

**INCREASING EFFECTIVENESS OF THE OUTCOMES OF SURGICAL TREATMENT
OF SECONDARY LIP AND NOSE DEFORMITIES AFTER PRIMARY
CHEILOPLASTY**

Ergasheva Niginabonu Ilxomjon qizi

Student of master's degree of the

Department otorhinolaryngology

Tashkent Medical Academy Tashkent, Uzbekistan.

Jafarov Murod Mirzoxidovich

PhD, assistant of the

Department of otorhinolaryngology

Tashkent Medical Academy Tashkent, Uzbekistan.

ABSTRACT: In this article the results of surgical treatment of 15 adult patients with cleft lip after primary cheiloplasty have been given. The substantiation of an integrated approach in the diagnosis and choice of the method of secondary cheilorhinoplasty is given. In 9 patients for replenishment of the "bone base" bone cement "Palacos R" was used.

Keywords: Optimization, cleft lip, cleft palate, cheilorhinoplasty, malformation, method of Millard, method of Mayer.

ANNOTATSIYA: Ushbu maqolada lab yorig'i bo'lgan birlamchi xeyloplastika o'tqazgan 15 nafar katta yoshli bemorlarni jarrohlik davolash natijalari yoritilgan. Shuningdek, ikkilamchi xeylorinoplastikaning diagnostikasi va usulini tanlashda kompleks yondashuvning asoslari keltirilgan. 9 nafar bemor uchun "Suyak bazasi" suyak tsementini to'ldirish uchun "Palacos R" ishlatilgan.

Kalit so'zlar: Optimallashtirish, quyon lab, bo'ri tanglay, xeylorinoplastika, rivojlanish nuqsonlari, Milliard metodi, Mayer metodi.

АННОТАЦИЯ: В статье приведены результаты хирургического лечения 15 взрослых пациентов с расщелиной губы после первичной хейлопластики. Дано обоснование всеохватывающего расклада в диагностике и выборе способа вторичной хейлоринопластики. У 9 болезненных для восполнения «костной основы» воспользовались костный цемент «Палакос Р».

Ключевые слова: Оптимизация, заячья губа, расщелина неба, хейлоринопластика, порок развития, метод Милларда, метод Майера.

Introduction. Cleft lip and palate (CLP) deformities are one of the most frequent birth defects. In the United States and Europe, 1 case of cleft palate with or without cleft lip occurs once every

1000 live births [1, 2]. In Hungary, 2 out of 1000 live infants had combined oro-facial clefts [2]. Although males are more likely to have CLP, girls are more likely to have solitary cleft palates [1, 2].

Prior to speech development, surgical repair of CLP should be undertaken before the first year of life, usually between 3 and 6 months of age. The goal of the procedure is to rejoin all of the lip's tissue layers, reposition the nasal septum, and separate the oral and nasal cavities, as well as restore the soft palate's valve function. [1,2].

If this adequate primary surgical correction of CLP fails, the resulting nasal deformity is one of the most difficult reconstructive problems in rhinoplasty. The patient's cleft lip and palate nose is a source of embarrassment. This is caused by a combination of altered anatomy, surgical scarring from previous reconstructive procedures, and includes septum deformities, nasal pyramid malformation, nasal tip malformation, and alar cartilage malposition.

Purpose. Optimization the results of surgical treatment deformations of upper lips and wings of the nose after primary cheiloplasty.

Materials and methods of research. The results were studied primary cheiloplasty in 15 patients, 13 of them secondary cheilorhinoplasty was performed. The research was performed in patients of "Chinar" medical center from October of 2021 to January of 2022. For the diagnosis of patients used clinical and x-ray methods of research, anthropometric measurement of the nose and upper lip, removal casts with modeling of the nose and upper lip, photographic documentation before and after the operation. During secondary cheilorhinoplasty, we used 3 methods of operations. Most often operational interventions were performed according to the method of Kozin Vissarionov, which is essentially advanced Millard method using a sliding flap from a scar-modified filtrum - eight patients. Three patients used the method Mayer, this is a Z-shaped plastic of the vestibule and alar of the nose in combined with cheiloplasty according to Millard. In two cases technique was used to correct nasal deformities open rhinoplasty.

Along with the characteristic features of secondary deformities, 9 patients showed a significant deficit bone tissue of the alveolar process and lower edge pear-shaped opening, which, in order to create "bone base" for lifting and shaping the wing of the nose, bone grafting with polymethyl methacrylate was applied. Despite the preference of many authors autotransplantation during these operations, especially iliac crest transplant according to the method R.T.Ferrior, in our opinion, this method has significant shortcomings [3]. First, defects alveolar process and upper jaw congenital clefts are associated with their atrophy and, consequently, the lack of tissues surrounding the bone and in particular periosteum. In the postoperative period the periosteal-free allograft undergoes rapid resorption, which leads to subsequent recurrent deformity. Secondly, complex relief of the bone bed of the edges of the cleft and the lower edge piriform opening causes difficulty in fixation transplant.

