Conference presentation

Protective action by homeopathic drug Cina C6cH and immune modulator «Recombinant human INTERLEUKIN-2» against experimental trichinosis of mice

Olga V. Rudneva, Liudmila A. Napisanova, Vera. K. Berezhko

Trichinellosis caused by the gastrointestinal nematode *Trichinella spiralis* occurs in humans, domestic animals and wild animals. This heavy ubiquitous parasitic disease. The muscle phase of the parasite of difficult to controlling. Homeopathic drugs such as Cina have anthelmintic and immunostimulation properties.

The purpose of this study was assess the protective efficiency of homeopathic drug such as Cina C6cH and Roncoleukin® (recombinant interleukin-2 (rIL-2) immunostimulation) against experimental trichinosis, that can affect the muscle phase of the parasite *T. spiralis* in mice.

An assay was carried out on 30 white outbred mice. These were divided into tree groups of ten mice each.

The group 1 were treated with the Roncoleukin® (100 IU/per mouse in 0,2 ml sterile saline intramuscularly, twice with 48 hours intervals); the group 2 - desoldering dissolved in water Cina C6cH (under the scheme). The group 3 received 0.2 ml of sterile 0.9% NaCl. After a 21 day regimen, the groups were inoculated with a dose of 80 ± 5 units of *Trihinella spiralis* larva per mouse. After 90 days of incubation, the mice were euthanized and dissected for evaluation.

The maximum protection was obtained in mice immunized with Roncoleukin® (80,61%; $869,5 \pm 16,6$ larva/per animal). The protective effect in the group immunized by Cina C6cH was of 36,67 ($2840,5 \pm 183,3$ larva/per animal)%. In control group invasion on muscle phase *T.spiralis* was $4485 \pm 430,6$ larva/per animal/

In conclusion, the use of homeopathic drugs also reduces in the number of infective *Trichinella spiralis* larvae in mice and has a synergistic effect on the treatment.

Keywords: *Trichinella spiralis*, immunostimulation , Cina C6cH, Roncoleukin, Russia.

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