

Infection Prevention and Control Standard Operating Procedures

For

Cholera Treatment Centres and Units in Malawi

April 2023













Acronyms/Abbreviations

ABHR	Alcohol Based Hand Rub			
CTC	Cholera Treatment Centre			
CTU	Cholera Treatment Unit			
HAIs	Healthcare Associated Infections			
HCF	Healthcare Facility			
HCW	Healthcare Workers			
IPC	Infection Prevention and Control			
МоН	Ministry of Health			
ORP	Oral Rehydration Point			
ORS	Oral Rehydration Solution			
QI	Quality Improvement			
QMD	Quality Management Directorate			
WASH	Water Sanitation and Hygiene			



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Introduction

Infection prevention and control (IPC) in a CTC/ CTU

IPC are all practical measures taken in the healthcare facility to prevent harm caused by infections to patients, health workers and communities.

The main goal of IPC in the cholera response is to

- To reduce transmission of health care-associated infections of cholera and any other infectious disease
- To enhance the safety of staff, patients and visitors
- To enhance the ability of the organization/health care facility to respond to an outbreak
- To reduce the risk of the hospital (health care facility) itself amplifying the outbreak

Water, Sanitation and Hygiene (WASH)

WASH are all measures taken to guarantee environmental hygiene, safe water of all used within the health facility. It encompasses water, sanitation, waste management, cleaning within the health facility which in this case is CTU/C. A complete WASH package in the CTU/CTC reduces the risk of spread of Vibrio cholerae inside and outside the CTC/CTU.

The probability of spreading or acquiring cholera through a CTC/CTU can be highly reduced when proper IPC and WASH measures are respected, followed and monitored. These measures are, in principle, valid in CTC/CTUs and ORPs, although they need to be adapted to the specific characteristics of the facility concerned.



I Screening, Triage and Isolation

I.I Screening

Aims **at** establishing separation of patients on arrival at all health facilities entrances to reduce mixing of patients with cholera and other patients in the health facility. It also establishes effective patient flow and isolation of patients in the facility for appropriate management and care. The following screening questions should be asked at the entrance:

- 1. Do you have watery loose stools?
- 2. Are you vomiting?

If the answer to any of the two questions is YES, please refer the patient to the cholera treatment area for further triage. If the answer to the two questions is NO, please refer the patient to the general OPD area for further triage. Details of the screening questions and algorithm can be found in *annex 1*

I.2 Triage

All cholera patients sent to the CTC/CTU, should be categorized according to severity of symptoms to enhance proper IPC measures

I.3 Isolation

All cholera patients should be isolated from other patients to reduce the risk of spread of infection in the health facility hence the need to set up a CTC/CTU setup and design of CTC/CTU can be found in Annex 2. While the patient is in CTC/TCU, the IPC focal point should facilitate further separation of patients according to severity of symptoms to support proper management of IPC.

References

GTFCC Technical Note on WASH and IPC



GTFCC Cholera Outbreak Response Field Manual



2 Hand Hygiene

2.1 Hand hygiene

Hand hygiene avoids the transmission of Vibrio cholerae and other pathogenic micro-organisms in the CTC/CTU. Visibly soiled hands should be washed with soap and water. Alcohol based hand rub should be used when hands are not visibly soiled and should be provided at all points of care. When there is no access to soap, 0.05% chlorine solution can be used as an alternative for hand washing. Hand washing facilities should be placed and used in the following places ; entrance (s), Decontamination area, Triage, Observation area, Staff area, kitchen, patient admission area/ward, patient discharge, Chlorine preparation area, PPE donning area, PPE doffing area, Linen management area, Waste management area, Toilets/latrines, Morgue and Exit(s).

Note : All hand hygiene facilities should be clearly labelled in a manner easy to understand by all users and have the hand washing/rubbing technique poster (*Annex 3*) displayed. If 0.05% chlorine solution is used, properly label the time of mixing and time of discard which should be an interval of 4 hours. In all patient care areas, the WHO five moments of hand hygiene poster and hand hygiene technique poster must be displayed side by side to guide hand hygiene. Both sets should be displayed with five meters of each other and in easily visible places.

WHO's My 5 Moments for Hand Hygiene includes: (See poster in Annex 4)

- Before touching a patient
- Before clean/aseptic procedures
- After body fluid exposure risk
- After touching a patient
- After touching patient surroundings



2.2 Table1: Critical Hand hygiene timing for staff at CTC/CTU

STAFF	
On entering the CTC/CTU	On leaving the CTC/CTU
Donning PPE	Doffing PPE
Entering into a new zone or area (e.g. red	Exiting a zone or area (e.g. red zone to green zone)
zone to green zone)	
And before (*) :	And after :
• Examining a patient	• Examining a patient
• An aseptic procedure (e.g.	• Contact with stool, vomit, blood or other
inserting a catheter, introsseous	body fluids
needle)	• Going to the toilet
• Preparing ORS solution or food	• Preparing a corpse
• Feeding a patient	• Handling soiled laundry, waste and
• Giving a patient ORS to drink	emptying excreta and vomit buckets etc.
• Eating	

2.3 *Table 2*: Critical Hand hygiene timing for patients and guardian

PATIENTS / GUARDIANS		
On entering the CTC/CTU	On leaving the CTC/CTU	
And before:	And after:	
• Feeding a patient	• Contact with stools, vomit.	
• Giving ORS to drink.	• Going to the toilet.	
• Eating.	• Handling soiled laundry.	
• Preparing food for a patient.		

*Medical staff can use an alcohol based handrub (ABHR) before inserting an IV catheter or introsseous needle. Hand rubbing with an alcohol solution eliminates bacteria, including Vibrio cholerae, but these solutions are not detergents. It is imperative to wash visibly soiled hands with soap and water.



All patients, caretakers, and visitors should taught and encouraged to wash their hands

Note : Only patients without danger signs, conscious and capable of walking without assistance, are asked to wash their hands on entering the CTC/CTU.

Guards at the entrance of the CTC/CTU should not delay the treatment of serious cases (patients that have difficulty standing up or with altered consciousness) because this systematic hygiene measure is not a priority in patients, in a life-threatening condition.

References

GTFCC Technical Note on WASH and IPC

GTFCC Cholera Outbreak Response Field Manua



3 Risk Assessment and Personal Protective Equipment



3.1	Objective	This standard operating procedure (SOP) describes the use of personal			
	·	protective equipment (PPE) using risk assessment to select appropriate PPE			
		for tasks related to the care of patients with acute watery diarrhea (AWD),			
		when performing cleaning and disinfection of the patient care environment,			
		and when managing waste.			
3.2	Key concepts	PPE is specialized clothing or equipment worn by health care workers,			
	involved	patients or visitors creating a physical barrier between potentially infectious			
		or hazardous materials and a portal of entry (such as eyes, nose, mouth,			
		or broken skin). PPE's purpose is to reduce the risk of exposure of the			
		wearer to infectious pathogens (bacteria, viruses, fungi, protozoa, parasites)			
		and/or hazardous materials or chemicals (sharps, bio hazardous waste,			
		disinfectants).			
		Risk assessment is the systematic process of assessing all aspects of the			
		work to identify hazards that pose a risk to the safety and health of the			
		worker and the patient.			
3.3	Material	Soap and clean water for hand hygiene			
	required	OR Alcohol-based hand rub			
		• OR 0.05% chlorine solution			
		• Waste bin for disposal of single use PPE			
		Heavy duty bags for PPE waste			
		Receptacles for reusable PPE			
		Buckets for cleaning and disinfection of reusable PPE			
		• 70-90% alcohol solution for decontamination of face shields or goggles			
		• Or wiping with 0.2% chlorine solution			
		• 0.2% chlorine solution for decontamination of heavy duty PPE (i.e			
		gumboots, heavy duty gloves and apron)			



3.4	PPE required	• Examination gloves,
	-	• Heavy duty gloves,
		• Heavy duty aprons
		• Fluid resistant gown,
		• A face mask (E.g. : respirator and surgical mask)
		• Face shield (single-use or reusable)
		• Gumboots
3.5	Responsibilities	Health care personnel: all people, paid and unpaid, in a health care setting
	-	who have direct patient contact or potential for exposure to infectious or
		hazardous materials; including environmental service staff, waste
		management staff and volunteers who could be exposed.
		Family members or visitors who participate in patient care and may be
		exposed to infectious or hazardous materials should also have access to PPE
		and be instructed on correct use, including proper removal and disposal.



		1	
3.6 Co	onsiderations	•	If local policy is to use contact precautions (gown, gloves) and/or
			universal masking (medical mask) at all times in the Acute Watery
			Diarrhea (AWD) isolation area, this policy should take precedence.
		•	Additional PPE not included in this SOP may be indicated by risk
			assessment if patient is suspected/confirmed of another infectious
			pathogen (e.g. coverall or respirator for respiratory infections)
		•	Always clean your hands before and after wearing PPE
		•	PPE in appropriate size to the wearer should be available where and
			when indicated and selected according to risk assessment.
		•	When there is an identifiable risk (e.g. body fluid exposure), PPE should
			be donned before contact with the patientor patient environment.
		•	Never use expired PPE
		•	Always remove PPE immediately after completing the task and/or
			leaving the patient care area
		•	Never reuse disposable PPE
		•	If reusable PPE is used, clean and disinfect PPE between each use
Doff/discard PPE if it becomes contaminated or damaged		Doff/discard PPE if it becomes contaminated or damaged	
Always remove PPE carefully to avoid self-contamination		Always remove PPE carefully to avoid self-contamination	
3.7 Ris	sk assessment f	for	PPE in the context of AWD
Step			Action
1.	Perform a ris	sk a	assessment for the immediate task that needs to be performed on a patient
	presenting wi	th A	AWD or within a patient care environment which provides care for
patients with AWD and gather the PPE needed for the task being performed.			
If performing patient care for a patient with AWD or cleaning and disinfecting the patient			
environment where there is body fluid exposure risk (e.g. patient or patient environment			
is soiled with diarrhea or vomitus, contact with mucous membranes or non-intact skin,			
	intravenous catheter insertion or maintenance, cleaning and disinfection of small volume		
	of soiling) the	en v	wash hands and don examination gloves.



