

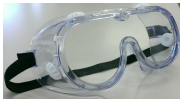








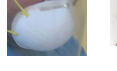

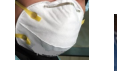
**WHO list of Personal Protective Equipment for Infection and Prevention Control  
with focus on Ebola classified by Donation Priority**


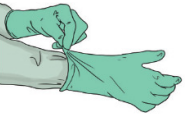
**Version 31 March 2015**







**Main references**




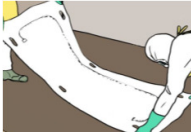
Personal protective equipment in the context of filovirus disease outbreak response rapid advice guideline: summary of the recommendations, WHO, <b>October 2014</b>	<a href="http://apps.who.int/iris/handle/10665/137410#sthash.84IQvJL7.dpufnote:related+only+to+clinical+care">http://apps.who.int/iris/handle/10665/137410#sthash.84IQvJL7.dpufnote:related+only+to+clinical+care</a>
Personal protective equipment (PPE) in the context of filovirus disease outbreak response: Technical specifications for PPE equipment to be used by health workers providing clinical care for patients, WHO, <b>October 2014</b>	<a href="http://apps.who.int/iris/bitstream/10665/137411/1/WHO_EVD_Guidance_SpecPPE_14.1_eng.pdf?ua=1">http://apps.who.int/iris/bitstream/10665/137411/1/WHO_EVD_Guidance_SpecPPE_14.1_eng.pdf?ua=1</a>
Personal protective equipment in the context of filovirus disease outbreak response, WHO, <b>October 2014</b>	<a href="http://apps.who.int/iris/bitstream/10665/137410/1/WHO_EVD_Guidance_PPE_14.1_eng.pdf">http://apps.who.int/iris/bitstream/10665/137410/1/WHO_EVD_Guidance_PPE_14.1_eng.pdf</a>
Field situation: How to conduct safe and dignified burial of a patient who has died from suspected or confirmed Ebola virus disease, WHO, <b>October 2014</b>	<a href="http://apps.who.int/iris/bitstream/10665/137379/1/WHO_EVD_GUIDANCE_Burials_14.2_eng.pdf?ua=1">http://apps.who.int/iris/bitstream/10665/137379/1/WHO_EVD_GUIDANCE_Burials_14.2_eng.pdf?ua=1</a>
Interim Infection Prevention and Control Guidance for Care of Patients with Suspected or Confirmed Filovirus Haemorrhagic Fever in Health-Care Settings, with Focus on Ebola, WHO, <b>August 2014</b>	<a href="http://www.who.int/csr/resources/publications/who-ipc-guidance-ebolafinal-09082014.pdf">http://www.who.int/csr/resources/publications/who-ipc-guidance-ebolafinal-09082014.pdf</a>
Clinical management of patients with viral haemorrhagic fever: A pocket guide for the front-line health worker, WHO, <b>March 2014</b>	<a href="http://www.who.int/csr/resources/publications/clinical-management-patients/en/">http://www.who.int/csr/resources/publications/clinical-management-patients/en/</a>
Interagency Emergency Health Kit, WHO, 2011	<a href="http://www.who.int/medicines/publications/emergencyhealthkit2011/en/">http://www.who.int/medicines/publications/emergencyhealthkit2011/en/</a>





Category	Generic item name	Generic item image	Example of Type of activity			WHO Detailed description	Sizes	Minimum certification or minimum testing (or equivalent)	Minimum Quantities	Transport measures
	*** Recommended ** Alternative * Optional		Standard patient care	confirmed patients with VHF	Cleaning, waste or dead body management					
Eye protection (Goggles or Face shield)	Goggles		***	***	***	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.	One Size	• EU standard directive 86/686/EEC, EN 166/2002, • ANSI/ISEA Z87.1-2010, or equivalent	10 000	Freight cost covered by the donor. If not, goods should be packed and ready to be collected from an international airport
	Full faceshield		OR	OR	OR	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 snugly 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.	One Size	• EU standard directive 86/686/EEC, EN 166/2002, • ANSI/ISEA Z87.1-2010, or equivalent	10 000	
	Spectacles		OR			Made of clear, lightweight plastic and provides wide field of vision, Fog and scratch resistant coating (preferable), May be re-usable (made of robust material which can be cleaned and disinfected) or disposable.	One Size	• EU standard directive 86/686/EEC, EN 166/2002, • ANSI/ISEA Z87.1-2010, or equivalent	10 000	
	Anti-fog spray			*	*	Anti-fog spray for glasses bottle of abt 100ml	100 ml		5 000	

