MOMENTUM

Country and Global Leadership





Operational Guidance

ESSENTIAL SUPPLY LIST

For Infection Prevention and Control in Health Care Facilities

BACKGROUND

MAINTAINING INFECTION PREVENTION AND CONTROL (IPC) STANDARDS IS VITAL TO ENSURING THAT HEALTH CARE FACILITY (HCF) STAFF CAN PROVIDE SERVICES THAT ARE SAFE FOR PATIENTS AND STAFF.

To meet basic levels of IPC readiness, health care facilities need access to essential supplies and equipment. These include soap and water for handwashing, proper waste receptacles for safe separation and disposal of medical waste, and sufficient stocks of personal protective equipment (PPE) to protect staff, patients, and visitors.





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The insufficient stocking of essential IPC supplies and equipment undermines efforts to achieve and sustain universal access to care that is safe (does no harm), cost-effective, and efficient. According to a 1995–2008 review and meta-analysis, health care-associated infections developed in more than 15% of patients in limited-resource settings (Allegranzi, 2011). Unclean environments at health facilities contribute to the emerging threat of antimicrobial resistance (Homes, 2016). Furthermore, the current SARS-CoV-2 (COVID-19) pandemic acutely demonstrates the importance of investing in sustained IPC measures to protect patients and staff from preventable transmission of known and future infectious diseases.

Multiple IPC guidance and standards documents have been published by various global institutions including the World Health Organization (WHO), the WHO/UNICEF Joint Monitoring Programme for Water Supply, Sanitation and Hygiene (JMP), the Centers for Disease Control and Prevention (CDC), SPHERE, John Hopkins University, and the London School of Hygiene and Tropical Medicine.

Although these documents reference specific equipment and materials necessary for implementing IPC best practices, there is no single resource that lists all essential IPC items in a format similar to the WHO's Model List of Essential Medicines that has guided procurement and stocking of critical medicines by ministries of health and partners for decades. This

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document was developed through <u>USAID's Momentum Country and Global Leadership</u> project to complement existing guidance and standard documents by providing centralized global guidance on essential infection prevention supplies and equipment, along with generalized information on transmission relevance, minimum supply specifications, and recommended stocking quantities.

PURPOSE

THE DOCUMENT INCLUDES A LIST OF ESSENTIAL SUPPLIES FOR HCFS to maintain basic standard IPC precautions in all health care service levels and contexts. Although certain clinical contexts may require additional standards and supplies, these basic standards remain universal. This list can also aid HCF staff, administrators, and government officials at local and national levels to better understand which IPC supplies should be prioritized for to maintain minimal IPC readiness. This "Essential List" provides guidance to inform budgeting, procurement, and planning decisions that impact IPC readiness of the health system and at health facility levels.

This document was developed based on a review of the literature in consultation with IPC experts and is modeled on the <u>WHO Model List of Essential Medicines</u> (See <u>Appendix 1</u> for the literature review tabulations). The list is non-exhaustive and focuses on the essential supplies required for IPC based on a review of the literature and available guidance. The list does not include items for treatment or procedures (e.g., the list includes gloves but not gauze). Although this document was not written to respond directly to the COVID-19 infectious disease pandemic, it does include essential IPC supplies required for delivery of safe health care services in the context of COVID-19.

Although the document does not provide specific guidance on inventory controls, it is recommended that national and sub-national health authorities incorporate the "Essential List" into their logistic management information systems and inventory control systems, along with development of forecasting plans for PPE and IPC consumables that prioritize facility needs, stockpiling and deployment plans, and continued communication with facilities to ensure supply.

HOW TO USE THIS DOCUMENT

The document provides tables listing essential IPC supplies divided into technical sections. These sections are further divided by "Tools and Materials" and "Personal Protective Equipment." Each table provides information on the use, applicable transmission-based precautions, specification or descriptive information of the material, and guidance on minimum quantities, as well as on stocking and refilling. In practice, this information should be contextualized according to national standards and availability of materials.

