

WHO UKRAINE COUNTRY OFFICE

WHO ERF GRADE 3

BY THE NUMBERS (since 24 February):

17.7 M



AFFECTED

15 600 157

(UNHCR)



LEFT UKRAINE

10 368



INJURED

6655

(OHCHR)



CONFLICT-RELATED
DEATHS

HIGHLIGHTS



©WHO Ukraine

■ With support from the European Union, WHO delivered a generator to a hospital in Dnipropetrovsk. The generator helps to ensure the hospital's continued operation and to save lives amid ongoing attacks on the country's energy infrastructure. Since 24 February, in coordination with the Ministry of Health (MoH), WHO delivered 59 generators and over 2000 tonnes of life-saving medical supplies across the country.

■ WHO, with financial support from Germany, has handed over a car to a mobile multidisciplinary mental health community-level team under the auspices of the MoH in Dnipropetrovsk.



©WHO Ukraine

The vehicle will enable mental health professionals to provide assistance to people with severe mental disorders and depression in their homes or elsewhere in the community. For further information, click [here](#).

WHO KEY FIGURES



2290
MT

SUPPLIES PROCURED



USD 4.3
BILLION

FUNDING REQUESTED



157

HEALTH CLUSTER
PARTNERS



11.5
MILLION

TARGET POPULATION



1500

PATIENTS RECEIVED
TRANSFER & MEDEVAC
SUPPORT

Source: [ERCC](#)



715

VERIFIED ATTACKS ON
HEALTH



33

NUMBER OF
AMBULANCES
DELIVERED

Since 1 March 2022



233

NUMBER OF
PERSONNEL DEPLOYED
& REPURPOSED IN
UKRAINE

SITUATION UPDATE

- On 23 November, following a wave of missile strikes on Kyiv that damaged important infrastructure, 70% of the city lost its power supply and has no piped drinking-water supply. According to the mayor, the water supply has already been restored on the city's left bank. As of 25 November electricity producers have covered more than 50% of Ukraine's consumption needs. However, the full power supply restoration timeline is not yet known. For further information, please see the following links: [1](#), [2](#), [3](#), [4](#), [5](#), [6](#).
- Following recent sustained shelling, the Zaporizhzhya Nuclear Power Plant (ZNPP) lost access to external electricity and is instead relying on its emergency diesel generators for the power it needs for reactor cooling and other essential nuclear safety and security functions. Furthermore, Energoatom announced that due to a decrease in frequency in Ukraine's energy system, emergency protection was activated at the Rivne, South Ukraine and Khmelnytsky nuclear power plants, which resulted in all power units being automatically disconnected. For further information, please see the following links: [1](#), [2](#), [3](#), [4](#), [5](#).
- The International Atomic Energy Agency (IAEA) reported heavy shelling close to and at the site of the ZNPP Last week. According to IAEA experts, site management reported damage in several places, including a radioactive waste and storage building, cooling pond sprinkler systems, an electrical cable to one of the reactors, condensate storage tanks, as well as a bridge between another reactor and its auxiliary buildings. However, radiation levels at the site remained normal and there were no reports of casualties. A group of agency observers confirmed a non-radioactive leak at the station due to damage to condensate tanks. According to experts, some of the damage is currently being repaired. For further information, please see the following links: [1](#), [2](#), [3](#).
- The chief physician at the Bakhmut Primary Medical Care Centre reported that no COVID-19 vaccines are available in Bakhmut, Donetsk oblast, as the city has at its disposal only one generator-powered refrigerator that is being used for insulin. For further information, click [here](#).

Leadership & Coordination

- Dr Jarno Habicht, WHO Representative (WR) in Ukraine, joined Dr Hans Henri P. Kluge, WHO Regional Director for Europe, on his four-day visit to Kyiv and Dnipropetrovsk.
- The WR visited Zhytomyr with a representative of the United States Agency for International Development (USAID) to hand over a mobile laboratory to the MoH. For further information, click [here](#).
- Together with the MoH, the Ukrainian Public Health Centre (UPHC) and the Centers for Disease Control and Prevention (CDC), the WR held a three-day retreat to discuss key directions of development in Ukraine's public health system. For further information, click [here](#).
- The WR continued high-level engagement with the MoH, authorities and partners in Kyiv on health, international affairs, and security.
- The Incident Manager coordinated WHO presence in a UN-led inter-agency convoy to Kherson as part of the UN Humanitarian Operation Planning and Coordination team.