If performing patient care where there is a risk of a splash or spray of body fluids (e.g.
handling buckets containing diarrheal or vomitus output, bathing or dressing patients with
incontinence) then wash hands and don fluid resistant gown, face shield, and examination
gloves.
If performing cleaning and disinfection, where there is a risk of a splash or spray of body
fluids and chemicals (e.g. disinfecting or cleaning large volume of soiling,
changing/handling/laundry of heavily soiled linen, decontamination of medical instruments
when using chlorine solutions) then wash hands and don Heavy duty aprons, face shield,
and Heavy duty gloves.
If performing cleaning and disinfection of patient environment with disinfectants then
wash hands and don filtering face piece respirator, gumboots, face shield, and heavy duty
gloves and apron,
If performing waste management duties (transporting, treatment and disposal), perform
risk assessment for exposure to body fluids, potential tears in bags/containment receptacles,
and other exposure risks as indicated above. Then, at minimum, don heavy duty gloves and
apron, gumboots, face shield, to reduce risk of exposure to sharps, chemicals, and infectious

waste. Select additional PPE where indicated by risk assessment. **Use the following order to don PPE** depending on the PPE selected,

1. Perform hand hygiene

2. Put on gumboots

3. Put on fluid resistant gown (where indicated by risk assessment)

- Choose the correct size
- The opening goes at the back
- Be sure to tie at the neck and the waist

4a. Put on face mask (where indicated by risk assessment)

• Place mask to cover nose, mouth and chin using the ear straps to keep it in place



٠	Place the nose wire at the bridge of the nose and press down with index and middle
	fingers of both hands to fit snuggly on the face.
OR	
4 b. P	ut on filtering face piece respirator (when preparing chlorine solutions)
٠	Place respirator to cover nose, mouth and chin
٠	Place one strap at the top of the ears and one at the base of the neck
٠	Adjust and perform a seal check:
	• Cup the respirator with both hands
	• Inhale – there should be no leakage
	• Exhale – there should be no leakage
5a. Pi	ut on face protection – face shield (where indicated by risk assessment)
•	A face shield should go over the front of the eyes and sit on top of the mask, sitting
	over the brow
•	Adjust to fit
OR	
5h P	ut on eye protection- goggles (where indicated by risk assessment)
•	Goggles should go over the front of the eyes and mask, sitting over the brow
•	Adjust to fit
6. Pu	t on examination or heavy duty gloves (where indicated by risk assessment)
•	Gloves are put on last
٠	Choose the correct size
•	Be careful not to tear or puncture the gloves
•	Gloves should go over the cuff of the gown (if wearing)

See Annex 5 for PPE donning procedure poster



3.	Continue to perform risk assessment during the task performed. Establish the risk of
	exposure and extent of contact anticipated with body fluids, broken skin, chemicals, or
	potentially infectious waste. If risk assessment changes during care, leave the patient care
	area and doff current PPE when safe to do so and don new PPE appropriate to risk.
	PPE should be used for a single task/interaction in the patient care environment, doffed
	and discarded appropriately (if single use) or keep for decontamination (if reusable) before performing a risk assessment for the next task.
	In some instances, PPE may become contaminated or soiled during patient care (e.g. after body fluid exposure or chemical splash) while PPE continues to be indicated by risk assessment for the current task. In this instance, when safe to do so, leave the patient care area and doff all currently donned PPE appropriately and perform hand hygiene before donning fresh/clean PPE to continue care.
	Where examination gloves are used, they should be doffed and discarded and hand hygiene performed. A new pair of gloves may be donned after hand hygiene is performed if indicated by risk assessment.
	Avoid adjusting or modifying PPE during use:
	• if there is a need to adjust the PPE or the PPE becomes damaged or soiled during use,
	leave the patient care area when safe to do so and doff the PPE appropriately
	• never touch your face while wearing gloves or before performing hand hygiene in a
	patient care environment; remove gloves and perform hand hygiene before touching
	your mouth, nose, or eyes
4.	Use the following order to doff PPE, depending on the PPE selected :
	Ideally doffing should take place in a designated area, however it can be performed close to



1/	
	a clear plastic receptacle to doff PPE which may be decontaminated for reuse. Be
carefi	ll during doffing of PPE, as doffing carries a high risk of self-contamination.
1. Rei	nove examination or heavy duty gloves
•	Pinch at wrist and peel away
•	Allow glove to turn inside out (examination glove) or pull until fully removed from
	your hand away from your body (heavy duty glove)
٠	Hold in opposite hand
٠	Slide fingers underneath gloved hand and roll towards your fingers (examination
	glove) or pull away from body until fully removed from your hand (heavy duty
	glove)
•	Discard into appropriate waste bin (examination glove) or into appropriate
	receptacle for decontamination (heavy duty glove)
2. Rei	nove fluid resistant gown (if wearing)
٠	Untie the neck and the waist
•	Grasp gown at the sides of the neck and carefully pull the outer, contaminated side
	of the gown forward off the shoulders, turning inward
•	Roll off the arms into a bundle
•	Discard into appropriate waste bin – do not shake or agitate
3. Per	form hand hygiene
4. Rei	nove eye/face protection (if wearing)
•	Headbands of face shields/goggles are considered clean and may be touched with
	the hands
•	The front of face shield/goggles is considered contaminated
•	Remove eye/face protection by handling bands only
•	Make sure to lean forward when removing the eye/face protection
•	Discard into appropriate waste bin or into an appropriate container to be cleaned
	and disinfected
5. Rei	move mask/ filtering face piece respirator (if wearing)
•	Gasp the bottom strap and pull over the head



	• Grasp the top strap and pull forward off the head, bending forward to allow the	
	respirator to fall away from the face	
	• Make sure to lean forward when removing the eye/face protection	
	Discard immediately into appropriate waste bin	
	6. Perform hand hygiene	
	7. Remove gumboots after your shift	
	• Use none touch technique as much as possible when removing gumboots	
	• Perform hand hygiene after removing the gumboots	
	See Annex 6 for PPE doffing procedure poster	
5.	Dispose of all single use PPE used in cholera isolation areas as infectious waste in	
	appropriate waste bins with heavy duty bags. Avoid filling waste above ³ / ₄ of the wate	
	bin and dispose of appropriately.	
6.	Place all reusable PPE in appropriate receptacles for cleaning and disinfection	
	Heavy duty gloves may be decontaminated by cleaning and disinfection.	
	Cleaning and disinfection of heavy duty gloves	
	Perform hand hygiene	
	• Clean with soap/detergent and water with attention to the removal of any	
	organic debris	
	• Soak heavy duty gloves in a bucket of 0.2% Chorine solution for 10	
	minutes	
	Rinse with clean water	
	• Hang gloves upside down position (fingers up and cuff down) to dry	
	• Pour away used 0.2% Chlorine solution and detergent/water used for	
	cleaning and disinfection	
	Perform hand hygiene	
	Reusable face shields/goggles may be decontaminated by cleaning and disinfection	
	immediately after appropriate doffing and hand hygiene is performed OR placed in a	
	designated closed container for later cleaning and disinfection.	
	Cleaning and disinfection of face shield/goggles	
	• Perform hand hygiene.	



•	Clean and disinfect surface where the face shield will be cleaned with 0.2%
	Chlorine solution.
•	Clean with soap/detergent and water using a clean cloth with attention to
	the removal of any organic debris on the face shield or elastics
•	Allow time for face shield to dry
•	Wipe face shield with a clean cloth or wipe using 70%-90% alcohol or
	0.2% Chlorine solution
	- If 70% alcohol is used, allow for at least 1-minute contact time
	before returning eye protection to clinical use.
	- If 0.2% Chlorine solution is used, allow contact time of 10 min,
	rinse with clean water, and allow to dry before returning eye/face
	protection to clinical use.
•	Perform hand hygiene
Gumboots: S	Should be placed in a designated closed container for later cleaning and
disinfection.	
Cleaning and	l disinfection of gumboots
•	Perform hand hygiene
•	Clean with soap/detergent and water with attention to the removal of any
	organic debris using a brush
•	Soak gumboots in a bucket of 0.2% Chlorine solution for 10 minutes
•	Rinse with clean water
•	Hang gumboots upside down position (foot up and cuff down) to dry
•	Pour away used 0.2% Chlorine solution and detergent/water used for
	cleaning and disinfection
•	Perform hand hygiene
To assess aft	er cleaning and disinfection of reusable PPE:
•	Is the functional shape and integrity of the PPE maintained (e.g. are there
	any tears/stains/damage to the heavy duty gloves)?
•	Is there damage to the function of the PPE (e.g. are the elastics/plastic of the
	face shield intact/is there degradation in visibility?)



