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VA MAKTAB  
TA'LIMI VAZIRLIGI



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Milliy Pedagogika  
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- 13.00.00 Pedagogika fanlari
- 13.00.01 Pedagogika nazariyasi. Pedagogik ta'limotlar tarixi
- 13.00.02 Ta'lim va tarbiya nazariyasi va metodikasi (sohalar bo'yicha)
- 13.00.03 Maxsus pedagogika
- 13.00.04 Jismoniy tarbiya va sport mashg'ulotlari nazariyasi va metodikasi
- 13.00.05 Kasb-hunar ta'limi nazariyasi va metodikasi
- 13.00.06 Elektron ta'lim nazariyasi va metodikasi (ta'lim sohaları va bosqichlari bo'yicha)
- 13.00.07 Ta'limda menejment
- 13.00.08 Maktabgacha ta'lim va tarbiya nazariyasi va metodikasi
- 13.00.09 Ijtimoiy pedagogika
- 07.00.00 Tarix fanlari
- 19.00.00 Psixologiya fanlari
- 01.00.00 Fizika-matematika fanlari
- 02.00.00 Kimyo fanlari
- 03.00.00 Biologiya fanlari
- 09.00.00 Falsafa fanlari
- 10.00.00 Filologiya fanlari
- 11.00.00 Geografiya fanlari

# M

# AKTABGACHA VA AKTAB TA'LIMI

Pedagogika, psixologiya fanlariga ixtisoslashgan ilmiy jurnal



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# COMPLEX VARIANTS OF CONGENITAL CLEFT PALATE: SURGICAL ATTACKS

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**Abstract:** The scientific rationale and clinical application of surgical techniques for the correction of congenital clefts of the upper lip and palate are extensively documented in specialized literature, demonstrating the diversity of maxillofacial abnormalities [7, 13, 20, 21, 23–25]. Global and domestic experience, together with accumulated research findings, drive the development and implementation of innovative approaches to the correction of craniofacial deformities. This contributes to the continuous improvement of surgical and rehabilitative techniques, the integration of advanced technologies into pediatric healthcare systems, and the advancement of specialized medical expertise [1, 4, 17, 19, 20, 23, 24].

**Key words:** congenital cleft palate, uranoplasty, palatoplasty, maxillofacial surgery, pediatric surgery.

**Annotatsiya:** Yuqori lab va tanglayning tug'ma yoriqlarini jarrohlik yo'li bilan tuzatish usullarining ilmiy asoslari va klinik qo'llanilishi maxsus adabiyotlarda keng yoritilgan bo'lib, bu maksillofasial anomaliyalar xilma-xilligini namoyon etadi [7, 13, 20, 21, 23–25]. Jahon va milliy tajriba, shuningdek, ilmiy tadqiqotlar natijalari yuz-jag' deformatsiyalarini tuzatishning innovatsion usullarini ishlab chiqish va joriy etishga turtki bo'lmoqda. Bu esa jarrohlik va reabilitatsiya usullarining uzluksiz takomillashuviga, pediatrik sog'liqni saqlash tizimiga zamonaviy texnologiyalarning joriy etilishiga hamda ixtisoslashgan tibbiy bilimlarning rivojlanishiga olib keladi [1, 4, 17, 19, 20, 23, 24].

**Kalit so'zlar:** tug'ma tanglay yorig'i, uranoplastika, palatoplastika, maksillofasial jarrohlik, bolalar jarrohligi.

**Аннотация:** Научное обоснование и клиническое применение хирургических методов коррекции врождённых расщелин верхней губы и нёба широко освещены в специализированной литературе, что отражает разнообразие челюстно-лицевых аномалий [7, 13, 20, 21, 23–25]. Мировой и отечественный опыт, а также результаты научных исследований способствуют разработке и внедрению инновационных методов коррекции челюстно-лицевых деформаций. Это, в свою очередь, приводит к постоянному совершенствованию хирургических и реабилитационных технологий, внедрению современных технологий в систему педиатрического здравоохранения и развитию специализированных медицинских знаний [1, 4, 17, 19, 20, 23, 24].

