

INFLUENCE OF ENERGY DRINKS ON THE MORPHOLOGICAL STRUCTURE OF THE UTERUS

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Purpose: To develop a detailed understanding of the effects of regular consumption of energy drinks on the morphological aspects of the uterus in women, including an assessment of changes in tissue, structure and functional activity of the organ. Specifically, the study aims to identify possible abnormalities, degenerative changes or other pathological processes that may be associated with the consumption of energy drinks, with the goal of providing specific data for the development of recommendations for the safe use of such drinks and the protection of women's health.

Materials and research methods: Morphological studies of energy drinks related to the uterus in the experimental conditions described in this methodological recommendation were carried out in 2022-2023 in the research laboratory of immunohistochemistry and pathogistology located in the vivarium and simulation center of the Bukhara State Medical Institute.

Female rats weighing 220-300 g, 4-5 months of age were selected for the purpose of experimental research. All laboratory animals were obtained from the same vivarium and were performed on 4-5 month old white rats. These adult (4-5 months old) white outbred rats were kept under standard vivarium conditions with relative humidity (50-60%), temperature (19-22°C) and light regime (12 hours dark and 12 hours light).

Research results: The application of the method of determining and evaluating the characteristics, pathophysiology, pathogenesis, etiological factor of the morphological changes in the uterus of white non-breed rats that drank energy drink for a long time, in experimental studies, the morphological changes in the uterus of white outbred rat. of infertility, inflammatory and pre-tumor diseases. systematizes study and evaluation, allows to ensure early diagnosis of these studies in practice. Studying and identifying this condition, knowing the degree



of structural changes in the reproductive organs in pathologies of various morphological forms, makes it possible to make an etiopathogenetic, operative assessment of the condition of patients with infertility, inflammation, pre-tumor disease, the origin of the disease as a result of complications provides the opportunity and conditions to predict the probability of possible severe pathologies, ensures high medical efficiency of the performed research results.

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Hosted online from Dubai, U. A. E., E - Conference.

Date: 29th February 2024

Website: <https://eglobalcongress.com/index.php/egc>

ISSN (E): 2836-3612

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