• Discard reusable PPE where there is degradation to its function or where it
cannot be returned to clean/usable condition

References

- 1. WHO Standard Precautions for the Prevention and Control of Infections: Aide-Memoire
- 2. <u>OpenWHO Standard precautions: The role of personal protective equipment</u>
- 3. GTFCC Cholera Outbreak Response Field Manual



4 Management of Guardians

4.1	Objective	This SOP describes the procedures for managing visitors and guardians in
		cholera treatment centres (CTC) or cholera treatment units (CTU)
4.2	Key concepts	The well-being of patients is essential to their recovery, making allowances
	involved	for interaction with family and visitors essential to promoting well-being.
		The management of visitors/guardians is important to ensure safety and
		prevent infection.
4.3	Material	Hand hygiene stations
	required	• Soap and clean water
		• OR Alcohol-based hand rub
		• OR 0.05% chlorine solution if the above not available
4.4	PPE required	Examination gloves
		• Fluid resistant gown
4.5	Responsibilities	• guardians
	-	• CTC/CTUstaff
4.6	Considerations	• Limit access to CTC/CTU to one guardian per patient.
4.7	Management of g	uardians in cholera treatment centres
Step		Action
1.	. o All gu	ardians should be screened for signs and symptoms of acute watery diarrhea
	before	e entrance to the CTC/CTU utilizing agreed case definitions and screening
	tools.	
2.	• All gu	ardians should perform hand hygiene upon entry to the CTC/CTU with soap
	and sa	fe water, or Alcohol-Based Hand Rub (ABHR). When neither soap and safe
	water,	or ABHR is available, water treated with a 0.05% chlorine solution should
	be use	ed.
3.	· o To mi	nimize risk of infection, guardians should be briefed and oriented on the
	CTC/0	CTU including:
/ersion	 	April 2023 23



	 The different areas of the structure (such as patient treatment areas and
	areas for staff only) and flow.
	 The entry and exit points.
	 Location of latrines and baths/showers for patients.
	 Location of latrines for visitors/guardians.
	 When to perform hand hygiene.
	 How to perform hand hygiene, including display of correct technique.
	 Risk assessment for appropriate use of PPE and how to put on and safely
	remove PPE.
	 Minimize contact with the patient's waste
	 Minimize contact with other patients and visitors/guardians
	 Waste management
	 Laundry management
	 Food hygiene
	• Cooked food should be eaten hot.
	• Food handlers should follow strict hygiene practices.
	• No leftover food should be taken home by patients, guardians or
	staff. It should be disposed of on site.
4.	Guardians who are providing care or having close contact (e.g. assisting with food,
	holding) should use PPE where indicated by risk assessment (e.g. if there is a body fluid
	exposure risk from patient or patient environment, examination gloves should be worn; if
	visitor/guardian come into contact with soiled bedsheets and/or buckets used for
	diarrhea/vomiting then a fluid resistant gown and examination gloves should be worn).
5.	• All guardians should perform hand hygiene at the following times:
	• On entry
	 Before and after taking care of the patient
	 After touching the patients' surroundings (patient environment)
	- After touching the patients' surroundings (patient environment)
	 After using latrines



	• Hand hygiene should be performed with soap and safe water, or an approved
	alcohol-based hand rub (ABHR). When neither soap and safe water, or ABHR is
	available, water treated with a 0.05% chlorine solution should be used.
6.	• Prior to leaving the CTC
	 Remove PPE and dispose appropriately
	 Perform hand hygiene

References

<u>GTFCC Technical Note on WASH and IPC</u> <u>GTFCC Cholera Outbreak Response Field Manual</u>



5 Dead body mangement during cholera outbreaks



5.1	Objective	This SOP describes the procedures for dead body management during a
5.1	Objective	cholera/AWD outbreak at CTC/CTUs and within the community.
5.2	Vay concerts	Bodies of people who have died of cholera pose a risk of transmission
5.2	Key concepts involved	because body fluids contain high concentrations of <i>V. cholerae</i> . To prevent
		the spread of cholera, handling of dead bodies should be kept to a
		minimum and burial should take place as quickly as possible (preferably
		within 24 hours after death).
5.3	Material	Soap and clean water for hand hygiene
	required	• OR 0.05% Chlorine solution
		• 2% Chlorine solution (labelled)
		• 0.2% Chlorine solution (labelled)
		• Soap and clean water for cleaning/disinfection
		• Buckets
		Clothes/towel for cleaning/disinfection
		• Infectious waste bags, waste bins and liners
		Body bag
		Cotton wool
		• Wasters, towels
		• Pair of scissors
		• Stretcher
5.4	PPE required	Heavy duty gloves
	•	Examination gloves
		• Fluid resistant gown
		• Fluid resistant apron
		Medical mask
		• Face shield
		Heavy duty apron
		• Gumboots
5.5	Responsibilities	Burial team staff



5.6	Considerations	As the bodies of deceased cholera patients are infectious, some of the
		traditional burial and ritual practices require adaptation, to ensure that
		family members and funeral participants can say goodbye to loved ones
		without being exposed to cholera. Preparation of the corpse must be done
		by a trained staff member wearing appropriate PPE.
5.7	Procedures for de	ead body management
Step		Action (for community death)
1.	Arrival	
	• On arrival sta	ff should not be wearing PPE. Greet the family and offer your condolences
	before unload	ling the necessary material from the vehicles.
2.	Prepare burial	with family
	• Reque	est respectfully for a family representative. Always consider social, cultural,
	and re	ligious beliefs and practices. The family must be fully informed about the
	dignif	ied burial process and their religious and personal rights. Ensure that they
	agree	to all modifications of cultural practices before starting the burial.
	Prope	se to one or two family members to witness the preparation activities of the
	body	of the deceased patient on behalf of the other family members.
	• Ask the second	he family witness if there are any specific requests from the family or
	comm	nunity, for example, about the personal belongings of the deceased.
	• Allow	the family witness, family members to take pictures of the preparation and
	burial	
3.	Put on PPE	
	o Peopl	e conducting the burial should put on PPE - gloves, a medical mask, face
	shield	, and a fluid resistant gown and gumboots
4.	Prepare chlorin	e solution
	Lay out and orga	nise all materials/equipment on plastic sheeting outside the house and
	prepare the chlor	inated water (table 4 for chlorine preparation for different concentration)
5.	Prepare the bod	y
	o Locat	e the room where the body of the deceased patient is, open the windows
	and d	oors for optimal light and ventilation.
	1	A



 for burial. They must be informed of how to protect themselves from infection and be provided with necessary PPE and hand washing facilities. Families may be invited to view the body if there is sufficient space to ensure infection control. The body should be disinfected by washing with 2% chlorine solution, using a sponge. Sprayers should not be used to "disinfect" a corpse. Intestines should not be emptied. Put cotton wool soaked in 2% chlorine solution in all orifices (nose, mouth, ears, vagina, anus) Immediately place the body in a body bag. If body bag is not available, an absorbent cloth or towel, soaked in a 2% chlorine solution, can be used to wrap the body (as needed). Whatever is used to wrap the body should particularly be placed under head and buttocks to absorb potential fluids during transport. Ferform cleaning and disinfection Identify with the family, the rooms and annexes (bathroom, toilet) that were used by the deceased patient as they need to be cleaned and disinfected. People conducting the burial should collect soiled objects for disinfection (or burning if unable to disinfect) and perform cleaning and disinfection of the environment. Cholera waste: Stool and vomit from the deceased should be decontaminated with 2% chlorine solution. Buckets should be carefully transported and emptied preferably into a latrine. The bucket should be washed with soap and water with focus on removing all visible organic debris, followed by disinfection with a separate clean cloth soaked in 0.2% chlorine solution. Clean surfaces and mattresses with soap and water with focus on removing all visible organic debris, followed by disinfection with a separate clean cloth soaked in 0.2% chlorine solution and leave to dry for at least 10 minutes contact time. 		0	If requested, family members may be present during the preparation of the body
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			visible organic debris, followed by disinfection with a separate clean cloth soaked
\circ Disinfect the deceased patient's clothing and bedding with the appropriate chlorine			in 0.2% chlorine solution and leave to dry for at least 10 minutes contact time.
		0	Disinfect the deceased patient's clothing and bedding with the appropriate chlorine
solution (0.2%) .			solution (0.2%).
7. Removal of PPE	7.]	Removal	of PPE



0	Once the house has been cleaned and disinfected, and all potentially infectious
	elements removed, the following steps should be taken:
	 Remove PPE according to procedure (see annexe 6).
	 Place the single-use PPE in an appropriate waste bag, prepared by
	the supervisor. The bag will be closed and disinfected and brought to a
	designated place where it will be burned.
	 Place any reusable material or equipment in a bucket wash with soap and
	water and then disinfect with 0.2% chlorine solution giving a contact time
	of 10 minutes.
	 Place the reusable materials to dry.
	 Perform hand hygiene.
8. Transpor	t the coffin or body bag to the cemetery
0	The coffin is placed (delicately) on the platform of the vehicle that will serve as
	the hearse, usually the head towards the front
0	Respect the time of grieving, possibly with a speech about the deceased
	and religious songs (chants) to aid the departure of the deceased to the cemetery,
	according to local cultural and religious beliefs/habits
0	During the departure of the funeral procession to the cemetery, some family
	members might be on rear of the vehicle with the coffin
0	No family member should sit in the vehicle cabin. Only the people conducting the
	burial, without PPE (including gloves), should sit in the vehicle cabin
0	The other participants of the funeral may follow behind the car at walking pace.
9. Placemen	t of the coffin or the body bag to the cemetery
0	The body should be buried at least 50 meters from a water source and at least 1.5
	meters deep.
0	Manually carry the coffin or body bag to the grave, which is already prepared,
	followed by the funeral participants
0	Place the coffin or body bag into the grave
10 Burial at	the cemetery



