**WHO UKRAINE COUNTRY OFFICE**

**WHo ERF GRADE 3**

**BY THE NUMBERS (since 24 February):**

- **17.7 M** Affected
- **14 325 424** Left Ukraine
- **9776** Injured
- **6374** Conflict-related deaths

**HIGHLIGHTS**

Eight months into the war, Ukraine’s health-care system as a whole continues to function, but the rising cost, logistical obstacles and damaged infrastructure make access to basic services increasingly challenging for citizens. A recent WHO survey on health-care needs has found increasing barriers to access, but also identified ways to eliminate them. For further information, click here.

> The findings of the study can help government and health partners to identify critical gaps in developing the appropriate mid- and long-term response plan.

Dr. Jarno Habicht, WHO Representative (WR) Ukraine

- WHO continues to deliver life-saving medical supplies to newly accessible areas – in particular, in the Kharkiv region: Kharkiv, Izyum, Balakliya, Chuhuiv and Kupiansk. Supplies include surgical kits, medicines to treat chronic diseases, emergency health kits, concentrators, ventilators, and electric generators to ensure delivery of essential health services and provision of mental health and psychological support to those most in need. For further information, click here.

- The WHO Country Office (CO) in Ukraine, supported by the Government of Canada, has delivered multipurpose mobile tents that will facilitate rapid delivery of primary medical assistance in field conditions during emergencies. The tents are equipped with lighting, tables, beds and chairs, showers and toilets, generators, heaters and air conditioners, etc., and have been transferred to the Zaporizhzhya Regional Centre for Emergency and Disaster Medicine, for use in providing first and emergency medical assistance during the war. For further information, click here.

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**WHO KEY FIGURES**

- **2065** Supplies procured
- **USD 4.3 BILLION** Funding requested
- **155** Health cluster partners
- **11.5 MILLION** Target population
- **1415** Patients received transfer & MEDEVAC support
- **631** Verified attacks on health
- **33** Number of ambulances delivered
- **108** Number of personnel deployed & repurposed in Ukraine
In anticipation of the serious problems Ukraine is likely to face during the upcoming winter, on 20 October the European Union pledged humanitarian assistance to vulnerable populations in three of Ukraine’s regions. As part of the assistance, €175 million will be donated in the form of emergency shelters, food, access to drinking water and education, as stated by Janez Lenarčič, European Commissioner for Crisis Management, during a visit to Ukraine. For further information, click here.

On 21 October Water Mission declared that it would install ten additional safe water systems by December 2022 to boost continuous delivery of clean and safe water in multiple Ukrainian cities impacted by the crisis. This will be in addition to the 30 safe water systems installed since the conflict started in February 2022. Shipments of emergency water treatment equipment and water purification supplies, including hygiene kits, have been distributed in recent days to refugees fleeing the conflict. According to Josh Burns of Water Mission’s Disaster Response Team, two reverse osmosis systems provide nearly 800 gallons (3000 litres) of safe water per hour. For further information, click here.

On 17 October Ukraine's state nuclear energy company reported that Russian shelling had cut off the external power supply to the Russian-occupied Zaporizhzhya Nuclear Power Plant (ZNPP) in southern Ukraine. The substation supplying the ZNPP with electricity from the Ukrainian grid was damaged. In recent days it was reported that shelling across Ukraine deliberately targeted substations connected by high-voltage communication lines to the country’s nuclear power plants. Update: Russian shelling continued on 18 October, targeting energy and infrastructure facilities in Kyiv, Dnipropetrovsk and Zhytomyr. Ukrainian authorities reported that Russia had destroyed 30% of Ukraine’s power stations in a week. For further information, click here.

Leadership & Coordination

The WHO Representative (WR) continued high-level engagement with the Ministry of Health (MoH), authorities and partners in Kyiv on health, international affairs and security.

The WR coordinated with USAID, the United States Centers for Disease Control and Prevention (CDC) and all United States-funded health implementing partners to ensure a coherent approach in providing support to the MoH in the area of public health, health systems strengthening and resilience, and re-establishing health services in Ukrainian oblasts that were formerly areas of active hostilities.

The WR supported the WHO Regional Director for Europe in addressing the International BioThreat Reduction Symposium with opening and closing remarks on One Health initiatives and on the situation in Ukraine.

