



WHO Standards Health Emergency kits- Overview

August 2025

The WHO standard kits 06-2025



Interagency Emergency Health Kit (IEHK) 2024



Cholera kits 2020



Trauma and Emergency Surgery Kit (TESK) 2019



Non communicable diseases kit (NCDK) 2022



Pneumonia kit 2020



PED/SAM 2020

<https://www.who.int/emergencies/emergency-health-kits>

Measles kit 2021

Each kit serves
Severe and mild measles complications



Measles kit 2021

Major trauma backpack 2021



Major trauma backpack 2021

CTT kit 2021

Each kit serves
50 transfusions



Collection, testing and transfusion kit (CTT) 2021

SCK 2022

Each kit contains
collection & transport biomedical samples



Sample collection kit 2022 (SCK)

Mental Health Kit (MHK) 2022

Population of 10,000 for 3 months



MHK 2022

TRK 2025

Each kit serves
50 trauma patients



TESK Rehabilitation kit (TRK) 2025

TRK 2025

IEHK (2024)



Structure :

Basic module (PHC)

Supplementary module (hospital)

Purpose: the kit is designed to meet the priority health needs of a population affected by emergencies, who have limited access to routine health care services.

Target : design for an outreach population of **10'000 persons / 3 months**

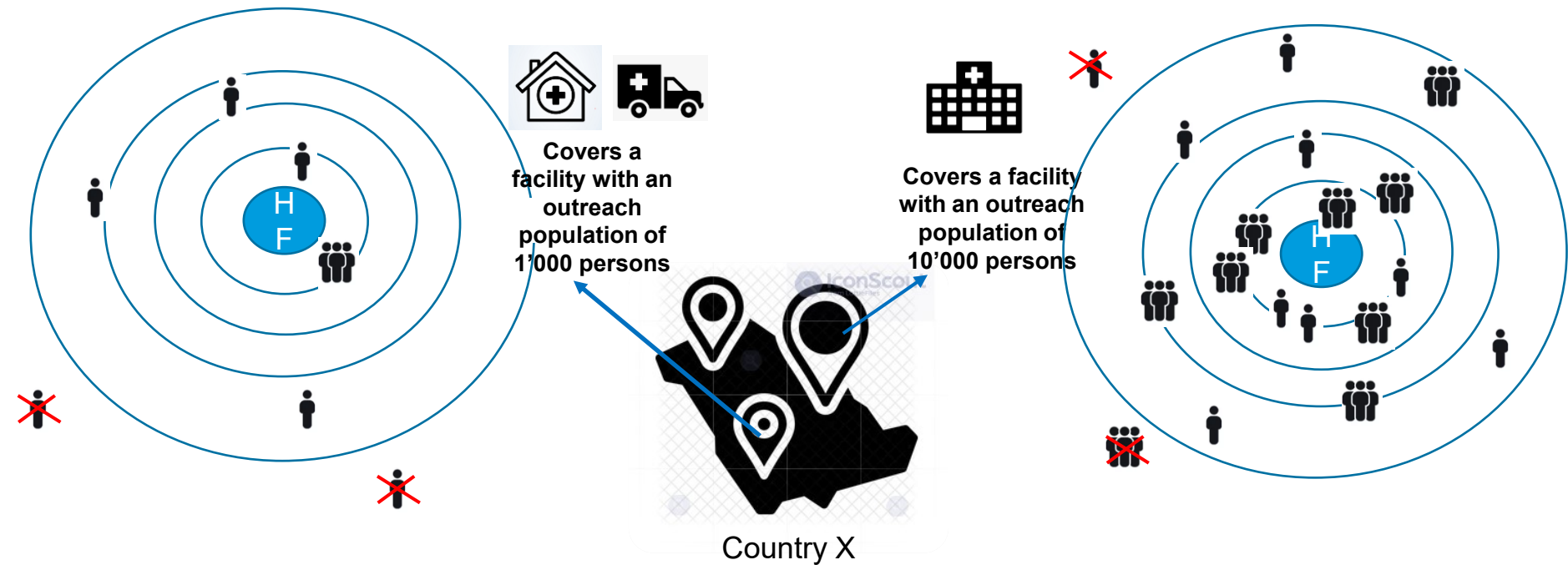


The kit is neither **designed nor recommended** for re-supplying existing health-care facilities. It is **not designed for** immunization, nutritional programmes, resuscitation/surgical activities and management of communicable diseases such as HIV/AIDS, tuberculosis or leprosy. Supplies related to these diseases should be identified on the basis of a needs assessment.