Category	Generic item name	Generic item image	Example of Type of activity			WHO Detailed description	Sizes	Minimum certification or minimum testing (or equivalent)	Minimum Quantities	Transport measures	
			Standard patient care	confirmed patients with VHF	Cleaning, waste or dead body management						
	*** Recommended ** Alternative * Optional										
Nose and mouth protection	Mask, surgical, flat rectangular with folds		***			Minimum 3-ply face mask with at least 95% filtration efficiency, aluminum nose bar along absorbing band	S, M, L	<ul style="list-style-type: none"> <li>EN 14683 Type I or II</li> <li>ASTM F2100 or equivalent</li> </ul>	50 000	Freight cost covered by the donor. If not, goods should be packed and ready to be collected from an international airport	
	Mask, medical/surgical, fluid resistant, structured design	 		***	***	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)	S, M, L	<ul style="list-style-type: none"> <li>EN 14683 Type IIR performance ASTM F2100 level 2 or level 3 or equivalent;</li> <li>Fluid resistance at minimum 120 mmHg pressure based on ASTM F1862-07, ISO 22609, or equivalent</li> <li>Breathability: MIL-M-36945C, EN 14683 annex C, or equivalent</li> <li>Filtration efficiency: ASTM F2101, EN14683 annex B, or equivalent</li> </ul>	50 000	Freight cost covered by the donor. If not, goods should be packed and ready to be collected from an international airport	
	OR										
	Respirator	 		*** (used for aerosols with full face shield)	*** (used for aerosols with full face shield)		Shape that will not collapse easily (e.g. duckbill, half-sphere), High filtration efficiency, Good breathability  To be used only during procedures that generate aerosols of body fluids.  Only to be used together with a full face shield.	range of sizes with fit test kit	Performance: NIOSH N95, EN149 FFP2, or equivalent:  Test method: <ul style="list-style-type: none"> <li>Filtration efficiency: US 42 CFR Part 84 for N95, EN149 clause 7.9.2, or equivalent</li> <li>Breathability: US 42 CFR Part 84 for N95, EN149 clause 7.16, or equivalent</li> </ul>	50 000	Freight cost covered by the donor. If not, goods should be packed and ready to be collected from an international airport
OR											
Surgical N95 respirator	 		** (used for aerosols)	** (used for aerosols)		Fluid resistant, Shape that will not collapse easily (e.g. duckbill, half-sphere), High filtration efficiency, Good breathability  To be used only during procedures that generate aerosols of body fluids.	range of sizes with fit test kit	"Surgical N95 respirator" cleared by the US FDA and NIOSH, or equivalent <ul style="list-style-type: none"> <li>Fluid resistant surgical N95 respirator with minimum 80 mm Hg pressure based on ASTM F1862, ISO 22609, or equivalent</li> </ul>	50 000	Freight cost covered by the donor. If not, goods should be packed and ready to be collected from an international airport	
Alcohol-based hand rub			***	***	***	Preferably made locally (refer to main reference), Fulfils recognized standards for microbiological efficacy (ASTM or EN standards), contains minimum 80% ethanol OR 75% isopropyl alcohol, can be liquid, gel or foam (and HCW tolerability & acceptability has already been tested), can be in 100ml (personal) bottles (should be able to be opened with one hand, e.g. flip top bottle), 500ml bottles (preferably with wall/bed/trolley mounted bracket) or 1L bottles	100 mL 500 mL 1 L	<ul style="list-style-type: none"> <li>ASTM E2315</li> <li>ASTM E2755 - 10</li> <li>EN 1500 or equivalent</li> </ul>	5 000	Considered a dangerous good by IATA. Donors may consult WHO representatives prior to donations.	