**Ключевые слова:** врождённая расщелина нёба, уранопластика, палатопластика, челюстно-лицевая хирургия, детская хирургия.

## INTRODUCTION

Established “classical” technologies are frequently being refined and further elaborated, often with the incorporation of additional materials or implants (such as plastics and bioinert metals). These materials are surgically introduced into damaged structures of the maxillofacial region, meet safety standards, remain biologically inert relative to surrounding tissues, and promote guided regeneration while providing sufficient support for maxillary restoration [5, 6, 8, 9, 15].

It is important to emphasize that, in most cases, the application of advanced surgical techniques for cheilorrhinoplasty and uranoplasty requires a comprehensive set of therapeutic and rehabilitation measures involving highly qualified multidisciplinary specialists. Nevertheless, the core phase of this treatment protocol remains the surgical intervention itself [7, 11, 13, 14, 16, 18, 21]. Contemporary research also indicates that surgical approaches to correcting congenital cleft lip and palate continue to improve: multi-stage procedures are being gradually abandoned, enabling correction of maxillofacial structures by the age of 2-3 years [2, 3, 7, 11].



## LITERATURE REVIEW

Surgical correction of congenital cleft palate has evolved from simple anatomical closure to functional reconstruction aimed at ensuring proper speech development and preservation of midfacial growth. Traditional “classical” techniques, such as the Langenbeck bipediced flap and the Veau-Wardill-Kilner pushback uranoplasty, established the foundation for modern cleft surgery [7, 13, 20]. However, contemporary studies indicate that pushback techniques often resulted in extensive areas of denuded bone, leading to subsequent maxillary growth retardation and severe orthodontic complications.

## RESEARCH METHODOLOGY

An analysis of medical records from 2022-2025 at Dental Clinic No. 1 in Samarkand showed that children underwent primary surgical intervention for congenital cleft palate. Among 109 examined cases, 53 children (aged 1 year to 8 years and 2 months) presented with complex cleft palate variants characterized by asymmetry of the soft palate and uvula, along with a deficiency of native tissues. The study utilized statistical and clinical research methods, structural analysis, and photographic assessment of patients.

## ANALYSIS AND RESULTS

Consultations for correction of complex cleft palate were most frequently observed in children aged 2-4 years, with isolated cases occurring between 5-8 years. Delayed presentation was associated with remote residence, lack of local specialists, adverse social conditions of parents, or placement of the child in specialized institutions following abandonment at birth. A proprietary classification system was applied to all 53 patients with complex cleft palate types to improve diagnostic precision and optimize the selection of surgical techniques for correcting tissue asymmetry [10, 12]. Evaluation of cleft morphology, optimal age for uranoplasty, level of orthodontic preparation, and surgical approaches enabled prediction of healing duration and determination of subsequent stages of multidisciplinary rehabilitation at Dental Clinic No. 1 in Samarkand.

In certain cases, congenital asymmetrical cleft palate presented with severe features, including diastasis between palatal fragments exceeding 1.5-2 cm with significant tissue deficiency, as well as diastasis in the alveolar process region exceeding 0.5-0.6 cm. These conditions required a modified surgical strategy involving the use of “titanium silk,” regardless of patient age. This material is widely applied in various medical fields, including general surgery, dentistry, gynecology, and cosmetology. “Titanium silk” consists of 99.9% titanium and demonstrates high biochemical and biomechanical compatibility, supports guided soft tissue regeneration, and exhibits resistance to microbial colonization due to its non-absorptive properties (it does not absorb blood, saliva, or tissue fluids). Its fine-mesh structure prevents communication between the oral and nasal cavities even in cases of mucoperiosteal suture dehiscence [2, 5, 6, 8, 15].