Health facility outreach population

A health facility catchment area (HFCA), also known as a sphere of influence, tributary area, service area or demand field, represents a geographical area around a health facility describing the majority population that uses its services

Macharia PM, Ray N, Giorgi E, et al. Defining service catchment areas in low-resource settings. *BMJ Global Health*. 2021;6. doi:10.1136/bmjgh-2021-006381



Concept of the IEHK 2024

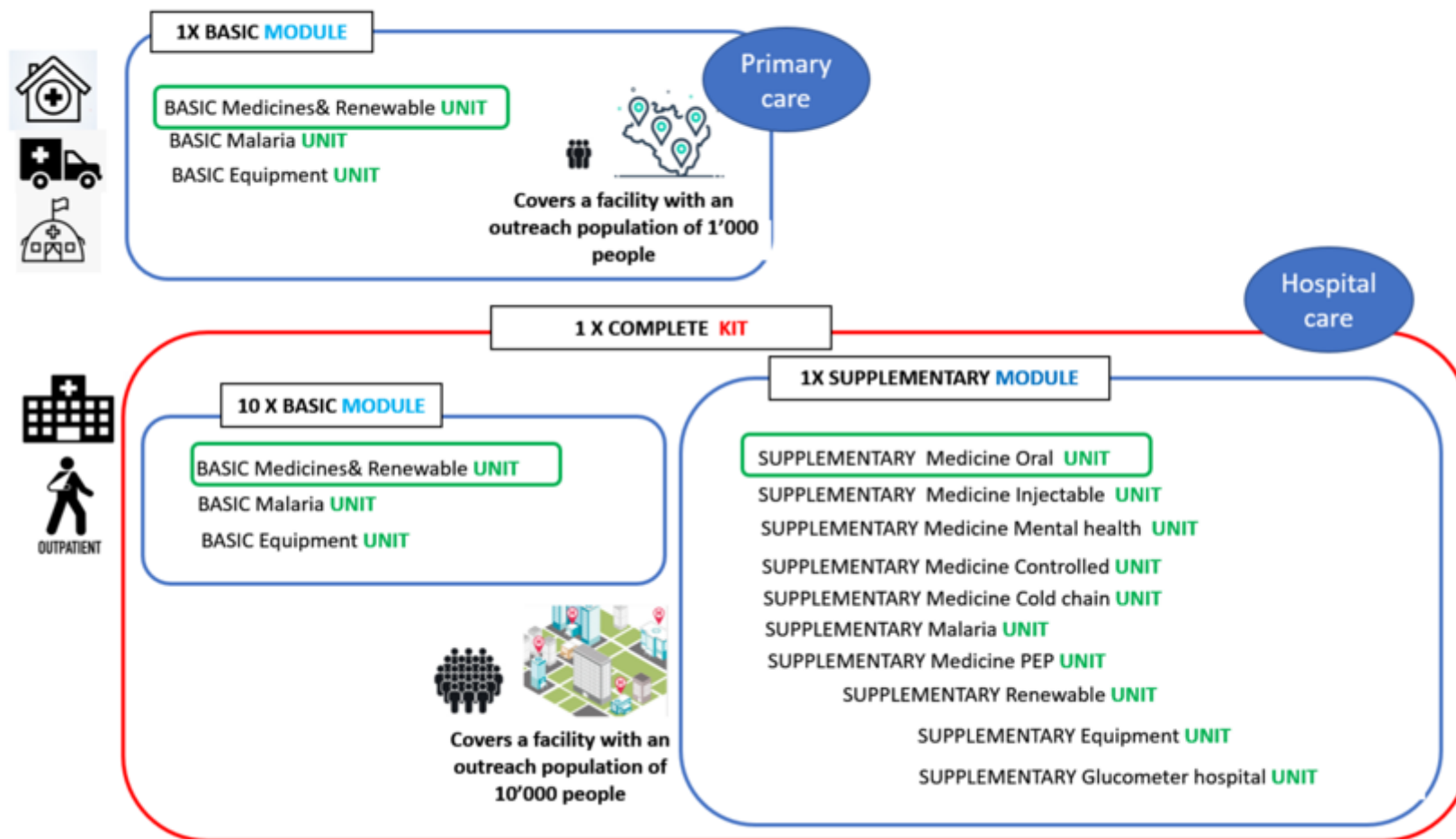
The "modules" categorize the contents of the IEHK 2024 based on the level of care needed for their use.

