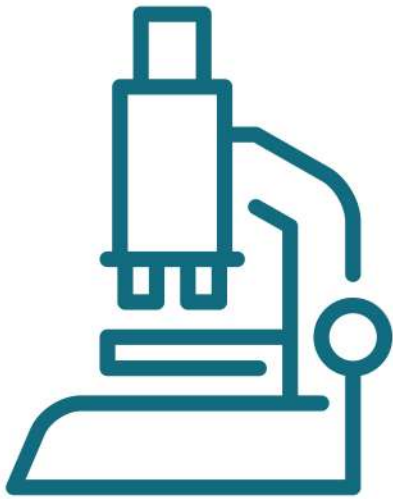


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BIOMEDICAL SCIENCES





4) According to the results of spirometry: 90% of FEV1 50-70% of the appropriate level.

Features of treatment: while monitoring the prescribed therapy, all patients with increased blood pressure were divided into 2 groups: Group I took a combination of highly selective b-blocker nebivolol at a dose of 5 mg per day and amlodipine, which is an arteriolar vasodilator at a dose of 10 mg per day, including its positive effect on the course of pulmonary hypertension. Group II received a combination of nebivolol (5 mg), amlodipine (10 mg) and ramipril (10 mg). The results of treatment showed that patients in group II who took a combination of three antihypertensive drugs achieved a more effective reduction of CAT and DBP and an increase in FEV1 to 80%, indicating the safety of these treatment regimens, which is important in COPD. Conclusions: hypertension and COPD are often combined with each other, the clinical features of these two pathologies create the preconditions for the development of atherosclerosis, coronary heart disease, heart failure. In the treatment of hypertension in COPD, preference should be given to the combination of drugs of calcium antagonists of the third generation dihydropyridine series, highly selective β -blockers and ACE blockers.

Timoshenko Darya, Dobrovolska Olena

ANALYSIS OF THE PREVALENCE OF FEMORAL FRACTURES DUE TO THE CAR ACCIDENTS DEPENDING ON AGE, SEX AND LOCATION

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Kharkiv, Ukraine
Scientific advisor: assistant Istomin D.A.

The femur, by most measurements, is the largest and strongest bone in the human body. There are a number of factors that contribute to the risk of a hip fracture. The basis of these factors is the destruction of a tissue of the bone, which is characteristic of the elderly, menopausal women and osteoporosis. However, there is another major cause of a femoral fracture in people without bone pathology. And this reason – car accidents.



The World Health Organization recently released the latest statistics showing that about 1.5 million people all over the world die each year in car accidents, and hundreds of thousands suffer serious injuries, including 19 to 35.4% of femoral fractures.

The goal of the research was to analyze the abundance of femoral fractures after an accident according to gender, age, and fracture location.

Materials and methods. The study used 150 X-rays and medical histories of patients after an accident in the trauma department of the Kharkiv City Hospital of Ambulance and Emergency Care. The following information was selected for analysis: number of medical history, age and sex, date of X-ray examination and location of the fracture. Also, with the help of mathematical formulas, the frequency and percentage of femoral fractures were included.

Also, during the analysis, for the correct distribution of the obtained information, all femoral fractures, according to the location, were divided into three groups: proximal, distal and medial.

Results. Of the 150 patients examined, the largest percentage of femoral fractures was found in men - 77%, and in women this figure was only 23%. Regarding the fracture location, the indicators were distributed as follows: 51% - fractures of the right femur, 49% - fractures of the left femur. The largest share are medial fractures (50%), proximal fractures (28%) and distal fractures (22%). The research show that proximal fractures predominate in women.

By age of femoral fractures: the largest age group was people aged 18 to 25 years (52%), followed by people aged 26 to 35 years (34%), and the smallest group was the elderly (14%).

Conclusions. There are many factors that contribute to the risk of a hip fracture. The prevalence of hip fractures after an accident according to the gender, age, and fracture location was analyzed. According to the results, it can be concluded that the prevalence of fractures, mainly of the right femur, especially its middle part, is characteristic of young men (aged 18 to 25 years). The prevalence of these fractures at a young age



coincides with the onset of driving, non-compliance with traffic rules, as well as the largest proportion of car accidents in this age group.

At the same time, the increased prevalence of proximal fractures in women may be associated with early osteoporosis under the influence of sex hormones, pregnancy and requires further research.

Tkachenko Maryna, Kadykova Olga

RISK FOR THE DEVELOPMENT OF ATRIAL FIBRILLATION IN PATIENTS WITH ARTERIAL HYPERTENSION AND DIABETES MELLITUS TYPE 2

Kharkiv National Medical University

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Scientific advisor: prof. Kravchun P.G.

Introduction. Arterial hypertension (AH) and diabetes mellitus (DM) type 2 are common comorbid diseases with significantly interrelated pathogenic pathways. AH is a well-known risk factor for the development of cardiovascular disorders including coronary heart disease, heart rhythm disorders, stroke, nephrosclerosis, and retinopathy. Thus, coexistence of AH and DM type 2 increases the risk of cardiovascular pathology up to 6 times compared to AH without DM.

The aim of this study was to evaluate the risk for the development of arrhythmias with a focus on the atrial fibrillation in patients with arterial hypertension and concomitant diabetes mellitus type 2.

Materials and methods. A total of 106 elderly individuals, both males and females, with confirmed AH were enrolled in this study. They were divided into 2 groups depending on the presence of concomitant DM type 2. Group 1 (n=52) included patients diagnosed with AH and DM type 2. Group 2 (n=54) was formed by patients with AH without DM. A 12-lead standard ECG was performed for all patients to evaluate the presence and clinical forms of heart rhythm disorders. Data were statistically analyzed using Statistica 8.0 software and Fisher's criterion.



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