This reporting week marks the first time that aid workers have been able to enter Kherson with humanitarian aid since Russian forces took control of the city in the first weeks of the war in early March 2022. Led by Denise Brown, UN Humanitarian Coordinator for Ukraine, less than 72 hours after the Government of Ukraine regained control of the city, the humanitarian convoy brought food, water, hygiene kits, shelter materials and critical household items, including bedding, thermal blankets and solar lamps, to more than 6000 people in Kherson. A health centre in the city will also receive medicines to treat more than 1000 patients over the next month. For more information, click here.

WHO, with support from ATscale and the Ukraine Humanitarian Fund, in cooperation with the Ministry of Health (MoH) of Ukraine, launched the project “Fast access to auxiliary technologies for internally displaced persons in Ukraine”. Health-care facilities in the Zaporizhzhya, Dnipropetrovsk, Sumy, Chernihiv and Kyiv oblasts will receive staff training and Assistive Technology (AT)10 kits to support internally displaced persons (IDPs) along the displacement pathway. AT10 includes a kit of 10 types of priority assistive products that have been identified for IDPs and refugees, including mobility and self-care products. For more information, click here.
Kherson is currently experiencing shortages of medicines, water and food but is expected to receive humanitarian supplies soon. Roman Golovnya, advisor to the Mayor of Kherson, stated that the first few trucks with humanitarian aid arrived in the city, adding that “in Mykolayiv, they are currently organizing cars for humanitarian workers to come to Kherson”. For further information, click here.

Starting on 14 November, residents of Kherson can obtain necessary medicines or undergo health screenings free of charge. Most pharmacies closed during the occupation but will reopen after the demining of the territories. A list of medical institutions providing life-saving medicines can be found here. For further information, click here.

The MoH of Ukraine handed over two ambulances to health-care institutions in the Sumy region: Sumy Regional Clinical Hospital and Sumy City Children’s Clinical Hospital. The ambulances have the equipment needed to provide timely and high-quality care and save the lives of patients. The MoH further stated that, with support from partners, it organized the delivery of humanitarian goods from 35 countries worldwide. More than 4000 Ukrainian health-care facilities received over 9000 tonnes of medical supplies. For further information, click here.

Due to shelling of three concrete poles of high-voltage power lines, most of the Kherson region has been left with no electricity or water. For further information, click here and here.

The WHO Representative (WR) met with the ministers and teams from the MoH and the Ministry of Social Protection to discuss rehabilitation and prosthetics in Ukraine.

The WR continued high-level engagement with the MoH, authorities and partners in Kyiv on health, international affairs and security.

The WR discussed WHO support for the newly regained areas such as Kherson with key interlocutors from relevant authorities.

The WR held a bilateral meeting with the MoH on WHO support, newly regained areas and humanitarian needs and priorities in the forthcoming months.

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 14 November 2022, the Office of the UN High Commissioner for Human Rights (OHCHR) recorded:
  • 6557 civilians killed (2559 men, 1752 women, 170 girls, and 204 boys, as well as 34 children and 1838 adults whose sex is yet unknown); and
  • 10 074 civilians injured (2176 men, 1563 women, 208 girls, and 297 boys, as well as 245 children and 5585 adults whose sex is yet unknown).

• According to the United Nations High Commissioner for Refugees, as of 8 November over 15.1 million Ukrainians crossed the border to neighbouring countries, of whom just over 7.4 million and over 1.7 million crossed the border to Poland and Hungary, respectively.

Local media monitoring
• Pavlo Kyrylenko, head of the Donetsk Oblast Military Administration, stated that the attack on 13 November has damaged a hospital, a maternity hospital and a school in Toretsk, with no casualties reported. For further information, click here and here.

• As 12 November is World Pneumonia Day, the National Health Service of Ukraine has concluded an agreement with hospitals under which treatment for pneumonia is free of charge as part of the Medical Guarantee Programme. People who have moved due to hostilities can seek help at any primary health care centre at their current place of residence. Patients will be examined by family doctors and, if necessary, given referrals for additional testing, examinations, or consultations with specialists. Patients can take advantage of services in medical institutions that have signed an outpatient care package agreement with the National Health Service. The addresses of the medical facilities can be obtained by calling the contact centre at 16-77. For further information, click here.

