

Опубликовано 2 статьи:

1. N.A. Chekina, S.A. Chukaev, D.Ch. Sanzhieva Anti-inflammatory and antioxidant effects of the new complex herbal remedy. VI International scientific conference. – Ulan-Ude, 2013.P. 68 – 69.
- 2.



*Chekina Natalia Alekseevna,
Ulan-Ude medical College,
Candidate of Medical Sciences
E-mail: ivachekin@rambler.ru*

*Razuvaeva Janina Gennadiyevna,
Ulan-Ude Institute of General and Experimental Biology,
Doctor of Medical Sciences
E-mail: tatur75@mail.ru*

*Chukaev Sergey Aleksandrovich,
Buryat state University, Docent department
of pharmacology and traditional medicine
E-mail: s_chukaev@mail.ru*

The estimation of the spectrum of anti-inflammatory activity of the new complex herbal remedy

Abstract: It was shown in experiments on rats, that new complex herbal remedy (regimen of administration — 300 mg/kg daily, 1 week), demonstrate antialterative and antiexudative kinds of activity, as well as pharmacotherapeutical efficiency at conditions modeling of aseptic inflammation.

Keywords: alteration, exudation, anti-inflammatory activity.

Inflammatory diseases borrow one of leading places in structure of disease, time invalidity, physical inability and death rate of the population of the Russian Federation. It is known, that during a life they meet even once not less than at third of population of the country [5, 22]. In this connection actual continuation of search, studying and introduction of the new anti-inflammatory preparations, differing the expressed efficiency, harmless at long application and availability of a source of raw materials [7, 80–83].

In Institute of the general and experimental biology of the Siberian Branch of the Russian Academy of Science developed the complex vegetative means representing the sum extractive of substances from 7 kinds of vegetative raw material: rhizomes and roots *Inula helenium* L., runaways *Phaseolus vulgaris* L., runaways *Pentaphylloides fruticosa* L., etc. [9, 66–68].

The aim of research. Definition of anti-inflammatory properties of new complex means of the phytogenesis.

Materials and methods. Research was conducted on rats of line Wistar with initial weight 180–200 g. All animals contained in standard conditions at an easy approach to water and food. From experiment of animals deduced according to rules of the European convention on protection of the vertebrate animals used for experimental and other scientific purposes. Tested herbal remedy introduced an animal intragastric in a dose of 300 mg/kg in the form of a water suspension. As a preparation of comparison used caleflon in effective

to a dose of weight of a body of 10 mg/kg. Animals of control group received the distilled water in the volume corresponding similar schemes of introduction of medicinal products at all investigation phases.

Estimation of influence herbal remedy on exudative a stage of an inflammation caused subplantar introduction in back right finiteness of a rat, entered 0.1 ml. of a solution of formalin of 3% [8, 239]. 3 hours prior to subplantar introductions of formalin and in 5 and 18 hours after initiation inflammation an animal intragastric entered a solution of an extract in a dose of 300 mg/kg and caleflon. Animals of control group in equal volume and an identical mode received water distilled. An estimation antiexudative effect of an extract spent oncometrical a method in 24 hours after introduction of formalin, calculating percent of oppression of a edema of a paw in relation to the control.

Alteration a phase of inflammatory reaction at white rats of 0.5 ml. reproduced by hypodermic introduction 9% solutions of an acetic acid in area of a back [4, 58–59]. Simultaneously entered a solution dextran — intra-abdominal in a dose of 300 mg/kg. Tested herbal remedy and caleflon entered for 1 hour prior to introduction of a solution of an acetic acid, and then daily singly into day within 21 days. Antialteration action herbal remedy estimated using planimetical a method, on a degree of development necrosis and regenerations of fabrics on 7, 14 and 21 days of experiment.