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MODERN ASPECTS OF MORPHO-FUNCTIONAL DATA AND TREATMENT OF AGE-RELATED CHANGES IN THE MAXILLOFACIAL REGION

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Abstract:

Everyone knows that teeth are naturally or rapidly erased in the process of vital activity. This affects the lower third of the face, and the appearance changes automatically. Today, with the help of a special dental protocol called neuromuscular, it is possible to recreate the former appearance of the patient. Thus, the effect of rejuvenation is achieved while maintaining the function of the teeth.

Keywords: oral cavity, teeth, lips, jaws, bite.

Introduction

If we talk about a strict definition, neuromuscular or anti-age dentistry is a therapy aimed at recreating the functions of the maxillofacial region, facial structure, facial oval, rejuvenation and restoration of lost strength in the area of masticatory muscles, temporomandibular inserts and other elements. All elements of the oral cavity are simultaneously involved in the treatment process: teeth, lips, jaws, bite.

Thanks to the unique training in the field of maxillofacial surgery, supported by medical and dental science, orthopedic surgeons have expanded their specializations, and many of them are now engaged in craniofacial surgery and aesthetic facial surgery. Orthopedic dentistry itself is an integral field that covers aspects of science, clinical methods and aesthetics and is constantly being updated.

Over the past two decades, the field of oral and maxillofacial surgery (OMS) has grown significantly, and every breakthrough in the history of our field has occurred thanks to an ingenious step to invent a new technique, as well as thanks to many practitioners who later learned about this technique, saw its significance, then popularized and improved it [2].

Thanks to the rapid development of science and technology, reconstructive surgery of the oral cavity and maxillofacial region keeps pace with the times, ensuring a prosperous future. OMS reconstructive surgery focused on the main achievements achieved in the following aspects: revascularized tissue transplantation, bone grafts, platelet-rich plasma, tissue engineering, distraction osteogenesis, microsurgery, joint replacement, dynamic recovery, laser surgery, computer design.

Microvascular tissue transfer was one of the most important stages of reconstruction of the lower and upper jaws after surgery to remove the tumor. Modern methods using a vascularized composite fibular flap in combination with dental implants have led to successful rehabilitation in terms of speech, chewing and facial aesthetics [3-5].

The search for ideal bone graft substitutes is an urgent problem of maxillofacial surgery and oral implantology. The material for bone grafting should provide a framework for bone regeneration (osteoconduction) and, at the same time, should promote the attraction of bone-forming cells and induce the formation of new bone (osteoinduction) [7].

The use of autogenous bone tissue has been considered the gold standard in bone regeneration procedures for many years, but the soreness of the donor site, pain and prolonged hospitalization prompted the search for bone graft substitutes [8].

The study showed that favorable bone healing during guided regenerative surgery procedures using a demineralized dental graft is able to support autogenic growth factors (such as osteopontin, dentin sialoprotein and BMP) [9.10].

An innovative medical device (TT Tooth Transformer SRL, Milan, Italy) has recently been developed that uses a patient's tooth and is able to process a removed tooth in a short time and turn it into a bone graft material [11].

An autogenous demineralized dental graft contains BMP-2 (bone morphogenic proteins that stimulate bone growth) and guarantees absolute compatibility with the recipient site [12].

However, clinical and histological studies with a long follow-up period are necessary to better assess the potential of demineralized dentin autografts.

Materials and methods of research: Visiting an anti-age dentistry specialist does not depend on age. However, the sooner you contact him, the better and easier the treatment will be. The reason for contacting a neuromuscular dentistry doctor is any pain in the face, chewing muscles, teeth and their hypersensitivity.

But there are nuances here. If the patient is less than 25 years old, he has a complete dentition, but he is dissatisfied with the appearance (teeth are wrong, the curvature of the teeth is not satisfied), then such a patient needs an orthodontist's consultation. If the patient is over 30-35 years old and has multiple restorations, chips, missing teeth, is not satisfied with the appearance of teeth or previously made restorations (crowns, veneers, frontal restorations on front teeth), it is better to consult an orthopedic dentist. If necessary, each specialist will refer his patient to another doctor for consultation.

But the changes associated with age and a decrease in the height of the lower third of the face are the formation of the so-called senile ("sad") appearance. There is a sinking of the corners of the lips, they seem to drop, an impression of a sad expression or a mask of pain is created. Age-related changes also include pronounced nasolabial folds, chin crease, most often a decrease in turgor on the face, which looks like a drooping cheeks, a displacement of the lower jaw to the back and the formation of a sinking facial appearance.

Moreover, today such changes begin even earlier in humans than in our ancestors. Very often, specialists are faced with such a concept as "increased washing of dentition", that is, excessive or premature erasure. This is a disease of civilization. This phenomenon is due to the fact that people have long changed their diet. The second reason is constant stress. In this condition, the muscles of the body are clamped, the teeth are overloaded and prematurely erased.