In this group of patients, as an osteoplastic material, we chose a radiopaque bone cement of high degree of viscosity "PalacosR". A drug is a two-component biostable polymer based on polymethyl methacrylate, characterized good osteoplastic properties, radiopacity. During its introduction into a bone wound, it has a plasticine-like consistency and with easily takes the form of a bed, without requiring additional fixation. Subsequent careful suturing of soft tissues and mucous membranes over defect avoids postoperative inflammatory complications.



Figure 1, 2 - Photo K. 17 years old, before and after surgery. Operated according to the Millard method in combination with bone grafting "PalacosR"

The results of surgical treatment were assessed as visual inspection, and according to anthropometry reconstructed lips, nose and upper jaw and determined the result depending on the degree of elimination preoperative deformities. Certain photographs of patients at the stages of treatment are also important in determining the effectiveness of the outcomes of the operation, which, although they do not have a rating scale, but nevertheless are fairly objective criteria the effectiveness of the operation.

Conclusion: All patients had good results without significant postoperative complications. Three patients are scheduled for follow-up corrective operation. Thus, the methods of secondary cheilorhinoplasty in modifications, with the use of bone cement plasty "PalacosR" can be recommended for a wide range of implementation in clinical practice.

References:

1. Fisher DM, Sommerlad BC. Cleft lip, cleft palate, and velopharyngeal insufficiency. *Plast Reconstr Surg.* 2011;128(4):342–60.
2. Piffko J, Meyer U, Joos U. Possibilities and limitations in evaluating treatment concepts in lip-jaw-palate clefts. *Mund Kiefer Gesichtschir.* 2002;6(1):49–52.
3. Бессонов С.Н. Ринопластика IV: Коррекция носа при врожденных расщелинах верхней губы. // Избранные вопросы пластической хирургии. – 2007. – Т. 1. - № 15. – С. 44-48.
4. Ковалев В.Г. Лечение больных с односторонними расщелинами верхней губы: автореф. дис. ... канд. мед. - Самара, 1997. - 21 с.
5. Косымов М.М. Реконструктивная хейлоринопластика у больных с односторонней расщелиной верхней губы: автореф. дис. канд. мед. - Душанбе, 2012. - 25 с.
6. Nolst Trenité GJ. Secondary surgery of the cleft-lip nose. In: Nolst Trenité GJ, editor. *Rhinoplasty.* Amsterdam: Kugler Publications; 1993. p. 105–16.
7. Mukhamedova, M., & Arnopolskaya, D. (2013). The Nitric Oxide System in Patients with Chronic Heart Failure. *International Journal of Biomedicine*, 3(3), 180-183.