CONTENTS

Guidance on Reading List Tables	4
ssential Infection Prevention Supplies	5
Health Care Workers (HCWs)	5
Hand Hygiene Materials for HCWs	5
PPE for HCWs	6
Environmental Cleaning	9
Tools and Materials for Environmental Cleaning	9
PPE for Environmental Cleaning	12
Instrument Processing.	14
Tools and Materials for Instrument Processing	14
PPE For Instrument Proccessing	15
Waste Management	17
Tools and Materials for Waste Managment	17
PPE for Waste Management	18
nfrastructure and Maintenance	19
Appendix 1: Literature Review	21
References	22

GUIDANCE ON READING LIST TABLES

Each section provides a list of corresponding equipment, tools, and materials and a list of PPE, as detailed in the following example table:

Item	Use	Contact	Droplet	Airborne	Specification	Quantity
Tools, materials, and equipment identified as essential for IPC readiness	How is the item used?		Need based on transmission- based precautions (PPE lists		General description for procuring items along with approximate duration/lifespan of the product. Single use: Product can only be used once and should then be disposed of. Approximate (~) duration: Estimate of the product lifespan	Guidance notes for determining minimum quantities required of the item. All quantities should be verified according to actual need and in accordance with local protocols.
Example: Gloves, medical non-sterile	Touching infectious materials or surfaces	+	+		Powder-free nitrile, vinyl or latex. Non-sterile. Various sizes available Single use	1 pair/health care worker (HCW)

ESSENTIAL INFECTION PREVENTION SUPPLIES

HEALTH CARE WORKERS (HCWs)

HAND HYGIENE MATERIALS FOR HCWs

Item	Use	Specification	Quantity
Alcohol-based hand rub (ABHR)	Hand disinfection dispensed at points of care (POCs) or given to staff for personal use	70% to 95% of alcohol by volume or national standards	3ml/use
Hand hygiene promotional materials	Demonstrating proper handwashing for patients and staff	Water-Resistant ~1 year product duration	1 set/handwashing station (see infrastructure section)
Hand towels, single use	Drying hands after washing	Single use hand-drying material (e.g., disposable paper towels)	1/hand wash Available at all handwashing stations
Soap	Handwashing	Liquid, solid, leaf or powdered form of soap (liquid soap is preferred)	Liquid soap—0.7ml/use Solid soap—0.7g/use Available at all handwashing stations

PPE FOR HCWs

Item	Use	Contact	Droplet	Airborne	Specification	Quantity
Aprons, disposable	Protection during cleaning, preparing disinfectants, and corpse management	+			Medical; plastic Single use	1 piece (pc)/HCW
Eye protection	Protecting eyes from droplets or airborne exposure		+	+	Plastic medical goggles or face shield EU PPE Regulation 2016/425; EN 166; ANSI/ISEA Z87.1; or equivalent Duration according to manufacturer specifications	1 pair/HCW
Respirator	Preventing inhalation of small particles that may contain infectious agents or harmful gases and vapors			+	Minimum "N95" respirator according to the Food and Drug Administration (FDA) Class II, under 21 CFR 878.4040, and CDC NIOSH; Minimum "FFP2" according to EN 149, EU PPE Regulation 2016/425 Category III; or equivalent Duration according to manufacturer specifications Must be worn according to manufacturer's instruction	1 pc/HCW
Gloves, elbow-length	Protecting hands and forearms during deep cavity procedures	+			Single use; sterile; powder-free nitrile, vinyl, or latex; elbow-length various sizes available	1 pair/HCW

Item	Use	Contact	Droplet	Airborne	Specification	Quantity
Gloves, medical non-sterile	Touching infectious materials (bodily fluids) or contaminated surfaces	+	+		Single use; powder-free nitrile, vinyl, or latex; non-sterile, long cuffs, reaching well above the wrist, ideally to mid-forearm; various sizes available; having a range of sizes stocked and available is recommended. EU MDD Directive 93/42/EEC Category III; EU PPE Regulation 2016/425 Category III: EN 455; EN 374; ANSI/ISEA 105; ASTM D6319; or equivalent set of standards	1 pair/HCW
Gloves, surgical sterile	Performing invasive medical or surgical procedures when sterility is required	+			Single use; sterile; rubber; long cuffs, reaching well above the wrist, ideally to mid-forearm Various sizes available and should be selected appropriately	1 pair/HCW
Gowns, non-sterile	Protecting exposed skin from bodily fluids and droplets	+	+		Long-sleeved, mid-calf length, fluid-resistant, preferably disposable (single use) EU PPE Regulation 2016/425 and EU MDD Directive 93/42/EEC; FDA Class I or II medical device; EN 13795 any performance level; AAMI PB70 all levels acceptable; or equivalent; Various sizes available and should be selected appropriately	1 pc/HCW
Head covering/surgical caps/surgical hoods	Keeping hair, beard, and scalp covered so that flakes of skin and hair are not shed into the sterile field				Large enough to cover the entire scalp and hair; disposable or reusable cloth	1 pc/HCW