	0	Respect the time required for prayers and funeral speeches. Family members and
		their assistants should be allowed to be close the grave
	0	Place an identification on the grave (name of the deceased and the date) and a
		religious symbol if requested
	0	Clean hands using alcohol hand rub (OR soap and water OR 0.05% chlorine
		solution) immediately after removing gloves
	0	Family and all persons attending the burial to clean hands with the burial (using
		alcohol-based hand-rub solution OR soap and water OR 0.05% chlorine solution).
	0	Avoid serving food at the funeral. If food is served, it should be eaten hot and hand
		washing should be compulsory before eating or preparing food. A designated
		health worker present at the funeral gathering can be helpful in supervising and
		supporting the use of hygienic practices.
	0	Avoid hand washing in a single common hand dipping bowel, instead all hand
		washing should be under running water.
5.8	Procedure	s for dead body management within the CTC
1	0	Ensure staff involved in body transport and preparation are trained and wearing the
		correct PPE – fluid resistant gown, medical mask, face shield, heavy duty gloves
		and gumboots.
2	0	Move the body to the morgue for body preparation – this should be done by at
		least 2 staff utilizing a stretcher. Following transfer, the stretcher should be
		disinfected with 0.2% chlorine solution.
3	Prepare the body	
	0	The health workers should invite at least two family members to be present during
		the preparation of the body for burial. They must be informed of how to protect
		themselves from infection and be provided with necessary personal protective
		equipment and hand washing facilities
	0	The body should be disinfected by washing with 2% chlorine solution, using a
		sponge. Sprayers should not be used to "disinfect" a corpse. Intestines should not
		be emptied.
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		Dut action wool acaled in 20/ shlaring achieve in all arificas (nose mouth com	
	0	Put cotton wool soaked in 2% chlorine solution in all orifices (nose, mouth, ears,	
		vagina, anus)	
	0	Immediately place the body in a body bag. If not available, an absorbent cloth or	
		towel, soaked in a 2% chlorine solution, can be used to wrap the body (as needed).	
		Whatever is used to wrap the body should particularly be placed under head and	
		buttocks to absorb potential fluids during transport.	
4	Transportation and burial		
	0	The body should be buried in a location decided by the family within 24 hours	
		period after death. The body should be buried at least 50 meters from a water	
		source and at least 1.5 meters deep (see section above).	
5	Perform cleaning and disinfection		
	0	Cholera waste: Stool and vomit from cholera patients should be collected in	
		specific buckets under the cholera bed or next to the head of the bed. The cholera	
		waste should be treated with a 2% chlorine solution. Buckets should be carefully	
		transported and emptied preferably into a dedicated pit for this purpose. If a	
		dedicated pit is not possible, a patient latrine can be used for cholera waste.	
	0	Clean surfaces and cholera beds with soap and water with focus on removing all	
		visible organic debris, followed by disinfection with a separate clean cloth soaked	
		in 0.2% chlorine solution and leave to dry for at least 10 minutes contact time.	

References

<u>GTFCC Technical Note on WASH and IPC</u> <u>GTFCC Cholera Outbreak Response Field Manual</u>



6 Linen management



6.1	Objective	This standard operating procedure (SOP) describes the linen management
	·	in the CTC/CTU to reduce transmission of cholera from contaminated of
		linen
6.2	Key concepts involved	A CTC laundry room handles 3 categories of laundry
		– Staff PPE (clothing, rubber gloves, boots etc.)
		– Hospital laundry (sheets, blankets)
		– Patients'/attendants' laundry
		PPE is changed every day and each time it is soiled.
		Hospital laundry is changed when soiled and on patient discharge.
		Patient and attendant clothing is changed when soiled.
		Patient/attendant clothing must not be sprayed with chlorine before being
		taken to the laundry room.
		Soiled PPE, hospital laundry and patient/attendant laundry are infectious
6.3	Material	• Soap and clean water for hand hygiene (0.05% chlorine solution)
	required	• Waste bin for disposal of single use PPE
		• Basins
		Buckets for clean linen
		Buckets for reusable PPE
		Buckets for contaminated linen
		Buckets for cleaning and disinfection of reusable PPE
		Drying lines
		• 0.2% chlorine solution for decontamination of reusable PPE (i.e.
		gumboots, heavy duty gloves and aprons) and linen
		• Brushes
		Detergent for linen washing



6.4 I	PPE required	Heavy duty gloves
		Heavy duty aprons
		• Fluid resistant gown
		• A face mask (E.g. : respirator and surgical mask)
		• Face shield (single-use or reusable)
		• Gumboots
6.5 F	Responsibilities	Health care personnel: all people, paid and unpaid, in a health care setting
0.5	Acsponsibilities	who have direct patient handling of linen.
		Guardian attending to the patients may clean linen.
6.6	Considerations	• All persons handling linen must be trained, supervised and monitored
		• Disinfection contact time should be observed
		• Linen should be drying on hanging lines
		• Linen laundering should be conducted in a designated area
		• A soak away pit should be provided for waste water
		• If available washing machines and driers are preferred option
		• Patient clothes should be washed separately from any other linen
		• All linen from CTC/CTUs should be decontaminated before leaving
		the CTC/CTU premises
		• Consider a unidirectional flow of linen during the laundering process
Step		Action
1	Ensure staff invo	olved in linen management are trained and wearing the correct PPE – fluid
	resistant gown, i	medical mask, face shield, heavy duty gloves and gumboots. (see annex 5
	for donning proc	cedure) after performing hand hygiene
2	Transport the lir	nen in leak proof container
3	Perform a risk a	ssessment of the linen to separate grossly soiled from the less soiled linen.
	Remove	all gross soiling from linen and dispose of into the latrine
	• Be caref	ul while handling to avoid injuries from sharps that might be in the linen
4	Then wash linen	starting with the less soiled linen and finally the more grossly soiled linen



•	Clean with soap/detergent and water with attention to the removal of any organic
	debris
•	Soak linen in a bucket of 0.2% Chlorine solution for 10 minutes
•	Rinse with clean water
•	Hang linen on the hanging lines
•	Pour away used 0.2% Chlorine solution and detergent/water used for cleaning and
	disinfection into the soak away pit
•	Remove all PPE according to procedure (see annex 6 for doffing procedure)
•	Perform hand hygiene

Reference

WHO Standard Precautions for the Prevention and Control of Infections: Aide-Memoire

Open WHO - Standard precautions: Linen Management

GTFCC Cholera Outbreak Response Field Manual


7 Environmental cleaning



7.1	Objective	This standard operating procedure (SOP) describes the environmental				
	·	cleaning for all spaces in the CTC/CTUs as a measure to reduce				
		transmission of cholera				
7.2	Key concepts	Environmental hygiene is key in reducing the risk of transmission of				
	involved	cholera in the CTC/CTU				
		The cleaning of premises includes all patient zones, all areas of the				
		"clean" zone (administration, changing rooms, stock rooms, etc.) and the				
		outside areas of the CTC				
7.3	Material	Soap and clean water for hand hygiene or 0.05% chlorine solution				
	required	• Waste bin for disposal of single use PPE				
		• Basins				
		Buckets for clean linen				
		Buckets for reusable PPE				
		Buckets for contaminated linen				
		Buckets for cleaning and disinfection of reusable PPE				
		• 0.2% chlorine solution				
		• Brushes				
		• Mops				
		• Detergent				
		• Wasters				
		Warning signage				
		• Cleaning schedule and checklist (See annex 8 for cleaning schedule				
		and annex 9 for cleaning checklist)				
7.4	PPE required	Heavy duty gloves				
		Heavy duty aprons				
		• Fluid resistant gown				
		• A face mask (E.g. : respirator and surgical mask)				
		• Face shield (single-use or reusable)				
		• Gumboots				



7.5	Responsibilities Hospital attendants: all people, paid and unpaid, in a health care setting			
7.5	Responsibilities	who are involved in environmental cleaning.		
7.6	Considerations	Wear appropriate PPE		
		Clean before disinfection		
		Don't spray		
		Do not dry sweep consider dump dusting		
		Allows clean from top to bottom		
		Always work from clean to dirty		
		Clean patients' areas before patients' toilets.		
		• Low-touch surfaces before high-touch surfaces.		
		• Clean high-touch surfaces outside the patient zone before high-touch		
		surfaces inside the patient zone		
		Clean environmental surfaces before cleaning floors		
		• Always use the figure of 8 technique		
		• Always follow the cleaning schedule for different places in the		
	CTC/CTU (see annex 8 for cleaning schedules)			
Step	Action			
1	Ensure staff invo	olved in environmental cleaning are trained and wearing the correct PPE –		
	fluid resistant gown, medical mask, face shield, heavy duty gloves and gumboots. (see annex			
	5 for donning pro	cedure) after performing hand hygiene		
2	Clear the area and	d place the wet caution sign		
3	Prepare the clean	ing materials (buckets, detergent, disinfectant) and start the cleaning process		
	• Be careful	l while handling to avoid injuries from sharps that might be in the linen		
	• Fill one bucket with detergent and water, one bucket with			
	0.2% Chlorine solution and one bucket with plain clean water.			
	Immerse t	 Immerse the mop in the cleaning solution bucket and wring out with heavy pressure. 		
	 The mop should be damp not dripping wet. 			
		m x 3m area and let the area dry		
		·		
	• Rinse the mop thoroughly in the rinse bucket.			



	• Wring out over the rinse bucket before dipping it back in the cleaning solution.	
	• Change rinsing water frequently when it appears dirt	
	• Apply disinfectant in the same manner	
	• Clean and disinfect the cleaning materials (mops and buckets) with soap and water	
	then disinfect with 0.2% chlorine	
	• Fully immersing the items in chlorine 0.2% for the 10 minutes contact time and rinse	
	with clean water to remove chlorine residue.	
	• Store mops upside down to allow complete draining and drying.	
4	Remove all PPE used while cleaning	
5	Perform hand hygiene	

References

GTFCC Technical Note on WASH and IPC

GTFCC Cholera Outbreak Response Field Manual



8 Decontamination of Vehicles (bicycles, motorcycles, cars, wheelbarrows)



8.I	Objective	This standard operating procedure (SOP) describes the handling and					
	·	decontamination of all vehicles used to deliver patients to the facility. This					
		also included vehicles used to transport the deceased					
8.2	Key concepts	Vehicles used on transportation of patients can be a source of transmission					
	involved	of cholera and therefore should be proper decontaminated to reduce the risk					
		of transmission.					
		Vehicles in this case include; bicycles, motorcycles, cars, wheelbarrows					
		both person and public.					
8.3	Material	• Soap and clean water for hand hygiene or 0.05% chlorine solution					
	required	• Waste bin for disposal of single use PPE					
		• Basins					
		Buckets for reusable PPE					
		Buckets for contaminated linen					
		Buckets for cleaning and disinfection					
		• 0.2% chlorine solution					
		• Brushes					
		• Detergent					
		• Wasters					
		• Signage					
		Clean water					
8.4	PPE required	Heavy duty gloves					
	-	Heavy duty aprons					
		Fluid resistant gown					
		• A face mask (E.g. : respirator and surgical mask)					
		• Face shield (single-use or reusable)					
		• Gumboots					
8.5	Responsibilities	Hospital attendants: all people, paid and unpaid, in a health care setting who					
0.0	responsibilities	are involved in environmental cleaning.					
		IPC focal points who monitors all decontamination processs					



