"Oʻzbekistonda yangi uygʻonish – Uchinchi Renessans: ilm-fan taraqqiyotida yoshlarning oʻrni" xalqaro ilmiy-amaliy konferensiya doirasidagi "Ilm-fan ziyosi" xalqaro ilmiy-amaliy koʻrik tanlovi

MORPHOLOGICAL CHANGES OF GASTRIC WALLS DURING POSTNATAL ONTOGENESIS WHEN FEEDING ON PALM OIL

Tashkent Medical Academy Assistant of the Department of human anatomy and Clinical Anatomy Tolmasov Ruzibek Tolmasovich +998942849192 ruzibektolmasov@gmail.com

Annotation

Palm oil is consumed among the vegetable oil. Palm oil is divided into two types. Red palm oil and technical palm oil. Red palm oil is obtained from palm fruit but is considered a very expensive product. Technical palm oil is obtained from fruit grains and unexpensive and harmful. Technical palm oil, which is mainly added to the composition of non-food products, is not used as a food product. Palm oil contains a small amount of unsaturated fatty acids and saturated fatty acids. Saturated fatty acids, which are part of palm oil, have such a negative effect on the body as hydrogenated fats.

Relevance of the topic: obesity is currently considered one of the most common chronic diseases in the world. It should be noted that nutrition obesity accounts for 97% of all forms of body weight. This is largely due to the change in daily diet and lifestyle. The relevance of this problem is the main factor in obesity is that associated with metabolic disorders. Significantly, it increases the risk of developing many diseases and pathological processes. Obesity reduces resistance to colds and infections and increases the risk of complications in injuries significantly.

Analyzes carried out by the World Health Organization in 23 countries, importing palm oil have shown that the mortality rate associated with cardiovascular diseases in these countries is very high.

The volume of palm oil imported into our country is increasing from year to year. According to reports, the import of palm oil into Uzbekistan began in the 2000s, initially, 5 thousand tons.

Keywords

palm oil, gastric, morphological, hematoxylin eosin, Van-Gizone.

The purpose of the scientific study: to study the mucous and muscle layers of the stomach, the dynamics of progress, microcirculatory vessels, tissue structures, development and formation in postnatal ontogenesis and exposure to palm oil.

Materials and research methods: the object of our morphological experimental study is the gastric, mucous and muscle layers of the gastric wall of rats, microcirculatory organ, internal organ vessels, gastric mass.

Micropreparations-hematoxylin eosin, Van-Gison, Weigert methods. The method is morphometry of the floors of the gastric wall and the thickness of the vascular wall is used. The variation-statistical method is used. "Oʻzbekistonda yangi uygʻonish – Uchinchi Renessans: ilm-fan taraqqiyotida yoshlarning oʻrni" xalqaro ilmiy-amaliy konferensiya doirasidagi "Ilm-fan ziyosi" xalqaro ilmiy-amaliy koʻrik tanlovi

A total of 240 white laboratory rats are taken for research. They are studied at different periods of postnatal ontogenesis: 14, 21, 30, 60, 90 daily.

Rats are classified into 2 groups:

Group 1 control group

Group 2 experimental group

Results: our studies show that rat children those fed experimental palm oil are characterized by different levels of morphological differentiation in the structure of the mucous and muscle layers of the gastric wall.

- Development of methodological recommendations named changes in the morphological and morphometric parameters of the stomach when excessive consumption of palm oil in the long term.

- Medical universities are explained by the fact that in the educational process they use Anatomy, histology, patalogical Anatomy, pharmacology as a new source of information when giving lectures and conducting practical classes, in the independent work of students.

- Early diagnosis of elementary obesity, the degree of its development, a decrease in complications, allows patients to improve their quality of life.

CONCLUSION

the scientific significance of the results of the study reveals the complex mechanisms of digestive processes that occur in the body, at different age periods, when feeding with palm oil, the results show the characteristics of gastric ontogenesis, microcirculatory self and the development of blood vessels of the internal organ, its formation depending on age and from a new point of view, the gastric wall is explained by the fact that it allows you to expand the level of theoretical knowledge about histotopography and its structural changes and is used in various areas of scientific research.

Thus, in the structure of the mucous and muscle layers of the gastric wall, a morphofunction change in the gastric wall of the newborn and the developing organ is being studied.

For the first time, during different periods of postnatal ontogenesis and after prolonged excessive consumption of palm oil, morphological and morphometric indicators of the floor of the gastric wall are characterized by age-related characteristics.

LITERATURE USED:

1. Bibik E. Y. Excessive consumption of palm oil as a cause of obesity in various periods of ontogenesis / E. Y. Bibik, D. V. Romanenko, N. V. Reshetilo [et al.] // Ukrainian Morphological Almanac. - 2014. - Vol. 12. - No. 3. - pp. 65-67.

2. Lyashchuk, A.V. Morphofunctional state of proximal epiphyseal cartilage of the tibia with excessive palm oil content in the diet of white rats of various ages / A.V. Lyashchuk // Ukrainian Morphological Almanac. - 2015. - Vol. 13. - No. 3-4. - pp. 81-85.

"Oʻzbekistonda yangi uygʻonish – Uchinchi Renessans: ilm-fan taraqqiyotida yoshlarning oʻrni" xalqaro ilmiy-amaliy konferensiya doirasidagi "Ilm-fan ziyosi" xalqaro ilmiy-amaliy koʻrik tanlovi

3. Makarova M.N., Rybakova A.V., Gushchin Ya.A., Shedko V.V., Muzhikyan A.A., Makarov V.G. Anatomical and physiological characteristics of the digestive tract in humans and laboratory animals //International Bulletin of Veterinary Medicine. - 2016. - No. 1. - pp. 82-104.

4. Romanenko D. V. Excessive consumption of palm oil as a cause of obesity in various periods of ontogenesis / D. V. Romanenko, E. Yu. Bibik, N. V. Reshetilo [et al.] // Ukrainian Morphological Almanac. - 2014. - Vol. 12. - No. 3. - pp. 65-67.

5. Samodelkin E. I., Kosareva P. V., Chetvertnykh L. A., Shinkarik O. V., Neklyudova V. V., Nikitin S. V., Cheraneva M.V. Histological and histometric characteristics of the gastric mucosa of intact non-harmless white rats. //Perm Medical Journal. - 2011. - Vol.28, No. 2. - pp. 108-113.

6. Sapin M.R., Aminova G.G., Shvetsov E.V., Al Rayashi S., Chetvertkov V.S. Cellular composition of the lymphoid tissue of the stomach wall of wistar rats in normal and after experimental traumatic brain injury// Morphological statements. - 2010. - No. 2. - pp.64-67.

7. Bayrasheva V. K., Experimental models of alimentary obesity in rats / V. K. Bayrasheva, I. Y. Pchelin, A. E. Egorova [et al.] // Juvenis Scientia. – 2019. – No. 9-10. – pp. 8-13. – DOI 10.32415/jscientia.2019.09-10.02.

8. Yuldasheva, Ziyodaxon, and Mashhura Gadayeva. "NORMAL YURAK TUZILISHINI YOSHGA OID MOSLASHUV O'ZGARISHLARI." Журнал академических исследований нового Узбекистана 1.4 (2024): 34-37.

9. Rahmonova, Umida, Muzaffar Farxodov, and Diyorbek Azamjonov. "STOMACH OPERATIONS IN OBESITY. ANATOMICAL STRUCTURE OF THE STOMACH." Журнал академических исследований нового Узбекистана 1.4 (2024): 63-72.