

Lassa Fever

Operational Support & Logistics Disease Commodity Packages

Agent's Biosafety Level: BSL4 Lassa Fever [LINK] Epidemic Potential: Medium Managing Epidemics Handbook [LINK]

	Last Opuate. 21 September 2010		
SURVEILLANCE	Sample Collection	Diagnosis	
Definitive diagnosis requires testing that is available only in	Blood & Nasopharyngeal samples	Polymerase Chain Reaction (PCR)	Immunoassay
reference laboratories. Laboratory specimens may be hazardous and must be handled with extreme care.		1 RT-PCR Non-prequalified (NPQ) with 2 targets (GPC gene and L gene)	Several in-house IgM/IgG ELISAs

Note: Many diagnostics supplies are also used for Case Management purposes, but have been included only in Surveillance.

Medical Device List. [LINK]

PREVENTION & CONTROL	Vector Control	Infection Protection & Control (IPC)	Post Exposure Propyylaxsis
Humans get primarily infected through exposure to rats' urine or faeces. Human to human transmssion occurs through direct contact with bodily fluids of infected persons, therefore strict IPC measures with appropriate PPE are key to control outbreaks.	Rodents	Personal Protective Equipment (PPE) for screening (standard) in health facilities & for teams conducting safe and dignified burials	Oral Ribavirin. On outbreak-specific basis, and as per most recent guidance in the R&D Blueprint.
		PPE Guidelines [LINK]	Therapeutic Workshop Document [LINK]

NAD Bidepilit LEWA			
CASE MANAGEMENT	Treatment		Personal Protective Equipment (PPE)
	Aetiological	Supportive	
Isolated patients must be placed in intensive care and receive aetiological & supportive treatment.	Ribavirin IV, Lassa Treatment in pipeline (Oral presentation, IV presentation in production),	IV Fluids critical Intensive care for isolated patient Pain & Fever	PPE for Treatment in Healthcare Facilities
	Therapeutic Workshop Document [LINK]	Pain & Fever	

Key outbreak control activities considered for material supply

- Rapid diagnostics tests to improve disease identification
- Antiviral treatment to reduce mortality
- Supportive treatment (hydration & fever/pain relief) to reduce mortality

 Personal Protective Equipment and material for the establishment of IPC measures at health care level to reduce transmission
- Personal Protective Equipment and material for the execution of safe and dignified burials to reduce transmission

Note: Products for Surveillance, Prevention & Control, and Case Management are undergoing rapid and continous development and refinement. For greater clarity, please refer to most recent applicable WHO technical guidance.

INTERVENTION		COMMODITY	TECHNICAL DESCRIPTION		
	ē O	Triple packaging boxes	Triple packaging boxes for transport	Guidance on regulations for Transport of Infectious Substances 2017 - 2018	
		Viral Transport Medium	Medium for specimen to transport to laboratory	Interim Guideline [LINK]	
Щ		Tubes, blood collection, EDTA	Vacuum tube used for blood collection with EDTA, sterile, capped with vacuum seal. Material: plastic. 4 ml and 6 ml		
LANG		Tubes, blood collection, plain/dry	Vacuum tube used for plain/dry blood collection without anticoagulant, sterile, capped with vacuum seal. Material: plastic. 4 ml and 6 ml		
SURVEILLANCE		Sharps container boxes	Puncture resistant container for collection and disposing of used, disposable and auto-disable syringes, needles. 5 L capacity accommodating approximately 100 syringes. Boxes prominently marked.	WHO performance specification E10/IC.1 WHO/UNICEF standard E10/IC.2 or equivalent	
	õ	and logistics requirements,	riteria for selection of specific diagnostic tests may include historical efficacy, adherence to any existing Target Product Profiles, ease of use, necessary throughput, distribution id logistics requirements, and manufacturer production capacity. For some pathogens, consideration may need to be given to the presence of mutations in targeted gene equences or proteins. WHO can advise on the selection of tests on a case by case basis as determined by a specific event.		
	Temperature Screening	Thermometer, Infrared	Handheld battery-powered electronic instrument designed to estimate body temperature od a site on skin (e.g. forehead) non-invasively, quickly without touching. A sensor can be cleaned easily by each use with wiping by disinfectant or sterilisable cover.	• ISO 80601-2-56:2009 • ISO 80601-2-59 Ed. 1.0:2008 • ASTM E1104-98(2003) • ASTM E1965-98(2009) • ASTM E1112-00(2011) • JIS T 4207:2005 • or equivalent	
	Ter			WHO Core - Thermometers, electronic, infrared [LINK]	
		Gloves, examination	Gloves, examination, nitrile, powder-free, non-sterile. Cuff length preferably reach mid-forearm (eg. minimum 280mm total length. Sizes, S, M, L Outer glove should have long cuffs, reaching well above the wrist, ideally to mid-forearm. Inner glove should be worn under the cuff of the gown/coveralls (and under any thumb/finger loop) whereas the outer glove should be worn over the cuff of the gown/coveralls.	EU standard directive 93/42/EEC Class I, EN 455, EU standard directive 89/686/EEC Category III, EN 374, ANSI/ISEA 105-2011, ASTM D6319-10 or equivalent	

