

Implementation of the best practices on prevention and control of AMR in Ukraine

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Enablers of “One Health” approach:

- ▶ Legislation
- ▶ Decree of the Cabinet of Ministers of Ukraine No 116-r from 06 March 2019
- ▶ National strategy:
- ▶ National Action Plan on AMR approved by the Decree of the Cabinet of Ministers of Ukraine
- ▶ National Action plan on AMR prescribes measures for sectors of human health, veterinary and agriculture sectors
- ▶ Action plan endorsed, but not budgeted, just started.



Inter-sectorial coordination body

- ▶ National multi sectorial working group on AMR and IPC issues was established by the Order of Ministry of Health of Ukraine on February 2018
- ▶ This group is not budgeted, it works for coordination the efforts of NAP implementation
- ▶ National multi sectorial working group involve stakeholders from human, veterinary, and environment sectors



Education and training workshops

- ▶ In cooperation with WHO country office info campaign for prudent use of antibiotics for general population was developed and its plan to start from the end of November 2019
 - ▶ Workshop “Strategy and measures to combat AMR in France and Ukraine” September, 17, 2019 in Bila Tserkva
 - ▶ AMR combating issues were included to the training video course on Public health (for healthcare professionals). Also the trainings for laboratory staff on using EUCAST methodology for DST and the trainings for regional staff on AMR and IPC issues were conducted during 2019
 - ▶ Training for doctors of veterinary medicine and veterinary paraprofessionals on awareness of AMR would be implemented from the end of 2019
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Surveillance of AMR in human and food producing animals

In human medicine:

- ▶ There is passive surveillance according to the Order of Ministry of Health of Ukraine #167 from 05.04.2007. The draft of Order for sentinel surveillance on AMR is on approval in Ministry of Health of Ukraine

In veterinary medicine:

- ▶ There is only passive monitoring for AMP in bacteria from animals.
- ▶ Specialists of State Scientific and Research Institute of Laboratory Diagnostics and Veterinary and Sanitary Expertise have developed this program. Submitted to the **State Service of Ukraine on food safety and consumers protection.**
- ▶ The normative documents of the European Union were taken as a basis (2013/652/EU: Commission Implementing Decision of 12 November 2013 on the monitoring and reporting of antimicrobial resistance in zoonotic and commensal bacteria)

Environment:

- ▶ Since 2017 Ukraine send reports to CAESAR network on the annual basis. It was 4 laboratories reported into CAESAR network and it's planned to involved other 6 labs for reporting in 2019 and expand the number of labs reporting to CAESAR network to 25 in 2020



Microbiology laboratory capacities for sample collection

Human sector:

- There are 440 laboratories in healthcare institutions on different levels of human healthcare system which provided laboratory diagnostics on AMR

Veterinary sector:

- **State Service of Ukraine on food safety and consumers protection (SSUFSCP)** has laboratory network:
- Central level: State Scientific and Research Institute of Laboratory Diagnostics and Veterinary and Sanitary Expertise;
- Regional level: 24 regional laboratories of SSUFSCP;
- Local (interdistrict, district, city) level: 133 laboratories of SSUFSCP;

Organizational and methodological coordination

- In veterinary sector the work is underway to implement a single laboratory database of relevant research, which would be operational by the end of this year.



Reference laboratories

- ▶ for AMR in bacteria from humans, and for AMR in bacteria from animals and food
- ▶ The coordination of labs on AMR issues in human health sector is done by microbiological laboratory of the **Public Health Centre** of the Ministry of Health of Ukraine, which will get a status of reference laboratory after completing its accreditation according to EN ISO 15189
- ▶ **State Scientific and Research Institute of Laboratory Diagnostics and Veterinary and Sanitary Expertise** for AMR in bacteria from animals and food



Surveillance of antimicrobial consumption

In humans:

- ▶ The **State Expert Centre (SEC)** of the Ministry of Health of Ukraine has its own electronic database for consumption of medicines in hospitals and private sectors. According to **Public Health Centre** request there is the possibility to get information about consumption of antimicrobials from SEC database.
- ▶ The general report for AMC for 2011-2018 would be send to WHO/Europe in November 2019 (annual reporting since 2017)

In food producing animals:

- ▶ National surveillance system on antimicrobial consumption is under development. National Action Plan in the fight against AMR foresees:
 - development and adoption of a legal act on the supervision of antimicrobial resistance in veterinary medicine (II quarter 2019);
 - development of the Order of the use of antimicrobials in veterinary medicine (II quarter 2020);
 - development and adoption of regulations on the restriction of the use of antimicrobials as growth promoters in animal husbandry (III quarter 2019).
 - Use of antimicrobials as growth promoters in animal husbandry is forbidden in Ukraine (Order of the Ministry of Agrarian Policy of Ukraine No15 from March, 04 2002).
- ▶ National electronic database of VMP, which includes antimicrobials is developed.
- Annual reporting about amounts of sales of antimicrobial veterinary medicinal products to OIE since 2016.