Uranoplasty for complex cleft palate using “titanium silk” includes the following stages: incision–refreshing the cleft margins under endotracheal anesthesia, with incision type determined by cleft morphology (isolated cleft: triangular flap with base at the alveolar process; unilateral complete cleft: turnover flap from the larger maxillary segment; bilateral complete cleft: quadrangular turnover flap from the intermaxillary bone region); preparation of soft palate margins by excising 0.3-0.5 cm of oral mucosa to allow tension-free nasal mucosa suturing; Langenbeck incisions extending posterior to the alveolar processes; elevation of mucoperiosteal flaps with preservation of neurovascular bundles; detachment and repositioning of soft palate muscles from the posterior margin of the horizontal palatine plate; correction of asymmetry using the Rogozhina method (2019) [12], involving transverse incisions of the nasal mucosa on the shortened side to equalize length; implantation of “titanium silk” in cases of significant tissue deficiency according to defect configuration; transverse suturing of repositioned muscles; closure of oral mucosa with absorbable sutures; and postoperative placement of an iodoform tampon under a protective plate, removed on the second postoperative day.

Clinical examples: Case 1–Patient M., aged 1 year and 3 months, diagnosed with congenital partial cleft palate with asymmetry of the soft palate and uvula; cleft width at “Line A” was 1.0 cm, with the right uvula shortened by 0.9 cm. Outcome: successful sparing uranoplasty using the author’s method. Case 2–Patient A., aged 1 year and 4 months, diagnosed with congenital bilateral complete cleft palate with asymmetry and tissue deficiency; cleft width was 1.9 cm at “Line A” and 2.2 cm at the soft palate. Outcome: successful uranoplasty with preservation of anatomical structures using “titanium silk.” In all 53 cases, healing occurred by primary intention, normal feeding function was restored, and no oronasal communication was observed. Prolonged healing exceeding three months was noted in only two cases with defects larger than 2.0 cm.

## CONCLUSION

Selection of optimal surgical management for complex cleft palate should be individualized and based on a multidisciplinary approach. The use of “titanium silk” as an adjunct material for wide clefts (greater than 1.5-2 cm) ensures reliable defect closure at any age and facilitates effective comprehensive rehabilitation. This multimodal approach is recommended for implementation in specialized clinical settings with appropriate expertise.

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- 13.00.00 Pedagogika fanlari
  - 13.00.01 Pedagogika nazariyasi. Pedagogik ta'limotlar tarixi
  - 13.00.02 Ta'lim va tarbiya nazariyasi va metodikasi (sohalar bo'yicha)
  - 13.00.03 Maxsus pedagogika
  - 13.00.04 Jismoniy tarbiya va sport mashg'ulotlari nazariyasi va metodikasi
  - 13.00.05 Kasb-hunar ta'limi nazariyasi va metodikasi
  - 13.00.06 Elektron ta'lim nazariyasi va metodikasi (ta'lim sohaları va bosqichlari bo'yicha)
  - 13.00.07 Ta'limda menejment
  - 13.00.08 Maktabgacha ta'lim va tarbiya nazariyasi va metodikasi
  - 13.00.09 Ijtimoiy pedagogika
  - 07.00.00 Tarix fanlari
  - 19.00.00 Psixologiya fanlari
  - 01.00.00 Fizika-matematika fanlari
  - 02.00.00 Kimyo fanlari
  - 03.00.00 Biologiya fanlari
  - 09.00.00 Falsafa fanlari
  - 10.00.00 Filologiya fanlari
  - 11.00.00 Geografiya fanlari



# MAKTABGACHA VA MAKTAB TA'LIMI

**Mas'ul muharrir:** Ramzidin Ashurov

**Ingliz tili muharriri:** Murod Xoliyorov

**Musahhih:** Alibek Zokirov

**Sahifalovchi va dizayner:** Iskandar Islomov

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