Category	Generic item name	Generic item image	Example of Type of activity			WHO Detailed description	Sizes	Minimum certification or minimum testing (or equivalent)	Minimum Quantities	Transport measures
	*** Recommended ** Alternative * Optional		Standard patient care	confirmed patients with VHF	Cleaning, waste or dead body management					
Hand protection	Gloves, examination, non sterile		*** (single)	*** (double)	*** (with heavy duty gloves)	Gloves, examination, nitrile, powder-free, non sterile. Cuff length preferably reach mid-forearm (e.g. minimum 280mm total length), Range of sizes.  Preferably, the outer glove should have long cuffs, reaching well above the wrist, ideally to the mid fore-arm. In order to protect the wrist area from contamination, the 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.	S, M, L	<ul style="list-style-type: none"> <li>EU standard directive 93/42/EEC Class I, EN 455,</li> <li>EU standard directive 89/686/EEC Category III, EN 374,</li> <li>ANSI/ISEA 105-2011,</li> <li>ASTM D6319-10,</li> </ul> or equivalent	100 000	Freight cost covered by the donor. If not, goods should be packed and ready to be collected from an international airport
	OR									
	Gloves, surgical, length to forearm large	longer than examination gloves	*	*	*	Gloves, surgical, nitrile, powder-free, single use  Preferably, the outer glove should have long cuffs, reaching well above the wrist, ideally to the mid fore-arm. In order to protect the wrist area from contamination, the 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.	range of sizes 5 to 8.5	<ul style="list-style-type: none"> <li>EU standard directive 93/42/EEC Class I, EN 455,</li> <li>ANSI/ISEA 105-2011,</li> <li>ASTM 6319-10,</li> </ul> or equivalent	50 000 pairs	Freight cost covered by the donor. If not, goods should be packed and ready to be collected from an international airport
	OR									
Gloves, obstetric elbow, large	longer than surgical gloves		*	*	Gloves, gynaecological, nitrile, powder-free, single use  Preferably, the outer glove should have long cuffs, reaching well above the wrist, ideally to the mid fore-arm. In order to protect the wrist area from contamination, the 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.	S, M, L	<ul style="list-style-type: none"> <li>EU standard directive 93/42/EEC Class I, EN 455,</li> <li>ANSI/ISEA 105-2011,</li> <li>ASTM 6319-10,</li> </ul> or equivalent	50 000 pairs	Freight cost covered by the donor. If not, goods should be packed and ready to be collected from an international airport	
Gloves, heavy-duty, rubber					***	Heavy duty gloves, covering forearm. Fabric: cotton or polyester, rubber coating, waterproof, and chlorene resistant, minimum cuff length 15cm	M, L	<ul style="list-style-type: none"> <li>EU standard directive 89/686/EEC Category III,</li> <li>EN 374 (AS/NZS 2161.10.1.2005) chemical resistance for AKL</li> <li>EN 374 (AS/NZS 2161.10.1.2005) for biohazards Level 3 performance, or above</li> <li>EN 388 (AS/NZS 2161.10.3.2005) 3111 for abrasion, blade cut, tear and puncture, or above</li> <li>EN 420:2004+A1:2009</li> </ul> or equivalent, or above	10 000 pairs	Freight cost covered by the donor. If not, goods should be packed and ready to be collected from an international airport

