

Cholera

Operational Support & Logistics Disease Commodity Packages

Agent's Biosafety Level: BSL2 Cholera [LINK] Epidemic Potential: Managing Epidemics Handbook [LINK] Last Update: 21 September 2018

SURVEILLANCE	Sample Collection	Diagnosis		
The usual approach for patient diagnosis and surveillance of cholera is based on clinical examination of suspected cholera cases, with confirmation by positive culture of stool specimens in reference laboratories. Culture is very specific and is considered the reference-standard method in most countries.	Stool or rectal swab	Rapid Diagnostic Test (RDT)	Polymerase Chain Reaction (PCR)	Culture
		Several tests Non-prequalified (NPQ)	Several RT-PCR Non-prequalified (NPQ)	Antiserum and AMS required

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

PREVENTION & CONTROL	Vaccine	WASH	Safe and dignified burial
Provision of safe water, proper sanitation, and food safety are critical for preventing the occurrence and spread of cholera. Mass chemoprophylaxis is not recommended because it has no demonstrated effect on the spread of cholera, can have adverse effects by increasing antimicrobial resistance and provides a false sense of security.	Oral Cholera Vaccines (OCV) available through the ICG mechanism or direct procurement to manufacturers	Safety of water sources (chlorination, flitration, etc.); household water treatment	Personal Protective Equipment (PPE) + Disinfection supplies (for Infection Protection & Control)

CASE MANAGEMENT	Treatment		Isolation of patients	
	Aetiological	Supportive	Treatment Units & Centres	
Proper case management calls for prompt rehydration via oral rehydration salts (ORS) or IV fluids, depending on the severity of cases. Up to 80% of patients can be treated effectively with ORS. Severe cases need to receive antibiotic treatment.	Doxycycline + Zinc for pediatrics	Oral Rehydration Salts (ORS), IV Fluids critical, Pain & Fever, cholera beds	See Revised Cholera Kit [LINK]	

Key outbreak control activities considered for material supply

- Aetiological treatment to reduce mortality
- Supportive treatment (hydration) to reduce mortality

 Provision of safe water to reduce transmission

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

INTERVENTION		COMMODITY	TECHNICAL DESCRIPTION		
	Sample Collection	Swabs	CultureSwab, Cary-Blair Agar, single swab		
S.	Sarr	Faeces collection container	125ml with screw cup		
SURVEILLANCE	Diagnostics	Criteria for selection of specific diagnostic tests may include historical efficacy, adherence to any existing Target Product Profiles, ease of use, necessary throughput, distribution and logistics requirements, and manufacturer production capacity. For some pathogens, consideration may need to be given to the presence of mutations in targeted gene sequences or proteins. WHO can advise on the selection of tests on a case by case basis as determined by a specific event.			
	Culture	Please see "Manual for the lal the developing world"	poratory identification and antimicrobial susceptibility testing of bacterial pathogens of pub	olic health importance in [LINK]	
	Φ	Euvichol	Inactivated oral cholera vaccine, 1 dose vial		
	Vaccine	Dukoral	Inactivated oral cholera vaccine, cholera toxin B subunit (recombinat), 1 dose vial + buffer sachet		
	>	Shanchol/mORCVAX	Inactivated oral cholera vaccine, 1 dose vial		
	WASH	Safe Water Module	Kit water tank, 5 m3, flexible 1 acc.2" DIN50 Water distribution module, 2 ramps x 6 taps Hoses module, 2" DIN 50 + coupling Tester, pool tester Chlorine test tablets DPD1 Chlorine test tablets DPD3 Phenol red tablets for cholrine testing NaDCC, granules, 1kg, 65 to 70% + dossage spoon (contingent upon necessary concentration levels)		
	Chlorine		NaDCC, granules, 1kg, 65 to 70% + dossage spoon		
	PC	Alcohol-based hand rub	bottle of 100ml		
		Bar soap			
		Gloves, heavy duty	Covering forearm. Fabric: cotton or polyester, rubber coating, waterproof, and acid resistant, minimum cuff length 150mm	EU standard directive 89/686/EEC Category III, EN 374 (AS/NZS 2161.10.1.2005) chemical resistance for AKL EN 374 (AS/NZS 2161.10.1.2005) for biohazards Level 3 performance, or above EN 388 (AS/NZS 2161.10.3.2005) 3111 for abrasion, blade cut, tear and puncture, or above EN 420:2004+A1:2009 or equivalent, or above	