The WR opened a trauma training for the emergency medical services system in Kyiv.

The WR Meeting with Minister of Social policy on WHO’s support to long-term care and physical rehabilitation pathways.

The Incident Manager (IM) participated in the Area Humanitarian Country Team in Dnipropetrovsk focusing on coordination in the Dnipropetrovsk Hub and mental health needs.

The IM participated in an OCHA-led humanitarian operation planning and coordination session to plan next week’s convoys and implementation.
Conflict-related health information

- As of 24 October 2022, the Office of the UN High Commissioner for Human Rights (OHCHR) recorded:
  - 6374 civilians killed (2488 men, 1700 women, 167 girls, and 201 boys, as well as 34 children and 1784 adults whose sex is yet unknown); and
  - 9776 civilians injured (2078 men, 1494 women, 204 girls, and 289 boys, as well as 242 children and 5469 adults whose sex is yet unknown).

- According to the United Nations High Commissioner for Refugees, as of 11 October over 14.3 million Ukrainians crossed the border to neighbouring countries, of whom just over 6.9 million and over 1.5 million crossed the border to Poland and Hungary, respectively.

Local media monitoring

- As part of its humanitarian initiative to develop the national system of disaster medicine, Free Ukraine, a Swiss non-profit organization, provided Ukraine with 30 new evacuation vehicles based on Toyota Land Cruiser J78 SUVs. The cars were purchased thanks to Free Ukraine and international partners, with the support of the MoH of Ukraine. “The off-road evacuation vehicles delivered to Ukraine will work in the most difficult conditions, including along the line of hostilities, and may save the lives of thousands of Ukrainian citizens,” said Ganna Lysenko, President of the Free Ukraine non-profit. For further information, click here.

- The organizational efforts of the Cabinet of Ministers of Ukraine, the MoH, and the State Medical Service have resulted in establishing a modern laboratory on the premises of the Mezhyhirya Government Residence. “The updated laboratory will support almost all drug testing methods. It will be able to test medicinal products for the presence of hazardous substances, impurities, and identify undeclared substances in biologically active supplements. The location of the laboratory is also important, and once again proves that no place is untouchable, and that everything should serve the best interests of the people,” emphasized Minister of Health of Ukraine Viktor Liashko. For further information, click here.

- Due to sustained shelling by Russian forces, national power company Ukrenergo had to impose scheduled power outages. As medical facilities are also under threat of power outages, the relevant ministry introduced regulations that require medical institutions to have autonomous generators. Almost 400 generators were delivered to Ukraine as part of humanitarian aid and distributed to frontline medical facilities, the newly retaken territories, and hospitals that receive the largest number of patients. Health-care facilities can also purchase generators independently – this applies to profitable hospitals able to cover these purchases with funds from the National Health Service. The MoH will purchase another 1126 generators for medical institutions that do not have the funds to purchase alternative power sources. For further information, click here.

- “The Republic of Croatia is ready to accept wounded Ukrainian soldiers for treatment and rehabilitation,” announced Olena Kondratiuk, Deputy Speaker of Ukraine’s Verkhovna Rada, after a meeting with Tomo Medved, Deputy Prime Minister and Minister of Veterans Affairs of the Republic of Croatia. For further information, click here.
ATTACKS ON HEALTH
Verified reports of attacks (as of 19 October 2022) For further information, click here.

631 Attacks
100 Deaths
129 Injuries
1 Countries & Territories

549 ATTACKS IMPACTED FACILITIES
82 ATTACKS IMPACTED TRANSPORT
24 ATTACKS IMPACTED PATIENTS
158 ATTACKS IMPACTED SUPPLIES
61 ATTACKS IMPACTED PERSONNEL
13 ATTACKS IMPACTED WAREHOUSES

OpenWHO training

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

Total number of Ukrainian language courses 18
Total number of enrolments in Ukrainian courses 4131
Total number of certificates issued in Ukrainian courses 1313
Total number of digital badges issued in Ukrainian courses 332

UKRAINE COUNTRY OFFICE ACTIONS

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

- The WHO CO participated in VPD Task Force meetings held on 21 October and gave a presentation on key risks related to vaccine cold chain maintenance during the war and key directions/areas for an urgent action plan on maintaining vaccine cold chain during the war.