• The MoH reiterated that every adult needs to catch up on mandatory vaccinations missed in childhood. After the age of 16, it is necessary to get vaccinated against diphtheria and tetanus every 10 years. Vaccination against hepatitis A and B is recommended for adults, while influenza vaccination is recommended every year at the start of the flu season. For further information, click here.
ATTACKS ON HEALTH
Verified reports of attacks (as of 16 November 2022) For further information, click here.

688 Attacks
100 Deaths
129 Injuries
1 Countries & Territories

Impact
604 ATTACKS IMPACTED FACILITIES
86 ATTACKS IMPACTED TRANSPORT
24 ATTACKS IMPACTED PATIENTS
164 ATTACKS IMPACTED SUPPLIES
61 ATTACKS IMPACTED PERSONNEL
13 ATTACKS IMPACTED WAREHOUSES

HFs Attacked in Oblasts, Ukraine

Based on matched HFs names, as of 15 November 2022 there are 544 attacks on health facilities in 15 oblasts (including Kyiv city), 250 health facilities were attacked, on average around 421 thousand patients were treated per month in these health facilities according to pre-war data from eHealth.
COVID-19 and other communicable diseases

- As of 10 November, the average daily number of new COVID-19 cases is at 1045 a decrease from 1829 per day in the previous week. The seven-day average daily polymerase chain reaction (PCR) tests performed decreased from 2199 compared to 2488 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

- During the last week, two outbreaks were reported in the Dnipropetrovsk oblast: an outbreak of scabies reported in one of the psychoneurological boarding schools for adults – affecting 32 people; and an outbreak of COVID-19 at an IDP centre in the city of Dnipropetrovsk – affecting five people. For more information, click here.

- The number of cases of acute intestinal infection (AII) in the Dnipropetrovsk oblast decreased by 26% compared to the preceding week and was 5% lower than the number of cases reported in the corresponding week of 2021. A total of 56 sporadic cases of AII were registered.

- The poliomyelitis (polio) vaccination campaign for children aged six months to six years continues. As of 7 November (since September), 1143 children have been vaccinated (10% of the planned number of children). For more information, click here.

- Due to internal migration, the number of pregnant women in the Poltava oblast has increased, and doctors have recorded an increase in the share of premature births from 2–3.5% in the last year to 4–5% this year. For more information, click here.
WHO conducted a three-day training on trauma management for 18 emergency health service providers from the Odesa and Chernihiv oblasts. The training focused on pre-hospital trauma management and covered areas such as airway management, critical bleedings and vascular access with pre-hospital shock management principles, pelvic and spine trauma skills, trauma assessment skills, head trauma, chest trauma, abdominal trauma, extremity and pelvic trauma, as well as trauma in special populations.

WHO conducted a one-day training on the implementation of infection prevention and control (IPC) clinical bundles in Uzhhorod, with 15 staff members from five healthcare facilities participating. Clinical bundles and standard operating procedures on the prevention of catheter-associated infections, ventilator associated infections and surgical site infections were discussed, developed and provided to health-care facilities.

Supported by the European Union, WHO conducted ten trainings on the implementation of complex measures for the prevention of health-care-associated infections in August–November 2022. Over 200 epidemiologists, surgeons and anaesthesiologists from over 50 health-care institutions took part in the trainings held in Poltava, Odesa, Kyiv, Chernihiv, Zhytomyr, Chernivtsi, Ivano-Frankivsk and Uzhhorod. The next trainings will be held in Vinnytsya and Kropyvnytskyi.
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.

A Rubicon team is deployed to conduct an assessment in Kramatorsk in response to a need communicated by the MoH in the recently retaken villages in the Kharkiv and Donetsk oblasts. The team consists of two physicians, one paramedic, one team leader and two local translators.

The WHO EMT Coordinator and Head of the Centre for Disaster Medicine agreed to hold regular meetings aiming to set a proper and structured process of international EMT coordination and further deployment.

The EMT Project Action Plan with the MoH has been developed and approved. The rules of establishing a Disaster Medicine Team Coordination Unit were developed and agreed with the MoH and the Cabinet of Ministers of Ukraine.

eLearning platform

A Ukrainian-language version of the online course “Key considerations for SARS-CoV-2 antigen RDT implementation” is finalized and available on the OpenWHO platform. Access to the course can be found [here](#).

