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Positive Effect of Pomegranate Seed Oil on Morphological Changes in the Testes Due to Experimental Pulmonary Fibrosis

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Purpose: to determine the positive effect of pomegranate seed oil on morphological changes that occurred due to experimental pulmonary fibrosis

Materials and methods of research: For experimental studies, white male rats aged 4-5 months weighing 180-190 g were selected. All laboratory animals were obtained from the same vivarium and were carried out on white rats aged 4-5 months. Adult (4-5 month old) white outbred rats were kept in standard vivarium conditions with relative humidity (50-60%), temperature (19-22°C) and light regime (12 hours of darkness and 12 hours of light).

All laboratory animals were divided into two groups: control group - laboratory animals (n=20), healthy rats receiving a standard vivarium diet;

the second group - laboratory animals (n=30) received a standard vivarium diet; sick rats were treated with pomegranate seed oil for 4 weeks.

Research findings: In the microslides prepared from the testes of the laboratory animals treated with pomegranate seed oil after inducing lung fibrosis, as observed in the histological slides, the histiotopography of the seminiferous tubules in testicular tissue is altered. In normal conditions, characteristic changes in appearance, interstitial tissue components in the intertubular spaces are mostly preserved, uneven interstitial edema has sharply diminished, and hypercellularity has been restored in the tubular spaces. It has been established that on the outer surface of the basement membrane of coiled seminiferous tubules, the organized arrangement of myoid cells has been restored, the positioning of spermatogonia on the surface of the basal layer on the inner surface of the tubule has become normal, and the differentiation sequence of the majority of spermatogenic cells has been clearly restored.