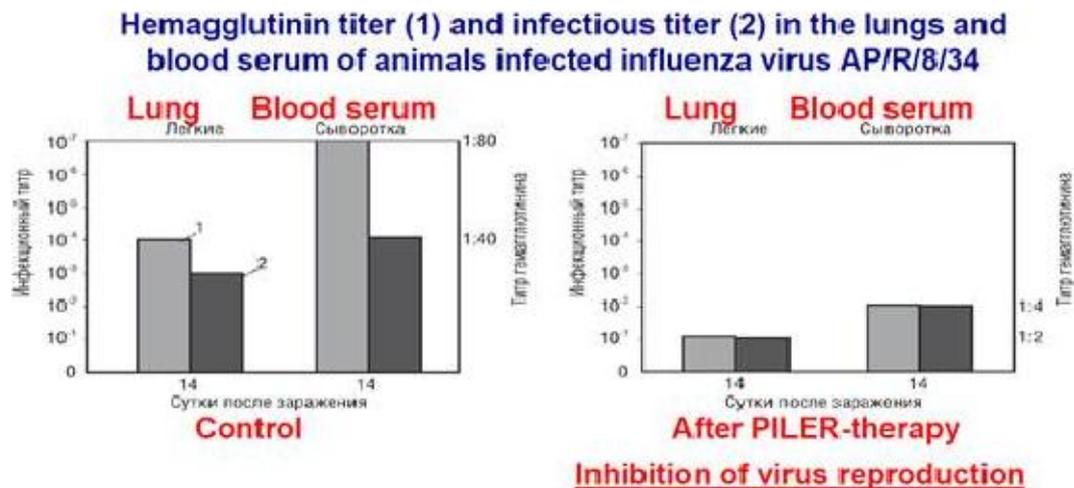


Dear Colleagues,

In reference to the webinar held on 13th March 2020, you had an opportunity to listen to Prof. Gulyar and his scientific findings on the beneficial use of Bioptron devices in the fight against the virus. You should of by now received the PPT that was used at the Webinar. It has come to our attention that the following slide needs additional explanation which on this occasion we are providing to you.



[Дивоча, 2002]

In an experimental setup, mice were infected with influenza virus H1N1 AP/R/8/34 (the virus of influenza flu) at different doses (lethal and sublethal) (refAnthology, 2002). Half of them were used as the control group (infected by the virus) and the other half after infection of the virus were treated with Bioptron twice a day during 11 days. The researchers measured the survival of the mice, the hemagglutinin levels (virus protein implicated in the fusion of viral particles with cells) and the infection titer in lungs and the blood serum of both groups of mice.

First conclusion of these studies is that 0% of mice infected with the lethal dose of virus survived, but in the mice infected with the same dose and treated with Bioptron the survival was 20%. The same effect was reported in mice with sublethal dose: without Bioptron the survival was 50% and with Bioptron the survival was 80%.

The scientists discovered that 14 days after infection, the lungs and the blood of animals not treated with Bioptron were very affected by the viral infection - with high levels of hemagglutinin and high infection rate, meaning a high viral propagation in mice tissues. On the contrary, mice treated with Bioptron showed 4 times less hemagglutinin levels in lungs and blood, and the infection rate was reduced in more than 20 times. Decreased levels of the virus show that its reproduction was suppressed under the influence of Bioptron Hyperlight Therapy. This result shows an increase in the survival index of tested animals. Mice treated with Bioptron were fighting better and controlling better the capacity of infection against the influenza virus.

Conclusion. Treatment with Biopton Hyperlight Therapy leads to the restoration of the protective activity of the blood. This impairs the reproduction of the virus and the viral infection of the cells, thus increasing the survival of animals.

REFERENCE:

Divocha V.A., Mikelashvili M.T., Kosteva T.K. (2002) A study of the effects of polarized light generated by Biopton device at lethal virus infection. Odessa State Medical University. Anthology of Light Therapy. Gulyar Sergiy. 2009