HEALTH INFORMATION**Conflict-related health information**

- As of 28 November 2022, the Office of the UN High Commissioner for Human Rights (OHCHR) recorded:
 - 6655 civilians killed (2601 men, 1783 women, 173 girls, and 209 boys, as well as 37 children and 1852 adults whose sex is yet unknown); and
 - 10 368 civilians injured (2245 men, 1604 women, 215 girls, and 304 boys, as well as 250 children and 5750 adults whose sex is yet unknown).
- According to [the United Nations High Commissioner for Refugees](#), as of 22 November over 15.6 million cross-border movements to neighbouring countries, of whom just over 7.7 million and over 1.7 million crossed the border to Poland and Hungary, respectively.

Local media monitoring

- The MoH has reported that 50 hospitals in Kharkiv received generators. Now all facilities with resuscitation and operating rooms are supplied with generators. All the hospitals have enough fuel to start operating the generators if needed. The MoH, together with the World Bank, will purchase 1100 additional generators, which should soon be delivered to Ukrainian hospitals. Additional 170 generators for medical facilities will be provided by WHO. For further information, click [here](#).
- The MoH, together with the WOG petrol station chain, launched a project to provide Ukrainian hospitals with diesel generators to ensure that they can continue to operate even during emergency power outages. The first generator purchased as part of the project has already been installed in Kryvorizka City Hospital No. 3, and has sufficient capacity to power the entire hospital. For further information, click [here](#).
- The MoH of Ukraine Viktor Liashko stated that Ukrainian hospitals will not close even in blackout conditions, but noted that medical institutions need to reduce the number of rooms in use. "Hospitals will not be closed, but in certain hospitals the approach will be revised and the use of premises will be optimized to concentrate everything in smaller areas," said Minister Liashko. He further emphasized that the MoH has identified two categories of hospitals: clinics that can operate without a centralized power supply, and clinics that can operate without centralized heat and a centralized water supply. For further information, click [here](#).
- "Points of Invincibility" are now open in the Kherson region, and additional humanitarian aid distribution centres have also been deployed. As reported by the Ministry for Reintegration of the Temporarily Occupied Territories, such additional distribution points are open daily from 10:00 am to 2:00 pm. To receive humanitarian aid, Ukrainians need to present their passport and identification code. "Humanitarian aid from international donors and other regions of Ukraine continues to arrive in the Kherson region. Every day thousands of tonnes of food, hygiene products and other necessary items are brought here," the department says. For further information, click [here](#).
- More than 1100 Starlink stations have been deployed in the health-care system to ensure uninterrupted communication. "Today, in the health-care system, we already have more than 1100 Starlink stations in hospitals, while two or three weeks ago we only had 400. We are switching to alternative means of communication to ensure that communication between emergency medical assistance centres and hospitals is not disrupted," said Minister Liashko. For further information, click [here](#).

ATTACKS ON HEALTH

Verified reports of attacks (as of 30 November 2022) For further information, click [here](#).