This kit comprises two types of modules: **Basic and Supplementary**.

A complete IEHK is designed for a outreach population of 10,000 people and consists of ten Basic modules (10X 1,000 outreach population per basic module) and one Supplementary module (1X 10,000 outreach population per supplementary module).

It is important to refer to the section on ordering and planning for information on adjusting the number of modules depending on the actual outreach populations for the facilities that will be receiving the kits.

Summary of the new structure of the IEHK 2024



Basic vs Supplementary

Basic module

This module contains products appropriate for use, services and staffing at **Primary Health Care** levels, or outpatient services that may be available at higher level facilities. It includes oral medicines (only) and other supplies that correspond generally to the level and training of nurses and community health care workers. The quantification for one basic module is based on an outreach population of 1,000 people over an estimated period of 3 months.

Supplementary module

This module contains products appropriate for use, services and staffing at the **hospital level**. It includes medicines (orals and injectables) and other supplies that correspond generally to the level and training of physicians, nurses and other staff with specialized training. This module is designed for hospital use or larger health centres with specialized services. The outreach population for hospitals is generally larger, here 10'000 people and attendance is higher, also over an estimated period of 3 months.

Beneficiary of the IEHK 2024

The IEHK contains essential medicines, medical devices and medical equipment to cover for **an outreach population of about 10 000 people** and be used for a limited period of time, i.e., approximatively 3 months, depending on the consumption rate, the characteristics of the target population and other response actors.

The primary beneficiaries of the IEHK 2024 are **health facilities**, with specific modules tailored to the level of care provided—such as **primary health care, outpatient services, or general hospital services**. Some modules, like the malaria and PEP kits, are designed to serve a targeted number of patients.

Beneficiaries of Malaria unit IEHK 2024



IEHK Basic unit malaria

- Artemether + Lumefantrine, tab 20mg +120mg to treat uncomplicated malaria cases (*P. falciparum*) :

- 150 babies
- 30 infants
- 30 toddlers
- 300 adults

=> **Total of 510 cases of uncomplicated malaria**

35% children and 65% adults

+ Testing RDTs provided for the screening of 800 patients

IEHK Supp. unit malaria

- Artesunate injection 60mg /ml to treat **severe malaria cases** :

- Children less than 20kg with an average of 3 vials / treatment

=> **Total of 166 cases of severe malaria among children less than 20kg**

OR

- children over 20kg and adults with an average of 6-7 vials / treatment

=> **Total of 75 cases of severe malaria among children more than 20kg and adults**

Can take a medium and state that the IEHK sup malaria is support the treatment of about 120 cases of severe malaria

PEP unit beneficiary

POLICY BRIEF

UPDATED RECOMMENDATIONS ON FIRST-LINE AND SECOND-LINE ANTIRETROVIRAL REGIMENS AND POST-EXPOSURE PROPHYLAXIS AND RECOMMENDATIONS ON EARLY INFANT DIAGNOSIS OF HIV

JULY 2018

HIV TREATMENT – INTERIM GUIDANCE



Unit PEP to treat 50 adults 10 children 20-30kg and 1 child less than 20kg



(IEHK 2024 SUPPLEMENTARY) UNIT, MEDICINE, PEP (2.7)

Item description		Qty
Lamivudine (3TC) + Tenofovir (TDF)+ Dolutegravir (DTG), 300mg+300mg+50mg, tablet 3FDC	tablet 3FDC	1500
Abacavir (ABC)+ Lamivudine (3TC) 120mg +60mg dispersible tablet 2FDC	dispersible tablet	600
Dolutegravir (DTG) , 50 mg (children 20-30kg) tablet	tablet	300
Dolutegravir (DTG)* , 10 mg (children > 20kg) tablet	dispersible tablet	60 or
Azithromycin, oral suspension 200mg/5 ml bottle, 15 ml	bottle, 15ml or 30ml	10
Azithromycin, tablets 250mg tablet	tablet	200
Cefixime (as trihydrate), powder for oral suspension, 100 mg/5 ml bottle, 15ml or 60 ml	bottle, 15 ml or	10
Cefixime, tablets 200mg* tablet	tablet	100
Ceftriaxone 1g, powder for injection	powder inj	10
Doxycycline 100mg	tablets	1000
Erythromycin 250mg/5ml or Erythromycin 125mg/5ml	bottle 100ml	5
Levonorgestrel*, tablets 1.50mcg (or 2X 0.75mcg)	tablet	50
Pregnancy test unit	test unit	50