Category	Generic item name	Generic item image	Example of Type of activity			WHO Detailed description	Sizes	Minimum certification or minimum testing (or equivalent)	Minimum Quantities	Transport measures
			Standard patient care	confirmed patients with VHF	Cleaning, waste or dead body management					
	*** Recommended ** Alternative * Optional									
Body wear (Gown or Coverall with apron)	Scrubs, tops/pants		**	***	**	Tunic/tops and trouser/pants, woven, scrubs, reusable or single use, short sleeved (tunic/tops), worn underneath the coveralls or gown	S, M, L		10 000	Freight cost covered by the donor. If not, goods should be packed and ready to be collected from an international airport
	Gown, disposable, with elastic wrists		***			Single use, Length mid-calf to cover the top of the boots, Avoidance of colours which are culturally unacceptable, e.g. black, Light colours preferable to better detect possible contamination, Preferably thumb/finger loops or elastic cuff to anchor sleeves in place.	M, L, XL	<ul style="list-style-type: none"> <li>Option 1: fluid penetration resistant: EN 13795 standard performance, or</li> <li>Option 2: AAMI PB70 level 2 performance or above, or equivalent</li> </ul>	50 000	Freight cost covered by the donor. If not, goods should be packed and ready to be collected from an international airport
	Gown, fluid resistant, disposable, with elastic wrists			***	**	Single use, Length mid-calf to cover the top of the boots, Avoidance of colours which are culturally unacceptable, e.g. black, Light colours preferable to better detect possible contamination, Preferably thumb/finger loops or elastic cuff to anchor sleeves in place.	M, L, XL	<ul style="list-style-type: none"> <li>Option 1: fluid penetration resistant: EN 13795 high performance, or AAMI PB70 level 3 performance or above, or equivalent</li> <li>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</li> </ul>	50 000	Freight cost covered by the donor. If not, goods should be packed and ready to be collected from an international airport
	OR									
	Coveralls, fluid resistant, disposable, with elastic wrists, ankles and hood			***	***	Single use, Avoidance of colours which are culturally unacceptable, e.g. black, Light colours preferable to better detect possible contamination, Thumb/finger loops to anchor sleeves in place, good freedom of movement Different sizes available – large size especially important.	M, L, XL	<ul style="list-style-type: none"> <li>Option 1: blood and body fluid penetration resistant: meets or exceeds ISO 16603 class 4, 5 or 6 exposure pressure, or equivalent</li> <li>Option 2: blood-borne pathogens penetration resistant: meets or exceeds ISO 16604 class 4, 5 or 6 exposure pressure, or equivalent</li> <li>Breathability of RET less than 30 m2.Pa/W according to ISO 11092, or equivalent</li> </ul>	10 000	Freight cost covered by the donor. If not, goods should be packed and ready to be collected from an international airport
	Aprons, disposable				***	Disposable or single use, Made of polyester with PVC-coated, or other waterproof material, Straight apron with bib, Minimum basis weight: 250g/m2, waterproof, Covering size: 70-90 cm (width) X 120-150cm (height), or standard adult size	One Size		5 000	Freight cost covered by the donor. If not, goods should be packed and ready to be collected from an international airport
Aprons, heavy-duty, reusable			**	***	Heavy duty non-woven apron, Straight apron with bib, Fabric: 100% polyester with PVC coating, or 100% PVC, or 100% rubber, or other fluid resistant material, Waterproof, Sewn strap for neck and back fastening Minimum basis weight: 300g/m2 covering size: 70-90 cm (width) X 120-150cm (height) Reusable (provided appropriate arrangements for decontamination are in place)	One Size	may comply with EN ISO 13688:2013 or equivalent	5 000	Freight cost covered by the donor. If not, goods should be packed and ready to be collected from an international airport	