715

Attacks


100

Deaths


129

Injuries


1

Countries & Territories



Impact ⓘ


630

ATTACKS IMPACTED FACILITIES


91

ATTACKS IMPACTED TRANSPORT


61

ATTACKS IMPACTED PERSONNEL


24

ATTACKS IMPACTED PATIENTS


174

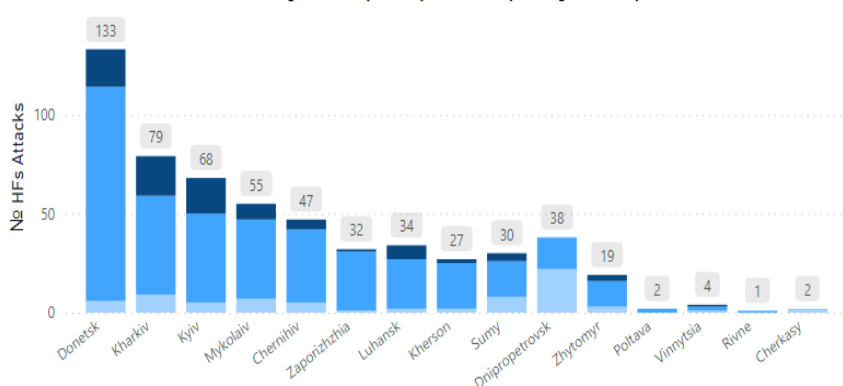
ATTACKS IMPACTED SUPPLIES


13

ATTACKS IMPACTED WAREHOUSES

Damage HFs per Oblasts, Ukraine

Minor Damage Partially Destroyed Severely Damaged/ Destroyed



Based on matched HFs names, as of 28 November 2022 there are 569 attacks on health facilities in 15 oblasts (including Kyiv city), 255 health facilities were attacked, on average around 430 thousand patients were treated per month in these health facilities according to pre-war data from eHealth.

HFs Attacked in Oblasts, Ukraine

Oblast, Ukraine	Nº Attacks HFs	Avr Nº of patients treated in HFs Attacked
Rivne	1	5170
Cherkasy	2	631
Poltava	2	4745
Vinnytsia	4	8080
Zhytomyr	19	36455
Kherson	27	24196
Sumy	30	32771
Zaporizhzhia	32	11894
Luhansk	34	30672
Dnipropetrovsk	36	27401
Chernihiv	47	44939
Mykolaiv	55	34469
Kyiv	68	23849
Kharkiv	79	82480
Donetsk	133	61735
In Total	569	429487

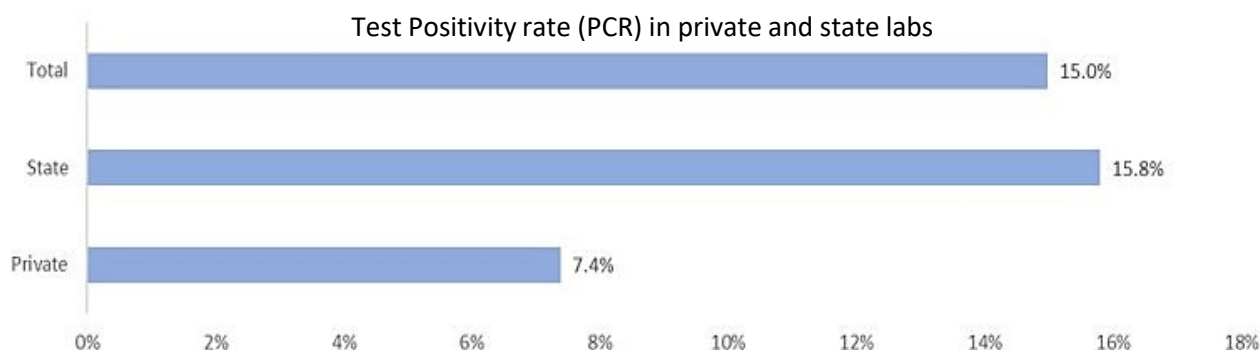
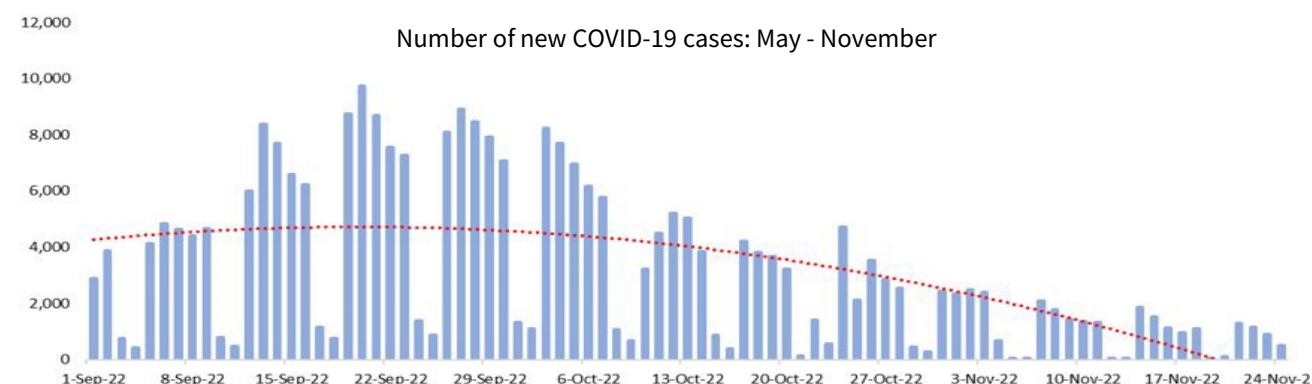
Surveillance

