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Оглавление

ТЕОРЕТИЧНА ТА ЕКСПЕРИМЕНТАЛЬНА МЕДИЦИНА	3
Globa N.S., Isaeva I.N., Karmazina I.S.	3
FEATURES OF ADAPTIVE RESPONSES TO PHYSICAL ACTIVITY IN YOUNG PERSONS WITH ARTERIAL HYPOTENSION	3
Mohamad Sultan	4
THE ANTIMICROBIAL RESISTANCE ANALYSIS OF CAUSATIVE AGENTS OF ACUTE UPPER RESPIRATORY TRACT INFECTIONS	4
Pyskun V.V. ¹ , Kurinnyi V.V. ²	5
THE POSSIBILITY OF USING SKT TO STUDY INDIVIDUAL VARIATION OF THE HUMAN DIAPHRAGM STRUCTURE	5
Абдуллаева С.И., Гасанова А.Р.	6
ВЛИЯНИЕ ЭЛЕКТРОМАГНИТНОГО ИЗЛУЧЕНИЯ НА УРОВЕНЬ ОСНОВАНИЙ ШИФФА В СЫВОРОТКЕ КРОВИ КРЫС	6
Аралова В.О., Кулиш Р.С., Кулиш А.С.	6
ВОЗРАСТНЫЕ ОСОБЕННОСТИ МЫШЕЧНЫХ ВЕТВЕЙ ЗАПИРАТЕЛЬНОГО НЕРВА ЧЕЛОВЕКА	6
Ахундова Г.А., Лютенко М.А.	7
ВЛИЯНИЕ СЛАДКОГО ГАЗИРОВАННОГО НАПИТКА НА ОРГАНИЗМ И ПОВЕДЕНИЕ ЛАБОРАТОРНЫХ ЖИВОТНЫХ И ЧЕЛОВЕКА	7
Бабаева А.Р.	8
НЕКОТОРЫЕ ОСОБЕННОСТИ КОМПЛЕКСНОЙ КОРРЕКЦИИ ГРУДНОГО ОСТЕОХОНДРОЗА У ТЕННИСИСТОВ	8
Бальчунас И.В., Белицкий И.Л., Сымкина В.Е., Чернуха Т.Ю.	9
ВЛИЯНИЕ АНТИОКСИДАНТНОЙ ТЕРАПИИ НА СОСТОЯНИЕ СИСТЕМЫ АНТИОКСИДАНТНОЙ ЗАЩИТЫ У БОЛЬНЫХ С ИБС	9
Васильсва І.М., Гойдіна В.С.	10
СТАН ПРООКСИДАНТНОЇ ТА АНТИОКСИДАНТНОЇ СИСТЕМИ У ХВОРИХ НА ГАСТРОКАНЦЕРОГЕНЕЗ	10
Великий А. П., Вовк А.О.	11
РОЛЬ ESCHERICHIA COLI В ПОСЛЕОПЕРАЦИОННЫХ ОСЛОЖНЕНИЯХ У БОЛЬНЫХ ХИРУРГИЧЕСКОГО ОТДЕЛЕНИЯ	11
Вороная Ю.М., Мирошниченко М.С.	11
ПАТОМОРФОЛОГИЧЕСКИЕ ОСОБЕННОСТИ СЕРДЦА НОВОРОЖДЕННЫХ ОТ МАТЕРЕЙ С ХРОНИЧЕСКИМИ ИНФЕКЦИОННЫМИ ЗАБОЛЕВАНИЯМИ	11
Гальперин В.Л., Тищенко А.Н., Васильева О.В.	13
ИЗУЧЕНИЕ ВЛИЯНИЯ СТРЕССОВЫХ СИТУАЦИЙ НА ПОРОГ ЧУВСТВИТЕЛЬНОСТИ ВКУСОВОГО АНАЛИЗАТОРА У СТУДЕНТОВ МЕДИКОВ	13
Ганизаде Н.Д. Оглы	14
ОСОБЕННОСТИ ДЕРМАТОГЛИФИКИ РАЗЛИЧНЫХ ЭТНИЧЕСКИХ ГРУПП	14
Гирка Д.Э.	15
ОЦЕНКА РИСКА РАЗВИТИЯ САХАРНОГО ДИАБЕТА В РАЗЛИЧНЫХ ВОЗРАСТНЫХ ГРУППАХ	15
Глоба Н.С., Бенбузид И.	15
КЛАСТЕРНЫЙ АНАЛИЗ ПОКАЗАТЕЛЕЙ ЦИТОКИНОВОЙ СЕТИ И С-РЕАКТИВНОГО БЕЛКА ПРИ ВОСПАЛЕНИИ И КАНЦЕРОГЕНЕЗЕ	15
Голованова А.Ю., Семеняченко А.Н.	17
ИСПОЛЬЗОВАНИЕ МЕТОДА ПЛАСТИЧЕСКОГО МАКЕТИРОВАНИЯ В СУДЕБНОЙ МЕДИЦИНЕ	17
Голованова А.Ю., Писаренко Г.М.	18
ПОКАЗНИКИ СТРЕСА У ЩУРІВ МОЛОДШОГО ВІКУ ПРИ ЗАСТОСУВАННІ СТРЕСОПРОТЕКТОРНОГО ЗАСОБУ	18
Горбунова А. Ю.	19
ВЛИЯНИЕ БАКТЕРИЙ РОДА ЛИСТЕРИЙ НА ЗДОРОВЬЕ ЧЕЛОВЕКА	19

