

# human blood samples from suspected Viral Haemorrhagic Fever cases within a country by road, rail and sea

2018

#### Step 1: Before handling the sample, prepare all shipping equipment

#### Step 1a: Manage logistics

□Identify the name and telephone number and/or e-mail of 1) responsible person /emergency contact at the National Reference Laboratory (this person should be available 24 hours a day until shipment arrives), and 2) lead epidemiologist /medical officer at the Ministry of Health □Notify National Reference Laboratory and the lead epidemiologist / medical officer that the sample shipment will be coming

☐ Verify schedule / timetable for the company transporting the sample

#### Step 1b: Assemble equipment for packing samples

#### **Packing**

□ Absorbent material in sufficient quantity to absorb the entire liquid content, should the primary container(s) leak



□Inner lining



□Cushioning material, e.g. bubble wrap

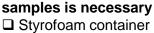
☐Tape to seal the outer

package (if required)

☐Rigid shipping box



If refrigeration of the



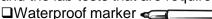
☐ Frozen ice pads



☐Receiver's name, address and telephone number

□ Epidemiological questionnaire or line-list which includes patient name, sex, age (birthdate), clinical information, symptoms, date of onset, date specimen collected, type of sample

□ Laboratory form or letter describing the main epidemiological and clinical findings and the lab tests that are required









#### **Step 1c: Locate the sample**

## Quick Tips for Category A shipments (infectious substances that can cause permanent disability, life-threatening or fatal disease when exposed to healthy people or animals)

- √ Ensure the primary and secondary containers are leak-proof
- ✓Blood collection tubes in a sealed plastic bag or a screw-capped rigid tube can constitute a leak-proof primary container
- ✓ Do not place any sharps in your package: no needles, no cutters, no blades
- ✓ Shipping packages can be reused; but the packaging needs to be appropriately disinfected
- √The minimal dimensions to ship a Category A package is 10cm x 10cm x 10cm
- ✓ Remember that training to ship Category A samples is a legal requirement and must be renewed every 2 years

#### Step 2: Prepare the sample

□If the sample is in a plastic leak-proof primary container proceed to Step 3

□If sample is not in a plastic leak-proof primary container follow steps 2a – 2h



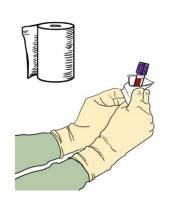
## Step 2a: Put on a gown, face protection and gloves (over cuffs)

✓ See WHO document "How to safely collect blood samples from persons suspected to be infected with highly infectious blood-borne pathogens"



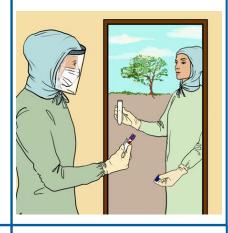
# Step 2b: Protect the sample from breaking during transport by wrapping the tube of blood in a paper towel or cushioning material.

✓Do not wipe sample collection tubes with disinfectant. Use disposable paper towel only.



# Step 2c: Ask a designated assistant to approach you with the unscrewed plastic leak-proof primary packaging container

√This person should have gloves on



## Step 2d: Place the wrapped tube of blood into the plastic leak-proof primary packaging container

✓Be careful not to touch the outside of the plastic leakproof primary packaging container tube with contaminated gloves



# Step 2e: Have the designated, gloved assistant tightly close the plastic leak-proof primary packaging container

✓ Disinfect with a disinfectant the outer side of the plastic leak-proof packaging container



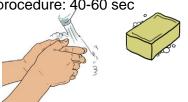
## Step 2f: Both persons should remove their personal protective equipment

✓ See WHO document "How to safely collect blood samples from persons suspected to be infected with highly infectious blood-borne pathogens"

Step 2g: Put contaminated items into an infectious waste bag for destruction

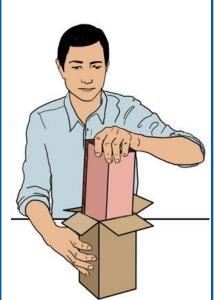
## Step 2h: Both persons should perform hand hygiene