A Ukrainian adaptation of the online course “Influenza sentinel surveillance” was finalized and is being uploaded on both the OpenWHO and joint UPHC/WHO eLearning platforms.
WHO supports Oblast Centers for Disease Control and Prevention (OCDCPs) and hospital laboratories in the urgent repair and calibration of laboratory equipment. Certification of over 100 Class II Biosafety Cabinets is in progress. Calibration of small laboratory equipment (incubators, centrifuges, manometers, pH meters, automatic pipettes, hygrometers, etc.) in five laboratories is ongoing.

A second webinar in support of the nationwide capacity assessment of the clinical diagnostic laboratories was conducted on 31 October, with 113 participants in attendance. After the webinar the hosts received more than 260 emails with questions. The PowerPoint presentation and recording of the webinar were shared with the participants.

The webinar titled “Working with Seegene Allplex SARS-CoV-2/FluA/FluB/RSV & RV Master Assays” was held on 5 November, with 47 laboratory specialists participating. Seegene Allplex kits for the detection of respiratory pathogens by polymerase chain reaction (PCR) were provided to 26 OCDCPs as humanitarian aid from Seegene. The webinar discussed the specificities of the kits as well as the installation and use of special software to ensure better quality and increase automation.

The WHO Country Office (CO) team is preparing a training on the transfer of mobile technologies in PCR and enzyme-linked immunoabsorbent assay (ELISA) testing. The training is planned for 7–11 November 2022 for the staff of virology, bacteriology, and the particularly sensitive laboratories of the Zhytomyr OCDCP.
The Health Cluster National Meeting was held on 9 November, highlighting operational updates and priorities on Partners’ interventions in the newly regained areas in the Kharkiv, Donetsk and Kherson oblasts, rapid needs assessments and winterization activities.

Health Cluster Partners are working closely with local authorities to respond to the health needs in the newly regained areas in the Kharkiv, Donetsk and Kherson oblasts with at least six Partners conducting assessments in this regard.

Partners’ health response ranges from medicine and supply delivery to donations of generators, minor infrastructure repairs, and rehabilitation, to the deployment of mobile health services.

As of 9 November, Health Cluster Partners have donated 409 generators to health facilities across Ukraine. Most of the distribution was carried out in the Chernihiv (39), Kharkiv (33), Odesa (28), Mykolayiv (24) and Lviv (24) oblasts.

The Dnipropetrovsk Subnational Cluster continues to work closely with health authorities. It has served as an information exchange platform on the different needs and response in the newly accessible areas in the Kharkiv and Donetsk oblasts.

The Odesa Subnational Cluster is in close contact with the Department of Health of the Kherson oblast to discuss key health concerns and prepare a standardized health response in the area.

Since its launch on 15 April 2022 the Health Requests, Planning and Response tool (HRPR) has been revised and upgraded, and 391 requests have been logged since the launch. The winterization strategy and mapping was finalized and shared with the United Nations Office for the Coordination of Humanitarian Affairs.

Pipeline data collected by the HC from Partners contribute to the inter-Cluster effort to coordinate the delivery of supplies. As of 2 November, 30 Partners have contributed information on the status of supplies in the pipeline (delivered, to be delivered and ready for shipment).*

### Medicines, Medical supplies & Equipment*

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<td>811</td>
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</table>
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:
- 5725 children received the first dose
- 4763 children received the second dose.

About 84 epidemiologists from Lviv Regional and District offices were trained on acute flaccid paralysis (AFP)/vaccine-preventable diseases (VPD) and environmental surveillance as well as the use of key indicators to strengthen surveillance systems.

Plans are under way to further enhance AFP/VPD surveillance in Zakarpattya by engaging Roma community leaders, religious leaders, and academics on vaccine acceptance within their sphere of influence in the coming weeks.

Efforts were made to strengthen routine immunization services in the region by supporting supervision immunization activities at the Skole District hospital for the outpatient clinic in the village of Tukholka.

