

УДК 619:614.

The improvement of laboratory testing system according to European requirements for example of laboratory and diagnostic veterinary medicine institutions in Odesa oblast

Mihelson L.P.

Odesa State Agrarian University

The analysis of the optimization laboratory and diagnostic institutions of veterinary medicine in Odesa oblast for food products laboratory control was carried out.

Keywords: *food safety, laboratory control, laboratory of veterinary medicine.*

In June 4, 2014 it was started EU project "Improving the system of food safety control in Ukraine", which aims to facilitate the improvement of the food safety system in Ukraine "from field to table" by the legislation of Ukraine, institutional infrastructure and state control in accordance with the regulatory and administrative policies and practices of the EU. The Ministry of Agrarian Policy and Food of Ukraine and the State Veterinary and Phytosanitary Services of Ukraine were defined among the project beneficiaries [1,2].

The main objectives of the Project are to promote the harmonization of Ukrainian legislation in the field of food safety "from field to table" with the EU legal framework; to train the employees of state control, veterinarians, customs service personnel whose activities are related with the field of food safety; to create a national system of data management and rapid exchange of information (risk notification) for food and feed, which would have characteristics similar to the RASFF (rapid alert system for food and feed); to optimize the network of national reference laboratories and official control laboratories, equipped laboratories selected new equipment, programmatic and technical support; to establish national systems for data management and information systems for laboratories, state government control as well as to obtain and to process data on import and export [4].

The aim was to analyze the results of optimization the laboratory and diagnostic institutions of veterinary medicine in Odesa oblast on food products laboratory control issues.

Materials and methods. The reporting documentation of Odesa Regional State Veterinary Medicine laboratory and electronic resources informational data of State Administration bodies in the field of veterinary medicine were served as the information base [3].

Results of researches. Laboratory and Diagnostic Service in Odesa Oblast - 84 state laboratories, including Odesa Regional State Veterinary Medicine laboratory, Odesa City Laboratory of Veterinary

Medicine, 24 state regional laboratories of veterinary medicine, 58 state laboratories of veterinary-sanitary examination on the markets.

Due to the increasing researches volumes and the necessity of introduction new methods and techniques the structure of Odesa Regional State Veterinary Medicine laboratory was changed, as follows:

- the departments on diagnostics and fight against leukemia, fish diseases, poultry diseases and mycological were reduced;

- the staff of chemical-toxicological, bacteriological, parasitological, virological department and selection and registration of product samples department was expanded.

Testing center of Odesa Regional State Veterinary Medicine laboratory is accredited in accordance with the requirements of DSTU ISO / IEC 17025-2006. Testing Center and other parts of the Odesa Regional State Veterinary Medicine laboratory certified under Regulation of authorization and certification in the state metrological system approved by the order №71 State consumption standard of Ukraine from 29.03.2005. All state certified laboratories were accredited to conduct activities in the field of metrological control.

All state laboratories of veterinary medicine in this oblast working with precursors - have an appropriate license.

Odesa Regional, Odesa City, Tatarbuniar regional laboratories were accredited to ISO / IEC standard. The work started in Kominternovo, Kotovsk, Rozdilnia State Veterinary Medicine Laboratories.

During the reporting period the SE "Odesastandardmetrology" it was certified 12 regional state veterinary medicine laboratories and 22 laboratories of veterinary-sanitary examination on the markets.

Kiliya and Tarutyn Regional State laboratories of veterinary medicine are authorized to work with pathogens of 2-4 pathogenicity groups without conducting sanitary research. Ivanovo, K.Oknianska and Frunzivska Regional State laboratories of veterinary medicine have permissions only to work with pathogens of 3-4 pathogenicity groups without conducting sanitary research.

Odesa Regional State Veterinary Medicine Laboratory in 2004, was the first in Ukraine among regional state veterinary medicine laboratories that was accredited by the National Accreditation Authority of Ukraine in accordance with the requirements of DSTU ISO / IES 17025-2001 in bacteriological, mycological, ichtyopatological, radiological, chemical and toxicological testing of animal, vegetable and biotechnological origin samples, and in 2007 and in 2011 passed re-accreditation with the expansion of the field accreditation.

Odesa Regional State Veterinary Medicine laboratory is certified to carry out works in the field of state metrological control and has the status of basic metrological service of Ukrainian Agrarian Policy Ministry in Odesa oblast and is certified by the certification authority of Ukrainian Agrarian Policy Ministry.

In departments of regional state veterinary medicine laboratories the proper conditions for laboratory staff in accordance with the rules of safety in the laboratory of veterinary medicine were created. These departments are equipped with modern and necessary equipment, glassware, reagents, they are allowed to carry out the necessary testing and monitoring studies.

On the basis of the regional state veterinary medicine laboratory annual seminars, training are carried out and methodological assistance are given to leading experts of regional state veterinary medicine laboratories and state laboratories of veterinary-sanitary examination on the market.

At the present time 24 regional state veterinary laboratories, 1 urban laboratory of veterinary medicine SM "Odesa City Hospital of veterinary medicine" and 58 state laboratories of veterinary-sanitary examination on the markets are certified and authorized to conduct activities in the field of metrological control.

Conclusions:

1. The existing network of laboratory and diagnostic institutions of veterinary medicine in Odesa Oblast provides a complete implementation of complex routine laboratory and diagnostic tests.
2. Departments structural optimization for diagnosis and fight against leukemia, mycological, fish and poultry diseases, expansion of state chemical-toxicological, bacteriological, parasitological, virological and department selection and register product samples will help to improve laboratory control systems in food safety.
3. Permanently update laboratories of all levels with modern devices, and metrological certification of measuring, expanding industry certification are gradually approximating the system of laboratory control in the field of food safety in accordance with EU requirements.

References:

1. Bashynskiy V.V. Reform of laboratory diagnostic network Statevetphytoservice- underwater part of the iceberg of National reform of state control and supervision in the field of food safety and quality. [Electronic resource].- Access: <http://vet.in.ua/>. Title from the screen.

2. Voynalovych A. The ways of development (regarding to the diagnostic laboratory and veterinary service, Sevastopol) /A.Voynalovych//Veterinary medicine of Ukraine.-2009.-№2.-p.43 (in Ukrainian).
3. Odesa Regional State Veterinary Medicine laboratory. Official Site [electronic resource].- Access: <http://vetlab.od.ua/>. Title from the screen.
4. EU project in the field of improvement the food safety control in Ukraine. Minagropolicy Press Service [electronic resource]. - Access <http://minagro.gov.ua/node/13927>. Title from the screen.