Category	Generic item name	Generic item image	Example of Type of activity			WHO Detailed description	Sizes	Minimum certification or minimum testing (or equivalent)	Minimum Quantities	Transport measures
			Standard patient care	confirmed patients with VHF	Cleaning, waste or dead body management					
	*** Recommended ** Alternative * Optional									
Foot wear	Boots, rubber			***	***	Nonslip sole pattern, having a PVC or polyurethane sole which is completely sealed and waterproof, Knee-high in order be higher than the bottom edge of the gown, Range of sizes available to improve comfort and avoid trauma to the feet, Materials of construction include rubber, PVC, neoprene, nitrile, polyurethane, Favor light colours to better identify possible contaminations.	Women: 37(6US), 38(7US), 40(9US) Men: 42(8US), 44(10US)		5 000 pairs	Freight cost covered by the donor. If not, goods should be packed and ready to be collected from an international airport
	Hood			***	***	Single use, Facial opening constructed without elastic, reaching the upper part of the gown or coverall, Adjustable and immovable once adjusted, Preferably fluid-resistant.	One Size		20 000	Freight cost covered by the donor. If not, goods should be packed and ready to be collected from an international airport
Head cover	OR									
	Head cover			***	***	Single use, Facial opening constructed without elastic, Reaching the upper part of the gown or coverall, Adjustable and immovable once adjusted, Preferably fluid-resistant.	One Size		20 000	Freight cost covered by the donor. If not, goods should be packed and ready to be collected from an international airport
Safe and dignified burials	Body bags (suitable for burial or cremation)				***	Cadaver bag, linear enforced, U-shape zipper and 2 zipper pulls with tie ribs. Protector Body Bag specifications: <ul style="list-style-type: none"> <li>Impermeable, linear reinforced LLDPE, LDPE, EVA, PEVA, (avoid PVC), minimum thickness 400 microns;</li> <li>Should be able to hold 100-125 kilos (200-250 lbs),</li> <li>Should contain no chlorides: burning of chlorides pollute the environment and can cause damage to retort chambers. Body bags should be non carcinogenic to health of funeral workers when used for cremations.</li> <li>At least 6 handles included in the body bag to allow burial team to hand carry it safely</li> <li>Heat-sealed: insure superior strength and safety,</li> <li>Provide full containment of blood borne pathogens</li> <li>Cracking point of 25 - 32 degrees below zero</li> <li>Shelf life: minimum 10 years</li> <li>Bag and hands should be white color</li> </ul>	adult 250x120cm child 150x100cm		500	Freight cost covered by the donor. If not, goods should be packed and ready to be collected from an international airport
	Absorbent pad for body bags				*	Absorbent lining for body bag, <ul style="list-style-type: none"> <li>Absorbs body fluids in case of contagious haemorrhagic fever, cholera,</li> <li>Can absorb at least 5 litres of liquid.</li> </ul>			500	Donnations are subject to the recipient's protocole. WHO may be consulted prior to donation.
	Strecher, foldable					**	Foldable strecher, Reusable (provided appropriate arrangements for decontamination are in place) , Capacity to carry minimum 150kg, Approx. length 180cm x width 50cm (90 cm x 50cm when folded), Adjustable bands	180x 50cm		100

Category	Generic item name	Generic item image	Example of Type of activity			WHO Detailed description	Sizes	Minimum certification or minimum testing (or equivalent)	Minimum Quantities	Transport measures
			Standard patient care	confirmed patients with VHF	Cleaning, waste or dead body management					
	*** Recommended ** Alternative * Optional									
Waste management	Safety Box / Sharps container, must be labelled biohazard		***	***	***	Puncture resistant container for collecting and disposing of used disposable syringes and needles Container with 5 L capacity	5 Litres	WHO/UNICEF standard E10/IC2 AS 4031:1992 BS 7320:1990 DHHS (NIOSH) Publication No. 97-11 or equivalent	5 000	Freight cost covered by the donor. If not, goods should be packed and ready to be collected from an international airport
	Bag, disposable for biohazardous waste (PPE and clinical waste without sharps)		***	***	***	Disposal bag for bio-hazardous waste 30x50cm with "Bio Hazard" printed, yellow, autoclavable polypropylene for reusable materials (disinfection) and for disposable material (destruction)	30x 50cm	tear resistance of minimum 480 grams in parallel and perpendicular planes (ISO 6383-2, ASTM D1922 or equivalent) impact resistance of minimum 165 grams (ISO 7765-1, ASTM D1709 or equivalent)	50 000	
Cleaning	Chlorine in HTH (calcium hypochlorite) form, granular				***	Chlorine, HTH 65-70%, granules, packaging IATA approved or according to mode shipment	N/A		5 000 kg	Freight cost covered by the donor. If not, goods should be packed and ready to be collected from an international airport
	Sprayer, hand, disinfectant, portable, small			***	***	Compression hand sprayer 1.5L Similar to Goizper IK	1.5 Litres		2 000	
	Sprayer, backpack				***	Backpack/Knapsack (12 liters) with leakproof lid, acid resistance, lever-operated, preferably with spray control valve, adjustable nozzle allowing in line or circular spraying. Similar to Goizper IK-12B5	12 Litres		500	