Before ordering, make sure that the health care workers are familiar with the use of DTG for PEP

NCD (2022)

(New version NCDK 2022 ready Q4 2022)



Structure :

Medicines (+ cold chain)

Supply & equipment



Purpose: Focus primarily on most common NCD amenable to **PHC** management: hypertension/CVD, Diabetes, Chronic respiratory diseases plus selected mental health and neurological conditions

Target: design for an outreach population of **10'000 persons/ 3 months**

Beneficiaries of a the NCDK 2022

NCDK – medicines

- **NCDK provides NCD essential medicines at PHC HF to support a population of 10'000 persons for a period of about 3 months**

Assumption based on prevalence of the different diseases (diabetes, AMI, stroke, Ischemic heart failure, asthma) in the different regions (EMRO, SEARO, AFRO, WPRO).

Ex: stroke , prevalence = 0.56% => average of 56 patients expected within a population of 10'000.

AAS 100mg , once a day for 3 months : $90 \times 56 = 5'040$ tabs

NCDK – cold chain

- Assumption was to target 100 patients in need of insulin out of it 80% using the mixed insulin 70/30
- **1 NCDK- cold chain module serves about 100 diabetic patients / 3 months**
(could be type I or type II)

PED/SAM 2020



Structure :

SAM module

Oral medicines module

Injectable medicines module

Malaria module

Supply & equipment



Purpose:

To supply essential medicines to treat the most common childhood diseases including severe acute malnutrition with medical complications.

Target :

Children aged 6 months -14 years old



Do **NOT** contain therapeutic FOOD/ MILK . Order separately F-75 and F-100 on the WHO catalogue.

Beneficiaries of the PED-SAM 2020

SAM module

- Essential medicines to treat 50 children suffering from severe acute malnutrition with medical complications
- In patient setting (hospital/ stabilisation centre)
- **1 SAM module = 50 SAM children as beneficiaries**



Oral module

- Oral medicines, mainly antibiotics, pain killers and anti diarrheal medicines
- Child friendly formulation
- Used at paediatric ward, mobile clinic or outpatient service
- **Assumption is to support treatment for about 200 children.**

Oral + Injectable module

- Oral + injectable medicines mainly antibiotics, pain killers and anti diarrheal medicines
- **Assumption is to support treatment for about 200 children.** (10-bed ward for about 3 months, stay 4-6 days = $10 \times 90 / 5 = 180$ children)

Watch our video: <https://www.who.int/emergencies/emergency-health-kits/severe-acute-malnutrition-with-medical-complications-kit#>

Measles kit 2021



Structure :

Severe measles cases

Mild measles cases

Supply & equipment



Purpose: to prepare for and support the treatment of non-severe and severe measles cases during outbreaks.