COVID-19 and other communicable diseases

- As of 24 November, the average daily number of new COVID-19 cases is at 713 a decrease from 965 per day in the previous week. The seven-day average daily polymerase chain reaction (PCR) tests performed decreased from 2196 compared to 1891 in the previous week (compared to 42 460 in the last week before the war). A similar trend is observed with rapid diagnostic tests performed in laboratories and at primary health-care and hospital level. A comprehensive weekly COVID-19 dashboard can be found [here](#).

Surveillance from open-source intelligence

- According to communication from the Lviv Center for Disease Control, a one-year-old child has died of meningococcal infection in the Lviv oblast. This is the fourth meningococcal-related death in the oblast, where a total of 12 cases of the disease have been reported in children and adults this year.
- In the previous reporting week, a COVID-19 outbreak affecting 17 people was reported in the Dnipropetrovsk oblast at a centre for internally displaced persons (IDPs). For more information, click [here](#).
- During the reporting week, 2986 patients with acute respiratory infections sought medical care in the Chernihiv oblast, which is 6% more than in the preceding week, but still 45% below the epidemic threshold.
- As of 1 November the number of IDPs who have left the combat zone of the Luhansk oblast since 24 February 2022 and are registered as temporary residents in other oblasts was 173 650. The largest number of IDPs was recorded in the Dnipropetrovsk oblast – 43 752, followed by the city of Kyiv – 20 438, the Kyiv oblast – 13 113, the Poltava oblast – 11 439, and the Lviv oblast – 11 054. For more information, click [here](#).



7-day average testing data for 24 November

UKRAINE COUNTRY OFFICE ACTIONS

Health operations – Emergency Medical Teams (EMT)

- There are currently 14 EMTs from six organizations. The supporting EMT are broken down as follows:
 - six Type 1 mobile health teams
 - one specialized surgical team
 - one Type 2 team (inpatient pending)
 - one training team
 - five specialized patient transfer and medical evacuation teams.
- EMTs are operating in ten oblasts, mainly in the east and northeast, south and the western hub. The main areas of activity continue to be:
 - trauma care (inpatient and outpatient)
 - rehabilitation (including burns and spinal cord injuries)
 - mobile health
 - patient transfer and medical evacuation
 - Trainings
- Surge support services for the newly accessible areas continue to be reassessed through close collaboration with the national authorities.
- On 13 November the Head of the Centre for Disaster Medicine held a meeting with international EMTs as a first step in building close collaboration and coordination, with a focus on the needs of the population in the Kherson oblast. The WHO EMT Coordinator and Head of the Centre for Disaster Medicine agreed to hold regular meetings to establish a proper, structured process of international EMT coordination and further deployment.
- The EMT Project Action Plan with the MoH has been drafted and approved. The rules of establishing a Disaster Medicine Team Coordination Unit were drafted and agreed with the MoH and the Cabinet of Ministers of Ukraine.
- A list of trainings that team members must undergo to work in their fields has been prepared. The next trainings to be held by national teams will include:
 - a rehabilitation course (basic)
 - mental health and psychosocial support (basic)
 - CBRN
 - mass casualty + triage course
 - wound management
 - clinical management of patients with malnutrition
 - palliative care.