8.6	Considerations	Wear appropriate PPE	
		Clean before disinfection	
		• Spraying inside or outside the vehicles is NOT recommended .	
		• Clean and disinfect both the inside and outside of the car	
		• Decontamination of vehicles should be done in a designated area	
		• All sorts of vehicles (bicycles, motorcycles, cars, wheelbarrows both	
		person and public) must be decontaminated after transporting a cholera	
		case	
		• Each CTC/CTU must have a decontamination area for all vehicles	
		transporting patients	
Step		Action	
1	Ensure staff involve	ved in vehicle decontamination are trained and wearing the correct PPE -	
fluid resistant gown, medical mask, face shield, heavy duty gloves and gumboots. (see		n, medical mask, face shield, heavy duty gloves and gumboots. (see annex 5	
	for donning procedure) after performing hand hygiene		
2	Prepare the cleaning materials (buckets, detergent, disinfectant)		
3	Clean the interior of the vehicle following the steps below		
	• Gather required cleaning and disinfection equipment, bucket with water and detergent		
	bucket with	h rinsing water and bottle with chlorine solution 0.2%. By default, these	
	materials sl	hould be located in the Red zone and remain there.	
	• Don in app	propriate PPE; Fluid resistant gown, face shield, medical mask, heavy duty	
	apron, rubb	er household gloves.	
	• Open ALL doors of the car to maintain good ventilation while cleaning as		
	decontamin	nating.	
	• Start with carefully removing all waste in infectious waste bag and sharps in sharps bo		
	if any.		
	• Carefully bag all dirty linen such as blankets and sheets and send for decontamination i		
	the laundry	area. Avoid any shaking of the linen in the process.	
	Disinfect th	ne outside of the bag with a damp cloth with 0.2% chlorine solution	



- Proceed with cleaning and disinfecting **All** visible surfaces, especially **High Touch** surfaces (e.g. stretcher, mattresses, rails, control panels, horizontal surfaces in the car, as well as fixtures, seats, handles and fittings, floors and walls).
- Adopt an organized cleaning and disinfection process from the ceiling of the car to the floor and from cleaner to dirtier areas.
- Use a solution of detergent and water, with cleaning cloths/rag (reusable clothes should be laundered and dried between each use). Ensure a adequate supply of cleaning cloths/rags.
- Following cleaning, disinfect all surfaces with a 0.2% chorine solution for 10 minutes them wipe with clean water. Use 70% isopropyl alcohol for metallic surfaces
- Mop the floor with detergent and water then disinfection with a 0.2% chlorine solution and allow a contact time of 10 minutes
- Rinse off the chlorine on the car floor with a mop soaked in clean water

References

<u>GTFCC Technical Note on WASH and IPC</u> <u>GTFCC Cholera Outbreak Response Field Manual</u>



9 Food hygiene



9.1	Objective	This guidance describes the key consideration and handling of food in the			
	·	CTC/CTU			
9.2	Key concepts	Cholera being a faecal – oral route disease, food hygiene is key in			
involved		reducing the risk of spreading of the infection within the CTC/CTU			
9.3	Material required	• Soap and clean water for hand hygiene or 0.05% chlorine solution			
		Buckets for cleaning utensils			
		• 0.2% chlorine solution			
		• Detergent			
		Cleaning diseases			
		Energy source			
		Clean water			
		Waste bins			
		Utensils drying rack			
		• Five keys to safer food poster			
9.4	Responsibilities	Hospital attendants: all people, paid and unpaid, in a health care setting			
	•	who are involved in food handling.			
		Guardians who support patients in feeding and cleaning of utensils			
		Guardians who support patients in recurs and creating of utensits			
		IPC focal points who monitors all food hygiene in the CTC/CTU			



9.5	• All food handlers (out sourced caterers, health workers, guardia			
		should be sensitized on the Five keys to safer food (See Annex 10)		
		• Access to the kitchen and food stores, as well as the handling of food		
		and distribution of meals, is reserved to kitchen staff only		
		• Perform hand washing before preparing and serving food		
		• Use only potable water stored in containers with lids and taps for		
		washing and preparing food.		
		• After meals: discard leftovers, do not keep prepared food,		
		• Do not let food out of the CTC/CTU.		
		• All foods must be thoroughly cooked		
All cooked food must be eaten hot				
		• All fruits and vegetables should be washed thoroughly with clean and		
		safe water before eating.		
		• All out source catering services must provide hot meals and food		
	brought in covered containers			
	• All food coming in from home should be in covered containers and i			
		possible brought in hot or reheated before eating if possible		
		• Patients should not share common eating in the same plate with		
	guardian			
	• Guardians should eat from outside the patient wards			
	• Reheat all cooked cold food before eating			
		• Display the key messages on food safety e.g. Key to safer food poster		
	in all easily visible areas in the CTC/CTU as reminders			
	• Wash all utensils used for eating in the CTC/CTU in a designated ar			
	before they leave the premises following the steps below			
Step	p Action for decontamination of utensils			
1	Gather all the washing materials (soap, water, buckets,0.2% chlorine solution)			
2	Wash the utensils (cups, plates, spoons, forks, knives, etc.) using soap wash and the scrubbing		
	sponge			

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3	Rinse the utensils using clean and safe water thoroughly to remove all soap	
4	Soak the utensils in 0.2% chlorine solution for 10 minutes	
5	Rinse the utensils using clean and safe water thoroughly to remove all chlorine	
6	Place the utensils on the drying rack and allow to drip completely dry	
7	Store the utensils in a covered container to avoid exposure to vectors and other sources of contamination	
8	Perform hand hygiene after washing the utensils	

References

GTFCC Technical Note on WASH and IPC

GTFCC Cholera Outbreak Response Field Manual



10 Chlorine solution preparation and use



10.1	Objective	This standard operating procedure (SOP) describes the chlorine preparation,				
		its storage and different uses in the CTC/CTU				
10.2	Key concepts	Chlorine solution is majorly used for different purposes in the CTC/CTUs				
	involved	including in treatment of water, disinfection of surfaces, bodies, vehicles,				
		reusable PPE. The Chlorine solution is also used in hand hygiene, patient				
		care equipment and environment. It is therefore vital in control of cholera				
		transmission and must be given the appropriate preparation measures and				
		procedures.				
10.3	Material required	Chlorine based products				
	•	• Drums with air tight covers				
		• Mixing sticks (none metallic)				
		• Protocols				
		• PPE (heavy duty gloves, industrial mask/N95, heavy duty apron,				
		goggles, boots)				
		• Hand washing materials (soap, water or 0.05% chlorine)				
		• buckets				
10.4	PPE required	Heavy duty gloves				
		• Heavy duty aprons				
		• Fluid resistant gown				
		• A face mask (E.g. : respirator and surgical mask)				
		• Face shield (single-use or reusable)				
		• Gumboots				
10.5	Responsibilities	Hospital attendants: all people, paid and unpaid, in a health care setting				
		who are involved in environmental cleaning.				
		IPC focal points who monitors all decontamination processs				



		• Chlorine solution should be available at all times in the CTU			
10.6	Considerations				
		• Chlorine solutions are inactivated by the presence of organic matter			
		(such as blood and other biological liquids, secretions or excreta, or			
		dirt).			
		• Clean objects, floors, surfaces, laundry with detergent and water before			
		applying chlorine solution.			
		• Display the protocol on the preparation of chlorine solutions in all			
		CTC/CTU chlorine preparation areas.			
		• Work in a well-ventilated room or, better still, outside in the shade but			
		protected from the wind.			
		• Wear personal protective equipment when preparing chlorine solutions			
		• Prepare solutions with clean, cold (or room temperature) water, in			
	plastic containers only				
		• Respect and follow recommended concentrations for the different uses			
		(an over-diluted product is less active; an over-concentrated product			
		can cause irritation and corrosion). (Refer to table 3 and 4 below for			
	different chlorine solution concentration uses and how to make the				
	different concentrations respectively)				
	• Wait for 30 minutes after mixing any concentration of chlorine solution				
	before use				
	• Disinfection using chlorine solution requires contact time of different				
		duration depending on the strength of the solution and this should			
		always be observed.			
	• Steps for Chlorine preparation are described below				
Step	Action for chlorine preparation				
1	Staff involved in chlorine preparation be trained and wearing the correct PPE –elastomeric				
	mask/industrial mask/respirator, face shield/goggles, heavy duty gloves heavy duty apron and				
	gumboots. (see anno	ex 5 for donning procedure) after performing hand hygiene			
2	Gather Chlorine sol	ution preparation materials			
3	Prepare the chlorine	e solution of desired concentration			

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•	Pour the required amount of water required into a container into a Use CLEAN water cold
	(or room temperature) water, NO metal (corrosion of metal, inactivates chlorine).
•	Measure the required chlorine amount with different measuring containers as deemed
	applicable
•	Add the Chlorine product as per volume required to the water without splashing.
•	NEVER pour water directly into chlorine this can explode !
•	Stir using a clean wooden/bamboo stirrer dedicated only for this purpose (no metal!).
•	Stir for 10 seconds or until the chlorine product is dissolved.
•	Leave for 30 minutes, thereafter it is ready for usage.
•	Label the containers (0.05%, 0.2%, 1% and 2%), specifying the chlorine concentration,
	date and time of preparation and discard.
•	Discard 0.05% chlorine solution after 4 hours, 0.2 after 12 hours, 1 % and 2% after 72
	hours.
•	DO NOT add or mix any other product (e.g. a detergent) to chlorine solutions.
•	Store in air-tight non-metallic containers, away from heat, light and humidity in a
	ventilated area.
•	Carefully close containers after use.
Ca	ution : Never place them in contact with water, acid, fuel, detergents, organic or
inf	lammable materials (e.g. food, paper or cigarettes)
Ne	ever mix NaDCC with calcium hypochlorite (risk of toxic gas or explosion)

