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Академия технологических наук Украины

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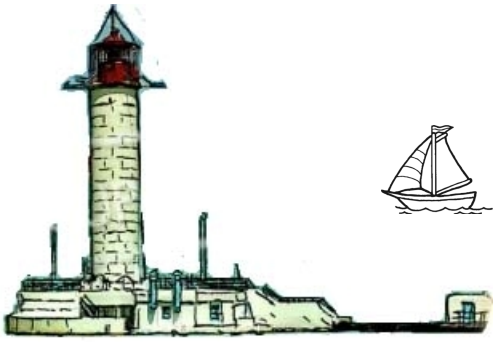

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EFFICACY AND TOLERABILITY OF ORAL CONTRACEPTIVE *YARINA*

ЭФФЕКТИВНОСТЬ И ПЕРЕНОСИМОСТЬ ОРАЛЬНОГО КОНТРАЦЕПТИВА *ЯРИНА*

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Yarina – combined low-dose monophasic oral contraceptive containing 30 g ethinylestradiol plus 3 mg drospirenone. Drospirenone, derived from 17-a spironolactone, is a novel progestin with antialdosterone andantiandrogenic properties. Drospirenone has a high affinity for binding aldosterone receptors, leading to potential reductions in side effects of estrogen such as weight gain, increased blood pressure, and moodiness. There were two large clinical trials of Yarina's influence on the dynamics of body weight compared with the Marvelon's action containing 30 mcg of ethinylestradiol and 150 mg of desogestrel. The duration of follow-up was 13 cycles and 26 cycles. The results demonstrated that in patients receiving Yarina body weight decreased and then stabilized without reaching baseline. The differences in the dynamics of body weight between the women taking Marvelon and Yarina, was significantly. Combined oral contraceptives are frequently used for the treatment of PMS. Randomized placebo-controlled trials of Yarina found significant reduction of PMS symptoms. According to the analysis of the calendar of premenstrual observation (Calendar of Premenstrual Experience - quarrel) observed a significant improvement of health from the 6th cycle of treatment, such as improving mood, reducing of fluid retention and loss of appetite. In addition, another study of 336 women showed a reduction in symptoms during the luteal phase of the cycle among the 80 percent of respondents; 75% of women were satisfied with the results. Drospirenone interacts with androgen receptors by competitive inhibition type. This property is used in the treatment of hirsutism. In a survey of 10,947 women using Yarina for contraception, 62% reported improvement in subjective well-being during treatment. These results from clinical trials with Yarina indicate that it is a well-tolerated combined oral contraceptive that has

a positive effect on body weight, skin and the symptoms of premenstrual syndrome. Overall, the combination of 30 mcg ethinylestradiol and 3 mg drospirenone appears to improve specific aspects associated with feelings of well-being, which may result in better compliance.

Key words: oral contraception, body weight, quality of life.

УДК 616-091.818

PHYTOGHEMAGGLUTININ AND ITS INDIVIDUAL ISOLECTINS AS INDUCTOR OF APOPTOSIS IN HUMAN CELL CULTURE 4BL

ФИТОГЕМАГЛЮТИНИН И ЕГО ИНДИВИДУАЛЬНЫЕ ИЗОЛЕКТИНЫ КАК ИНДУКТОРЫ АППОПТОЗА В КУЛЬТУРЕ ЧЕЛОВЕЧЕСКИХ КЛЕТОК 4BL

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Background: Phytohemagglutinine (PHA) is well-known protein which has mitogenic properties. Recently it was shown that PHA can induce cell proliferation and has a toxic or cytostatic effect. However concentration dependences and molecular mechanisms of such an effect are not enough investigated.

Aim: To study the total phytohemagglutinine (PHA) and its isolectins influence on apoptosis frequency in human cell culture 4BL. Analysis of the molecular mechanisms of studied lectins action.

Material and methods: We have used the cell line of human 4BL as a test system. The 4BL cells line was derived from periphery blood of a healthy donor in our department. We have study the influence of lectins at concentration 1 μg/ml. Apoptosis index was determined by the acridine orange and ethidium bromide staining. We have analysed the influence of lectins on apoptosis mediators (cleaved caspase-3 and caspase -8) and proapoptotic protein Bax expression levels by Western blot. The relative abundance of *Bax* and *Bcl-2* genes transcripts was assessed using quantitative real-time polymerase chain reaction (PCR).

СОДЕРЖАНИЕ