

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

2014

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

Rigid shipping box

Packing

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

□ Leak-proof secondary □ Inner lining container □ Pigid chipping hov

Shipping / Transporting

- 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
- □ Waterproof marker
- If refrigeration of the samples is necessary
- Styrofoam container
- Frozen ice pads



Step 1c: Locate the sample

Cushioning material,

e.g. bubble wrap

Tape to seal the outer package (if

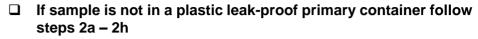
required)

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
- $\checkmark\,$ 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



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 bloodborne 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

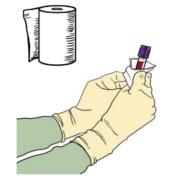
 This person should have gloves on



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



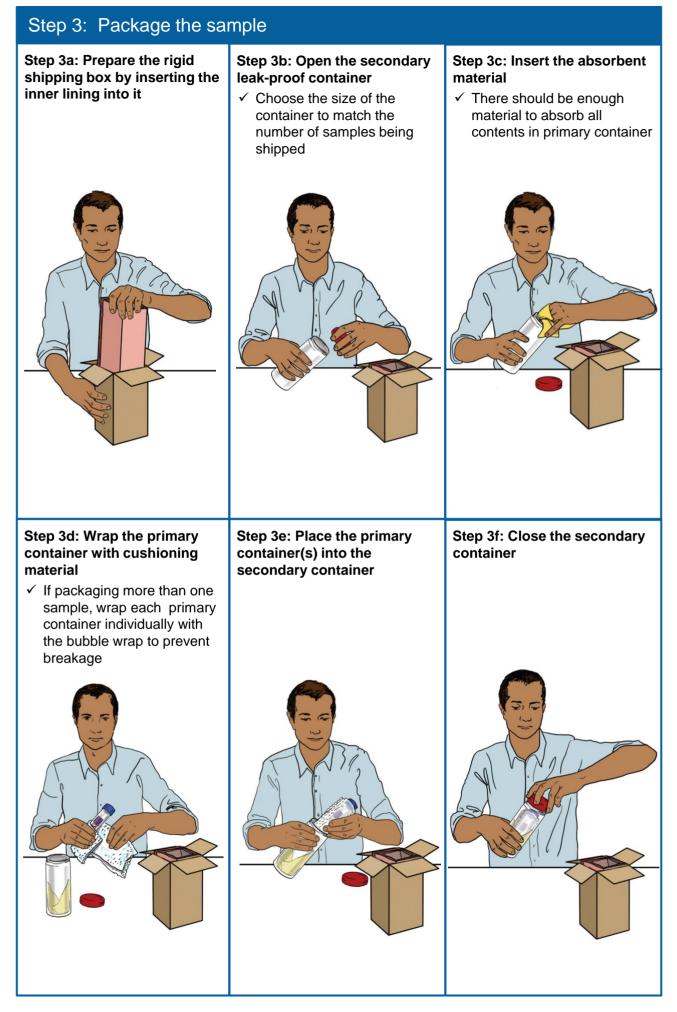
Step 2f: Both persons should remove their personal protective equipment

 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