Item	Use	Contact	Droplet	Airborne	Specification	Quantity
Mask, surgical/medical	Protecting health care staff from droplet exposure, spills of contaminated fluids and/or detergent/disinfectant	+	+		Singe use; non-sterile; nonwoven; shape provides complete coverage of the nose, mouth, and chin (e.g., rectangular shape comprising 3 or 4 folded layers) Malleable nose strip made of aluminum, allowing a snug fit; internal and external surfaces are clearly identified; 2 pairs of ties; latex-free, glass fiber-free EN 14683 Type II IR, IIR, or equivalent	1 pc/HCW, patient, or visitor Maximum 6 hours/person or if damaged, wet, or dirty
Overshoes	Covering footwear in surgical areas; unnecessary for procedures with minimal blood or body fluid spillage	+			Cover entirety of footwear	1 pair/HCW
Scrubs/Uniform	Protecting exposed skin from bodily fluids, droplets	+	+		Reusable; washable	1 set/HCW

ENVIRONMENTAL CLEANING

TOOLS AND MATERIALS FOR ENVIRONMENTAL CLEANING

Item	Use	Specification	Quantity
Bucket, for use with detergent	Cleaning surfaces, reprocessing (washing and disinfecting) cleaning tools	Plastic, preferably with lid and color-coded to national standards ~6-month duration	1 pc/cleaning set ¹
Bucket, for use with disinfectant	Disinfecting surfaces, reprocessing (washing and disinfecting) cleaning tools, and for preparing disinfectant solutions	Plastic, preferably with lid and color-coded to national standards ~6-month duration	1 pc/cleaning set ¹
Bucket, for use with rinse water	Cleaning and disinfecting surfaces, reprocessing (washing and disinfecting) cleaning tools	Plastic, preferably with lid and color-coded to national standards ~6-month duration	1 pc/cleaning set ¹
Cloths	Cleaning non-floor surfaces, wiping used instruments with wet cloth and point of use	Reusable Cotton cloths are preferred to microfiber as these can be damaged by chlorine solutions Different colors can be assigned according to areas with different risk ~3-month duration	3 pcs/cleaning set ¹
Dustpan	Collecting debris as part of environmental cleaning	Plastic or metal ~3-month duration	1 pc/cleaning set ¹

¹ Separate cleaning sets are required for isolation rooms, isolation areas, non-isolation areas, toilet blocks, shower blocks, safe areas (e.g., administrative offices), and water treatment areas. They are typically used after care is provided or at scheduled cleaning frequencies identified locally

Item	Use	Specification	Quantity
Floor brush	Spot cleaning of floors	Plastic or metal ~3-month duration	1 pc/cleaning set ¹
Markers, fluorescent	Marking surfaces to assess cleaning coverage Remaining marks can be shown using an ultraviolet light (blacklight)	Commercially available fluorescent markers or "hilighters"	2 pcs/cleaning set ¹
Mop head or cleaning squeegee/with cloth	Cleaning and disinfecting floors	Cloth for mop should have different color to help identify the areas in which those are supposed to be used for cleaning.	3 pcs/cleaning set ¹
		Cotton cloths should be preferred to microfiber as the latter can be damaged by chlorine solutions	
		~3-month duration	
		Used mops or cloths should be stored and washed separately from other linens	
NAon stick	Hold man bood or closning squagge /with cloth	Wooden or metal	1 no/olooping cot1
Mop stick	Hold mop head or cleaning squeegee/with cloth for floor cleaning and disinfection		1 pc/cleaning set ¹
	0	~6-month duration	
Paper, disposable	Cleaning spillage	Absorbent paper; single use	500 g/cleaning set ¹
Sign, wet floor/caution/hazard	Indicate safety hazards for patients and staff during environmental cleaning or hazard-generating incident	Plastic or other durable water-resistant material ~1-year duration	1 pc/cleaning set ¹