✓ Duration of the entire procedure: 40-60 sec



### Step 3: Package the sample

Step 3a: Prepare the rigid shipping box by inserting the inner lining into it



## Step 3b: Open the secondary leak-proof container

✓ Choose the size of the container to match the number of samples being shipped



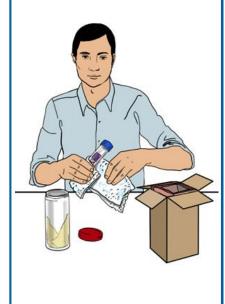
## Step 3c: Insert the absorbent material

√There should be enough material to absorb all contents in primary container



## Step 3d: Wrap the primary container with cushioning material

✓If packaging more than one sample, wrap each primary container individually with the bubble wrap to prevent breakage



Step 3e: Place the primary container(s) into the secondary container



Step 3f: Close the secondary container



### Step 3: Package the sample

Step 3g: If refrigeration is not necessary, place the secondary container into the lined rigid shipping box and proceed to step 3j.



### If refrigeration is necessary

3h. Place the secondary leak-proof container into a styrofoam container and surround with ice packs



3i. Place styrofoam container into the rigid shipping box



Step 3j: Put laboratory form / letter and epidemiological questionnaire into an envelope



Step 3k: Put laboratory form / letter and epidemiological questionnaire into the rigid shipping box

✓If no refrigeration is needed, place the laboratory form/letter and epidemiological questionnaire inside the box

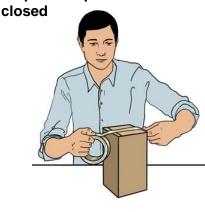
✓ If refrigeration is needed, place the form/letter on the outside of the styrofoam container so that moisture will not destroy the



Step 3I: Close the top of the box



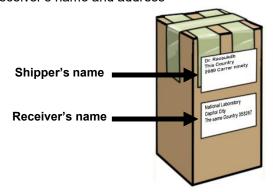
Step 3m: Tape the box



#### Step 4: Mark and label the box

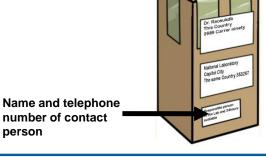
## Step 4a: Write the name and addresses on box

- ✓ Shipper's name and address
- ✓ Receiver's name and address



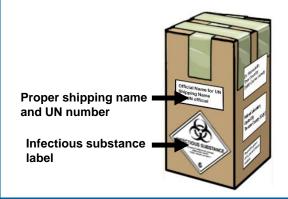
## Step 4b: Write the name and the telephone number of the contact person at the National Reference Laboratory

✓ Person should be available 24 hours a day until shipment arrives



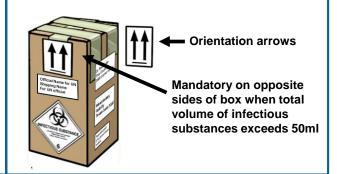
## Step 4c: Place the 'Infectious Substance' label on box

✓Write: 'Infectious substance, affecting humans, UN2814"



## Step 4d: Verify that the orientation arrows are on the box

✓ Arrows should be placed on opposite sides of box
✓ Arrows are required when total volume of infectious substance exceeds 50 ml per box



### Step 5: Finalise the shipment

## Step 5a: Contact the transporting company to either pick-up shipment, or inform them that you will bring the shipment to them

✓ Inform the transporting company if short delivery times are required due to refrigeration

## Step 5b: Contact the National Reference Laboratory to inform them that samples have been sent







## Step 5c: Obtain shipping and tracking receipt and store in a safe location for 2 years

✓If possible, scan and email the tracking receipt to the lead epidemiologist / medical officer in charge of outbreak investigation and the responsible person in the laboratory



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