Results: Anti-age dentistry is always a multidisciplinary integrated approach of doctors of different specializations. Usually the team has an orthodontist, a periodontist therapist, a periodontist surgeon, an orthopedist, an implantologist. Also, important specialists such as an osteopath or a kinesiologist are often involved in treatment. ENT, neurologists, cardiologists and others work closely with these specialists. The treatment also uses a whole range of digital equipment, which allows you to make the treatment more objective, and not just focus on the opinion of the patient or the doctor.

To date, there are research complexes that help the doctor at the stage of diagnosis and allow to harmonize the comprehensive rehabilitation after treatment. An example is the BioPAK computer diagnostic complex. The following studies are performed on it:

- electromyography, that is, the quality of the chewing muscles is evaluated;
- electronic auscultation reveals the features of the jaw joints;
- kinesiography recording the movement of the lower jaw and spatial orientation of the bite in relation to the upper jaw at all stages of treatment;
- a method for determining the physiological bite, that is, the physiological point of closure of teeth;
- T-Scan is a scanning microscope that helps the doctor in the final stages of any prosthetics or orthodontic treatment. Working with it helps to harmonize the bite, that is, to achieve the perfect quality of closing the dentition. The chewing load is distributed evenly between the new teeth.

Conclusion

Neuromuscular dentistry allows you to save energy and adaptive forces of the body for many years – because they will not be spent on "paying off errors" in the face and neck. In addition, treatment according to the anti-age protocol improves the aesthetic perception of a person's face: it becomes symmetrical.

Neuromuscular treatment has no contraindications. The treatment plan and duration is an individual matter for each case. In order to start it on time and conduct it most effectively, we recommend that you visit the dentist regularly – at least once every six months and maintain the health of not only your teeth, but also your gums.

Literature

- 1. Saloxiddinovna, X. Y. (2024). Modern Views on the Effects of the Use of Cholecalciferol on the General Condition of the Bod. *JOURNAL OF HEALTHCARE AND LIFE-SCIENCE RESEARCH*, *3*(5), 79-85.
- 2. Халимова, Ю. С., & Хафизова, М. Н. (2024). МОРФО-ФУНКЦИОНАЛЬНЫЕ И КЛИНИЧЕСКИЕ АСПЕКТЫ СТРОЕНИЯ И РАЗВИТИЯ ЯИЧНИКОВ (ОБЗОР ЛИТЕРАТУРЫ). *TADQIQOTLAR. UZ, 40*(5), 188-198.
- 3. Халимова, Ю. С. (2024). Морфологические Особенности Поражения Печени У Пациентов С Синдромом Мэллори-Вейса. *Journal of Science in Medicine and Life*, 2(6), 166-172.