- WHO is preparing for the handover of 26 off-road vehicles for the needs of the VPD surveillance and immunization programme. An official letter requesting a plan for the distribution of the vehicles was drafted and sent to the MoH along with a distribution plan template.

- The WHO CO finalized the translation of 108 Infovaccines videos, with voiceover developed by the WHO Collaborating Centre for Vaccine Safety. All the translated videos are available on the WHO CO YouTube channel.
**WHO UKRAINE COUNTRY OFFICE**

### Surveillance

#### COVID-19 and other communicable diseases

- As of 23 October, the average daily number of new COVID-19 cases is at 2415, a decrease from 3273 per day in the previous week. The seven-day average daily polymerase chain reaction (PCR) tests performed decreased from 3410 compared to 3114 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

- An investigation is under way after increased concentration of chlorine in the air was detected in the city of Netishyn in the Khmelnytsky oblast. For further information, click [here](#).

- A laboratory-confirmed case of anthrax was reported on a farm in the Kyiv oblast. The pathogen, *Bacillus anthracis*, was isolated from pathological material from a goat during bacteriological studies. On 11 October, based on the suspected case, quarantine was established to prevent the spread of animal anthrax and appropriate response measures were undertaken. For further information, click [here](#).

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7 day average PCR Test result for week 42
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 362 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.

- As of 12 October, Health Cluster (HC) partners have reported completed and/or ongoing activities in 625 Ukrainian settlements reaching 8.63 million people. HC had collected 5W data from 155 partners, 140 partners reported completed and/or ongoing status of health activities, 15 reported planned activities. For further information, click here.

- The HC and its partners are developing the Humanitarian Needs Overview and Humanitarian Response Plan withing the Humanitarian Programme Cycle for 2023.

- The Public Health Situation Analysis (PHSA) for Ukraine is now available on the Public Health Center of Ukraine’s website in both English and Ukrainian. The PHSA, updated in July 2022, aims to provide all health sector partners with a common and comprehensive understanding of the public health situation to inform evidence-based collective humanitarian health response planning.

- Pipeline data collected by the HC from Partners contribute to the inter-Cluster effort to coordinate the delivery of supplies. As of 12 October, 30 Partners have contributed information on the status of supplies in the pipeline (delivered, to be delivered and ready for shipment).*

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### Medicines, Medical supplies & Equipment*

<table>
<thead>
<tr>
<th>Status</th>
<th>Items</th>
<th>Kits</th>
<th>Metric tonne</th>
<th>USD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delivered</td>
<td>31 036 270</td>
<td>177 108</td>
<td>3578</td>
<td>12.3M</td>
</tr>
<tr>
<td>To be Delivered</td>
<td>6 409 279</td>
<td>247 278</td>
<td>186</td>
<td>1.3M</td>
</tr>
<tr>
<td>To be Shipped</td>
<td>2 415 952</td>
<td>811</td>
<td>264</td>
<td>9.5M</td>
</tr>
</tbody>
</table>
WHO UKRAINE COUNTRY OFFICE ACTIONS

Health operations – Emergency Medical Services / Trauma

WHO conducted three one-day trainings on the implementation of infection prevention and control clinical bundles in the Chernihiv, Kyiv and Zhytomyr oblasts for a total of 40 participants from 10 health-care facilities. Clinical bundles and standard operating procedures (SOPs) on the prevention of catheter-associated infections, ventilator-associated infections and surgical site infections were discussed, developed and provided to health-care facilities.

Health operations – Health financing

- Expenditures of the general fund of the state budget in September amounted to 234.1 billion hryvnias (US$ 6.4 billion). A total of 86 billion hryvnias (US$ 2.3 billion) was transferred by the National Health Service of Ukraine (NHSU) for the implementation of the Medical Guarantee Programme. For further information, click here.

- In 2022 the NHSU concluded 25 emergency medical care contracts under the Medical Guarantee Programme with centres for emergency medical care and disaster medicine in the oblasts and the city of Kyiv, and paid about 9.5 billion hryvnias (US$ 258 million) for these services for January through October 2022. For further information, click here.

