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## ANNOTATION

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**Beliy D.D.** Role of plasminogen activator in the pathogenic mechanisms of tumors

We conducted analysis of scientific information on the participation of plasminogen activator in the mechanisms of formation and growth of tumor tissue, presented in open publications. According to literary sources of this factor plays an important role in the process of angiogenesis, neoformations, migration and adhesion of neoplastic cells. Today, it is proved that the level of plasminogen activator correlates with prognostic value of aggressive behavior of tumors and shows that, taking into account the lack of study of the mechanisms of carcinogenesis (especially in animals), determines the actuality of this and the need to further his studies.

**Bassarab V., Lisova N., Maksymovych O., Mykhaljuk O., Nedilka G., Fedor G.** Hematological and biochemical indices of broiler serum at application of complex feed additive

The article analyzed data on contents of phosphorus and calcium in broiler blood serum at application of feed additive that contains chelates of copper, zinc, iron, manganese, cobalt. According to received test results, the influence on broiler metabolism of product that contained, besides chelate complex, lysine, was characterized by higher contents of calcium and phosphorus in serum.

**Borodynya V.I., Chmyl E.V.** Etiology, prevalence, diagnosis and effective treatment of sows with MMA syndrome.

The paper presents the results of research into the cause of the diseases of sows in the early postpartum period: metritis-mastitis syndrome-agalaktia (MMA) and determined the factors that contribute to the growing number of pathologies. The established prevalence of this disease among animals in large specialized breeding farms depending on the season, the course of generations, the results of diagnostic studies and clinical manifestation of the disease in sows. The results of determining the effectiveness of some methods of complex treatment of sows with MMA.

**Dmitrenko N. I.** The most widespread reasons of mortality of puppies to 14 day age.

Clinical survey and pathoanatomical opening of puppies of different breeds to 14 day age is conducted. It is established that pathologies of respiratory and digestive systems more often are registered, not seldom there is a danger of dehydration as the contractility of kidneys of newborns is imperfect and they excrete very big amount of urine. Newborn puppies perish with the phenomena of a hypoxemia, a hypoglycemia, a hypothermia, dehydration, a hemolytic syndrome and at bacterial infections.

**Zhurenko O.V.** Influence of denaturated suspension of setaria on organisms of guinea pigs

Change of blood morphological parameters after injection of boiled suspension from setaria in 1, 12 and 24 hours shows that suspension contains substances which are thermostable and causes in organism changes, typical for allergic reactions. Application of suspension from setaria resulted at laboratory animals in infringement of a physiologic condition that is characterised by body rise in temperature, increase frequency of heart reductions. Under these conditions breath became heavy, that

obviously speaks action of components of investigated suspension on activity of a tone of smooth muscles.

**Karpovskiy V.I., Krivoruchko D.I., Postoy R.V., Shaposhnik V.N.** Influence of nanoaquachelates of minerals on carbohydrate metabolism in cows during galactopoiesis

It is shown the results of investigation of the influence of nanoaquachelates of biogenic metals on carbohydrate metabolism in cows during the galactopoiesis. Established that as a result of feeding cows with mineral feed additive in the form of nanoaquachelates of minerals the variations in the basic parameters of carbohydrate metabolism in blood serum of cows: reduction of glucose, lactic and pyruvic acids are observed. The results indicate that nanoaquachelates of minerals stimulate carbohydrate metabolism processes in animals.

**Kladnytska L.V., Velychko S.V.** Identify grade elbow dysplasia in dog

X-ray method is identify grade elbow dysplasia in dog. X-ray is check in incongruities of the elbow joint - INC; fragmentation of the medial coronoid process of the ulna - FMCP; ununited anconeal process - UAP; osteochondritis dissecans - OCD of the medial humeral condyle.

**Kozlovskaya G.V.** Adhesion characteristics of strains *Yersinia Enterocolitica*, isolated from samples of products of slaughter cattle.

Investigated the adhesive activity of 12 strains of *Y. enterocolitica*, isolated from samples of products of slaughter cattle and ground beef. Six of the strains (50%) proved to be highly adhesive. The average of their adhesive activity was within  $4,5 \pm 0,36$  -  $4,9 \pm 0,24$ . Three strains isolated from the gall bladder, liver and lymph nodes were characterized by low adhesiveness (ARA amounted to  $1,9 \pm 0,19$ ;  $1,1 \pm 0,07$  and  $1,2 \pm 0,05$ , respectively). The last three strains (E-8, E-10 and E-13) had average adhesion activity.

**Kryva O., Chumak V., Sukhin V..** Bioassay on ciliates disinfectants for water which containing metals

In order to control the pollution of drinking water supply systems, as well as a warning to strengthen the growth of opportunistic pathogens in the gut, on the surface of the equipment and within livestock buildings prompted a lot of drugs. Some of these drugs contain metals in their composition in the form of various compounds. A comparison of the toxic effects of products containing copper, silver and zinc to the test objects *Tetrahymena pyriformis*: LK100 is for the "Sumerian silver" 1:10000, and the "Daakva Safe" 1:100000.

**Serdioucov J., Makartchuk A.** Pathological morphology of pyometra of the cats

Researched the Histological changes to womb of cats, operated in clinics of veterinary medicine of Kyiv city with diagnosis pyometra on length 2010. Showed the changes complex, what may be used for the postmortal diagnostic of that disease. Happens to the comparison of the revealed change with literary data.

