center in the hospital can be taken to prevent such spread from this boy to other personnel?
5. What personal precautions the health personnel should take while handling this boy at the bus terminal and at hospital emergency to protect themselves?

**Scenario 4: Sample collection, transportation and testing of laboratory samples of blood, body fluids, etc. from suspected cases**

The laboratory technician in the hospital is instructed to collect blood samples from cases of a suspected infectious disease outbreak in a village.

**Scenario 4 questions:**

1. What is / are the key hazard(s) associated with the process of sample collections?
2. List the possible ways in which the disease agent can pass from the person to the laboratory personnel collecting the sample and transportation to the laboratory and who all can be affected?
3. What measures in the environment i.e. village home of the person, in ambulance during transportation etc. can be taken to prevent such spread from person to the other personnel?
4. What precautions the laboratory personnel should take while handling this sample at the patient home, in ambulance and dispatching to the laboratory to protect themselves?

**Scenario 5: Accidental exposure to blood or body fluids in healthcare facilities**

The laboratory technician collecting the blood sample from a suspected case of viral haemorrhagic fever in the isolation ward accidently slipped while transferring the sample from the syringe to the collection test-tube in the laboratory and received splash of blood from the sample on his face.

**Scenario 5 questions:**

1. What is / are the key hazard(s) associated with such an accidental exposure? List the possible ways in which the disease agent can pass from the sample to the laboratory personnel.
2. What measures in the laboratory environment can be taken to prevent such spread from person to the other personnel working in the laboratory?
3. What actions need to be taken now to prevent infection in the exposed personnel in future?

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