How Will Digital Health Help To Rebuild Ukraine’s Health Service?

Oleksii Iaremenko – Health Recovery Office, Ministry of Health for Ukraine
HEALTH CARE FACILITIES DESTROYED BY THE RUSSIAN MILITARY

1432 health care infrastructure facilities damaged

190 completely destroyed and cannot be restored

615 pharmacies destroyed and damaged

5 regions with the health care infrastructure most affected: Kyiv, Chernihiv, Donetsk, Mykolaiv and Kharkiv oblasts
HEALTH CARE FACILITIES DESTROYED BY THE RUSSIAN MILITARY
RAPID DAMAGE AND NEEDS ASSESSMENT (RDNA2) RESULTS

Needs = $16.4 billion

Reconstruction and recovery: building new infrastructure using a Building Back Better approach and immediately recovering partially damaged facilities.
Scale-up of critical health services:
- rehabilitation,
- mental health,
- access to primary care
- health emergency preparedness and response.

Over $543 million is urgently needed in 2023 as investments in service delivery and reconstruction.
Ukrainian healthcare system

Then:

2016 – start of the healthcare reform in Ukraine

by the end of 2018:

- 99% – state healthcare facilities changed ownership and became communal non-profit enterprises
- 98% – level of computerization coverage

Now:
eHealth in Ukraine has been operating since 2017

Central component
Central Database

Peripheral component
Medical information systems
Our strategy

➔ creation of a **single medical** information **space**

➔ **transition from paper** forms to structured electronic medical records

➔ ensuring **integration into the global** medical information space

➔ use of **international** medical and information **standards**

➔ public availability of **aggregated data** on healthcare

➔ **enabling environment** for the development of clinical decision support systems, personalized medicine, telemedicine, systems for processing big data, artificial intelligence, other fads and buzzwords.
Ukrainian Electronic Healthcare System today includes

- **35m+** patients registered
- **2b+** electronic medical records
- **17k+** medical and pharmaceutical institutions
- **360m+** electronic referrals
- **62m+** electronic prescriptions
- **20m+** medical certificate of temporary incapacity for work
Services Available now

- Registration of primary and specialized health care facilities, their employees
- **Contracting** of health care facilities
- **Declarations** with patients
- **E-prescription** for “Available Medicines”
- Electronic medical records
- Care plans
- **Electronic referrals** and prescriptions
- E-sick leaves
- **Medical certificates** (including COVID-certificate etc.)
- Neonatal screening
- Rehabilitation component
- **Concealment** of sensitive data
- **Integration** with the E-government application “Dija”), etc.
Some patient services
Available now

Declarations with FD
E-prescriptions
E-sick leaves
Medical documents (including COVID-certificate etc)

Approvals to medical data
Electronic referrals
Ongoing projects in telemedicine (humanitarian support):

Ongoing telemedicine projects (humanitarian support):

1. “Telemedicine consulting platforms on burn injury” by the telemedicine robots
2. “Telemedicine consulting on explosion and gunshot injury” by the telemedicine robots
3. Virtual surgery
4. Video Game Rehabilitation System
5. Telemedical bot “HomeDoctor”
6. Telemedicine for pregnant (cardiotocography platform)
Services In progress

- Personal patient’s cabinet
- Medical certificate for drivers
- Rehabilitation component 2.0
- Blood donation
- Big Data analysis platform
- State register of medical professionals
- State registers of medical equipment and devices
Thank you!