- In Ukraine, 690 health-care facilities have concluded contracts for the provision of services as part of the Inpatient palliative medical care for adults and children package. The NHSU paid these institutions more than 884 000 hryvnias (approximately US$ 23 900). Since the beginning of 2022, 37 380 patients have received free inpatient palliative care. For further information, click here.

- Since the beginning of the year, additional financing of insolvent hospitals has cost the state 837 million hryvnias (US$ 22.9 million). Hospitals in the Kirovohrad region alone received more than 53 million hryvnias (US$ 1.5 million) in additional funds, which was used to pay doctors’ salaries. Many of them had previously received such additional financing. For further information, click here.

- Since the beginning of the year, hospitals in the Kyiv region received an additional amount of almost 50 million hryvnias (US$ 1.4 million) to pay the salaries of their personnel. For further information, click here.

- The Committee of the Verkhovna Rada on Ukraine’s Integration into the European Union supported a bill on the ratification of the agreement between Ukraine and the EU on participation in the EU4Health programme. The committee also held its first webinar to present the algorithm for applying for small grants within the programme. For further information, click here.
WHO UKRAINE COUNTRY OFFICE ACTIONS

Health operations – National Laboratories

- The WHO CO provided a five-day hands-on laboratory training on mobile testing technologies for four members of laboratory personnel and one engineer of the Ternopil OCDCP in Bad Salzuflen, Germany. Hosted at Labor Krone facilities, the training focused on the Seegene Mobile Station, nucleic acid extraction, multiplex real-time PCR, automation, laboratory information systems, quality management, and laboratory management. The Mobile Station had been donated to Ukraine by Seegene along with a set of reagents for detecting COVID-19, influenza, and other respiratory infections.

- WHO continues to assist OCDCP (Oblast Centers for Disease Control and Prevention) and hospital laboratories in the urgent repair and/or calibration of laboratory equipment. The repair of nine steam sterilizers in six OCDCP laboratories has been completed, and the repair of six others at the Ukrainian Public Health Centre (UPHC) is being contracted.

- An SOP titled “Laboratory diagnostic general test protocol: 1. Catalase” has been drafted in English and sent to a group of laboratory experts of the WHO Regional Office for Europe for review and comments. This SOP, which concerns general test protocols used in bacteriological and detection laboratories, determines whether bacteria produce the catalase enzyme and indicates which test is performed to facilitate bacteria identification.

- The WHO CO continues to provide technical support for next-generation sequencing at the UPHC. Seventy-two SARS-CoV-2 genome sequences in samples collected in September were analysed and the following variants were identified: BA.4, BA.5, BA.5.1, BA.5.1.11, BA.5.1.2, BA.5.1.23, BA.5.1.3, BA.5.2, BA.5.2.1, BA.5.2.18, BA.5.2.20, BA.5.2.26, BA.5.2.6, BE.1.1, BF.11, BF.6, and BF.7. Sixty-nine previously analysed genome sequences of SARS-CoV-2 samples were uploaded to the GISAID database.
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).

- Four new AFP cases were reported this week.

- Inactivated polio vaccine catch-up vaccination among children aged from 6 months to 6: 1st dose is 61,456; 2nd dose: 80,493.

- The polio response team in the Zakarpattya oblast worked with the regional CDC to strengthen surveillance and immunization activities. In collaboration with the UPHC, the team conducted a series of capacity building workshops targeting family doctors and epidemiologists in the Uzhhorod and Mukachevo districts, training 73 health personnel members, of whom 67 (91.8%) were women. Other activities conducted in Zakarpattya included a series of preparatory meetings for upcoming World Polio Day events in the oblast, in collaboration with the UPHC, the Oblast CDC, UNICEF, Rotary International and others.

