MORPHOLOGICAL ASPECTS OF THE STRUCTURE OF THE UTERUS IN WHITE OUTBRED RATS

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Purpose: The main goal of the study is to study the morphological features and structure of the uterus in albino rats in order to expand our understanding of their reproductive system, which may be important for understanding the physiological processes occurring in the reproductive organs of rats and their potential application in medical and biological research.

Materials and research methods: 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 4-5month 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).

In order to prevent infectious diseases in the vivarium and to ensure that they are free of infectious diseases, the laboratory animals were quarantined for 21 days and observed during these days, their temperature was measured and their weight was checked several times during these days. weight gain was monitored. During this period, no symptoms of illness were observed in them, their temperature was within normal limits (38.5-39.50C), appetite disorders and other external changes were not detected. These cases showed that it is possible to involve them in experiments.

Research results: The structure of the uterus of a white mongrel rat has double horns, a double body and a neck. The branches of the uterus join caudally to form the body and cervix, but their cavities are separated from each other by a septum and open into the vagina by two independent openings. Histological examination showed that the wall of the uterine horns, the body and the wall of the cervix have a similar structure and consist of three layers: endometrium (mucosal), myometrium (muscular) and perimeter (serous). Macroscopically, you can see a bicornuate uterus located in the abdominal cavity. The vaginal part of the cervix is covered with stratified squamous epithelium, similar to that of humans. In rats, the cervix is more similar to the human cervix, which is important information for research. Reproductive health is an important aspect of overall well-being and requires taking care of the health of the younger generation, using safe methods of contraception, preventing infections and timely treatment. Oncological diseases of the reproductive system of women are becoming more common and younger, which negatively affects their reproductive function.

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