8. Alyavi, B., Mukhamedova, M., & Arnopolskaya, D. (2013). The Effects of Torasemide on Patients with Chronic Heart Failure. *International Journal of Biomedicine*, 3(1), 20-22.
9. Тешаев, З. О., Абдурахманова, Н. Ф., & Мухамедова, М. Г. (2018). ХРОНИЧЕСКАЯ СЕРДЕЧНАЯ НЕДОСТАТОЧНОСТЬ И АСПЕКТЫ ЕЕ ЛЕЧЕНИЯ. In *Научный поиск в современном мире* (pp. 34-35).
10. Фозилов, Х. Г., Шек, А. Б., Бекметова, Ф. М., Алиева, Р. Б., Мухамедова, М. Г., Муллабаева, Г. У., ... & Хотамова, М. Н. (2021). Особенности деформационных свойств левого желудочка у больных с поражением коронарных артерий. *Клиническая и экспериментальная хирургия*, 9(3), 118-124.
11. Nasirova, G. A., & Mukhamedova, M. G. (2023). Chronic heart failure and COVID-19.
12. Мухамедова, М. Г. (2023). Распространенность Электрокардиографических Предикторов Внезапной Смерти У Здоровых Мужчин Призывного Возраста. *Central Asian Journal of Medical and Natural Science*, 4(3), 1172-1180.
13. Mukhamedova, M., Orzиеv, D. Z., Uzokov, J. K., & Abdullaev, A. X. (2023). Optimization of antiplatelet therapy in patients with coronary artery disease and type 2 diabetes mellitus after percutaneous coronary interventions. *European Journal of Cardiovascular Nursing*, 22(Supplement_1), zvad064-111.
14. Мухамедова, М. Г., & Арнопольская, Д. И. (2016). Эффекты петлевых диуретиков в базисной терапии хронической сердечной недостаточности. *Журнал сердечная недостаточность*, 17(1), 34-40.
15. Арнопольская, Д. И., & Мухамедова, М. Г. (2019). Коррекция систолической дисфункции миокарда, развившейся на фоне противоопухолевой терапии. *Research'n Practical Medicine Journal*, 6(Спецвыпуск), 49-49.
16. Мухамедова, М. Г., Куртиева, Ш. А., & Назарова, Ж. А. (2020). СИНДРОМ ФУНКЦИОНАЛЬНОЙ КАРДИОПАТИИ У СОВРЕМЕННЫХ ПОДРОСТКОВ. In *П84 Профилактическая медицина-2020: сборник научных трудов Все-российской научно-практической конференции с международным участием-ем. 18–19 ноября 2020 года/под ред. АВ Мельцера, ИШ Якубовой. Ч. 2.—СПб.: Изд-во СЗГМУ им. ИИ Мечникова, 2020.—304 с. (p. 105).*
17. Курбанов, А. А., Нурматов, Ж. Т., Халилова, Ш. И., Рашидова, Р. К., & Абдуллаева, А. О. (2019). Процесс очистки минеральных пород от примесей. *Международный академический вестник*, (5), 125-127.
18. Курбанов, А. А., Нурматов, Ж. Т., Рашидова, Р. К., Умрзакова, Ш. У., & Абдуллаева, А. О. (2019). ФОРМИРОВАНИЯ ЖИДКОГО БАЗАЛЬТА И ЕГО СТРУКТУРНЫЕ ОСОБЕННОСТИ. *Международный академический вестник*, (5), 123-125.
19. Рашидова, Р. К., Ахмедович, К. А., Алиев, Т., Джиянов, А. Б., Турдиева, О. Д., & Нурматов, Д. Т. (2020). Термическая обработка и изменение собственных показателей базальтов.
20. Nurmатов, J. T., Kurbanov, A. A., & Rashidova, R. K. (2019). Comparative Analysis of the Physical and Chemical Properties of Uzbekistan's Basalts and Ways of Solutions to the Problems of Choice of Raw Processing Directions. *Land Science*, 1(1), p59-p59.
21. Nurmатов, J. T., Kurbanov, A. A., & Rashidova, R. K. (2019). Comparative Analysis of the Physical and Chemical Properties of Uzbekistan's Basalts and Ways of Solutions to the Problems of Choice of Raw Processing Directions. *Land Science*, 1(1), p59-p59.
22. Abdurakhmanov, S. A., Rashidova, R., Mamatkarimova, B., & Sattarov, L. K. (2015). About basalt production and ways to improve basalt product quality. *RMZ-materials and geoenvironment*, 62(2), 133-139.