Target : Children population :
50 severe cases
20 mild cases

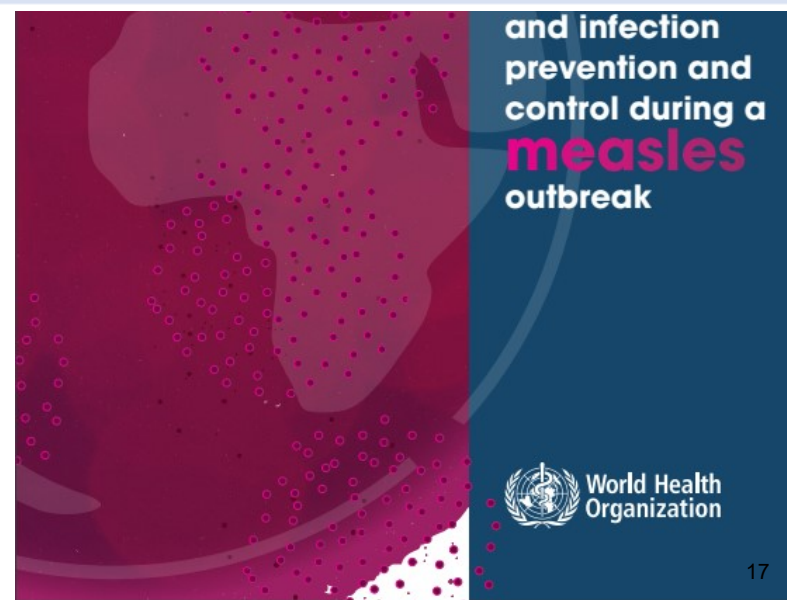


Do **NOT** contain therapeutic FOOD/ MILK . Order separately F-75 and F-100 on the WHO catalogue.

PED-SAM / Measles kit

The same kit but labelled differently for visibility:

	KIT, PAEDIATRIC-SAM (PED-SAM 2020), complete	KIT, Measles 2021 , complete
MODULE 1	(Kit PED-SAM 2020) MODULE, MEDICINES SAM	(kit Measles 2021) MODULE, MEDICINES SEVERE CASES
MODULE 2	(Kit PED-SAM 2020) MODULE, MEDICINES PED ORAL	
MODULE 3	(Kit PED-SAM 2020) MODULE, MEDICINES PED INJECTABLES	
MODULE 4	(Kit PED-SAM 2020) MODULE, MEDICINES PED CONTROLLED	(kit Measles 2021) MODULE, MEDICINES PED CONTROLLED
MODULE 5	(Kit PED-SAM 2020) MODULE, MEDICINES MALARIA	(kit Measles 2021) MODULE, MEDICINES MALARIA
MODULE 6	(Kit PED-SAM 2020) MODULE, RENEWABLES	(kit Measles 2021) MODULE, RENEWABLES
MODULE 7	(Kit PED-SAM 2020) MODULE, EQUIPMENT	(kit Measles 2021) MODULE, EQUIPMENT
MODULE 8		(kit Measles 2021) MODULE, MEDICINES&SUPPLY MILD CASES



Beneficiaries of the measles kit 2021

Medicines severe cases

- **Essential medicines to treat 50 severe cases of measles (including SAM- MC)**

Medicines mild cases

- **Essential medicines to treat 20 mild cases of measles**



Measles vaccination campaign kicks off in Afghanistan to fight ongoing outbreak: around 1.2 million children in 24 provinces to get vaccinated

Pneumonia kit 2020



Structure :

Medicines

Suppl & equipment



Purpose:

The kit contains live-saving treatment for pneumonia with first line antibiotic (amoxicillin) in child-friendly formulation. WHO treatment protocol.

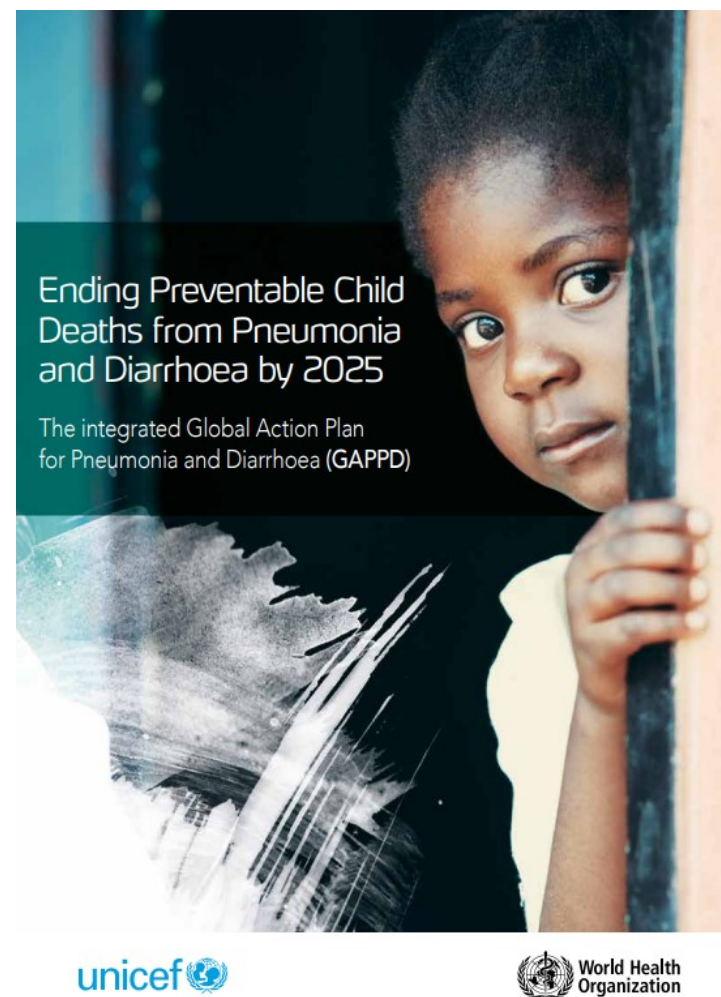
Target :