<table>
<thead>
<tr>
<th>Total Acute Flaccid Paralysis (AFP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>97</td>
</tr>
<tr>
<td>91 With Lab results</td>
</tr>
<tr>
<td>0 Not sent yet</td>
</tr>
<tr>
<td>0 En Route</td>
</tr>
<tr>
<td>6 In the lab</td>
</tr>
</tbody>
</table>
UKRAINE COUNTRY OFFICE ACTIONS

Operational Support and Logistics - OSL

- As of 22 October, WHO warehouses in multiple locations have received medical supplies with a value of over US$ 447,031 and a total weight of over 6.8 metric tonnes.
- On 15-22 October medical supplies and equipment with a total value exceeding US$ 605,708 and a total weight of more than 51 metric tonnes were delivered to various oblasts of Ukraine. Fleet preparation for the winter season has been finalized. A search is under way for a shuttle option for WHO staff across Ukraine.
- WHO is providing continued support to frontline medical facilities, prioritizing generators and medical supplies.
- WHO held a meeting with the MoH dedicated to supply planning, with a particular focus on generators, mobile tents, modular structures, ambulances, and noncommunicable disease (NCD) kit supply.
- Meetings were held with the MoH on NCD supply planning, with a particular focus on cancer treatment and 2023 supply planning for modular/tent-based solutions for medical facilities and ambulances.

Number of WHO modules delivered on a monthly basis to Ukraine since the 1st of March 2022

<table>
<thead>
<tr>
<th>Month/Kit</th>
<th>TESK</th>
<th>IEHK</th>
<th>PED-SAM</th>
<th>WHO CTT</th>
<th>NCD</th>
<th>WHO Trauma 1st aid kit</th>
<th>WHO Emergency Trauma backpack complete (2 boxes)</th>
<th>Trauma backpack kit WHO emergency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mar</td>
<td>2311</td>
<td>785</td>
<td>0</td>
<td>0</td>
<td>32</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Apr</td>
<td>29</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>210</td>
</tr>
<tr>
<td>May</td>
<td>869</td>
<td>408</td>
<td>95</td>
<td>80</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>173</td>
</tr>
<tr>
<td>Jun</td>
<td>102</td>
<td>450</td>
<td>23</td>
<td>60</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Jul</td>
<td>538</td>
<td>120</td>
<td>0</td>
<td>20</td>
<td>50</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Aug</td>
<td>1022</td>
<td>1129</td>
<td>0</td>
<td>0</td>
<td>254</td>
<td>3950</td>
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<tr>
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<td>0</td>
<td>157</td>
<td>500</td>
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<td>Oct</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>1000</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>5655</td>
<td>2992</td>
<td>118</td>
<td>160</td>
<td>493</td>
<td>5450</td>
<td>300</td>
<td>383</td>
</tr>
</tbody>
</table>

**TESK**: Trauma and Emergency Surgery Kit; **IEHK**: Interagency Emergency Health Kit; **PED-SAM**: Pediatric kit including SAM/MC Children; **WHO CTT**: Collection, Testing and Transfusion kit; **NCD**: Non-communicable disease
UKRAINE COUNTRY OFFICE ACTIONS

Communications

From 17 to 21 October the WHO CO published 24 Twitter posts and 15 Facebook posts that received a total of 50,220 and 42,895 impressions, respectively, covering topics such as: the latest interview with Jarno Habicht for the Suspilne news outlet; vacancies; an Injection Safety webinar for health-care workers; a video from the 1st Health Hackathon in Ukraine; the new Health Cluster Ukraine Bulletin; health attacks; the immunization programme against COVID-19 and nationwide capacity-building programme for health-care workers; a video of delivering life-saving medical supplies to the newly accessible areas in the Kharkiv region: Kharkiv, Izyum, Balakliya, Chuhuiv and Kupiansk; Jarno Habicht’s visit to the 3rd Annual Symposium on Diabetes in Humanitarian Crises; delivery of mobile tents to Dnipropetrovsk to facilitate the provision of emergency medical care; a WHO/Europe briefing on the escalating humanitarian emergency in Ukraine, the impact on health, and WHO response.

Social listening

Rumours are being monitored and evaluated in relation to:

- potential risks of blackouts, lack of water, food, and medical support due to shelling; 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

A TV interview with WR Dr Jarno Habicht for the Suspilne news outlet was broadcast during a news marathon.

Production

- Video coverage of the delivery of life-saving medical supplies to the newly accessible areas in the Kharkiv region – Kharkiv, Izyum, Balakliya, Chuhuiv and Kupiansk: Facebook (ENG and UKR).
- Video coverage of the 1st Health Hackathon in Ukraine: Facebook (UKR).
- Video coverage of COVID-19 vaccinations for people with a heart condition: Facebook (UKR).
WHO 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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