23. Nazarov, S., Razzokov, K., Shirinov, G., Niyozov, E., Rashidova, R., Rasulov, M., & Ganiev, B. (2023). Investigation of thermal properties and composition on basalts of the Aydarkul deposit by methods DTA/DTG and X-ray diffraction. In *E3S Web of Conferences* (Vol. 389, p. 01023). EDP Sciences.
24. Khasan, R., Sayfulla, N., Ra'no, R., & Mirzo, R. (2023). PHYSICO-CHEMICAL INVESTIGATIONS OF THE COMPOSITION OF BASALT OF THE AYDARKUL DEPOSIT. *Spectrum Journal of Innovation, Reforms and Development*, 13, 104-108.
25. Камолов, Б., Курбанов, А., Сатторов, Л., & Рашидова, Р. (2023). ОСОБЕННОСТИ ФИЛЬТРАЦИИ БАЗАЛЬТОВЫМ ФИЛЬТРОМ ПРОМЫШЛЕННЫХ ГАЗОВ ОТ ПЫЛИ. *Innovatsion texnologiyalar*, 49(01), 38-43.
26. Nozimjon o'g'li, S. S., & Makhmudovich, A. H. (2023). NUTRITION RECOMMENDATIONS FOR CARDIAC PATHOLOGIES. *IQRO*, 1(1), 3-6.
27. Aliev, X. M., & Rahmanov, R. R. (2022). EPITELIY TO'QIMASINING VAZIFALARI VA TUZULISHINING ENG MURAKKAB JIHATLARI. *Евразийский журнал медицинских и естественных наук*, 2(1), 1-14.
28. Salomov, S. N. O. G. L., & Aliyev, H. M. (2022). OVQAT HAZM QILISH SISTEMASINING ASOSIY ORGANLARINING GISTOLOGIYASIDAGI ASOSIY XUSUSIYATLARI. *Central Asian Research Journal for Interdisciplinary Studies (CARJIS)*, 2(10), 71-78.
29. Nozimjon o'g'li, S. S. (2021). Tomir Urishining Biofizik Xususiyatlari. *TA'LIM VA RIVOJLANISH TAHLILI ONLAYN ILMIY JURNALI*, 1(4), 4-6.
30. Nozimjon o'g'li, S. S. (2024). HARTNUP KASALLIGINING KELIB CHIQISHI, DAVOLASH VA PROFILAKTIKASI. *IQRO INDEXING*, 2(1), 3-11.
31. Salomov, S. (2023). HISTOSTRUCTURE OF THE GASTRIC MUCOSA OF RATS WITH A MONOTONOUS PROTEIN DIET. *Ethiopian International Journal of Multidisciplinary Research*, 10(11), 579-582.
32. Саломов, Ш. (2023). ГИСТОСТРУКТУРА СЛИЗИСТОЙ ОБОЛОЧКИ ЖЕЛУДКА КРЫС ПРИ ОДНООБРАЗНОЙ БЕЛКОВОЙ ПИТАНИИ. *ILM-FAN XABARNOMASI*, 1(1), 18-21.
33. Nozimjon o'g'li, S. S., & Mahramovich, K. S. (2023). The Chemical Composition of the White Carrack Plant and its Medicinal Role. *Open Herald: Periodical of Methodical Research*, 1(7), 14-17.
34. Xasanboy o'g'li, A. A., Ikromjon o'g'li, A. S., & Maksimovna, M. M. (2023). CAUSES OF ALLERGY DEVELOPMENT AND METHODS OF THEIR TREATMENT. *International Multidisciplinary Journal for Research & Development*, 10(09), 06-08.
35. Xasanboy o'g'li, A. A., & Maksimovna, M. M. (2023). THE ORIGIN OF MIASTHENIA DISEASE AND METHODS USED IN TREATMENT. *IQRO*, 3(2), 3-5.
36. Mozimjon o'g'li, S. S., & Makhmudovich, A. H. (2023). Causes of the Origin of Cardiovascular Diseases and their Protection. *AMALIY VA TIBBIYOT FANLARI ILMIY JURNALI*, 2(2), 185-187.
37. Nozimjon O'g'li, S. S., & Maksimovna, M. M. (2022). THE ORIGIN OF MIASTHENIA DISEASE AND METHODS USED IN TREATMENT. *Conferencea*, 31-33.
38. Nozimjon O'g'li, S. S., & Kasimjanovna, D. O. (2022, November). ORIGIN, PREVENTION OF MENINGITIS DISEASE, WAYS OF TRANSMISSION AND THE USE OF DIFFERENT ROUTES IN TREATMENT. In *E Conference Zone* (pp. 37-40).
39. Nozimjon O'g'li, S. S. (2022). CAUSES OF THE ORIGIN OF OSTEOCHONDROSIS, SYMPTOMS, DIAGNOSIS AND TREATMENT METHODS. *Conferencea*, 76-77.

40. Nozimjon o'g'li, S. S. (2022). INFORMATION ABOUT THE STRUCTURE OF THE MEMBRANE OF EPITHELIAL TISSUE AND GLANDS. *British Journal of Global Ecology and Sustainable Development*, 10, 65-69.
41. Саломов, Ш. (2022). Изучение пневмоторакса спонтанного происхождения, их происхождения и лечебных мероприятий. *Periodica Journal of Modern Philosophy, Social Sciences and Humanities*, 12, 88-92.
42. Саломов, Ш., Мадумарова, М., & Алимов, Н. (2022). ЮРАК ҚОН-ТОМИР ФАОЛИЯТИГА АЙРИМ КИМЁВИЙ МОДДАЛАРНИНГ ТАЪСИРИНИ ЎРГАНИШ. *Central Asian Research Journal for Interdisciplinary Studies (CARJIS)*, 2(11), 33-37.
43. Саломов, Ш. Н., & Мадумарова, М. М. (2022). ЎСМИРЛАРДА ФИБРОМИАЛГИЯНИ КЕЛТИРИБ ЧИҚАРУВЧИ ОМИЛЛАР. *Central Asian Research Journal for Interdisciplinary Studies (CARJIS)*, 2(10), 83-86.
44. Nozimjon o'g'li, S. S. (2022). First Aid Medication and Remedies for Heart Failure. *Academia Open*, 7, 10-21070.
45. Nozimjon o'g'li, S. S. (2022). Emergency medical care in case of drowning and measures to restore the patient's health. *Academia open*, 7, 10-21070.
46. Nozimjon o'g'li, S. S., & Xasanboy o'g'li, A. A. (2021). Quantitative Indicators of Villi Cells in the Intraepithelial Part of the Small Intestine. *EUROPEAN JOURNAL OF INNOVATION IN NONFORMAL EDUCATION*, 1(2), 19-21.