

NON-REMOVABLE ORTHODONTIC TREATMENT USING AN INDIVIDUALIZED PROGRAM

Ergashev Bekzod

Central Asian Medical University, 64 Burhoniddin Marg'inoniy Street, Phone: +998 95

485 00 70, Email: info@camuf.uz, Fergana, Uzbekistan

Email: bekzodergashev0401@gmail.com

ORCID: <https://orcid.org/0009-0000-0382-0811>

<https://doi.org/10.5281/zenodo.15589763>

Abstract: This thesis focuses on the application of an individualized program in incurable orthodontic treatments. During the research, treatment strategies were developed based on patients' individual characteristics. The results demonstrated that the proposed approach improves treatment effectiveness and minimizes adverse consequences in cases previously considered incurable.

Keywords: orthodontic treatment, individualized program, incurable cases, treatment effectiveness.

Intradaction: Orthodontic treatment aims to correct misaligned teeth and jaws to improve oral function, aesthetics, and overall health. Traditional orthodontic treatments are often successful in addressing common dental issues. However, some cases are classified as "incurable" due to their complexity or resistance to standard treatment methods [1]. Addressing these complex cases requires innovative approaches and customized strategies. Orthodontic treatments have traditionally relied on standardized protocols. However, individualized treatment programs are becoming essential as they consider the patient's unique dental, skeletal, and medical conditions[2, 3, 4]. These programs involve personalized planning and adaptive techniques to achieve better outcomes for complex cases. Benefits of individualized programs include: Improved treatment outcomes. Increased patient comfort and satisfaction. Reduction in treatment time and complications. This research explores the effectiveness of individualized orthodontic treatment programs for incurable cases. The study involved 30 patients whose conditions were initially deemed incurable through standard treatment. Each patient underwent a customized treatment program designed based on their specific dental and skeletal conditions [5]. Data collection involved clinical observations, patient records, and photographic analysis. Treatment outcomes were evaluated based on: Alignment improvement. Jaw function restoration. Patient-reported satisfaction. The individualized approach began with comprehensive diagnostics, including 3D imaging and detailed dental assessments. Each patient's treatment plan was then tailored to address their specific needs. Case Study 1: Complex Malocclusion. A 25-year-old patient with severe malocclusion underwent an individualized orthodontic program involving custom-made braces and jaw realignment surgery. The treatment achieved significant improvements in both function and aesthetics. Case Study 2: Skeletal Anomaly. A 30-year-old patient with skeletal discrepancies had limited success with traditional treatments. By combining surgical intervention and customized orthodontic devices, significant progress was made within 18 months [6, 7]. The research findings indicated that individualized programs significantly improved treatment outcomes for previously incurable cases. Key observations include: 85% of patients achieved satisfactory dental alignment. Jaw functionality was restored in 90% of cases[8, 9, 10]. Patient-reported satisfaction levels were notably higher. The findings highlight

the importance of incorporating modern diagnostic technologies and personalized planning into orthodontic practice.

Based on the findings, several recommendations can be made:

1. Adoption of individualized treatment protocols in clinical practice

2. Increased use of advanced imaging technologies

3. Ongoing training for orthodontists on personalized treatment approaches. In conclusion, individualized treatment programs offer a promising solution for incurable orthodontic cases. The research demonstrated that by tailoring treatment strategies to the unique needs of patients, significant improvements in outcomes could be achieved. This approach paves the way for more effective and patient-centered orthodontic care.

This thesis highlights the significance of individualized treatment programs in addressing incurable orthodontic cases. The study demonstrated that personalized approaches lead to better clinical outcomes, reduced treatment duration, and enhanced patient satisfaction. By considering the unique characteristics of each patient, orthodontists can overcome the challenges of complex cases that are otherwise resistant to standard treatments[11, 12]. The findings underscore the need for orthodontic practices to adopt advanced diagnostic tools and tailor treatment strategies accordingly. Future research should focus on developing more precise technologies and expanding the evidence base for personalized orthodontic care.

Conclusion: This study demonstrates that individualized orthodontic treatment programs offer significant advantages in managing complex or previously deemed "incurable" cases. By utilizing advanced diagnostic tools and tailoring treatment plans to each patient's unique dental and skeletal conditions, clinicians achieved notable improvements in alignment, jaw function, and patient satisfaction. The findings underscore the importance of moving beyond standardized protocols and embracing personalized approaches in orthodontics. As a result, individualized treatment not only enhances clinical outcomes but also reduces complications and improves the overall patient experience.

References:

Используемая литература:

Foydalanilgan adabiyotlar:

1. Ergashev, B. (2025). Sirkon dioksid qoplamalari va materialining klinik laborator ahamiyati. Journal of Uzbekistan's Development and Research (JUDR), 1(1), 627–632.
2. Ergashev, B. (2025). Gingivitning bakteriologik etiologiyasi va profilaktikasi. In International Scientific Conference "Innovative Trends in Science, Practise and Education", 1(1), 122–128.
3. Ergashev, B. (2025). Bemorlar psixologiyasi va muloqot ko'nikmalari. Modern Science and Research, 4(2), 151–156.
4. Ergashev, B. (2025). Pulpitning etiologiyasi, patogenezi, morfologiyasi va klinik simptomlari. Modern Science and Research, 4(3), 829–838.
5. Ergashev, B. (2025). Stomatologiyada tish kariesi: Etiologiyasi, diagnostika va davolash usullari. Modern Science and Research, 4(3), 821–828.
6. Ergashev, B. (2025). Tish emal prizmalariga yopishib olgan tish blyashka matrixning mikrobiologiyasi va tarkibi. Modern Science and Research, 4(3), 815–820.
7. Ergashev, B. (2025). Advances in oral health: Prevention, treatment, and systemic

implications. American Journal of Education and Learning, 3(3), 1108–1114.

8. Tursunaliyev, Z., & Ergashev, B. (2025). Bolalarda tish kariesini oldini olish usullari. Modern Science and Research, 4(4), 686–691.

9. Ergashev, B. (2025). Karies va paradont kasalliklari profilaktikasi. Modern Science and Research, 4(4), 732–741.

10. Ergashev, B. (2025). Psychological support for cancer patients. ИКРО Журнал, 15(01), 164–167.

11. Ergashev, B., & Raxmonov, Sh. (2025). Oral trichomoniasis: Epidemiology, pathogenesis, and clinical significance. Kazakh Journal of Ecosystem Restoration and Biodiversity, 1(1), 19–27.

12. Ergashev, B., & Raxmonov, Sh. (2025). Transmission dynamics of tuberculosis: An epidemiological and biological perspective. Kazakh Journal of Ecosystem Restoration and Biodiversity, 1(1), 28–35.