10.7 *Table 3*: Prepared solutions and uses

Solution	0.05%	0.2%	2%	1%

4



Use	Hand washing	Disinfection of	Décontamination of	Stock solution for
		floors, surfaces,	corpses	chlorinating
		materials,	Excreta and vomit	water
		aprons, boots,	buckets	
		dishes and laundry		
		(after cleaning)		

10.8 *Table 4*: Preparing Chlorine solutions from Powder form of chlorine products in 20L of water using a tablespoon

Active chlorine	Desired concentration and number of table spoons for 20 Litres			
in product				
	0.05%	0.2%	1%	2%
35%	2	8	38	76
	(table spoons)	(table spoons)	(table spoons)	(table spoons)
65%	1	4	21	41
	(table spoon)	(table spoons)	(table spoons)	(table spoons)
68%	1	4	20	39
	(table spoon)	(table spoons)	(table spoons)	(table spoons)
70%	1	4	19	38
	(table spoon)	(table spoons)	(table spoons)	(table spoons)

10.9 Foot baths containing 0.2% chlorine solution:

Foot baths should be considered for all exits from the CTC/CTU

The chlorine solution in the footbath should be poured away each time it is visible turbid and a new solution replaced

All persons leaving the CTC/CTU should step in the chlorine foot bath and stand for at least one minute to allow for contact before stepping out of the footbath

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	Key Considerations		
II.I Water Quantity	A large amount of water is required for:		
	– The preparation of ORS and human consumption (drinking		
	cooking).		
	- Hand-washing and personal hygiene of patients and attendants.		
	- Cleaning and disinfection of objects, floors, surfaces and laundry		
	60 litres per day per patient are needed to cover patient, attendant and		
	staff needs as well as cleaning the facility. This volume is given as an		
	indication.		
	Reserve supply on-site to cover at least 3 days of activity. For example		
	for a CTC with 50 patients present: 60 (litres) x 50 (patients) = 3000		
	litres of water/day x 3 (days) = 9000 litres of water The CTC needs to		
	have at least 9000 litres of water available every day		
11.2 Water Quality	Check all prechlorinated water for free residual chlorine and if not		
	present in the recommended amounts (0.2-0.5 mg/litre) add 1% stock		
	solution (1 tea spoon in 20 ltrs of water) to the water		
	For water sources that are not prechlrorinated like boreholes, wells, add		
	1% stock solution (1 tea spoon in 20 ltrs of water) to the water		
	Wait for 30 minutes then use the water		
	The Turbidity should be under 5 NTU		
	The FRC concentration at all distributions points should be 0.5 mg/litre		
	after a contact time of 30 minutes		
	The PH of the water should be < 8		

II Water Supply

References



<u>GTFCC Technical Note on WASH and IPC</u> <u>GTFCC Cholera Outbreak Response Field Manual</u>



12 Waste Management -Solid Waste



12.1 Objective	This SOP describes the key concepts and consideration in management of		
	all solid wastes generated in the CTC/CTU		
12.2 Key concepts	Waste can be a source of transmission of infections within the CTC and		
involved	the community if not handled properly. As a standard precaution		
	therefore, all solid wastes should be appropriately handled to reduce risks		
	of cholera transmission		
12.3 PPE required	PPE for Staff Managing Waste :		
-	Goggles/Shield		
	Medical mask		
	• Gown		
	Heavy duty gloves		
	Heavy duty apron		
	Gum Boots		
	PPE for Incinerator Operator :		
	Goggles/Shield		
	• Leather Gloves – anti thermal		
	• Elastomeric Full or Half face mask with P100 filter		
	• Fire resistant apron		
	• Safety boots (puncture resistant)		



12.4 Material required	Waste segregation receptacle in green zone	
	Black bin with lid (Marked separately for GENERAL &	
	ORGANIC (food)).	
	• Yellow plastic bin with lid with biohazard sign (Marked	
	INFECTIOUS)	
	Waste segregation receptacle in red zone	
	Black bin with lid (Marked separately for GENERAL &	
	ORGANIC (food)).	
	• Yellow plastic bin with lid with biohazard sign (Marked	
	INFECTIOUS)	
	• Red Plastic bucket with lid (anatomical and pathological waste	
	e.g. placenta)	
	• Sharp's box, (Marked SHARPS) with biohazard symbol,	
	Puncture-proof	
	Bin liners (Black, yellow, liners)	
	Waste management site equipment:	
	Incinerator	
	• Residue (ash) pit	
	• Organic waste pit/food waste pit/rubbish pit	
	Placenta pit	
	• Sharps pit with safety box reducer (desirable)	
	• Vial crusher	
	• Shovel	
	Hard broom	
	• Diesel	
	• Large storage bins for waste (color coded and clearly labelled)	
	• Weighing scale and register book	
	• Waste trollies	
	Cleaning the waste bins	



• Washing area (with proper drainage)
• Detergent
• 0.2% chlorine
• Brushes
• Drying area for the waste bins and other equipment
Hand washing facilities (soap, waster or 0.05% Chlorine Solution)
IEC materials (waste segregation, signs, etc.)



12.5 Responsibilities	Hospital attendants, ground laborers, incinerator operators: all people,	
-	paid and unpaid, in a health care setting who are involved in handling of	
	waste.	
	Guardians who support patients in CTC	
	IPC focal points who monitors waste management in CTC/CTU	



12.6 Considerations	• All waste handlers should be trained on the SOP of waste	
	management	
	Health care waste generated at CTC/CTU requires special	
	consideration and should by default be managed on site	
	Correct Health Care Waste Management (HCWM) includes the	
	following "technical" steps:	
	• Minimization of waste generation	
	• Segregation at the point of generation	
	• Collection	
	• Transport	
	o Storage	
	• Treatment	
	 And/or final disposal 	
	• To all considerable extents possible CTC/CTU should minimize the	
	generation of waste (including reducing unnecessary use of PPE,	
	reducing entrance of plastic bags used for food, excess foods and	
	having reusable containers as opposed to one time use for food.)	
	All waste handlers should use appropriate PPE according to risk	
	assessment	
	All staff managing waste should be vaccinated for Hepatitis B,	
	Tetanus and OCV.	
	Avail Staff roaster for waste management	
	• Ensure availability of appropriate PPE (for all uses and sizes)	
	• Ensure all staff involved in waste management are trained on	
	Accidental Exposure to Blood and body fluids (AEB)	
	Ensure AEB job aids are available in the waste management area.	
	The waste management area should be fenced off and only accessed	
	by authorized personal only	
Step	Action for Waste collection	



• Empty waste receptacles when ³ / ₄ full. DO NOT overfill the bin or bin liner. DO NOT use			
r, j			
pressure with hands or stick to push waste further in the bin liner, this can create aerosols			
and potentially cause injury.			
• All the point of care bins should be emptied to larger bins in the storage area.			
• Follow the steps in annex 12 for removing bin liner			
• DO NOT use staples or metal coils for sealing of plastic bags to prevent injury or			
damaging other plastic bags. Instead use cable tie using the "Swan-Neck" sealing method.			
• Upon collection immediately, replace bin liners. If the bin is dirty clean and disinfect bin			
and place new bin liner			
• For collection of sharp boxes check if it is filled to the indicated line on the box. If it			
reached the indicated level the sharp box should be sealed to ensure safe transport.			
• DO NOT attempt to close a sharp box that is overfilled! Sensitize staff on the high risk of			
injury this poses. Carefully transport the sharp box to the waste management area for			
immediate disposal.			
• Ensure enough CLEAN waste receptacles are available for replenishment			
Action for Transport			
 Action for Transport Collect and transport different types of waste on separate clearly marked waste Otto-bins, 			
• Collect and transport different types of waste on separate clearly marked waste Otto-bins,			
• Collect and transport different types of waste on separate clearly marked waste Otto-bins, waste carts or wheelbarrows.			
 Collect and transport different types of waste on separate clearly marked waste Otto-bins, waste carts or wheelbarrows. DO NOT Carry health care waste on your back or shoulder. 			
 Collect and transport different types of waste on separate clearly marked waste Otto-bins, waste carts or wheelbarrows. DO NOT Carry health care waste on your back or shoulder. Pile a safe number of bags on an Otto-bin, waste cart or wheelbarrow to prevent spills 			
 Collect and transport different types of waste on separate clearly marked waste Otto-bins, waste carts or wheelbarrows. DO NOT Carry health care waste on your back or shoulder. Pile a safe number of bags on an Otto-bin, waste cart or wheelbarrow to prevent spills during transportation to storage area. 			
 Collect and transport different types of waste on separate clearly marked waste Otto-bins, waste carts or wheelbarrows. DO NOT Carry health care waste on your back or shoulder. Pile a safe number of bags on an Otto-bin, waste cart or wheelbarrow to prevent spills during transportation to storage area. Ensure waste is treated and disposed as per type of waste immediately. (Note: waste must 			
 Collect and transport different types of waste on separate clearly marked waste Otto-bins, waste carts or wheelbarrows. DO NOT Carry health care waste on your back or shoulder. Pile a safe number of bags on an Otto-bin, waste cart or wheelbarrow to prevent spills during transportation to storage area. Ensure waste is treated and disposed as per type of waste immediately. (Note: waste must be disposed of as segregated) 			
 Collect and transport different types of waste on separate clearly marked waste Otto-bins, waste carts or wheelbarrows. DO NOT Carry health care waste on your back or shoulder. Pile a safe number of bags on an Otto-bin, waste cart or wheelbarrow to prevent spills during transportation to storage area. Ensure waste is treated and disposed as per type of waste immediately. (Note: waste must be disposed of as segregated) Action for Storage 			
 Collect and transport different types of waste on separate clearly marked waste Otto-bins, waste carts or wheelbarrows. DO NOT Carry health care waste on your back or shoulder. Pile a safe number of bags on an Otto-bin, waste cart or wheelbarrow to prevent spills during transportation to storage area. Ensure waste is treated and disposed as per type of waste immediately. (Note: waste must be disposed of as segregated) Action for Storage The storage area provides a safe temporary storage place due to backlog of delayed 			