100 cases of pneumonia among which 60 cases of children ≥ 5 years old and 40 cases of children < 5 years old and adults.

Beneficiaries of the Pneumonia kit 2020

Medicines module

- **Essential medicines to treat 100 cases of pneumonia**
- **Essential medicines to treat 60 cases of pneumonia with children less than 5 years old**



CHOLERA kit (2020)



Kit	# cases	# Severe cases	# Mild cases
Central	100	80	20
Peripheral	100	60	40
Community	100	0	100

Structure :

kit 1: Central reference kit



Kit 2: Periphery kit

Kit 3: Community kit

Kit 4: Hardware kit

Kit 5: Investigation kit

Kit 6: Laboratory kit/ check list

Purpose: designed to support the first month of initial cholera outbreak response (kits 1 to 4) and/or support alert and surveillance (kits 5-6).

Target : to support EXISTING structures at central, peripheral and community level with case management of 100 cases

Calculation tool:

<https://openwho.org/courses/cholera-kits>

INITIAL RESPONSE

CENTRAL REFERENCE KIT

Treatment for 100 patients
- 80 severe cases
- 20 moderate cases

- 1) Central drugs module
- 2) Central renewable sup. module
- 3) Central equipment module
- 4) Central logistics module

PERIPHERY KIT

Treatment for 100 patients
- 40 severe cases
- 60 moderate cases

- 1) Periphery drugs module
- 2) Periphery renewable sup. module
- 3) Periphery equipment module
- 4) Periphery logistics module

COMMUNITY KIT

Rehydration for 100 patients
- 100 moderate cases

- 1) Community drugs module
- 2) Community based case module

when there is no infrastructure to host patients

HARDWARE KIT

- | | |
|----------------------|----------------------|
| 1) Shelter module | 4) Support module |
| 2) Water module | 5) Fencing module |
| 3) Sanitation module | 6) Motor pump module |
| | 7) Water tool box |