OSL | Disease Commodity Packages LASSA FEVER

 OSL | Disease Commodity Packages
 2
 LASSA FEVER

Bag and hands should be white color

CASE MANAGEMENT

Lassa Fever

Operational Support & Logistic
Disease Commodity Packages

	world H Organiz	eaith ation	Lassa Fever	Operational Support & Logistics Disease Commodity Packages		
	Ribavirin IV, 1000mg dissolved in 10ml phosphate buffer solution, vial.					
	e ±	Compound Sodium Lactate Solution	Compound solution of sodium lactate (Ringer's lactate), injection solution, w/o IV set and needle, 1000ml			
	Supportive Treatment	Infusion giving set	Infusion giving set, with airinlet and needle, sterile, single-use			
	Sup Tre	Paracetamol	Paracetamol, 500mg, tablets			
		Gloves, examination	Gloves, examination, nitrile, powder-free, non-sterile. Cuff length preferably reach mid-forearm (eg. minimum 280mm total length. Sizes, S, M, L Outer glove should have long cuffs, reaching well above the wrist, ideally to mid-forearm. Inner glove should be worn under the cuff of the gown/coveralls (and under any thumb/finger loop) whereas the outer glove should be worn over the cuff of the gown/coveralls.	EU standard directive 93/42/EEC Class I, EN 455, EU standard directive 89/686/EEC Category III, EN 374, ANSI/ISEA 105-2011, ASTM D6319-10 or equivalent		
		Gloves, surgical, length to forearm large (longer than examination gloves)	Gloves, surgical, nitrile, powder-free, single use. Outer glove should have long cuffs, reaching well above the wrist, ideally to midforearm. Inner glove should be worn under the cuff of the gown/coveralls (and under any thumb/finger loop) whereas the outer glove should be worn over the cuff of the gown/coveralls. Sizes 5 to 8.5	EU standard directive 93/42/EEC Class I, EN 455, ANSI/ISEA 105-2011, ASTM 6319-10 or equivalent		
		Face shield	Made of clear plastic and provides good visibility to both the wearer and the patient, Adjustable band to attach firmly around the head and fit snuggly against the forehead, Fog resistant (preferable), Completely cover the sides and length of the face, May be re-usable (made of robust material which can be cleaned and disinfected) or disposable.	EU standard directive 86/686/EEC, EN 166/2002, ANSI/ISEA Z87.1-2010, or equivalent		
		Coverall	Single use, light colours preferable to better detect possible contamination, thumb/finger loops to anchor sleeves in place, good freedom of movement. Sizes: M, L, XL	Option 1: blood and body fluid penetration resistant: meets or exceeds ISO 16603 class 3 or above exposure pressure, or equivalent Option 2: blood-borne pathogens penetration resistant:meets or exceeds ISO 16604 class 2 or above exposure pressure, or equivalent		
		grade NOS or higher	Fluid resistant particulate respirator. Surgical N95 respirator or higher High fluid resistance, Good breathability, Internal and external faces should be clearly identified, Structured design that does not collapse against the mouth (e.g. duckbill, cup-shaped)	"Surgical N95 respirator" cleared by the US FDA and NIOSH, or equivalent • Fluid resistant surgical N95 respirator with minimum 80 mm Hg pressure based on ASTM F1862, ISO 22609, or equivalent		
	PPE Health Care Facilities	Mask, surgical	Medical/surgical mask, high fluid resistance, good breathability, internal and external faces should be clearly identified, structured design that does not collapse against the mouth (e.g. duckbill, cup-shaped)	EN 14683 Type IIR performance ASTM F2100 level 2 or level 3 or equivalent; • Fluid resistance at minimum 120 mmHg pressure based on ASTM F1862-07, ISO 22609, or equivalent • Breathability: MIL-M-36945C, EN 14683 annex C, or equivalent • Filtration efficiency: ASTM F2101, EN14683 annex B, or equivalent		
	ר Care	Scrubs, tops	Tunic/tops, woven, scrubs, reusable or single use, short sleeved (tunic/tops), worn underneath the coveralls or gown.			
	Health	Scrubs, pants	Trouser/pants, woven, scrubs, reusable or single use, short sleeved (tunic/tops),	worn underneath the coveralls or gown		
	PPE	Gown	Single use, fluid resistant, disposable, length mid-calf to cover the top of the boots, light colours preferable to better detect possible contamination, thumb/finger loops or elastic cuff to anchor sleeves in place.	Option 1: fluid penetration resistant: EN 13795 high performance, or AAMI PB70 level 3 performance or above, or equivalent Option 2: blood borne pathogens penetration resistant: AAMI PB70 level 4 performance, or (EN 14126-B) and partial body protection (EN 13034 or EN 14605), or equivalent		
		Head cover	single use, fluid resistant, adjustable and should stay securely in place once adju part of the gown	sted, facial opening constructed without elastic, cover reaches upper		
		Boot, rubber	Non-slip sole pattern, PVC or polyurethane sole which is completely sealed and vigown, Range of sizes available to improve comfort and avoid trauma to the feet, I polyurethane, Favor light colours to better identify possible contaminations.			
		Goggles, protective	Good seal with the skin of the face, Flexible PVC frame to easily fit with all face contours with even pressure, Enclose eyes and the surrounding areas, Accomodate wearers with prescription glasses, Clear plastic lens with fog and scratch resistant treatments, Adjustable band to secure firmly so as not to become loose during clinical activity, Indirect venting to avoid fogging, May be re-usable (provided appropriate arrangements for decontamination are in place) or disposable.	EU standard directive 86/686/EEC, EN 166/2002, ANSI/ISEA Z87.1-2010, or equivalent		