	• Arrange the storage bins according to color and or clear labelling for easy identification to				
	disregard secondary segregation.				
	• Ensure to obey the thumb rule of filling up the bins (3/4 full).				
4	Treatment by incineration				
	• Wear appropriate personal protective equipment—helmet, goggles, respirator, gown,				
	heavy-duty gloves, apron, and boots.				
	• Ensure fuel (diesel) is available for operating the incinerator and that the waste to				
	incinerated is dry.				
	• Record the number of safety boxes and waste bags to be burned.				
	• Clean the incinerator, by removing the ash on the tray and deposit it safely in the ash pit				
	• Place the grate/tray back in the incinerator. (Different incinerator will require different				
	clearing of the ash from				
	Ensure waste is treated as per type of waste immediately. (Note: waste must be disposed of as				
	segregated)				
5	Disposal of glass bottles and vials				
	All the glass material should undergo a crushing process before disposal,				
	a glass crusher should be constructed on top of the glass pit				
	Arrange all the bin with glass (vials, bottles, disposed lab slides etc.) near				
	the crushing equipment (The simple crusher is a tube that has a heavy slide hammer, with a				
	section opening along the tube meant for loading for small amount of glass to be crushed)				
	Ensure the crusher is on top of the glass pit (should be installed on a constructed glass pit)				
	Operating the glass crusher				
	• Lift the slide up the tube past the opening				
	• Hook the hammer handle to hold the suspended hammer				
	• As per design load the desired amount of vials				
	• Release the hook and allow the hammer to drop on top of the vials				
	• Repeat the same process for subsequent load batches of vials				
	• Do NOT operate the crusher if open, or is damaged				
	Disposal of organic waste				



	Put all food remains into the food pit				
	Caution! Do not dispose of any other waste other than food leftovers into the waste pit (Note:				
	waste must be disposed of as segregated)				
	Disposal of anatomical waste				
	Put all anatomical waste in the placenta pit				
	Caution! Do not dispose of any other waste other than anatomical waste into the placenta pit				
	(Note: waste must be disposed of as segregated)				
	Disposal of Ash from incinerator				
	Dispose of the ash into the ash pit				
	Caution! Do not dispose of any other waste other than ash into the ash pit (Note: waste must				
	be disposed of as segregated)				
6	Action for Cleaning and disinfection of waste bins				
	• Make sure to don the appropriate PPE before starting to clean the waste bins (gum boots,				
	heavy duty apron, heavy duty gloves, medical mask, goggles or face shield, water proof				
	head cover)				
	• Wash the inside and outside of waste bin thoroughly with detergent and water using a				
	brush and sponge				
	• Rinse the waste bin with clean water				
	• Wash the waste bin with 0.2% Chlorine solution				
	• Rinse the waste bin with clean water				
	• Put the waste bin upside down, allow it to drip dry in a designated well drained area within				
	the waste disposal area				
7	Remove all PPE used during waste handling following the correct procedure (see annex 6 for				
	doffing procedure)				
8	Perform hand hygiene after removing PPE and before leaving the waste disposal zone				
1					

References

<u>GTFCC Technical Note on WASH and IPC</u> <u>GTFCC Cholera Outbreak Response Field Manual</u>





13 Waste Management -Liquid Waste



121	Objective	This SOP describes the key concepts and consideration in management of		
13.1	Objective	all liquid wastes generated in the CTC/CTU		
13.2	Key concepts	Liquid waste including faeces, vomit from cholera patients can be a source		
1012	involved	of transmission of infections within the CTC and the community if not		
		handled properly. As a standard precaution therefore, all liquid wastes		
		should be appropriately handled to reduce risks of cholera transmission		
13.3	PPE required	PPE for handling liquid waste :		
		 Goggles/Shield 		
		 Medical mask 		
		o Gown		
		• Heavy duty gloves		
		• Heavy duty apron		
		o Gumboots		
13.4	Material required	Buckets		
		Pits		
		Latrine		
		2% Chlorine solution		
		0.2% Chlorine solution		
		Detergent		
		Water		
		Scrubbing brushes		
		Hand washing facilities (soap, waster or 0.05% Chlorine Solution)		
		IEC materials (labelling different strength of chlorine solution and the		
		uses, signs, etc.)		
13.5	Responsibilities	Hospital attendants, ground laborers: all people, paid and unpaid, in a		
		health care setting who are involved in handling of liquid waste.		
		Guardians who support patients in CTC		
		IPC focal points who monitors waste management in CTC/CTU		



13.6 Considerations Stools and voint should be conected in buckets as patients cannot go to latrines due to the intensity of their often uncontrollable diarrhoea and vomiting.Buckets used for collection of stool should be 20 litres bucket, placed directly under the bed hole to avoid splashing of faecesPour 1cm depth of 2% chlorine solution into the buckets used for collecting vomit and faeces before putting under the bed and close to the head side of the bed for faeces and vomit respectively.Buckets need to be monitored, emptied, cleaned and replaced after each episode of diarrhea or vomiting.			
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Buckets need to be monitored, emptied, cleaned and replaced after each			
Stools and vomit should be poured into excreta pits or latrines.			
If possible, use different coloured buckets for stools and vomit or label			
buckets indicating what they are to be used for. Do not use these buckets			
for clean activities (e.g. preparation of ORS, transport of potable water).			
ep 13.7 Action for cleaning buckets			
• Make sure to don the appropriate PPE before starting to clean the buckets (gum boots,			
heavy duty apron, heavy duty gloves, medical mask, goggles or face shield, water proof			
head cover)			
• Wash the inside and outside of buckets thoroughly with detergent and water using a brush			
and sponge			
• Rinse the buckets with clean water			
• Wash the buckets with 0.2% Chlorine solution			
• Rinse the buckets with clean water			
• Put the buckets upside down, allow it to drip dry in a designated well drained area close to			
the latrines/pits			



NOTE : Before returning the bucket to the patient, pour 1 cm of 2% chlorine solution again into the bucket.

13.8 Management of waste water

All wastewater (showers, sinks, laundry, hand-washing points, ORS preparation, and kitchen) must be collected in a grease trap then infiltrated via a soak away pit. If it is not possible to build a soak away pit (e.g. lack of space, nature of the soil), wastewater discarded in the open but away from facilities in a well-drained designated area.

NOTE : Soakaways (for most soils) must be located at least 30 meters from any groundwater source and the bottom of any latrine is at least 1.5 meters above the water tables.

14.9 Notes on Excreta pits and Latrines

Excreta pits

Placed at least 30 metres away from all wells, boreholes and water sources

Placed at least 5 metres away from all facilities

Should be easily accessible and the ground should allow liquids to infiltrate into the soil

Latrine

There should be one latrine for every 20 persons in the CTC

There should be separate latrines for male and female patients

There should be separate latrines for patients and health workers (NOTE: the health workers' latrines should be placed in the green zone.



I4 Vector control



14.1 Objective	This guidance describes the key considerations for controlling vectors in the			
	CTC/CTU			
14.2 Key concepts	Vectors like; houseflies, cockroaches can transmit cholera in the CTC/CTU			
involved	when they come in contact with patient faeces and transfer the			
	contamination to the food. Other vectors like mosquitoes transmit malaria			
	which can be a comorbidity for the already suffering patients and make			
	treatment outcomes poorer including long hospital stay and sometimes			
	death. It is therefore important to control vectors in the CTC/CTU to			
	reduce the risk of spreading cholera and other diseases.			
14.3 Material required	Mosquito bed nets			
-	Mosquito window and ventilator mesh/net			
	Drop hole covers			
	• Insecticides			
	Insect repellants			
14.4 Responsibilities	Hospital attendants: all people, paid and unpaid, in a health care setting			
•	who are involved care of patients.			
	Guardians who support patients in CTC/CTU			
	Health workers in the CTC/CTU			
	IPC focal points in the CTC/CTU			



14.5 Considerations	•	Flies or mosquitos (attracted by waste, stagnant water or wastewater,
		food, ORS sugar) can be abundant and become a nuisance.
	•	Waste and wastewater management may be enough to control vectors,
		but sometimes insecticides are required.
	•	All windows in the structures at the CTC/CTU should have mosquito
		nets/mesh
	•	All latrines should have drop hole cover to keep of cockroaches
	•	Holes and places that can store open stagnant water should be eliminated
		or covered to reduce mosquito breeding sites at the CTC/CTU
	•	Keep all grasses in the CTC/CTU slashed to reduce breeding and hiding
		sites for vectors and vermins
	•	Provide enough light in the night to keep off mosquitoes
	•	All pits used for excreta disposal should be covered to reduce access of
		houseflies and cockroaches

References

GTFCC Technical Note on WASH and IPC

GTFCC Cholera Outbreak Response Field Manual


Human Resource					
16.1 Objective	This guidance describes the key considerations for IPC human resource in				
	the CTC/CTU				
16.2 Key concepts	Human resource is a key element in the components any IPC program to				
involved	enable the running of IPC activities and practices. In the CTC/CTU ; the				
	main IPC personnel will include the IPC focal person, IPC committee				
	especially for CTC hospital attendants, ground staff, waste handlers and				
	incinerator operators, disease control and surveillance assistant, laundry				
	attendants, security guards				
16.3 Responsibilities	Admistration and CTC/CTU incharge				
	IPC focal person, hospital attendants, ground staff, waste handlers and				
	incinerator operators, disease control and surveillance assisstant, laundry				
	attendants, security guards				
16.4 Considerations	All CTCs/CTU should have an IPC committee and an IPC focal person				
	• All CTC/CTUs should have at least an IPC focal person				
	• The IPC committee and focal persons should be responsible for the IPC				
	activities and practices in the CTC/CTU as applicable				
	• All committees, personnel working in IPC must have a clear terms of				
	reference (ToR) to enhance monitoring and accountability (See annex				
	13 for TORs of different personnel)				
	• All persons involved in IPC at the CTC/CTU must be trained, on IPC				
	for cholera and continuously monitored for effectiveness of the				
	trainings				

References

<u>GTFCC Technical Note on WASH and IPC</u> <u>GTFCC Cholera Outbreak Response Field Manual</u>





Annex 1 : Cholera screening tool and algorithm for use at all entrances to health facilities in Malawi during Cholera Outbreak

Objectives

- Establish screening of all patients on arrival at all sites using the guidance and case definitions
- Establish effective patient flow through screening at the entrance of all healthcare facilities
- Establish mechanisms for the isolation of patients in all care sites using the guidance.