INVESTIGATION KIT

Material for 100 samples
Collection swabs
Rapid diagnostic tests

+

Equipment for sample transportation
Transport boxes

LABORATORY KIT / CHECKLIST

Laboratory supplies for 100 samples

ALERT / SURVEILLANCE

Beneficiaries of the Cholera kit 2020

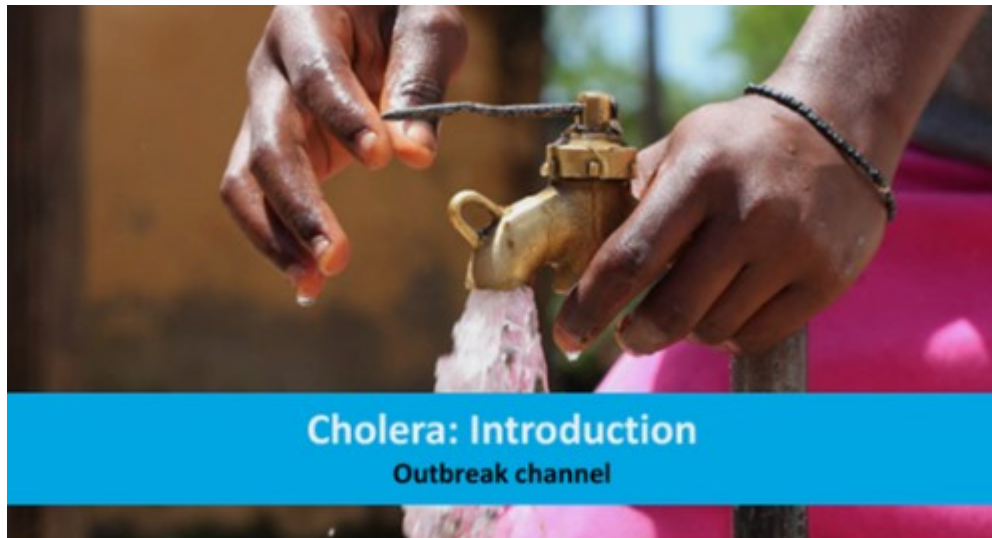
Central module

Peripheral module

Community module

All modules are to treat 100 cases of cholera

- 1 central module contains medicines to treat = 80 severe cases and 20 mild cases
- 1 peripheral module contains medicines to treat = 60 severe cases and 40 mild cases
- 1 community module contains medicines to treat = 100 mild cases



[Cholera: Introduction | OpenWHO](#)

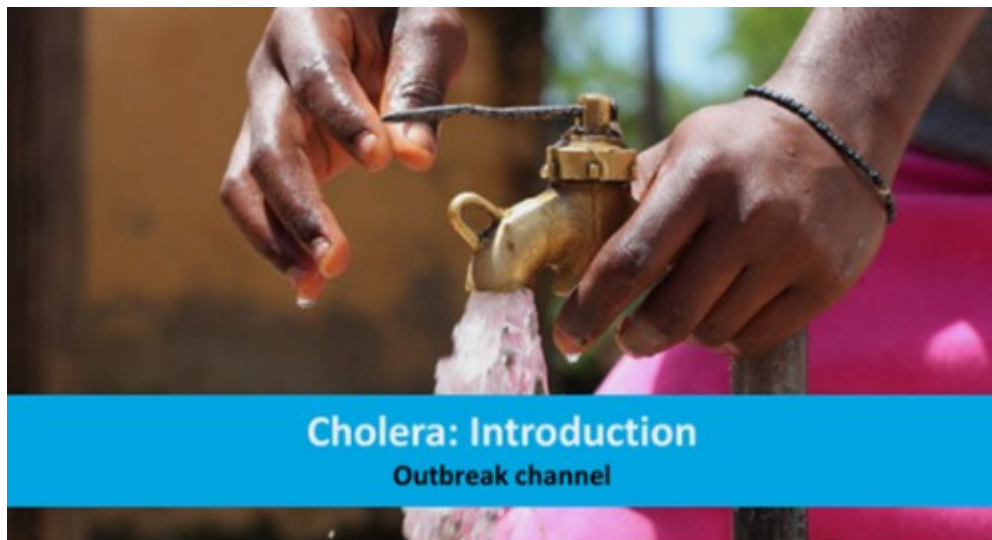
Beneficiaries of the Cholera kit 2020

Laboratory module

Investigation module

Both modules are to collect&test 100 suspected samples of cholera

- 1 laboratory module contains supply to perform = 100 laboratory confirmation tests
- 1 investigation module contains supply collect = 100 samples



[Cholera: Introduction | OpenWHO](#)

TESK (2019)

Trauma & Emergency
Surgery Kit



The composition of TESH has recently been revised in collaboration with the International Committee of the Red Cross to meet the dynamic requirements of emergency situations



Structure :

MODULE 1: DRUGS & RENEWABLES, for 50 patients hospitalized

SUB-MODULE 1A: 7 sets of medicines

SUB-MODULE 1B : 11 sets of renewable commodities

SUB-MODULE 1C: 3 sets supplementary renewables

MODULE 2 : SURGICAL INSTRUMENTS

24 Sets of surgical instruments

Purpose: WHO TESH is intended to provide the resources needed for surgical procedures in operating theatres.

Target : to meet the needs of 50 patients requiring surgical care in emergency situations, assuming an average of two operations per patient.