WHO visited the Skole District administration to advocate for the authorities to provide maximum support to immunization activities and to share relevant findings from the field with them.
WHO UKRAINE COUNTRY OFFICE ACTIONS

**Operational Support and Logistics - OSL**

- As of 12 November WHO warehouses in multiple locations have received medical supplies with a value of over US$ 636,031 and a total weight of over 21.5 metric tonnes. They included Trauma and Emergency Surgery Kits (TESK) 2019, WHO trauma bags, Interagency Emergency Health Kits (IEHKs), etc.

- On 7–12 November medical supplies and equipment with a total value exceeding US$ 367,247 and a total weight of more than 18.9 metric tonnes were delivered to 14 oblasts across Ukraine. They included IEHKs, trauma / surgery supplies (TESK 2019, surgical instruments etc), noncommunicable diseases kits, personal protective equipment, communicable disease supplies (for measles and rubella), biomedical equipment (such as data loggers, fridges), etc.

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**Supplies delivered to Ukraine by category**

- Medical supplies
- Personal protective equipment
- Non-communicable diseases supplies
- Communicable disease supplies
- Equipment, vehicles and transport
- Pharmaceutical supplies
- Other supplies

**Supplies to be delivered to Ukraine by category**

- Medical supplies
- Personal protective equipment
- Non-communicable diseases supplies
- Communicable disease supplies
- Equipment, vehicles and transport
- Pharmaceutical supplies
- Other supplies

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**Estimated Impact of Basic Healthcare and Trauma Kits**

- **$3,654,572**
  - 22,314
  - WHO trauma and emergency surgery kit (TESK) values in support of trauma and emergency surgery related with 500 patients

- **$1,383,879**
  - 1,561,000
  - The Interagency Emergency Health Kit (IHEK) fields asshole in to ensure the primary health care needs of a catchment population of 10,000 people

- **$1,920,981**
  - 2,390,000
  - The Emergency Trauma and Surgery Kit (ETSK) values in support of trauma and emergency surgery related with 500 patients

- **$127,407**
  - 501,000
  - The Cholera kits 2020 values in support of the 1,000 patients and 109,000 people
From 37 to 12 November the WHO CO published 13 Twitter posts and eight Facebook posts that received a total of 30,209 and 23,327 impressions, respectively, covering topics such as: the signing of a memorandum between the WHO in Ukraine and the MoH of Ukraine on the cooperation to strengthen the provision of mental health services in response to the challenges posed by the war in Ukraine; a press briefing on COVID-19 vaccination; a video on delivering 2.3 million doses of Pfizer vaccines to Ukraine; health attacks; providing assistive technologies for persons with disabilities and those injured or displaced due to the war; WHO training about strengthening health expenditure tracking for the State Statistics Service of Ukraine; Jarno Habicht’s interview for Interfax; and WHO’s IPC trainings on the prevention of health-care-associated infections.

Social listening
The following rumours are being monitored and evaluated:
- due to the blackout, the production of Ukraine’s three main drug manufacturers (Arterium, Darnitsa and Farmak) is expected to decrease while retail prices increase, with possible stock shortages;
- disruptions in the manufacturing process resulting in loss of entire product batches;
- retail pharmacies announcing that consumers should make home medicine stocks because of the blackout and stock shortages at pharmacies; and
- potential risks involved in fighting affecting a nuclear power plant, destroying the infrastructure facilities during shelling and their impact on the health-care infrastructure.
- COVID-19 discussion is being revived with a new wave of rumours related to post-vaccination topics, such as increased post-vaccination mortality rate among adults and children and increased post-vaccination syndrome. The vaccine pricing and purchasing negotiations remain confidential at the moment.
- War-related disease searches are being monitored. The frequency of online discussions about cholera is diminishing. Diphtheria is generating some interest only in several regions, such as Lviv and Kyiv.

Media
- An interview with Dr. Jarno Habicht for Interfax was published in Ukrainian and English, generating the following headlines:
  - WHO confirms more than 660 attacks on Ukrainian medical facilities since the war started; and
  - WHO delivers more than 1300 tonnes of medical supplies to Ukraine.

Risk communication community engagement (RCCE)
- A training in risk communication and effective communication with patients was conducted for 220 members of national EMTs in Ukraine.
UKRAINE COUNTRY OFFICE ACTIONS

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](#).

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