

SUMY STATE UNIVERSITY
MEDICAL INSTITUTE



**BIOMEDICAL
PERSPECTIVES**

II

ABSTRACT BOOK

*International Scientific Conference
of Students, Postgraduates and Young Scientists*

(Sumy, October 20-22, 2020)

Sumy
Sumy State University
2020

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
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HISTOLOGICAL FEATURES OF TESTICULAR SEMINOMA

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Introduction. Tumors occupy one of the leading positions among the diseases, and annually its indicators continue growing. Testicular neoplasias are not an exemption. This pathology occurs in 3 % of young men of working age (15-45 years old) among all malignant neoplasms that worsen the reproductive health indicators. It underlines the importance of the detailed study of the testicle tumor features that will contribute to therapy individualization and increase the patient's overall survival rate.

Aim. To study the histological features of testicular seminoma.

Materials and methods. The samples of testicular tumors (testicular seminoma), taken from the Pathology Department of Sumy State University and Sumy regional clinical oncology dispensary, were analyzed.

Results. The histological examination allowed identifying the main histological criteria for the testicular seminoma. They are following: the size is in the range of 15-22 μm , tumor cells are round shaped with pale cytoplasm, nuclei are monomorphic with an increased number of atypical mitosis, tumors have growth variations (solid, palisade, tubular) with the invasion into the blood vessels, tunica albuginea, and spermatic cord. The layers of swollen connective tissue separate the tumor cells. Diffuse and/or focal inflammatory lymphocytic infiltration and foci of necrosis are typically revealed between neoplastic cells.

Conclusion. Testicular seminoma has specific histological features depending on the degree of malignancy. They are essential for correct differential diagnosis among the other testicular tumors.

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