Screening questions for all patients visiting the health facility

- 1. Do you have watery loose stools ?
- 2. Are you vomiting?
- If the answer to any of the two questions is YES, please refer the patient to the cholera treatment area.
- If the answer to the two questions is NO, please refer the patient to the general OPD triage area.











CTC/CTU Elements and Layout and Key:

- 1. Patients/Vehicle Entrance
- 2. Staff Entrance
- 3. Staff Facilities: Toilet, Showers, Changing Rooms
- 4. Pharmacy And Warehouse
- 5. Water Tanks For Chlorinated Water
- 6. Chlorine Preparation Area
- 7. Triage Area
- 8. Observation Area
- 9. Treatment Area
- 10. Patient And Staff Toilets
- 11. Water Point
- 12. Showers
- 13. Washing Point
- 14. Patient Showers
- 15. Recovery Area
- 16. Patients Exit
- 17. Patients Toilet
- 18. Staff Toilet
- 19. Morgue
- 20. Waste Management Area



Annex 3 : Hand washing and hand rubbing technique posters





Annex 4 : The WHO's 5 Moments for Hand Hygiene Poster





Annex 5 : PPE donning procedure poster





Annex 6 : PPE doffing procedure poster





Annex 7 : Preparing Chlorine solutions from Powder form of chlorine products in 201 of water using a tablespoon.

Active chlorine in product					
	0.05%	0.2%	1%	2%	
35%	2	8	38	76	
	(table spoons)	(table spoons)	(table spoons)	(table spoons)	
65%	1	4	21	41	
	(table spoon)	(table spoons)	(table spoons)	(table spoons)	
68%	1	4	20	39	
	(table spoon)	(table spoons)	(table spoons)	(table spoons)	
70%	1	4	19	38	
	(table spoon)	(table spoons)	(table spoons)	(table spoons)	



Annex 8 : Recommended cleaning schedules for CTC/CTU				
Patient area	Frequency	Responsible staff	Products/Supplies	Additional guidance
Triage area: floor and surface	At least twice daily + after each patient (the surface)	cleaning staff	Cleaning solution (neutral detergent and water) Disinfectant (alcohol,	Focus on high-touch surfaces, then floors (last)
Inpatient rooms / cohort – occupied	At least daily, twice daily preferable	Cleaning staff	chlorine-based, other as approved) If using chlorine-based solution, make new solution after 24	Focuses on high-touch surfaces, starting with shared/common surfaces, then move to each patient bed; use new cloth for each bed if possible
Inpatient rooms – unoccupied	Upon discharge/ transfer	cleaning staff (terminal cleaning)	hours Freshly made solutions, cloths, and mops for each cleaning session,	Low-touch surfaces, high-touch surfaces, floors (in that order); waste and linens removed, bed thoroughly cleaned and disinfected
Outpatient / Ambulatory Care rooms	After each patient visit and at least once daily terminal cleaning	Clinical staff (after each patient); Terminal cleaning (cleaning staff)	disposable paper towel, Discard/reprocess supplies after each cleaning session	High touch surfaces to be disinfected after each patient visit; terminal clean as above (end of day)



Hallways / Corridors	At least twice daily	Cleaning staff	Dedicated supplies for inpatient isolation areas	High-touch surfaces (e.g., railings)
Hallways/Corridor Spill of blood and body fluids (splashes and drips) Hallways/Corridor	Immediately after the spill Immediately after	Cleaning staff Cleaning staff	PPE: gowns and/or impermeable aprons, non- sterile gloves rubber gloves, medical mask, and eye protection (preferably face shield) and gum boots	Disinfect area with paper towel soaked with 0.1% chlorine solution, give a contact time of one minute then wipe with clean water, dry surface with disposable paper towels and perform hand hygiene Cover spill with disposable towel or cloth soaked in
Spill of blood and body fluids (large spill)	spill			0.5% Chlorine, for 3-5 minutes, remove paper towel, clean the area with detergent solution and wipe surface with fresh 0.5% chlorine solution and wait for 1 minute then rinse with water and dry surface with paper towel or mop
Patient toilets	Private (at least daily); Shared (at least three times daily)	Cleaning staff		High-touch surfaces, including door handles, light switches, counters, faucets, then sink bowls, then toilets and finally floor (in that order)



Annex 9: Daily cleaning checklist

Place a "Y" for all areas that meet the inspection standard. D	ate Complete	ed	
Comment on areas that do not meet the standard.	completed by		
	If Yes = Y		
ROOM or WARD #	If No = N	COMMENT	
Hand wash sink clean			
Soap, alcohol rinse dispensers are clean/stocked/not expired			
Ceiling, air vents clean			
Sharps container checked, garbage bins emptied			
Equipment- i.e., IV stand and base, oxygen cylinder and/or			
concentrator, wheelchair etc. clean			
Shelves or cupboard handles and surfaces clean and free of tape			
and hand prints			
Bedside table surface and pulls clean			
Chair(s)- clean			
Room fan on countertop dust-free			
Windows, ledges are clean on inside and ledges are dust free			
Floors clean, not sticky, free of soil			
Counters where medications and supplies are prepared			
Doorknobs, light or fan switches			
Others:			
BED			
All side rails are free of tape, and clean, including both sides of			
rails, crevices around controls, bottoms of rails			
Frame is dust free			
Controls at foot of bed are clean and dust free if applicable			
BATHROOM			
Sink, faucet and counters free of water spots and clean			



Soap dispensers are clean and stocked		
Lights are dust free, mirror clean, light switches clean		
Toilet/latrine is clean (handle toilets seat etc.), floor around and		
behind toilet/latrine is clean		
Pipes around toilet are free of water build up and clean		
Bathroom smells clean, no odors noted		
Bathroom door is clean and free of handprints, handles are		
clean		
Others:		
TOTAL ITEMS MET PER ROOM	/32	

Annex 10 : Five keys to safer food poster



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Annex 11 : Health care waste management



April 2023











Annex 13 : TORs of different IPC personnel

Terms of Reference For Infection Prevention and Control Committee Responsibilities

- 1. Monitor, supervise & evaluate all IPC activities in the CTC/CTU
- 2. Development of workplans, budgets & routine reporting mechanisms
- 3. Oversee the implementation of the IPC programme and plans
- 4. Report to other related committees
- 5. Provide advice on IPC and related matters
- 6. Liaise with in-service training coordinators on training programme(s) in IPC at the facility
- 7. Disseminate information and reports on IPC to relevant senior managers and clinical leads across the facility
- 8. Play a lead role in advocacy and resource mobilization for IPC activities (securing an annual budget for IPC, human resources, staff health and safety)
- 9. Routine meeting to review IPC activities and other related subjects

Terms of Reference For Infection Prevention and Control Focal Person

Responsibilities

- 1. Assess the IPC level of their CTC using the daily IPC checklist
- 2. Participate in the development of an improvement and maintenance plan for IPC conditions/gaps in the CTC
- 3. Ensure that trainings are done for all staff (Managers, Technical, Domestic etc)
- 4. Carry out the implementation of IPC activities in the CTC
- 5. Give feedback on IPC evaluation results, its health structure to other healthcare providers and ensure the implementation of the improvement plan
- 6. Maintain attendance register of staff who are trained in IPC
- 7. Make sure copies of all IPC guidelines, policies, SOPs are available at the CTC
- 8. Collect feedback from health care providers on their IPC activities during implementation and send them to the Facility QI focal person/manager



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- 9. Organize monthly IPC meetings in the CTC to ensure reporting of IPC activities
- 10. Keep minutes of IPC meetings
- 11. Keep and track Action plans for IPC activities
- 12. Ensure that the IPC committee is multidisciplinary
- 13. Keep a copy of IPC work plans for the CTC
- 14. In collaboration with the pharmacist and the QI manager of the health facility, ensure that the IPC supplies and resources are available at all times
- 15. Ensure integration of IPC, WASH and Antimicrobial stewardship activities
- Should compile monthly and quarterly report and share with in-charges, CTC manager, Director and QMD
- 17. Participate in renovations and new infrastructure to ensure IPC considerations are taken into account
- 18. Ensure Quarterly Internal IPC assessments are done and results are shared at the CTC and QMD Zonal

Terms of Reference for Patient Attendant

Responsibilities

- 1. Bathing patients, feeding patients, dressing patients.
- 2. Removing soiled linen from patients beds abd changing wih cleaner ones
- 3. Making beds for patients.

Terms of Reference For Disease Control and Surveillance assitants

Responsibilities

- 1. Conduct Chlorine solution preparation
- 2. Monitoring the FRC in water used at the CTC/CTU
- 3. Conduct Health education
- 4. Work with the nurses to support dead body management
- 5. Support cleaning and disinfection of the CTU/CTC
- 6. Support in vector control in the CTC/CTU

Roles and responsibilities of the cleaners

1. Decontaminate all allocated places as per schedule



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- 2. Maintain refills of disinfectants at all times in all designated places
- 3. Maintain refills of hand hygiene supplies at all times in all designated places
- 4. Decontamination of all reusable items after each shift

Roles and responsibilities of the waste handlers

- 1. Ensure the bins are emptied when ³/₄ full
- 2. Ensure the waste collection containers are regularly decontaminated
- 3. Ensure appropriate temporary storage and or dispose of all wastes