Item	Use	Specification	Quantity
Detergent	Cleaning of surfaces prior to disinfection including floors, beds, dishes, laundry, bedpans, urinals, reusable PPE, etc.	Liquid soap, enzymatic cleaners, mild alkaline detergents	Volume or weight calculated based on product type, facility size, patient load, and number of staff ²
Disinfectants	Disinfection of surfaces, cleaning materials, and PPE	Recommend: quaternary ammonium compounds, alcohol, bleach, peroxide	Volume or weight calculated based on product type, facility size, patient load, and number of staff ²
Squeeze bottle, portable	Dispensing cleaning and disinfection solutions during environmental cleaning	Plastic squeeze bottle. Spray bottles are not recommended ~6-month duration	3 pcs/cleaning set ¹
Toilet brush	Toilet cleaning	Plastic scrubbing brush with handle dedicated to toilet cleaning ~3-month duration	2 pcs/toilet block
Ultraviolet light	Identifying bodily fluids and cleaning verification using fluorescent markers	Handheld. Should include batteries if not rechargeable Long lasting; replace as needed	2 units/facility

² Refer to manufacturer instructions and local guidance for calculating volumes. Global standards are available with varying calculation methods.

PPE FOR ENVIRONMENTAL CLEANING

Item	Use	Contact	Droplet/ Chemical	Airborne/ Inhalation	Specification	Quantity
Aprons, reusable	Protection during cleaning, preparing disinfectants, and corpse management	+	+		Reusable, waterproof, chemical- resistant ~6-month duration	2 pcs/each role: cleaner, person preparing disinfectant solutions Can be used by multiple individuals
Boots, rubber (gum)	Foot protection for environmental cleaning				Rubber boots or other waterproof footwear (safety footwear required only for incineration) ~6-month duration	2 pcs/each role: cleaner, person preparing disinfectant solutions
Eye protection	PPE for droplet, airborne, and chemical precautions		+	+	Plastic medical goggles or face shield ~6-month duration	2 pcs/each role: cleaner, person preparing disinfectant solutions
Face covering	Chemical inhalation protection during preparation of disinfectants using bleach or chlorine solution		+		Reusable or single use; splash resistant Medical mask type IIR preferred Refer to chemical manufacturer specifications	6 pcs/person preparing disinfectant solution 2 pcs/person/day for single use
Gloves, thick/utility	PPE for waste collection, disinfectant preparation, and corpse management	+			Domestic reusable thick rubber gloves; Chemical resistant ~3-month duration Can be used by multiple individuals; Various sizes available and should be selected appropriately	2 pairs/each role: cleaner, person preparing disinfectant solutions

Item	Use	Contact	Droplet/ Chemical	Airborne/ Inhalation	Specification	Quantity
Gloves, medical non-sterile	Touching contaminated materials or surfaces	+			Single use; powder-free nitrile, vinyl or latex; non-sterile Various sizes available	1 pair/HCW
Gowns, non-sterile	Protects exposed skin from bodily fluids, droplets	+	+		Long-sleeved, fluid-resistant, single use, preferably disposable	1 pc/HCW
Respirator, Elastomeric	Worn by the staff manipulating high test calcium hypochlorite or sodium dichloroisocyanurate for preparing disinfectant solution (if preparing disinfectant with bleach, wear a surgical mask)			+	Elastomeric face piece with BP2 or BP3 filters Preferably adjustable Full face piece respirators are preferred as they also offer eye protection Long lasting. Replace according to manufacturer recommendations for filters and units	1 unit/HCF/ Can be used by multiple individuals

