

Presence of cellular components in vaccines

Valentina A. Divocha

Lugansk State Medical University, Rubezhnoe, Ukraine

Abstract

Now preventive maintenance of flu by means of vaccination is conventional and is supported by experts of all world. To check presence of trypsin-like proteinase and its inhibitor in anti-flu and other vaccines and in immune biological blood preparations of domestic and foreign manufacture. In work following commercial preparations have been used: "Interferon leukocytic human", the Immunoglobulin of human placental, donor 10 %, a gonococcal vaccine a herpetic vaccine (Odessa), vaccines for preventive maintenance of a flu, a season 2002/2003 - "Influvac" which consists of hemagglutinins and a neuraminidase of a virus of a flu, strains: A/Moscow/10/99 (H3N2), A/New Caledonia/20/99 (H/N), B/Hong Kong/330/2001, "Fluarix" which consists of hemagglutinins of strains (H1N1) A/New Caledonia (H3N2), A/Panama Shandont 17/97 and "Vaxigrip" which consists of three strains of a flu virus, a vaccine for preventive maintenance of a hepatitis A - "Avaxim", a blood preparation received from a heparin (the antifactor of Ha) - "Fraxiparine", a preparation from a blood of calfs for a hemodialysis - "Solcoseryl". Preparations were investigated before the termination of a period of validity. Results: Work is devoted to study presence of components of a cell-owner and its inhibitor in vaccines and blood preparations and to define presence trypsin-like proteinase and its inhibitor in vaccines and blood preparations. It is revealed that anti influenza vaccines (influvac, vaxigrip, fluarix), herpetic and tularemic vaccines contained an inhibitor of trypsin-like proteinase in considerable quantity. Commercial preparations from a human donor blood (an immunoglobulin, interferon, fraxiparine and solcoseryl) contained as trypsin-like proteinase, and its inhibitor. The immunoglobulin contained in 4,0 times more inhibitor, than interferon. Conclusions: Hence, the modern vaccines applied to prophylaxis and treatment, are insufficiently cleared. Presence of cellular components (enzymes and inhibitors) could lead to allergization and follow complication which is not very known.

Received date : July 14,2022 Accepted Date: July 21,2022 Published Date : July 28 ,2022

Biography

Valentina A. Divocha graduated in the year 1967 from I.I. Mechnikov Odessa State University, Faculty of Biology (Department of Virology). In 1973 she continued her postgraduate study at Odessa Institute of Virology and Epidemiology (specialty virology). In 1974 she was awarded candidate degree with the thesis "Interaction of Coxsackie B viruses with sensitive cell cultures and their antigenic relationships." In 2009 she was awarded doctoral degree with the thesis entitled "Biological basis ant proteinase

therapy of influenza". Under her leadership performed a doctoral and two master's theses. She has scientific experience of over 35 years and has more than 190 scientific publications, 3 monographs, textbook "Virology" (2012), 10 patents, 3 innovations. She is currently working as the head of the Laboratory of Experimental and Clinical Pathology for Ukrainian Research Institute of Transport Medicine, and also the supervisor of the nine research programs in virology and biochemistry.