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EFFECTS OF MELATONIN ON BONE: A CASE-CONTROL STUDY

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Актуальность. There is a stereotypical notion of Estrogen being the most relevant parameter for bone health in post-menopausal females, but apart from estrogen, advances in research have presented ample evidence that Melatonin may also play a critical role in bone health outcomes.

Цель. Our study established a positive Pearson Correlation between levels of serum Melatonin and its direct effect on Bones in a population of postmenopausal females.

Методы исследования. Our study consisted of 48 post-menopausal females, 24 subjects in the case group and 24 in control groups, to study the differences of certain parameters existing between the two. Serum Melatonin was calculated using ELISA test and Bone Mineral Density (BMD) was evaluated using a portable Ultrasound Bone Densitometer Testing Machine.

Результаты и их обсуждение. A Positive Pearson correlation exists between BMD and serum melatonin levels.

Linear regression for control group is $y = 8.078x + 21.48$ with $(r^2) 0.92$.

Linear regression for osteopenic group is $y = 5.991x + 32.0141$ with $(r^2) 0.90$.

Выводы. The results of our study exhibited strong interdependence between the Melatonin levels and their effects on BMD. Osteopenic subjects who had a lower BMD were also found to have relatively lesser levels of serum melatonin. Aligning with the results, similarly control group with normal BMD was found to have relatively higher level of serum melatonin.

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MODERN TRENDS IN THE TREATMENT OF GALLBLADDER POLYPOSIS

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Актуальность. Background. A gallbladder polyp (GBP) is a benign tumor localized on the inner wall of the gallbladder and grows into it's lumen, and also has an epithelial origin [1]. Polyps can be single or multiple (polyposis) [1]. There are fibrous, papillary and tubular polyps according to the histological structure [1]. There are no any specific clinical signs of gallbladder polyps.

Цель. Objective. Analysis of the results of surgical treatment of gallbladder polyps in the clinic of General Surgery in Grodno State Medical University over the past 5 years (2017-2021).

Методы исследования. Materials of research. The analysis of the results of diagnosis and treatment of 153 patients who were hospitalized over the past 5 years (2017-2021) in the General Surgery clinic on the basis of the City Clinical Hospital №4 in Grodno with diagnosis of gallbladder polyps. Among the analyzed patients