INSTRUMENT PROCESSING

TOOLS AND MATERIALS FOR INSTRUMENT PROCESSING

Item	Use	Specification	Quantity
Bucket	Fetching water	Rubber or plastic, chemical resistant ~6-month duration	1 pc/instrument processing person
Cleaning tools	Cleaning instruments before sterilization and high-level disinfection	Brush and sponge ~3-month duration	1 pc/instrument cleaning set
Chemical disinfectant	Disinfecting instruments after cleaning	Per national standards Commonly used are ortho-phthalaldehyde, glutaraldehyde, peracetic acid, hydrogen peroxide; Chlorine based compounds, alcohol, chlorine dioxide	Volume calculated based on product type, facility size, patient load, and number of staff
Detergent	Cleaning instruments before sterilization and high-level disinfection	Enzymatic cleaners; mild alkaline detergents	Weight/volume calculated based on product type, manufacturer specifications, facility size, patient load, and # of staff
Drapes	Covering surfaces for opening of sterile instrument packs	Paper	1 pc/procedure (opening of pack)
Instrument wrap/packaging	Wrapping cleaned instruments in drums for sterilization	Packaging should be selected according to the sterilization method and the devices used. Do not recommend the use of metal drum trays.	1 pc/instrument/procedure
Lubricants	Protecting medical devices	Water soluble	Volume calculated based on product type, facility size, patient load, and number of staff

Item	Use	Specification	Quantity
Marking pen	Labeling instrument packs	Indelible, non-bleeding, and non-toxic; sharp-tipped, water-based, or ballpoint pens should not be used	3 pcs/instrument processing person
Squeeze bottle, portable	Irrigating/flushing instruments during cleaning	Plastic squeeze bottle. Spray bottles are not recommended ~6-month duration	3 pcs/instrument processing person
Steam sterilization device/equipment	Sterilizing reusable medical devices (autoclaves)	Per national standards Examples: pre-vacuum sterilizers, steam-flush pressure- pulse; gravity sterilizers Long lasting. Replace according to manufacturer recommendations.	1 device/HCF
Transport container	Transporting contaminated devices to instrument processing area	Full-enclosed puncture-resistant container that prevents liquids from spilling. Labeled as biohazard	1/ward or by caseload # according to local protocols

PPE FOR INSTRUMENT PROCCESSING

Item	Use	Contact	Droplet	Airborne	Specification	Quantity
Aprons, reusable	Protection during cleaning, preparing disinfectants, and corpse management				Reusable, waterproof, chemical-resistant ~6-month duration	1/instrument processing personnel Can be used by multiple individuals

Item	Use	Contact	Droplet	Airborne	Specification	Quantity
Boots, gum	Foot protection				Rubber boots or protective shoe coverings (safety boots required only for incineration) ~6-month duration	1/instrument processing personnel Can be used by multiple individuals
Eye protection	Instrument cleaning	+	+		Plastic medical goggles or face shield ~6-month duration	1/instrument processing personnel
Face covering/ non-surgical masks	Chemical inhalation protection during preparation of disinfectants using bleach or chlorine solution				Medical mask type IIR preferred Splash resistant Refer to chemical manufacturer specifications	6/person reprocessing 2/person/day for single use
Gloves, thick/utility	Handling of instruments	+			Domestic reusable thick rubber gloves; chemical resistant Various sized are available ~3-month duration	1/instrument processing personnel Can be used by multiple individuals
Gloves, medical non-sterile	Transporting contaminated devices	+			Powder-free nitrile, vinyl, or latex. Non-sterile. Various sizes available Single use	1 pc/HCW
Gowns, non-sterile	Protecting exposed skin from bodily fluids, droplets, and airborne exposure	+			Long-sleeved, fluid-resistant, single-use, preferably disposable	1 pc/HCW

WASTE MANAGEMENT

TOOLS AND MATERIALS FOR WASTE MANAGMENT

Item	Use	Specification	Quantity
Bin, infectious	Collecting infectious waste	Plastic or metal/with lid; preferably with step/pedal function; size varies by need and location Recommend color coding bins according to national standards ~1-year duration	1 pc/POC 1 pc/restroom
Bin, non- infectious	Collecting non- infectious waste	Plastic or metal/with lid; preferably with step/pedal function; size varies by need and location Recommend color coding bins according to national standards ~1-year duration	1 pc/POC
Bin, sharps	Collecting used needles and syringes	Puncture- and leak-proof bins for collection of needles and syringes. Quantity consumed should be monitored to see the real consumption and in case needed, readjust the quantity suggested.	1 pc/POC Replace when 2/3 full
Plastic bags, infectious	Collecting infectious waste	Size will vary according to receptacle. Recommend color coding bags according to national standards.	1 pc/receptacle Assume 15% of total HCF waste by weight is infectious (WHO, 2018)
Plastic bags, non-infectious	Collecting non- infectious waste	Size will vary according to receptacle. Recommend color coding bags according to national standards.	1 pc/receptacle Assume 85% of total HCF waste by weight is non-infectious (WHO, 2018)
Trolley	Transporting waste and bed linens	Plastic or other durable water-resistant material. Separate trolleys should be used for infectious waste, general waste, and linens, preferably color-coded according to national standards.	≥ 1 trolley/HCF ~1-year duration