OSL | Disease Commodity Packages 3 LASSA FEVER

World Health Organization		Lassa Fever	Operational Support & Logistics Disease Commodity Packages
	Apron	Apron, disposable or single use, made of polyester with PVC-coated, or other waterproo 250g/m2, waterproof, Covering size: 70-90 cm (width) X 120-150cm (height), or standard adult size	of material, Straight apron with bib, minimum basis weight:
	Alcohol-based hand rub	bottle of 100ml	
	Bio-hazardous bag	Disposal bag for bio-hazardous waste, 30x50cm, with "Bio Hazard" print, autoclavable p 50 or 70 micron thickness	olypropylene.
	Body bag	Made of linear enforced, U-shape zipper and 2 zipper pulls with tie ribs. adult size 250x120cm Protector Body Bag specifications: 6 handles Impermeable, linear reinforced LLDPE, LDPE, EVA, PEVA, (avoid PVC), minimum thicles hould be able to hold 100-125 kilos (200-250 lbs), Should contain no chlorides: burning of chlorides pollute the environment and can caust carcinogenic to health of funeral workers when used for cremations. At least 6 handles included in the body bag to allow burial team to hand carry it safely Heat-sealed: insure superior strength and safety, Provide full containment of blood borne pathogens Cracking point of 25 - 32 degrees below zero Shelf life: minimum 10 years Bag and hands should be white color	
r so	Sprayer, hand-held	1,5 liters, acid resistant	
Health Logistics	Sprayer, backpack	12 liters, acid resistant	
1 9	Chlorine	NaDCC, granules, 1kg, 65 to 70% + dossage spon	

OSL | Disease Commodity Packages 4 LASSA FEVER