UKRAINE COUNTRY OFFICE ACTIONS**Health operations – Emergency Medical Services / Trauma**

- WHO conducted two two-day trainings on chemical preparedness and response for 40 emergency medical services providers in the Kharkiv oblast, to discuss the main aspects of personal protective equipment use, decontamination and pre-hospital and early hospital care, as well as preparedness activities, and provided training on these aspects in the simulation exercises. The trainings took place on 22–23 November and on 24–25 November, bringing together over 40 participants.
- WHO conducted a three-day training on trauma care for 18 emergency health-care providers. The training took place on 25–27 November in Kyiv and covered the main aspects of pre-hospital trauma care in theoretical and practical sessions.

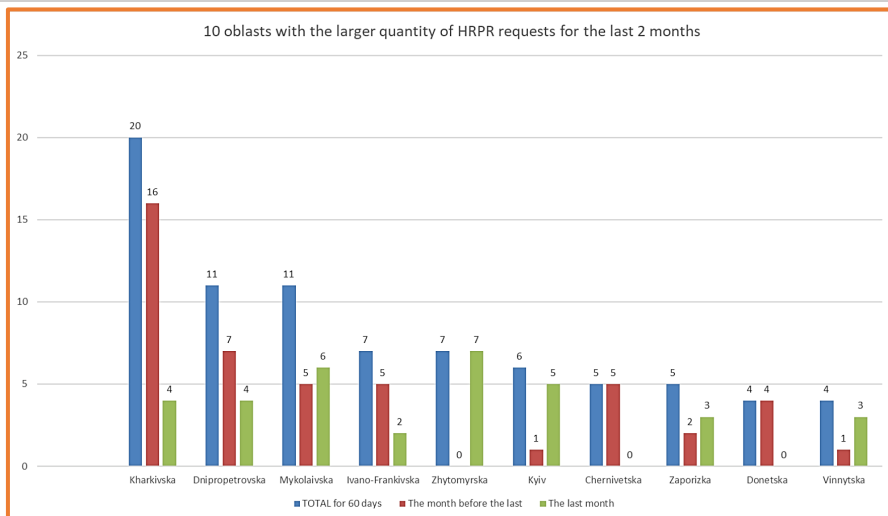
Health operations – Vaccine-preventable diseases and Immunization (VPI)

- The WHO CO participated in a VPD Task Force (TF) meeting, proposed that the Government of Ukraine draft a separate annex on COVID-19 vaccination in Ukraine during the war, and supported the Government's decision to suspend the validity of the current National Deployment and Vaccination Plan (NDVP) during the war.
- Another important topic under preliminary discussion by the VPD TF is the harmonization of partners' support to the Government of Ukraine under the National Immunization Programme, and in particular, alignment of activity plans for 2023. The WHO CO participated in a Government-led exercise aimed at aligning the activities planned for 2023 by all partners engaged in supporting the National Immunization Programme, and committed to the agreed efforts and sharing of the activity plan in accordance with the deadlines specified by the UPHC.
- The measles outbreak preparedness and response plan for Ukraine's regions was developed by the WHO CO and presented to the MoH, the UPHC and regional CDCs (rCDC) during the MoH-UPHC-rCDC retreat held jointly with the WHO CO on 24–26 November in the Ivano-Frankivsk oblast. Along with the measles outbreak preparedness and response plan for the regions, the WHO CO presented regional profiles on measles, rubella and poliomyelitis (polio) compiled for the five-year period 2017–2021 to support advocacy efforts in regions on measles outbreak preparedness and response and endorsement of the regional plan. Both documents have been officially submitted to the MoH of Ukraine for further review, approval, and submission to regions.
- The WHO CO has completed distribution to health-care facilities of 23 000 copies of job aids on the paediatric formula of the Pfizer-BioNTech COVID-19 vaccine, which were recently translated into Ukrainian, to support its safe and effective use by health workers in Ukraine.
- During the reporting week, the WHO CO translated and published a [video](#) on antibiotic use and COVID-19 that was developed by the WHO Collaborating Centre for Vaccine Safety.

