# In-Country shipment : How to safely ship human blood samples from suspected Ebola cases within a country by road, rail and sea.

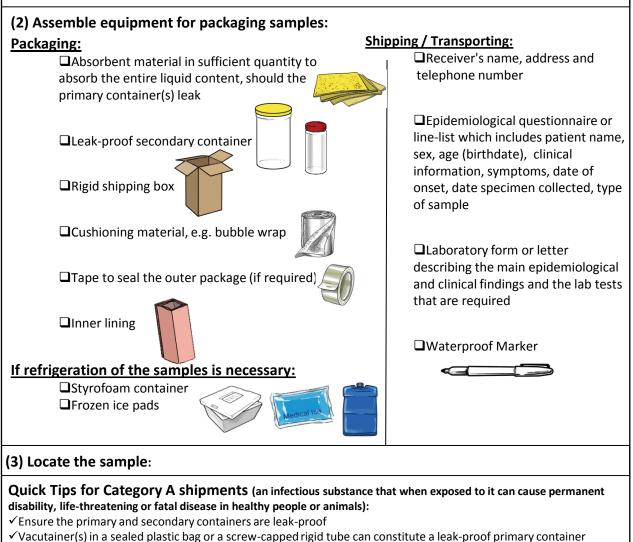
## Step 1: Before handling the sample, prepare all shipping equipment

#### (1) 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 MoH

□Notify National Reference Laboratory and the lead epidemiologist / medical officer that the sample shipment will be coming

Uverify schedule / timetable for the company transporting the sample



- ✓ 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 A. If the sample is in a plastic leak-proof primary container proceed to step 3 B. If sample is not in a plastic leak-proof primary container follow steps B1-B8 $\checkmark$ If sample is not in a leak-proof container, (e.g. Vacutainers or blood collection tubes) DO NOT touch Vacutainers or blood collection tubes without wearing appropriate personal protective equipment Step B3. Ask a designated Step B1. Put on a gown, Step B2. Protect the sample assistant to approach you with face protection and gloves from breaking during the unscrewed plastic leak-proof (over cuffs) [see "How To transport by wrapping the safely collect blood samples from tube of blood in a paper towel primary packaging container. persons suspected to be infected ✓ This person should have gloves on. or cushioning material. with highly infectious bloodborne pathogens"] Do not wipe sample collection tubes with disinfectant. Use disposable paper towel only. Step B4: Place the wrapped Step B6. Both persons should Step B6: Have the designated, remove their personal protective tube of blood into the plastic gloved assistant tightly close equipment [see "How To safely collect leak-proof primary packaging the plastic leak-proof primary blood samples from persons suspected to be container. packaging container. infected with highly infectious blood-borne ✓ Be careful not to touch the pathogens"] outside of the plastic leak-proof When closed, the outside of primary packaging container tube Step B7. Put contaminated items the primary tube can be with contaminated gloves into an infectious waste bag for disinfected destruction Step B8. Both persons should perform hand hygiene. Duration of the entire procedure: 40-60 sec. Norld Health

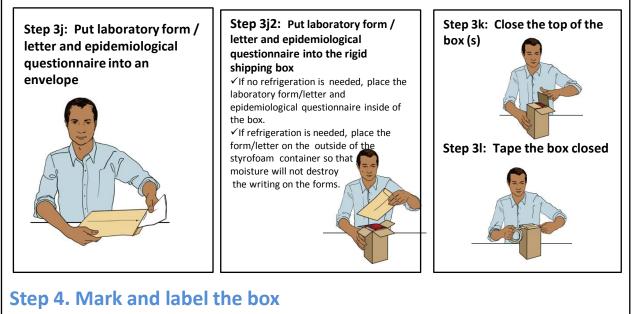
Organization

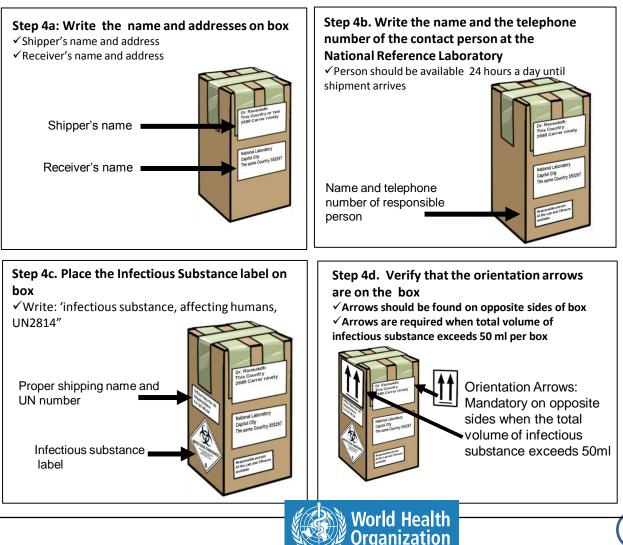
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#### Step 3: Package the sample (1<sup>st part)</sup> 3b. Open the secondary leak-Step 3c. Insert the absorbent Step 3a. Prepare the rigid proof container shipping box by inserting the material ✓ Choose the size of the container ✓ There should be enough material inner lining into it to match the number of samples to absorb all contents in primary being shipped container Step 3f. Close the secondary Step 3d. Wrap the primary Step 3e. Place the primary container with cushioning container (s) into the container secondary container material ✓ If packaging more than one sample, wrap each primary container individually with the bubble wrap to prevent breakage Step 3g. If refrigeration is not If refrigeration is necessary: necessary, place the **3h.** Place the secondary **3i.** Place styrofoam container secondary container into the leak-proof container into a into the rigid shipping box lined rigid shipping box and styrofoam container and proceed to step 3j. surround with ice packs. World Health Organization

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#### Step 3: Package the sample (last part)





### Step 5. Finalize the shipment

Step 5a. Contact the National Reference Laboratory to inform them that samples have been sent

Step 5b. 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 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