PPE FOR WASTE MANAGEMENT

Item	Use	Contact	Droplet/ Chemical	Airborne/ Inhalation	Specification	Quantity
Aprons, reusable	Protecting exposed skin during waste processing	+			Reusable; waterproof; chemical-resistant; heat-resistant ~6-month duration	2 pcs/each role: cleaner, person preparing disinfectant solutions Can be used by multiple individuals
Eye protection	Eye protection for incineration	+	+		Plastic medical goggles or facial shield ~6-month duration	1 pc/each person conducting incineration
Gloves, thick/utility	Waste collection, disposal, incineration	+			Domestic reusable thick rubber gloves; chemical-resistant; heat-resistant if for incineration; ~3-month duration	1/each person conducting waste disposal and incineration
Respirator, elastomeric	Worn by the staff who is manipulating high test calcium hypochlorite or sodium dichloroisocyanurate for preparing disinfectant solution (if preparing disinfectant with bleach, wear a surgical mask IIR)			+	Elastomeric facepiece with BP2 or BP3 filters (under EN 14387:2004+A1:2008 classification); full facepiece respirators are preferred as they also offer eye protection; N95 mask can be used if elastomeric not available, though not equivalent; Long lasting, replace according to manufacturer recommendations	1 pc/HCF Can be used by multiple individuals
Safety footwear	Foot protection for incineration	+			Durable; Reinforced toe; slip-resistant tread Safety footwear required for incineration only. For all other environmental cleaning tasks, rubber (gum) boots are acceptable ~1-year duration or if tread as worn beyond use	2 pairs/each person conducting incineration Can be used by multiple individuals

INFRASTRUCTURE AND MAINTENANCE

Item	Use	Specification	Quantity
Chlorine test kit	Measuring free residual chlorine in water	Digital meter, test strips, or colorimeter (digital, color wheel, or pool tester) with reagent (DPD1) ~1-year duration	1 kit/HCF 1 test strip/test
Electricity/power	Operating sterilization equipment; water pumping; lighting; incineration or alternative treatment technologies	Electricity or natural gas	Sufficient for all uses
Handwashing station	Enable handwashing for patients and staff	In case of absence of sink or permanent handwashing facilities, provide 100-liter plastic drum with lid and possibly with touch-free or elbow-tap method to capture wastewater. ~1-year duration	1 station/toilet block (within 5 meters) 1/HCF entrance 1/ward 1/morgue
Infectious/sharps waste disposal means	Disposing of infectious waste and/or sharps safely	Per national standards Acceptable methods include autoclaving; incineration; burial in a lined, protected pit; and collection for medical waste disposal off site. Long lasting, replace according to manufacturer instructions if applicable	Sufficient for all uses
pH test kit	Measuring pH levels of water	Digital meter or colorimeter with regent (phenol red)	1 kit/HCF
Safety ladder	Safely accessing hard to reach areas during environmental cleaning and maintenance	Metal or fiberglass; heavy duty Long lasting, replace according to manufacturer instructions	1 pc/HCF

Toilets	Preventing exposure to bodily fluids	Accessible to patients and staff (doors are unlocked or a key is always available), functional (the toilet is not broken, the toilet hole is not blocked, and water is available for flush/pourflush toilets), and private (there are closable doors that lock from the inside and no large gaps in the structure)	1 toilet dedicated for staff 1 sex-separated toilet with menstrual hygiene facilities 1 toilet accessible for people with limited mobility
Turbidity meter/tube	Measuring water turbidity to make sure chlorine can disinfect drinking water (turbidity<20 NTU)	Digital meter or plastic or glass cylinder with clear readable markings Long lasting, replace according to manufacturer instructions	1 pc/HCF
Water	Handwashing Environmental cleaning	Safe for the purpose intended From an improved water source	Outpatients – 5L/consultation Inpatients – 40-60L/patient/day Operating theatre or midwife obstetric unit – 100L/intervention Dry supplementary feeding center – 0.5-5L/consultation Wet supplementary feeding center – 15L/consultation Inpatient feeding center 30L/patient/day Cholera treatment center 60L/patient/day
Water station, potable	Provision of potable water for patients and staff for waterborne infection prevention	Free chlorine residual of 0.2 – 0.5 mg/L at point of consumption If no permanent infrastructure is available, store portable water in bucket/tank with lid and tap	Accessible to all (including those with disabilities) at all times and in all wards
Water storage	Water storage in case of service interruption	High-density polyethylene tanks Long lasting, replace according to manufacturer instructions	Water storage capacity is calculated aiming at having 2 days of autonomy in case of interruption of water supply. The total volume of the tank will therefore be calculated by needs per capita multiplied by number of daily outpatients or inpatients Additional water needs for HCWs and caregivers should be included.