UKRAINE COUNTRY OFFICE ACTIONS

Health operations – Health Cluster/Partner updates

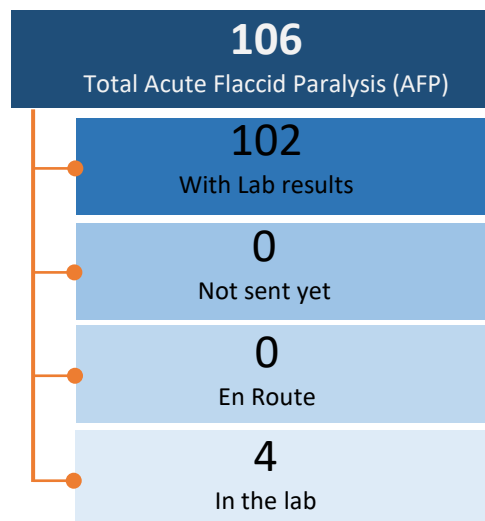
- Since its launch on 15 April 2022 the Health Requests, Planning and Response tool ([HRPR](#)) has been revised and upgraded, and 417 requests have been logged since the launch with ten oblasts logging the largest quantity in the past two months. Oblasts with the largest quantity of requests are Kharkivska, Dnipropetrovska and Mykolaivska.
- Health Cluster Ukraine received the Global Health Cluster at the National Health Cluster Meeting held on 23 November. The Global Health Cluster outlined the Cluster, Technical Working Group and member roles and responsibilities, and presented the Cluster Coordination Performance Monitoring (CCPM) that will be launched and shared with Partners in the coming weeks. The CCPM provides an opportunity for Partners to openly discuss how the Health Cluster functions, and to ensure that actions taken are well aligned with the core functions of the Cluster and the principle of accountability to affected populations.
- With the end of the year 2022 approaching, the Health Cluster is creating a new list of Partners for the health humanitarian response in 2023. Health Cluster Ukraine launched [the membership application for Partners](#) interested in becoming active Cluster members and for those implementing humanitarian health activities in line with the Humanitarian Response Plan in 2023.
- Health Cluster Bulletin #20 October is now available in [Ukrainian](#).
- As of 23 November Health Cluster Partners have donated 301 generators to health facilities across Ukraine, with the majority distributed in the Kharkiv (38), Kyiv (27), Chernihiv (24), Odesa (22), Zaporizhzhya (22), and Mykolayiv (22) oblasts.



UKRAINE COUNTRY OFFICE ACTIONS

Health operations – Polio

- The number of confirmed cVDPV2* isolates in Ukraine remains at two from acute flaccid paralysis (AFP) cases, with 19 asymptomatic contacts from two oblasts (Rivne and Zakarpattya).
- Inactivated polio vaccine catch-up vaccination of children aged from six months to six years is ongoing across Ukraine.
 - 6873 children received the first dose
 - 7080 children received the second dose
- As of 28 November 2022, number of AFP cases stands at 106. Four new cases were reported from three regions – Rivne (2), Zakarpattya (1), Khemelnyskyi (1). The Global Polio Eradication Initiative (GPEI) team visited the Chyzhykiv District Ambulance Centre and the Pidberiztsi Feldsher Centre in a suburb of Lviv. Like other district immunization facilities visited, those facilities also reported vaccine stockout issues.
- Preparations for educationist and private doctor trainings were concluded in Zakarpattya.
- The WHO Polio Outbreak Response Coordinator attended a retreat for all Regional CDC Directors in the town of Bukovel.

