The goal and task of research was scientific-methodical ground of nutritive use of pants’ foods for increasing of human organism’ cold-resistance.

Materials and methods
Research on exclusion of toxicity from foods from pants were conducted in accordance with generally accepted methodical approaches (I.V. Sanozkii and coauthors 1979). For study of antioxidant features of foods from pants, they selected biochemical methods letting evaluate the participation of researched foods in the processes of peroxidized lipid oxidation (POL). Physical working capacity was identified according to the swimming time, working capacity of experimental animals and rats on tertiary. The study of adaptive reactions of animals towards cold were conducted with the use of model of long cold influence with the use of climatic cell of the firm “Fentron” – GDR (V.A. Dorovskih 1987). The researched elements of pants are safe according to the criteria of common-toxic influence. They respond to the demands of safety according to ecological and hygienic concept of human nutrition. The following foods from pants are increasing the stability of animals towards fatigue in conditions of adaptation to coldness. They are effective as antioxidant means for prevention of pathogenic influence of low temperatures in the periods of long freeze. That is adaptogenic elements from pants are recommended for use in human nutrition for correction of cold stress on organism.

References
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INHIBITORY EFFECT OF COMBINATION OF DOXORUBICIN HYDROCHLORIDE AND LIGUSTRAZINE ON PROLIFERATION OF HELA CELLS AND HEP-G2 CELLS
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Abstract  Objective: To study the effect of doxorubicin hydrochloride (DOX) combined with ligustrazine (TMP) on the proliferation of Hela cells and Hep-G2 cells, and evaluate the inhibitory effect of combination therapy on the proliferation of tumor cells. Methods: MTT assay was used to detect the effects of TMP, DOX and combination of both on the proliferation of Hela cells and Hep-G2 cells, respectively. Results: In the selected concentration range, the inhibitory rate of Hela cells and Hep-G2 cells was inhibited in a dose-dependent manner. The combination of TMP and DOX in the treatment of Hela cells showed a good additive effect, and the treatment of Hep-G2 cells had a certain synergistic effect, when the ratio of tetratetethylpyrazine to doxorubicin was 5:1, 2.5:1 and 1:2.5:1. The concentration of DOX in the range of 5 ~ 20mg/L and the concentration of TMP in the range of 25 ~ 100mg/L Conclusion: The combination of DOX and TMP can inhibit the proliferation of Hela cells, Hep-G2 cells, promote cell apoptosis. Key words: MTT;effect of drugs combination; synergistic.

Objective
In this study, it uses a combination of chemotherapy (DOX) and traditional Chinese medicine (TMP)[1-2], after pre-test screening to determine the concentration of two kinds of drugs, and according to it set a different proportion of groups, Which provides a new idea for the determination of the dosage range and the proportion of the combination therapy, which provides a theoretical basis for the rational application of clinical combination therapy. Materials and Method
Materials: Adriamycin hydrochloride (CAS:25316-40-9, Beijing Huafeng Bo Technology Co.Ltd.);Tetramethylpyrazine (CAS: 1124-11-4, Nanjing Diao Sifu Biotechnology Co., Ltd.); DMEM medium was purchased from Gibco Chemical Co. (Carlsbad, CA, USA);Serum (Shanghai ExCell Biological Products Co., Ltd.) Method:MTT assay was used to detect the inhibitory effect of DOX, TMP and different proportions of two drugs on the proliferation of Hela cells and Hep-G2 cells.100 μl of Hela and Hep-G2 cells in logarithmic growth phase were placed in 96-well plates. The cells were cultured for 24 h in a 5% CO2 incubator. One group was added to the cell suspension without drugs as a control. Then we added different concentrations of TMP and DOX, each concentration of 5 wells. After cultured for 48 h, 10 μl of MTT solution was added to each well and culture was continued for 4h. 150 μl of DMSO was added to each well. The OD value was measured at 490 nm. Inhibition

UDC 612.3 DOI 10.22448/AMJ.2017.4.106-106 STUDY OF QUESTIONS OF ANTIKOOL PROPHYLACTIC NUTRITION OF POPULATION WITH THE USE OF ADAPTANGENES OF ANIMAL ORIGIN
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Abstracts
For easening of mechanisms of adaptation to cold influence on humans, they use pharmacological agents; however, the scope of these foods is limited. Human nutrition focuses on the use of adaptangenes of traditional medicine of animal origin, such as pants of dappled deer and reindeer. As the result of experimental research they got new data on exclusion of toxicity of researched adaptangenes, antioxidant properties actoprotective effect of cold influence on organism were identified. Key words: Pants, cold influence, antioxidant effect, actoprotective influence. The most important pathogenic climatological environmental factor influencing on the population of Russian Federation, especially in the North and Far East is cold. Adaptation to cold influence is long process; morphological changes are stipulated by the deterioration of cell membranes and activation of lipid peroxidation etc. For easening of adaptation reactions to cold, they use the means from pants of dappled deer and reindeer influencing human organism softly and harmonically without side effects (Brachman 1974).

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