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		Face mask, particulate respirator, grade N95 or higher	Fluid resistant particulate respirator. Surgical N95 respirator or higher High fluid resistance, Good breathability, Internal and external faces should be clearly identified, Structured design that does not collapse against the mouth (e.g. duckbill, cupshaped)	"Surgical N95 respirator" cleared by the US FDA and NIOSH, or equivalent • Fluid resistant surgical N95 respirator with minimum 80 mm Hg pressure based on ASTM F1862, ISO 22609, or equivalent	
		Goggles, protective	Good seal with the skin of the face, Flexible PVC frame to easily fit with all face contours with even pressure, Enclose eyes and the surrounding areas, Accomodate wearers with prescription glasses, Clear plastic lens with fog and scratch resistant treatments, Adjustable band to secure firmly so as not to become loose during clinical activity, Indirect venting to avoid fogging, May be re-usable (provided appropriate arrangements for decontamination are in place) or disposable.	EU standard directive 86/686/EEC, EN 166/2002, ANSI/ISEA Z87.1-2010, or equivalent	
		Coverall	Single use, light colours preferable to better detect possible contamination, thumb/finger loops to anchor sleeves in place, good freedom of movement. Sizes: M, L, XL	Option 1: blood and body fluid penetration resistant: meets or exceeds ISO 16603 class 3 or above exposure pressure, or equivalent Option 2: blood-borne pathogens penetration resistant:meets or exceeds ISO 16604 class 2 or above exposure pressure, or equivalent	
	ams	Scrubs, tops	Tunic/tops, woven, scrubs, reusable or single use, short sleeved (tunic/tops), worn under	neath the coveralls or gown.	
	Burial Teams	Scrubs, pants	Trouser/pants, woven, scrubs, reusable or single use, short sleeved (tunic/tops), worn underneath the coveralls or gown		
	mg	Apron, heavy duty, non-woven	Straight apron with bib, Fabric: 100% polyester with PVC coating, or 100% PVC, or 100% rubber, or other fluid resistant material, Waterproof, Sewn strap for neck and back fastening Minimum basis weight: 300g/m2 correcting size: 70-90 cm (width) X 120-150cm (height) Reusable (provided appropriate arrangements for decontamination are in place)	May comply with EN ISO 13688:2013 EN 14126-B and partial body protection (EN 13034 or EN 14605) or equivalent	
		Boot, rubber	on-slip sole pattern, PVC or polyurethane sole which is completely sealed and waterproof, Knee-high in order be higher than the bottom edge own, Range of sizes available to improve comfort and avoid trauma to the feet, Materials of construction include rubber, PVC, neoprene, nitrile, olyurethane, Favor light colours to better identify possible contaminations.		
		Bio-hazardous bag	Disposal bag for bio-hazardous waste, 30x50cm, with "Bio Hazard" print, autoclavable po 50 or 70 micron thickness	lypropylene.	
		Body bag	Made of linear enforced, U-shape zipper and 2 zipper pulls with tie ribs. adult size 250x120cm Protector Body Bag specifications: 6 handles • Impermeable, linear reinforced LLDPE, LDPE, EVA, PEVA, (avoid PVC), minimum thickness 400 microns; • Should be able to hold 100-125 kilos (200-250 lbs), • Should contain no chlorides: burning of chlorides pollute the environment and can cause damage to retort chambers. Body bags should be non carcinogenic to health of funeral workers when used for cremations. • At least 6 handles included in the body bag to allow burial team to hand carry it safely • Heat-sealed: insure superior strength and safety, • Provide full containment of blood borne pathogens • Cracking point of 25 - 32 degrees below zero • Shelf life: minimum 10 years • Bag and hands should be white color		
	Aetiological Treatment	Doxycycline	Doxycycline, single dose, 100mg tablets		
		Zinc sulfate	Zinc sulfate, 20mg, dispersible tablets		
	t	Compound Sodium Lactate Solution	Compound solution of sodium lactate (Ringer's lactate), injection solution, w/o IV set and	needle, 1000ml	
Ę		Infusion giving set	Infusion giving set, with airinlet and needle, sterile, single-use		
CASE MANAGEMENT		ORS	ORS (oral rehydration salts), low osmolarity 20.5g, sachet for 1 litre		
	atme	Paracetamol	Paracetamol, 500mg, tablets		
	Supportive Treatment	Cholera beds	Cot weight: 31 lbs (14 kgs) Weight tolerance: 350 lbs (159 kgs) Outer dimensions: 82" (208 cm) L x 43.5" (82.5 cm) W x 20.5" (52 cm) H Sleep area: 79" (201 cm) L x 28 " (70 cm) W Height of cot: 16" (41 cm) Bag dimensions: 32" (81.5 cm) L x 20" (42 cm) W x 4" (11 cm) H Silver, powder coated, anti-rust steel frame White, double-sided 18oz vinyl coated polyester, with wielded hole CPSIA compliant Mat features 8" (20cm) diameter cut out hole with impermeable welded seam Mat is impermeable with ultrasonically welded construction, no threads or sew lines		

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