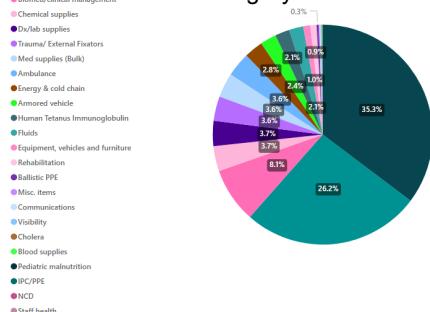


UKRAINE COUNTRY OFFICE ACTIONS

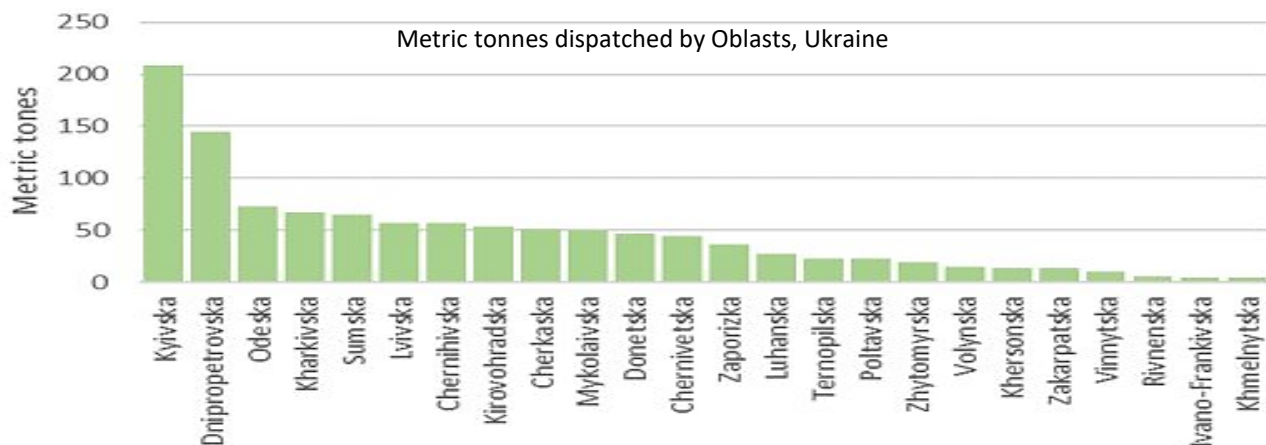
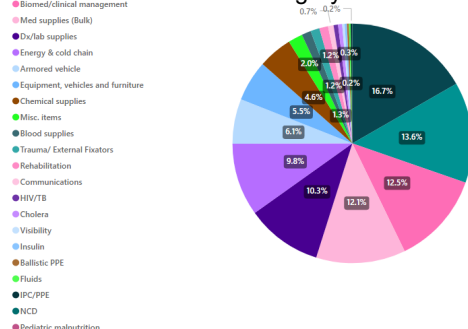
Operational Support and Logistics - OSL

- As of 27 November WHO warehouses in multiple locations have received medical supplies with a value of over US\$ 44 million and a total weight of over 1400 metric tonnes. They included Trauma and Emergency Surgery Kits (TESK) 2019, WHO trauma bags, Interagency Emergency Health Kits (IEHKs), etc.

Supplies delivered to Ukraine by category



Supplies to be delivered to Ukraine by category



Estimated Impact of Basic Healthcare and Trauma Kits

The below data represents estimations of patients reached with the trauma kits, the IEHK (basic health care - Interagency Emergency Health Kits), the NCDK (Non-communicable Disease Kit), and the Cholera Kits

Click here for impact by Oblast

Shipment Status to Ukraine

Delivered

\$3 840 286

\$ spent on trauma kits

Estimate # of interventions for trauma and emergency surgery enabled with TESHK supplied

22 689



Trauma and Emergency Surgery Kit (TESK) 2019
WHO trauma and emergency surgery kit (TESK) aims to provide materials and drugs to meet the needs of 50 patients requiring surgical care in emergency situations, assuming an average of two operations per patient.

\$1 383 879

\$ spent on IEHK

Estimate # of catchment population covered for basic care by the IEHK supplied

1 561 000



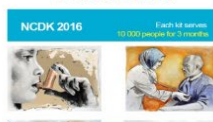
Interagency Emergency Health Kit (IEHK) 2019
The Interagency Emergency Health Kit (IEHK) basic module is to cover the primary health care needs of a catchment population of 1000 people.

\$1 921 326

\$ spent on NCDK

Estimate # of catchment population covered for NCD health needs by the NCDK supplied

2 390 000



Non-communicable diseases kit (NCDK) 2016
An NCD kit is a pre-packed set of essential medicines and medical devices to meet priority NCD health needs of 10 000 people for three months in emergencies, when medical facilities and regular supply has been disrupted.

