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**Conclusions:** In the comparative aspect of the control and experimental groups, a delay in the development of hepatocyte cellular structures was noted. For further and in-depth study, it is advisable to conduct IHC study using markers of proliferative and apoptotic activity.

## ANALYSIS OF THE INDICATORS OF HOSPITALIZED INCIDENCE OF OSTEOCHONDROSIS OF THE SPINE

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**Relevance.** The vast material accumulated through the development of MRI and CT has shown that the term “osteocondrosis” hides many pathologies, both degenerative and inflammatory. Statistics show a high incidence of osteochondrosis and no tendency to decrease it. According to the US National Center for Health Statistics, people under the age of 45 are more likely to limit their activities due to persistent back or neck pain. Spinal pathology is the fifth most common cause of hospitalization and the third most common cause of surgical treatment. By gender distribution, the prevalence of the disease is higher among women than among men. In addition, back and neck pain limit vital functions, reduce the quality of life of patients, disorganize not only the functional state of the body, but also change the psyche and behavior of people.

**Aim.** To study age-sex characteristics, social status and occupation in hospitalized patients as risk factors for the development of spinal osteochondrosis.

**Materials and methods:** To study age and gender characteristics, social status and occupation as risk factors for spinal osteochondrosis in hospitalized patients, 2,511 case histories of patients of the department of vertebrology diagnosed with OS were studied in the archive of the Republican Specialized Scientific and Practical Medical Center of Traumatology and Orthopedics. The analysis of statistical data was carried out in the Statistica 10.0 application software package.

**Results.** The analysis of statistical data showed that the majority of hospitalized patients with Osteochondrosis of the spine are people of working age, since their average age was  $56.6 \pm 0.3$  years and did not significantly change during the study period. The minimum age of hospitalized patients with osteochondrosis is 16 years, the maximum is 91 years. When comparing the characteristics of patients depending on gender, it was found that the ages of men and women hospitalized for spinal osteochondrosis differ, the average age of women was 5.8 years higher than that of men ( $p < 0.001$ ) ( $58.5 \pm 0.3$  and  $52.7 \pm 0.5$  years, respectively). The analysis of the place of residence revealed the predominance of patients living in rural areas. Depending on the type of activity, the hospitalized patients were distributed as follows: the share of employees was 16%, workers - 12%. At the same time, a large number (68%) of unemployed among patients with osteochondrosis draws attention. Professional composition: the main part of the male group consists of drivers, farmers and workers. An analysis of the professional composition of the group of employees hospitalized with osteochondrosis revealed the following features: on average,  $34.3 \pm 2.3$  cases of hospitalization occurred among teachers. Among the teachers, there was a significant predominance of women ( $39.2 \pm 2.9\%$ ) over men ( $24.2 \pm 3.8\%$ ) ( $p < 0.0005$ ). Despite the fact that more than half (61%) of the unemployed patients (1,690 people) were pensioners, a large percentage of them were unemployed people of working age and non-retirement age (39%). The main contingent of unemployed people are women.

**Conclusion.** The prevalence of spinal osteochondrosis is significantly influenced by age and occupational factors. If in men, the occurrence and development of Osteochondrosis were greatly influenced by professional factors and occupation (sedentary, sedentary lifestyle), then in women, metabolic changes associated with age and menopause prevailed.

## THE ROLE OF ENDOCRINOLOGY IN REGULATING HORMONAL IMBALANCES AND MANAGING ENDOCRINE DISORDERS

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**Introduction.** Endocrinology is the study of the endocrine system, its hormone-secreting glands, and the physiological effects of hormones on the human body. Hormones play a critical role in regulating metabolism, growth, reproduction, and mood. Dysfunction in the endocrine system, whether due to glandular abnormalities or hormonal imbalances, can lead to a wide array of diseases and conditions such as diabetes, thyroid disorders, and adrenal insufficiency. This thesis explores the mechanisms by which the endocrine system influences health and how endocrinologists diagnose, manage, and treat hormonal disorders.

**Aim.** The primary aim of this thesis is to:

1. Investigate the role of the endocrine system in maintaining homeostasis and normal bodily functions.
2. Examine the common disorders associated with endocrine dysfunction and their impact on human health.

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