Actions to promote prudent use of antimicrobials

In human medicine:

- ▶ According to legislation framework antimicrobials in human health can use only over prescriptions of doctor.
- The development and revision of legislation in human and veterinary medicine in order to harmonize the legislation of Ukraine with the legislation of the EU on the use of antimicrobials which are used in the treatment of human diseases (WHO CIA list and OIE VCIA list).
- Access to modern international clinical treatment guidelines according to the Orders of the Ministry of Health of Ukraine #1422 from 29/12/2016 & #1752 from 26/09/2018

In veterinary medicine:

- ▶ A state monitoring program for residues of VMP and contaminants in live animals and unprocessed food of animal origin is currently in place in Ukraine which has financial and human resources (Order No 1006 of State Service of Ukraine on food safety and consumer protection from December 7, 2018)
 - ▶ Improvement the rules for the sale of VMP and antimicrobials, which would provide for the registration of all veterinary pharmacies and the development of a register of pharmacy establishments which retail VMP and implementation of the licensed distributors.
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Challenges and barriers for surveillance of antimicrobial consumption and promoting prudent use of antimicrobials

- ▶ Insufficient control on purchasing antimicrobials without doctors prescription in pharmacies
 - ▶ Insufficiencies of professional and public awareness about the problem of AMR an adequate level of public awareness of the risks of using antimicrobials
 - ▶ Resistance to changes from medical staff site
 - ▶ In Ukraine, the antimicrobial circulation in livestock is regulated by the Law "On Veterinary Medicine" and other by-laws documents. Currently the work is underway of new version of the Law "On veterinary medicine".
 - ▶ The sale of veterinary medicinal products in Ukraine is a non-licensed and low-risk activity that results in low levels of control.
 - ▶ Need to introduce the e-tracking system to monitor antimicrobials consumption in human and veterinary medicine
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Infection prevention and control (1)

In human health:

The orders of the Ministry of Health of Ukraine:

#234 from 10/05/2007 about prevention of healthcare associated infections in maternity hospitals

#236 from 04/04/2012 about prevent and control surgical infections

#684 from 18/08/2010 about prevention and control for TB

In animal health (including e.g. biosafety legislation):

- Law of Ukraine “On veterinary medicine”;
- Law of Ukraine “On food safety”;
- Law of Ukraine “On state control over the compliance with legislation in field of food safety, feeds, animal by-products, animal health and welfare”;
- Law of Ukraine “On feed hygiene” and other by-laws documents;
- Instructions on the control and prevention of animal/poultry infectious diseases



Infection prevention and control (2)

- ▶ In human medicine
IPC program formally realised by IPC committees on healthcare facility level according to Orders of the Ministry of Health. In the framework of implementation of NAP there are already developed a draft of new Order on implementing IPC on healthcare facility level. It is one document based on ECDC and WHO recommendations for IPC implementation
- ▶ Registration of HAI on hospital level and annual reporting by statistic form which is no effective. The draft of order for improving the surveillance system on HAI has been already developed in framework of NAP implementation.
- ▶ For food-producing animals in farms:
 - State plan for monitoring of infectious diseases of animal/poultry in Ukraine
 - State plan for vaccination
 - Veterinary sanitary requirements for farms and livestock enterprises



Public and professional awareness

- ▶ **International collaboration:**
 - ▶ The Swiss-Ukrainian project “Establishment of a food safety monitoring system based on risk assessment in the dairy production and marketing cycle in Ukraine” (SAFOSO) - 2016-2019
 - ▶ **Publications:**
 - ▶ Basic principles of rational use of antimicrobials in veterinary medicine /Yu.Kosenko, N.Ostapiv, L. Zaruma. - Scientific and Technical Bulletin The State Research Control Institute veterinary preparations and feed additives and Institute of Animal Biology. - 2015. - Issue 15. - № 1. - P.236-240.
 - ▶ The relevance of the problem of antibiotic resistance-microorganisms and methods for their solution/Yu.Kosenko, N.Ostapiv, L. Zaruma. - Scientific and Technical Bulletin - 2016. - Issue 17. - № 1. - P.124-135.
 - ▶ Monitoring of the use of antibiotics in veterinary medicine as a stage of solving the problem of combating resistance of microorganisms/Yu.Kosenko, N.Ostapiv, L. Zaruma. - Scientific and Technical Bulletin - 2016. - Issue 17. - № 2. - P.330-339.
 - ▶ Kosenko Yu. Importance of the prescription of antimicrobial agents and control of their distribution (with a possible e-tracking system) by the Veterinary Services for a proper implementation of the antimicrobial resistance strategy.–2018 – Europe – OIE Regional Commission. 1-13. <http://dx.doi.org/10.20106TT.2935>. Available from: https://www.oie.int/fileadmin/Home/eng/Publications_&_Documentation/docs/pdf/TT/2018_EUR2_Kosenko_A.pdf
 - ▶ Principle of solving the use of antimicrobial veterinary medicinal products (Experience of Member States of the World Organization for Animal Health (OIE) in the European Region) /Yu.Kosenko, N.Ostapiv, L. Zaruma. - Scientific and Technical Bulletin - 2019. - Issue 20. - № 1. - P.246-254.
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Thank you for attention!