\$127 407

\$ spent on Cholera

Estimated # of patients covered with the Cholera Kits supplied

501 000



Cholera kits 2020
The revised cholera kits 2020 are designed to help prepare for a potential cholera outbreak and to support the first month of the initial response. Each treatment kit is designed for 100 patients.

UKRAINE COUNTRY OFFICE ACTIONS

Communications

From 21 to 27 November the WHO CO published 34 Twitter posts and 21 Facebook posts that received a total of 90 552 and 62 988 impressions, respectively, covering topics such as: the visit to Ukraine of Dr Hans Henri P. Kluge, WHO Regional Director for Europe, and his meetings with the Prime Minister, First Lady, Minister of Health of Ukraine and ministry staff, United Nations Humanitarian Coordinator for Ukraine, volunteers, and representatives of various health-care facilities in Kyiv and Dnipropetrovsk, and a press briefing with Dr Kluge and Dr Habicht during the visit; deliveries of life-saving medical supplies to Kherson; an online course on vaccine safety for health workers in Ukrainian; a seminar for health-care workers to improve health outcomes for people living with HIV in the Khmelnytsky region; health attacks; WHO training on stress management; a video to mark the International Day for the Elimination of Violence against Women; a video on COVID-19 vaccination.

Social listening

The following rumours are being monitored and evaluated:

- Medicine retail price increases of 40% and the resulting lack of access to medicine among the general population.
- The state budget for 2023 and decrease in health-care spending, especially on medicines provided by the state free of charge, such as diabetes and cardiovascular medications, and the resulting expected increase in the mortality rate among certain target groups.
- Risks related to blackouts, increased mortality rate due to lack of access to emergency medical support as a result of disrupted telecommunication services, and increased trauma cases and motor vehicle fatality rates due to lack of street lighting.
- COVID-19 discussion is being revived with a new wave of rumours related to post-vaccination topics, such as increased post-vaccination mortality rates and increased post-vaccination syndrome rates.
- War-related disease searches are being monitored.

Media

- A press briefing with Dr Kluge and Dr Habicht on the health impacts of the war in Ukraine and the coming winter was held in Kyiv on 21 November, and was covered by over 150 media outlets in Ukraine. For more information, click [here](#).
- Dr Kluge's "Statement – Winter in Ukraine: people's health cannot be held hostage" was published on WHO/Europe's [website](#).



Production:

- Photo coverage of Dr Kluge's visit to Ukraine on 21–23 November
- Audio visual coverage of the Dr Hans Kluge visit to Ukraine on 21–23 November:
 - [interview](#) with Dr Kluge from Dnipropetrovsk; and
 - B-roll and interview with Dr Natalia But, General Director of Central Hospital #4 in Dnipropetrovsk, are being produced and will be published shortly.
- A video to mark the International Day for the Elimination of Violence against Women was published on the [Facebook](#) page of the WHO CO in Ukraine. A video on COVID-19 vaccination was published on the [Facebook](#) page of the WHO CO in Ukraine.

WHO UKRAINE COUNTRY OFFICE

WHO ERF GRADE 3

UKRAINE COUNTRY OFFICE ACTIONS

eLearning platform

OpenWHO.org: Free online courses in Ukrainian supporting health emergency response

Total number of Ukrainian language courses	21
Total number of enrolments in Ukrainian courses	4417
Total number of certificates issued in Ukrainian courses	1460
Total number of digital badges issued in Ukrainian courses	362

Key links and useful resources

- **Online courses & knowledge-transfer platform**
For updated interactive, web-based, online courses, click [here](#).
- **Emergency Medical Teams (EMT)**
For updated EMT network activities, click [here](#).
- **WHO Publications and Technical Guidance**
For updated WHO Publications and Technical Guidance on technological hazards and health risks in Ukraine, click [here](#).

WHO Ukraine Contacts

- WHO Representative, Jarno Habicht, habichtj@who.int
- WCO acting Incident Manager, Emanuele Bruni, brunie@who.int
- WCO WHE Lead, Guillaume Simonian, simoniang@who.int