ТЕОРЕТИЧНА ТА ЕКСПЕРИМЕНТАЛЬНА МЕДИЦИНА

Globa N.S., Isaeva I.N., Karmazina I.S.

FEATURES OF ADAPTIVE RESPONSES TO PHYSICAL ACTIVITY IN YOUNG PERSONS WITH ARTERIAL HYPOTENSION

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The main objective of this research was to identify the possible features of physical capacity in persons with arterial hypotension, depending on the type of regulation and self-regulation of systemic blood pressure.

60 students of 2nd year of KhNMU aged 18 - 20 years, including 25 students with arterial hypotension and 35 students with normal blood pressure levels have been examined. The physical strain was performed on a bicycle ergometer, during a standard resistance 200/400 W (for young women and men) and 60 rpm. Physical endurance was determined by the duration of the performance of each probationer. Vegetative supply was evaluated by determining the systolic (SBP) and diastolic (DBP) blood pressure by Korotkov method (mmHg), heart rate (HR) was examined by the pulsation of the radial artery, stroke volume (ml) was calculated by the standard formula, cardiac output using the formula: $CO = SV \cdot HR$. Grouping was performed on a range of factors – the level of systolic and diastolic blood pressure, the type of regulation and the nature of the recovery period. In individuals of the control group (with normal values of SBP, DBP, HR, SV, CO) immediately after exercise, the average duration of which was 164,2sec, in 91,4% of cases acceleration of the heart rate with the average level of 142,3 bpm was observed. Also there was noted a moderate rise in SBP (77,1% of cases), which on average amounted to 144,5 mm Hg; in 45,7% persons of the control group there was a slight decrease in diastolic blood pressure to 63 mm Hg on average, and, accordingly, an increase in PP was observed in 85,7% of cases. The significant and adequate increase in the CO (11.7 l/min) has been identified which is the result of increase in HR and SV. Analyzing vegetative supply of cardiovascular system of subjects with initially reduced blood pressure, after exercise, the average duration of which was 128,9 s that is much less than the duration of exercise in control group, it was found that a significant increase in heart rate to an average of 166 bpm was observed in 52% of cases. At that SBP did not change in 48% of cases, and slightly increased to 127,5 mmHg in 52% of examinees in this group. Moreover, DBP more often increased slightly to 80.7 mm Hg on average, which was reflected in 56% of cases, in 28% of subjects DBP did not change, and only 16% of the subjects had a decrease in diastolic blood pressure. Pulse pressure in the majority of persons in this group remained unchanged – 55.3 mm Hg. Also there was noted an increase of CO, which was achieved mainly due to a significant increase of heart rate and not due to increase of SV that was 77.2 ml in average.

The results of current research showed that young persons with initially reduced level of blood pressure have less endurance for physical exercises than those in the control group; also they have the limitation of regulatory mechanisms of adaptive response to physical activity and reduced effectiveness of self-regulation of systemic blood pressure. In patients with hypotension the increase of CO was achieved mainly due to a significant increase in heart rate, instead of SV and heart rate, which indicates the hypotonic type of circulatory regulation, as opposed to individuals with normal BP values, in which the increase of CO was achieved by parallel increase in HR and SV that shows the normotensive type of regulation of the cardiovascular system.