- 4. Халимова, Ю. С., & Хафизова, М. Н. (2024). кафедра Клинических наук Азиатский международный университет Бухара, Узбекистан. *Modern education and development*, 10(1), 60-75.
- 5. Халимова, Ю. С., & Хафизова, М. Н. (2024). МОРФО-ФУНКЦИОНАЛЬНЫЕ И КЛИНИЧЕСКИЕ АСПЕКТЫ ФОРМИРОВАНИЯ КОЖНЫХ ПОКРОВОВ. *Modern education and development*, *10*(1), 76-90.
- 6. Халимова, Ю. С., & Хафизова, М. Н. (2024). КЛИНИЧЕСКИЕ АСПЕКТЫ ЛИЦ ЗЛОУПОТРЕБЛЯЮЩЕЕСЯ ЭНЕРГЕТИЧЕСКИМИ НАПИТКАМИ. Modern education and development, 10(1), 3-15.
- 7. Nematilloyevna, X. M., & Salohiddinovna, X. Y. (2024). LOTIN TILI VA TIBBIYOT TERMINOLOGIYASINI O'QITISHDA TALABALARDA MOTIVATSIYANI KUCHAYTIRISH YO'LLARI. *Modern education and development*, *10*(1), 38-48.
- 8. Nematilloyevna, X. M., & Salohiddinovna, X. Y. (2024). LOTIN TILI SIFATLARI VA DARAJALARI YASALISHINING MUHIM XUSUSIYATLARI. *Modern education and development*, 10(1), 16-26.
- 9. Nematilloyevna, X. M., & Salohiddinovna, X. Y. (2024). FARMATSEVTIKADA DORI PREPARATLARI NOMLARIDA MA'NOLI BO'LAKLARNING QO'LLANILISHI. *Modern* education and development, 10(1), 49-59.
- 10. Xalimova, Y. S. (2024). Morphology of the Testes in the Detection of Infertility. *Journal of Science in Medicine and Life*, 2(6), 83-88.
- 11. Хафизова, М. Н., & Халимова, Ю. С. (2024). ИСПОЛЬЗОВАНИЕ ЧАСТОТНЫХ ОТРЕЗКОВ В НАИМЕНОВАНИЯХ ЛЕКАРСТВЕННЫХ ПРЕПАРАТОВ В ФАРМАЦЕВТИКЕ. *Modern education and development*, *10*(1), 310-321.
- 12. Хафизова, М. Н., & Халимова, Ю. С. (2024). МОТИВАЦИОННЫЕ МЕТОДЫ ПРИ ОБУЧЕНИИ ЛАТЫНИ И МЕДИЦИНСКОЙ ТЕРМИНОЛОГИИ. Modern education and development, 10(1), 299-309.
- 13. Халимова, Ю. С., & Хафизова, М. Н. (2024). ОСОБЕННОСТИ СОЗРЕВАНИЕ И ФУНКЦИОНИРОВАНИЕ ЯИЧНИКОВ. *Modern education and development*, 10(1), 337-347.
- 14. Saloxiddinovna, X. Y., & Ne'matillaevna, X. M. (2024). FEATURES OF THE STRUCTURE OF THE REPRODUCTIVE ORGANS OF THE FEMALE BODY. *Modern education and development*, *10*(1), 322-336.
- 15. Nematilloyevna, X. M., & Salohiddinovna, X. Y. (2024). LOTIN PREFIKSLARI ANATOMIK TERMINLAR YASALISHIDA ASOSIY KOMPONENT SIFATIDA. *Modern education and development*, 10(1), 27-37.
- 16. Sh, O. F., Ikhtiyarova, G. A., Xudoyqulova, F. S., & Abdieva, N. U. (2023). EFFECTIVE AND EXPRESS METHOD FOR DIAGNOSING THE CERVICAL AND VAGINA DISEASES IN REPRODUCTIVE AGE WOMEN.
- 17. Abdieva, N. (2024). CONDITION OF BREAST TISSUEAND THE RISK OF DEVELOPING BREAST CANCER IN PATHOLOGICAL SECERATION SYNDROME. *EUROPEAN* JOURNAL OF MODERN MEDICINE AND PRACTICE, 4(4), 161-170
- 18. Abdieva, N. (2024). THE ROLE OF GENETIC PREDICTORS OF METABOLIC DISORDERS IN WOMEN WITH POLYCYSTIC OVARY SYNDROME CONCOMITANT WITH CERVICAL NEOPLASIA. EUROPEAN JOURNAL OF MODERN MEDICINE AND PRACTICE, 4(3), 50-54.

- 19. Abdiyeva Nigina Ulugbekovna. (2024). ENDOSCOPIC-MORPHOLOGICAL CHARACTERISTICS OF BACKGROUND DISEASES OF THE CERVIX. Лучшие интеллектуальные исследования, 14(4), 120–129.
- 20. Abdiyeva Nigina Ulugbekovna. (2024). ENDOSCOPIC-MORPHOLOGICAL CHARACTERISTICS OF BACKGROUND DISEASES OF THE CERVIX. Лучшие интеллектуальные исследования, 14(4), 120–129. Retrieved from http://web-journal.ru/index.php/journal/article/view/3052.
- 21. Эргашева, Г. Т. (2023). Исследование Причин Связи Диабета 2 Типа И Ожирения. *Research Journal of Trauma and Disability Studies*, 2(12), 305-311.
- 22. Ergasheva Gulshan Toxirovna. (2023). QANDLI DIABET 2-TUR VA SEMIZLIKNING O'ZARO BOG'LIQLIK SABABLARINI O'RGANISH. Ta'lim Innovatsiyasi Va Integratsiyasi, 10(3), 168–173.
- 23. Ergasheva Gulshan Tokhirovna. (2023). Study of clinical characteristics of patients with type 2 diabetes mellitus in middle and old age. Journal of Science in Medicine and Life, 1(4), 16–19.
- 24. Saidova, L. B., & Ergashev, G. T. (2022). Improvement of rehabilitation and rehabilitation criteria for patients with type 2 diabetes.
- 25. Ergasheva, G. (2023). METHODS TO PREVENT SIDE EFFECTS OF DIABETES MELLITUS IN SICK PATIENTS WITH TYPE 2 DIABETES. International Bulletin of Medical Sciences and Clinical Research, 3(10), 104-108.
- 26. Toxirovna, E. G. (2023). O'RTA VA KEKSA YOSHLI BEMORLARDA 2-TUR QANDLI DIABET KECHISHINING KLINIKO-MORFOLOGIK XUSUSIYATLARI. *ОБРАЗОВАНИЕ НАУКА И ИННОВАЦИОННЫЕ ИДЕИ В МИРЕ*, *33*(1), 164-166.
- 27. Эргашева, Г. Т. (2023). Изучение Клинических Особенностей Больных Сахарным Диабетом 2 Типа Среднего И Пожилого Возраста. *Central Asian Journal of Medical and Natural Science*, 4(6), 274-276.
- 28. Бакиева, М. Ш. Рустамова, Ш. Р., Рахмонов, Т. О., Шарипова, Н. Н., & Мухитдинова, Х. С. (2022). Гипотензивное действие алкалоида бензоилгетератизина на функциональную активность гладкомышечных клеток аорты крысы. Academic Research Journal Impact Factor, 7.
- 29. Samixovna, M. K. (2024). MORPHOLOGICAL DATA OF THE ORGANS OF HEMATOPOIESIS AND HEMATOPOIESIS. Лучшие интеллектуальные исследования, 14(5), 66-74.
- 30. Samixovna, M. K. (2024). Morphologic Changes in Red Blood Cells. Research Journal of Trauma and Disability Studies, 3(3), 178-186.
- 31. Samixovna, M. K. (2024). MORPHOLOGICAL FEATURES OF POSTPARTUM CHANGES IN UTERINE MEMBRANES. SCIENTIFIC JOURNAL OF APPLIED AND MEDICAL SCIENCES, 3(4), 277-283.
- 32. Samixovna, M. K. (2024). Current Data on Morphological and Functional Characteristics of the Thyroid Gland in Age Groups. Journal of Science in Medicine and Life, 2(5), 77-83.
- 33. Dilmurodovna, T. D. (2024). FACTORS CAUSING ESSENTIAL HYPERTENSION AND COURSE OF THE DISEASE. Лучшие интеллектуальные исследования, 14(4), 138-145.