APPENDIX 1: LITERATURE REVIEW

Item	JM	<u>P</u>	IPC	AF ³	SPHERE		CD	<u>C</u>		ich Clean HTM⁴)	Jhpiego (John Hopkins)		#
Name of Item	Ins	tances and excer	pts c	of mention of the	item	in the above wa	ter,	ne (WASH) and IP	C re	ference documents			
Bin, infectious	✓	In all consultation areas	✓	At each "waste generation	✓		✓		✓	Clinical waste Color-coded	✓		6
Bin, non-infectious	1		1	point"	1		1		✓		✓		6
Bin, sharps	1		✓		✓		1		✓		✓		6
Water	✓	Facility level	✓	Sufficient water	√	5L/patient/day	√		✓	Visibly clean for hygiene and cleaning	✓	Running water for handwashing; 5L per outpatient; 40–60 liters/patient/day per admission; 100L/procedure (operation, deliveries, etc.)	6
Soap, handwashing	✓	Or ABHR. At every POC; latrines	✓	Available at hand washing stations at POC			✓		✓	Liquid, bar, leaf, or powdered form of soap (liquid soap is preferred)	✓	Does not recommend bar soap for safety; discourages antiseptic soap due to cost	5
Alcohol-based Hand Rub (ABHR), Point of Care (POC)	✓	Or soap. At every POC; latrines	✓	Available at hand washing stations at POC			✓				✓		4

³ Infection Prevention and Control Assessment Framework

⁴ London School of Hygiene and Tropical Medicine

Item	JM	<u>P</u>	IPC	IPCAF ³		HERE	CD	<u>C</u>		ach Clean HTM⁴)	Jhpiego (John Hopkins)		#
Name of Item	Ins	tances and excer	ots c	of mention of the	item	n in the above wa	ter, s	sanitation, and h	ygie	ne (WASH) and II	PC re	ference documents	
Aprons, reusable					1	Exposed skin protection	✓		✓	Chemical- resistant	✓		4
Detergent					✓	Detergent	√	Liquid soap, enzymatic cleaners, detergents	✓	Detergent	√	Soap/detergent	4
Disinfectants	✓	Mentioned as c "advance servic		deration for			✓	Quaternary ammonium compounds, Alcohol, bleach, peroxide	✓	Chlorine based; other	√		4
Eye protection			√	Sufficient quantities Required	✓	Masks, googles, or shields to protect from splashes, droplets, or sprays	✓	Eye protection or googles			✓		4
Gloves, medical non-sterile			✓	Sufficient quantities Required	✓	Touching infectious materials	✓		✓	Single use			4
Gloves, thick/utility					✓	Waste management PPE	✓		✓	Chemical- resistant	1		4
Handwashing station	✓	At every POC, to 5 meters	oilet	s within	✓	Outbreaks	✓	At every POC, to and "service are	ilets eas"	within 5 meters, for cleaners	✓		4

