

# ABSTRACT BOOK

## 8<sup>th</sup> International Scientific Interdisciplinary Conference for medical students and young scientists



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Kharkiv National Medical University, Kharkiv, Ukraine

May 14<sup>th</sup> - 15<sup>th</sup>, 2015

MINISTRY OF HEALTH OF UKRAINE  
KHARKIV NATIONAL MEDICAL UNIVERSITY

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**Albab Farkad Yousif Alani**

**SOFT TISSUE SARCOMA AND ITS LOCAL RECURRENCE**

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**Introduction.** Sarcomas account for less than 1% of malignant neoplasms arising in the head and neck in adults. These tumors derive from the mesodermal tissue with a diversity of clinical behaviors due to various types of pathologic classifications. The classification of sarcoma according to the anatomic location in the head and neck region has proven helpful because of the influence of location on decisions regarding disease management. However previous articles have rarely focused on sarcomas that originated in the larynx. The paucity of cases and variety of tumor characteristics make it difficult to analyze the treatment modalities and outcomes in a large series. The purpose of this study was to review the patients with laryngeal sarcoma treated at our institute over a 20-year period. The clinical presentation, histopathologic features, treatment modalities, and outcome were analyzed. The literature was also reviewed.

**Aim.** The aim of this study was to compare genetic aberrations in primary soft-tissue sarcomas and their local recurrences and to evaluate the genetic changes occurring during tumor progression.

**Materials and methods.** Some tests, such as a computed tomography (CT) scan or a magnetic resonance imaging (MRI) scan, plain X-ray, computed tomography scans, magnetic resonance, imaging scans, positron emission tomography scan, ultrasound and biopsy are often done to look for the cause of symptoms and to find a tumor (such as a sarcoma). Other tests may be done after a sarcoma is diagnosed to look for cancer spread.

**Results.** The patients showed a male predominance (9/10) and presented 8 types of pathology. Nine patients underwent surgery, including 2 total laryngectomy, 4 partial laryngectomy, and 3 endoscopic laser cordectomy. During a median follow-up of 92 months, the 5-year overall survival and disease-specific survival were 76% and 90%, respectively. Two patients developed recurrence, including 1 local recurrence and 1 distant metastasis.

**Conclusions.** Surgical intervention was the first choice in the treatment of soft tissue sarcomas. The prognosis is relatively good when compared with sarcoma originating from other anatomic sites.

**Alexeenko R.V., Risovanaya L.M.**

**FEATURES OF THE REGULATION OF HUMAN LIFE IN THE PRESENT  
CONDITIONS OF THE WORLD**

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**Introduction.** Global problems of humanity in the 3rd millennium with the new exigencies of the scientists put a health problem. People are increasingly fits the world around us to meet their needs while losing body developed during the evolution of the defense mechanisms of adaptation.

The impact of current conditions brings man to limit mental loads. The twentieth century is the century of "information explosion", to create new types of communication -



radio, television, computer, which was reflected in the professional field. So, for most professions brainwork is currently characterized by high information load and a sedentary lifestyle, which leads to diseases of the cardiovascular system and psychosomatic disorders.

The ecological situation also influencing at the humans. Meanwhile, the impact of industrial activity on the natural environment (air pollution, soil, water bodies' waste production, deforestation, increased radiation caused by accidents and violations technology) threatens the existence of the man himself. About 80% of diseases of modern human - its result of environmental degradation on the planet.

**Aim.** Study of features of the regulation of human life in the present conditions of the world.

**Results.** The most important factor influencing the person is a lack of exercise. Organize the process of formation of a healthy way of life of the population and youth is impossible without knowledge of the structure of the human body, of the functioning of organ systems. Physically trained body has large spare capacity - hence better adapted to environmental changes. During physical exercise improved function of the nervous, cardiovascular, respiratory, excretory, and other systems, metabolism and energy, as well as the system of neurohumoral regulation. At the heart of life of the organism is the process of automatically maintaining the vital factors at the appropriate level, any deviation from which leads to the immediate mobilization mechanisms, reducing the level of (homeostasis).

Homeostasis - a set of reactions that maintain or restore the dynamic of the internal environment and some physiological functions of the human body. The constancy of the physico-chemical composition is maintained by self-metabolic, circulatory, digestive, dyhaniya- allocation and other physiological processes. In the process of adaptation of the organism to any factor, including pathogenic function of some systems, organs and cells is enhanced; they stimulate metabolism and increasing energy demand. On the contrary, the function of other systems, organs and cells that do not take part in the adaptation decreases, they weakened metabolism and reduces the need for energy. Since deficiency of oxygen in the environment (for example, an area of high mountains) are activated circulation, external respiration, blood system, i.e. systems responsible for providing the body with oxygen (gas transportation systems), but also decreases the activity allocation system, digestive and reproductive systems. Normal functioning of the organism self-regulation is provided in all the manifestations of metabolic biogenesis ultrastructures and implementation of multiple functions at all levels. Thus, reduction in the number of red blood cells becomes an incentive to develop kidney erythropoietin which activates erythropoiesis and normalizes the number of erythrocytes. At the same time, reduction in blood glucose level activates the sympathoadrenal system and the sympathetic neurohormones, increasing hepatic glycogenolysis, and normalizes glucose.

**Conclusions.** Regulation of human organism is a whole set of reactions and mechanisms aimed at controlling all life processes in accordance with the requirements of the genetic program of the organism and the environment in order to preserve life and procreation. That is why the task of scientists is that, based on the current conditions of nature and society, to find the best ways to maintain health.