- 34. Dilmurodovna, T. D. (2024). PREVALENCE INDICATORS OF ARTERIAL HYPERTENSION IN THE POPULATION. *ОБРАЗОВАНИЕ НАУКА И* ИННОВАЦИОННЫЕ ИДЕИ В МИРЕ, 41(4), 78-87.
- 35. Тогайдуллаева, Д. Д. (2024). ИШЕМИЧЕСКАЯ БОЛЕЗНЬ СЕРДЦА, МЕТОДЫ ЛЕЧЕНИЯ И ЭФФЕКТИВНОСТЬ ЛЕЧЕНИЯ СТЕНОКАРДИИ. *ОБРАЗОВАНИЕ НАУКА И ИННОВАЦИОННЫЕ ИДЕИ В МИРЕ*, *39*(5), 107-115.
- 36. Dildora, T. (2021, June). CHRONIC RENAL FAILURE. In Archive of Conferences (pp. 85-89).
- 37. Tog'aydullayeva, D. D. (2024). MORPHOLOGICAL ASPECTS OF ANEMIA IN SOMATIC DISEASES. *EUROPEAN JOURNAL OFMODERNMEDICINEAND PRACTICE*, 4(4), 212-219.
- 38. Abdusalimovna, K. M. (2024). Current Representations of Simple Prosthodontics. *Best Journal of Innovation in Science, Research and Development*, *3*(3), 228-234.
- 39. Abdusalimovna, K. M. (2024). THE USE OF CERAMIC MATERIALS IN ORTHOPEDIC DENTISTRY.(Literature review). *TADQIQOTLAR*, *31*(3), 75-85.
- 40. Abdusalimovna, K. M. (2024). THE ADVANTAGE OF USING ALL-CERAMIC STRUCTURES. *TA'LIM VA INNOVATSION TADQIQOTLAR*, 13, 49-53.
- 41. Abdusalimovna, K. M. (2024). CLINICAL AND MORPHOLOGICAL FEATURES OF THE USE OF METAL-FREE CERAMIC STRUCTURES. *TA'LIM VA INNOVATSION TADQIQOTLAR*, 13, 45-48.
- 42. Кузиева, М. А. (2023). Клиникоморфологические Критерии Органов Ротовой Полости При Применении Несъемных Ортопедических Конструкций. *Research Journal of Trauma and Disability Studies*, 2(12), 318-324.
- 43. Abdusalimovna, K. M. (2024). MORPHO-FUNCTIONAL FEATURES OF THE METHOD OF PREPARATION OF DEPULPATED TEETH FOR PROSTHETICS. SCIENTIFIC JOURNAL OF APPLIED AND MEDICAL SCIENCES, 3(4), 301-307.
- 44. Abdusalimovna, K. M. (2024). Clinical and Morphological Features of the Use of Non-Removable Orthopedic Structures. *JOURNAL OF HEALTHCARE AND LIFE-SCIENCE RESEARCH*, 3(5), 73-78.