CTTkit 2021



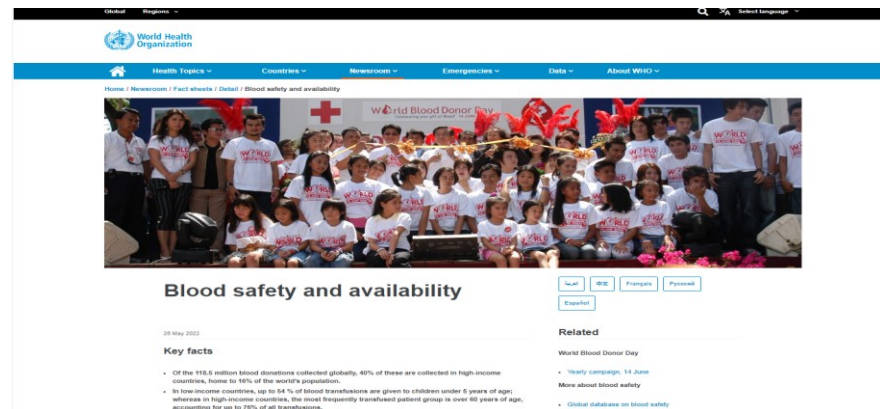
Structure :

Testing (cold chain w/ blood grouping)
Collection (3a) & Transfusion (3b)
Equipment

Purpose: To provide supply & equipment to collect, test and transfuse 50 blood bags.

Target : Surgery & trauma care unit, blood donation center

<https://www.who.int/news-room/fact-sheets/detail/blood-safety-and-availability>



SCK kit 2022



Structure :

Collection of

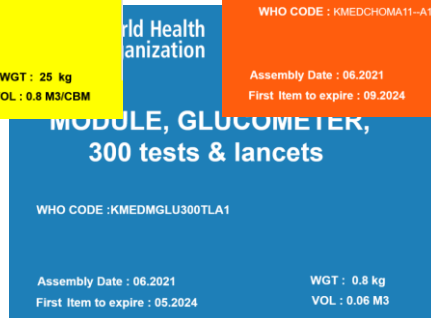
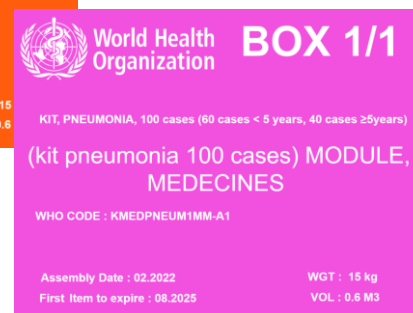
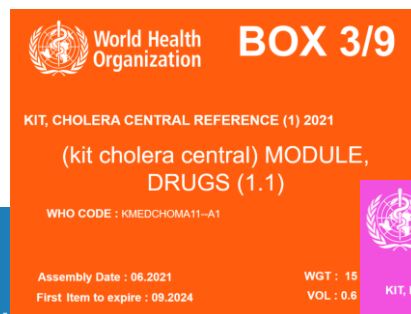
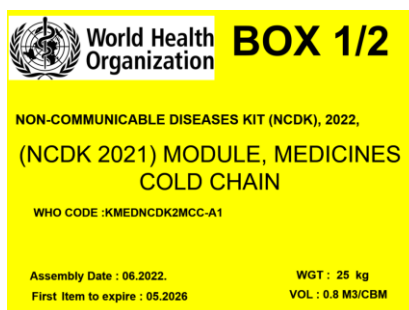
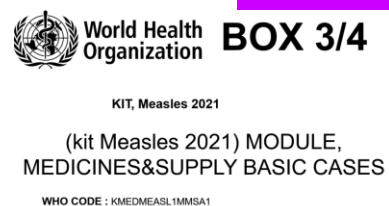
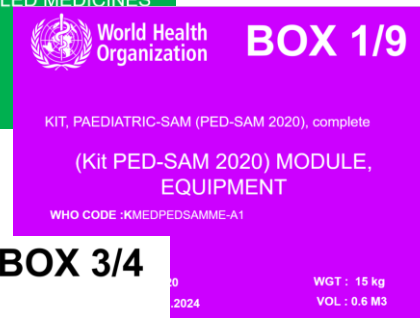
- Blood
- Cerebral spinal fluid -CFS (meningitis)
- TB respiratory samples, sputum induction, nasopharyngeal aspiration
- Stool
- Skin
- Urine
- Transport

Purpose: The CSK kit contains the necessary supply for the collection and transport of various biomedical samples

Target : hospitals, laboratories, epidemiologists' team, etc.

WHO Kit Color Label

Kit Name	colour label
IEHK	Green
NCDK	Yellow
PED-SAM kit	Purple
Measles kit	Pink
TESK	Red
Cholera kits	Orange
Pneumonia kit	White
other	Blue



Thank you



World Health
Organization



WHO

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Switzerland

WHO standard Emergency Health kits