Item	<u>JMP</u>	IPC	CAF ³	SPI	HERE	CD	<u>C</u>		ach Clean HTM⁴)		niego hn Hopkins)	#
Name of Item	Instances and exce	rpts o	of mention of the	iten	n in the above wa	ter,	sanitation, and h	ygie	ne (WASH) and II	PC re	ference documents	
Mask, surgical		✓	Sufficient quantities Required	✓	Masks, googles, protect from sp sprays			√	Disposable	✓		4
Plastic bags, infectious		~				✓		✓		✓		4
Plastic bags, non-infectious		✓				1		✓		✓		4
Bucket, detergent						✓		✓	Color-coded	✓		3
Bucket, disinfectant						1		1	Color-coded	1		3
Bucket, rinse water						✓		✓	Color-coded	✓		3
Cloths, reusable						✓	Preferable color-coded, cotton or microfiber	✓		✓		3
Gowns, isolation				√	Exposed skin protection	✓				√	Long-sleeved, fluid- resistant, single-use, preferably disposable. Protect HCWs and cleaners from blood and bodily fluids	3
Hand towels, single-use		√	Available at hand washing stations at POC					1	Disposable hand-drying materials	1		3
Mops/cleaning squeegee/ with floor cloth						√		√	Microfiber; cotton string	✓		3

Item	JMP	<u>IPC</u>	AF ³	SPI	HERE	CD	<u>C</u>	1	ach Clean HTM⁴)		niego hn Hopkins)	#
Name of Item	Instances and	d excerpts o	f mention of the	iten	n in the above wa	ter,	sanitation, and h	ference documents				
Respirator		V	Available as needed			✓	Cleanliness; airborne precaution			✓		3
Water station, potable		✓	"Is a reliable sat station present		inking water	1	At POC			✓	Diarrhea prevention	3
Aprons, disposable								1		1		2
Boots, gum				✓	Waste management PPE					✓	Protective footwear	2
Chlorine				√	Used for water treatment and surface disinfection	√	Water chlorination					2
Dustpan								✓		1		2
energy/power		✓	Sufficient for all uses			1	Asks indirectly					2
Face covering/non- surgical masks						✓	Chlorine mixing			1		2
Markers, fluorescent						1	For cleaning monitoring			✓		2
Sign, wet floor/ caution/hazard						✓		✓	hazard sign			2
Trolley, waste				√	Some sort of cal waste safely	rt fo	r transporting	✓	Transporting waste and bed linens			2

Item	<u>JM</u>	<u>P</u>	<u>IPC</u>	AF ³	AF ³ SPHERE CI		CD	<u>C</u>		ach Clean HTM⁴)	Jhpiego (John Hopkins)		#
Name of Item	Ins	tances and excer	ots c	of mention of the	item	in the above wa	ter, s	sanitation, and h	ygie	ne (WASH) and IF	C re	ference documents	
Water storage					✓		✓						2
Absorbent material									✓	For cleaning spillages			1
Alcohol (70%)											✓	Cleaning delicate surfaces	1
Alcohol-Based Hand Rub (ABHR), personal							✓	Do staff carry ABHR on their person?					1
Bed linens			✓	White preferred to allow for use of chlorine									1
Cloths, disposable									1	For cleaning			1
Colorimeter (chlorine pool tester)					✓								1
Colorimeter regent					✓	Weekly testing							1
Drapes											1		1
Floor brush									1				1
Gloves, surgical sterile			✓	Sufficient quantities. Required									1
Gowns, surgical											✓	Absorbent materials not recommended	1
Hand hygiene promotional materials	✓	Mentioned as c "advance servic		deration for									1

Item	JM	<u>1P</u>		IPCAF ³		<u>SPHERE</u>		CDC		Teach Clean (LSHTM⁴)		Jhpiego (John Hopkins)	
Name of Item	Ins	tances and excer	pts c	of mention of the	iten	n in the above w	ater, s	sanitation, and h	iygie	ne (WASH) and I	PC re	ference documents	
Hand lotion/cream									✓	Combats hand dryness due to frequent handwashing; non-oil-based		1	
Hand towel, single use									1	Towels should be personal or washed after use			1
Head covering/surgical caps/surgical hoods											1	Shedding skin or hair	1
Instrument wrap/packaging											✓	For storing sterilized instruments	1
Menstrual hygiene facilities	✓	Poorly defined but may include menstrual hygiene management products and disposal. 1 set per latrine										1	
Needle/hub cutters	✓	Mentioned as consideration for "advance service"											1
Overshoes											~		1
Paper, disposable									✓	For cleaning			1
Portable containers/cart/trolley							√	For cleaning materials transport					1
Safety ladder									1				1
Scrubs/uniform											1		1
Squeeze bottle, portable									✓	Discourages spray bottles			
Toilet Brush											1		1

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Acknowledgments

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