How to safely ship human blood samples from Lassa cases within a country by road, rail and sea

Interim Guidance February 2018



Shipping / Transporting

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
- Uverify schedule / timetable for the company transporting the sample

Step 1b: Assemble equipment for packing samples

Packing

Absorbent material in Receiver's name, address and sufficient quantity to absorb telephone number the entire liquid content, Epidemiological questionnaire or lineshould the primary list which includes patient name, sex, container(s) leak Inner lining age (birthdate), clinical information, □ Leak-proof secondary symptoms, date of onset, date container specimen collected, type of sample Rigid shipping box Laboratory form or letter describing the main epidemiological and clinical findings and the lab tests that are required Waterproof marker Cushioning material, e.g. bubble wrap If refrigeration of the samples is necessary □ Tape to seal the □ Styrofoam container outer package (if required) □ Frozen ice pads

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 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



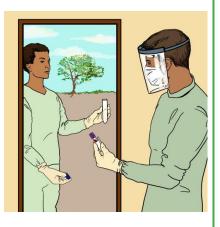
Step 2e: Have the designated, gloved assistant tightly close the plastic leakproof primary packaging container

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



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 2f: Both persons should remove their personal protective equipment

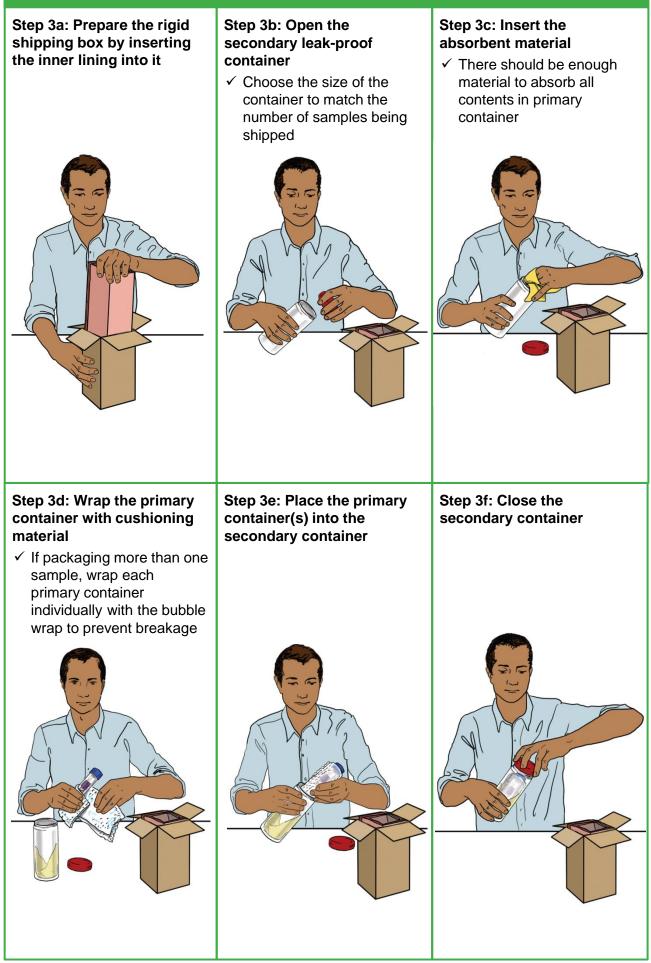
✓ See WHO document "How to safely collect blood samples from persons suspected to be infected with highly infectious blood-borne pathogens"

