**UKRAINE Antimicrobial Resistance Update**

A. Salmanov, L. Iakovlieva, O. Golubovska, T. Glushkevych

Presentation for World Health Organization Multi-Country AMR Workshop

23 February – 27 February 2015

---

**Major AMR Threats & Challenges in UKRAINE**

Problems of AMR study and consumption:
1. A critical decrease in the efficiency of work of microbiological service, the closure of laboratories and brain drain.
2. Lack of proven methods of cooperation of clinicians with microbiologists.
3. Commonly used criteria for the prescription of antibiotics in our country - not always approved treatment regimens and principles of evidence-based medicine.
4. Opportunity to purchase antimicrobials by anyone who likes that in the pharmacy network very often without a prescription (including those in the so-called ‘preserved’).

---

**Surveillance of AMR & Consumption**

**Presence of a national surveillance system for AMR**

Order of the Ministry of Health of Ukraine dated 04.02.2012 No 235 “On the organization of control and prevention of postoperative inflammatory infections caused by microorganisms resistant to the action of antimicrobials”.

**Presence of a national monitoring systems for AM use**

The initiative group of researchers, created jointly by the Ministry of Health of Ukraine and the Department of Pharmacoeconomics, prof. Larya Vasylkina Iakovlieva, monitors the consumption of antimicrobial agents (AMA) in the pharmaceutical market of Ukraine. Results of the study are shown in Fig. 1. 2 Section 1.

Further work is planned to estimate the consumption of antibiotics.

**Participation in Central Asian & Eastern European Surveillance (CAESAR) system**

In 2011 Ukraine joined the research SOAR for the study of antibiotic resistance E. pneumoniae and E. influenza. It brings together leading pulmonologists and olaryngologists from different cities of Ukraine: Kyiv, Dnipropoltsiv, Vinnytsia, L’viv, Ivan-Frankivsk. A close cooperation with microbiological laboratories and microbiology departments of medical academies and laboratory of the Diagnostic Center of Dnipropoltsiv Medical Academy. The Laboratory of the Main Military Medical Clinical Center “GIIMK”, Kyiv. The goal of the National Program of modern approaches to clinical AMR prevention for doctors training, which is given in the textbook: The Foundations of Infection Control.

**AMR in Veterinary & Agriculture**

**Surveillance of antibiotic usage in Animals**

There are results of studies conducted by the State Research Institute of Laboratory Diagnostics and Veterinary and Sanitary Expertise on behalf of the State Veterinary and Phytosanitary Service of Ukraine (Fig. 1, 2) (Mezhenska N. A., 2013)

---

**Intersectoral Action & The National Action Plan**

**Intersectoral Coordination Mechanism:**

There are future plans towards setting up an ICM.

**National Strategic Action Plan:**

Improvement of the National Program of modern approaches to clinical AMR prevention for doctors training, which is given in the textbook: The Foundations of Infection Control.

---

**Success Stories**

Mention a recent successful campaigns or initiatives.

---

**Many Thanks to**

D. Matveva
State Enterprise “State Expert Center of Ministry of Health of Ukraine”

A. Salmanov, O. Golubovska
T. Glushkevych

The Shupyk National Medical Academy, Department of Pharmacoeconomics

Larysa lakhtina Department of Pharmacoeconomics National University of Pharmacy

---

**Antimicrobial Reference Laboratory**

**Presence of an AMR laboratory**

In 2012, a Research Center for Monitoring the Antibiotic Resistance of Microorganisms of the Ministry of Health of Ukraine in the city of Harry, B. Chemlan Center was created.

---

**Infection Prevention and Control**

There are instructions on how to prevent HIV infection in all hospitals of the Ministry of Health of Ukraine. State surveillance system developed guidelines for infection prevention.

---

**WHO European Strategic Action Plan**

1. SURVEILLANCE OF RESISTANCE

2. MULTISECTORAL COORDINATION

3. SURVEILLANCE OF CONSUMPTION

4. CONTROL IN VETERINARY & AGRICULTURE

5. INNOVATION & RESEARCH ON NEW DRUGS

6. AWARENESS, SAFETY & PARTNERSHIP

7. STRATEGIC OBJECTIVES