**Maksin V.I., Aretynska T.B., Trokoz V.O.** Antiseptic and medical "Jodis-concentrate" properties by silk production.

On the basis of the researches which results are described in article, raw materials use for production of the iodated products "Jodis-concentrate" as an effective antiseptic and medical preparation is recommended when processing oak silkworm grain. When processing grain the preparation provides oppression of body height of pathogenic and opportunistic bacteria and mushrooms on an egg surface, accelerates and increases caterpillar revival from grain, improves the insects immune status. It positively influences a survival of caterpillars (raises for 10,9 %), and also gives the chance to receive more (for 5,6 %) high-quality cocoons.

**Muzyka D.V.** Antigenic properties of the associated inactivated preparations of influenza virus and Newcastle disease virus at the introduction to poultry of different species

The results of the study of antigenic characteristics of inactivated associated preparations of the viruses of highly pathogenic avian influenza and Newcastle disease at intramuscular injection to different poultry species (chickens, geese, ducks and turkeys) are presented in the paper. There has been determined the level of antibodies in chickens, ducks, geese, turkeys after a double injection, and the absence of mutual influence of inactivated influenza virus and Newcastle disease virus in poultry of various species. Findings suggest the need to continue work on search of more antigenically active virus strains.

**Sakhnyuk V.V., Bukalova N.V.** Criteria of estimation of indexes of quality and un-concern of meat of pigs, patients echinococcus

At the veterinary and sanitary expertision of products of coalface of pigs, patients echinococcus, it is set that they have not only lower indexes of quality but also sown de bene esse by a pathogenic and pathogenic microflora and is the potential source of the food poisonings of people. On the basis of findings the scientifically grounded ways of perfection of their the veterinary and sanitary estimation are developed. To conduct the sanitary evaluation of meat raw material as a result of bacteriologic examination in the presence of pathogenic microflora, that not foreseen by "Rules of for pre-slaughter veterinary examination of animals and the veterinary and sanitary expertision of meat and meat products" (2002).

**Soloviova L., Songal I.** The treatment of chickens eymerios.

A large spread of eymerioz of chickens was contributed to by keeping the floor by a significant concentrations. The basis for the diagnosis of eymerioz were clinical studies, the results of autopsy and laboratory study of bird feces. The analysis of the data shows a high efficiency of amprolium 22% for treatment of eymerioz of chickens, allowing it to be recommended for use in this disease.

**Tyshkivska N.** Quality control of cooked sausage, made in TOV "Policy", the Bila Tserkva.

It is established that organoleptic, physical and chemical research of sausage, what made in the minds of TOV "Polis" meet DSTU 4591:2006. Its has been seen a change of active acidity sausage on different stages process production and impact the pH value on the finished product quality. Moisture content of one of the investigated parties slightly exceeded permitted levels (45,43%), the mass fraction of sodium chloride and sodium nitrite meets the standard, indicating the quality of the finished product.

**L.G. Ulko.** Dynamics of the immunological and biochemical parameters of blood of cows during the associative bacterial diseases of extremities.

The development of infectious disease in cows is characterized by limb immunological and biochemical indicators of changes in blood serum. In the blood serum of cows with pyo-necrotic lesions of the distal extremities caused by association of opportunistic pathogens, showed a significant decrease in total protein, albumin and alpha-globulin and increased gamma-globulins. Reduction of albumin with a simultaneous increase in the activity of AST and ALT in blood serum of cows with bacterial lesions of the extremities indicates violations of their liver function.

**Hitska O.** Veterinary and sanitary control the quality and safety of smoked sausage.

In the article throw light the questions of veterinary and sanitary control during smoked sausage production, define a quality (organoleptic, physical and chemical) and safety (microbiologic, heavy metals content) indexes of products, conduct an estimation of results for meet the requirements normative and technical documents. The research showed that the system by safety of food products make it possible to conduct veterinary and sanitary control during smoked sausage production and provide a quality and safety of food products.

**Chumak V., Svizhenko I.** Expedience of application of dry Acidificator for correction of disorders of digestion At young pigs.

With a purpose warnings and corrections of disorders of digestion at drinking of water with alkaline pH of young pigs it is expedient to use forages acidificators. The fixed organic acids are the alternative of antibiotics, they improve conversion of forage, the average daily gain increase performance of animals, morbidity and mortality are reduced. Acidificator «Bact-a-cid» positively influences on the status of animals during weaning and fattening. At the use for 2 kg on a 1 tone of the mixed fodder from weaning stimulated the improve of average daily gain increase on 10-24g, increase of safety on 1-2%.

**Sharandak P.** Influence physiological condition ewes of markivska district lugansk region on phosphoric-calcium exchange.

In article are presented datas, about changes of exchange calcium and phosphorus beside sheep Markivka district Lugansk region. The content of copper, manganese and zinc in soil of the region within rate, revealed average pollution of lead and cadmium. The ration of ewes not completely balanced by nutritional and biologically-active materials. The level general calcium in serum blood of suckling sheep grows on 32,1 %, but beside sheep on 51,1 %, in contrast with pregnant animal that forms  $1,9 \pm 0,04$  mmol/l. The content of the inorganic phosphate in serum blood is  $1,79 \pm 0,03$  ммоль/l that less on 86,6 %, than beside suckling animal, and on 50,3 % - idle. The activity of the alkaline phosphatase in serum blood of suckling and idle sheep grows, in contrast with pregnant animal.

**Yachenko I.V., Senenko E.O.** The scientifically – metodical ground of the veterinary and sanitary examination, determinations of quality and safety of chickens – broilers slaughter products at the use Nutricevtic Argento – Nanoaqachelat end Sel-Plex.

The complex of the constrained methods of researches (clinical observation, and haematology, organometric, physical, biochemical, microbiological, histological, biometric methods) was certain. This methods together allow to set the indexes of quality and safety of products of chickens – broilers slaughter at the use of nutricevtic silver nanoaqahelat.