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

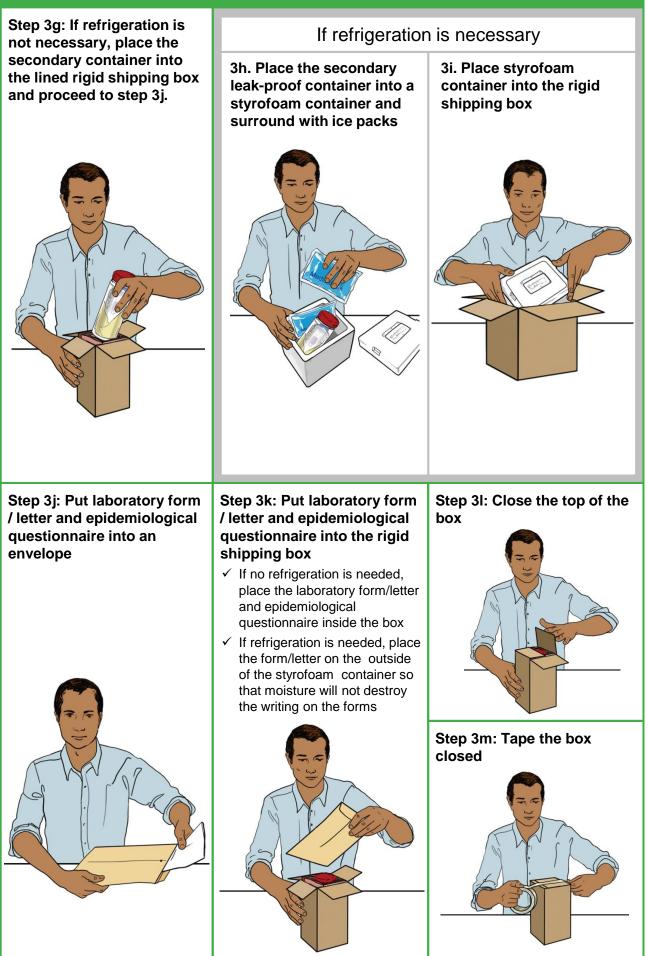
Step 2h: Both persons should perform hand hygiene

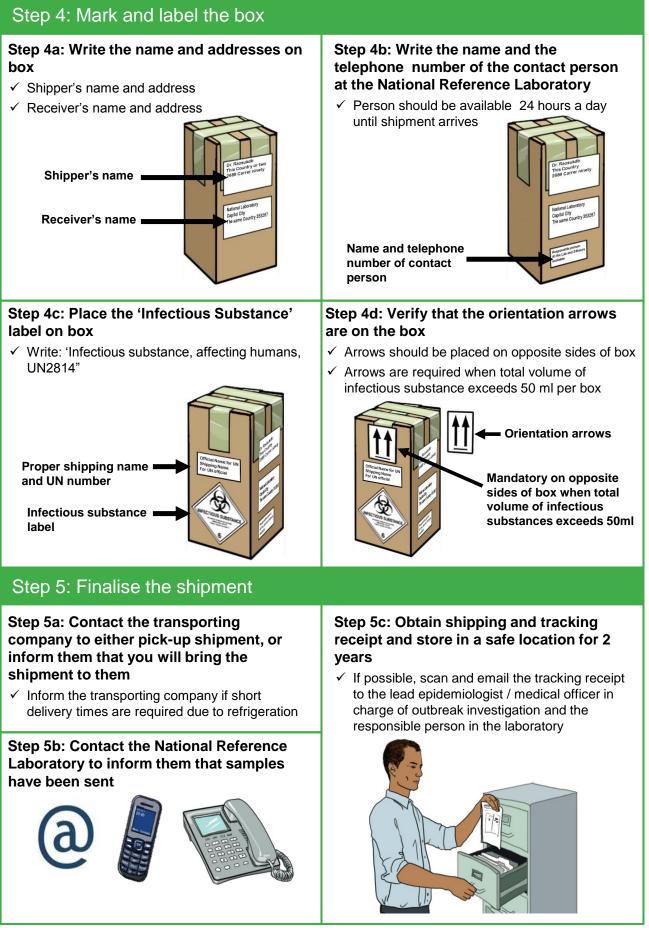
 ✓ Duration of the entire procedure: 40-60 sec

Step 3: Package the sample



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