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In Uzbekistan The effectiveness of the resin infiltration technique (ICON) and microabrasion-remineralization with two remineralizing agents (Tooth Mousse and Toothmin) in patients 14-30 years old with hypoplastic permanent incisors - a randomized clinical trial

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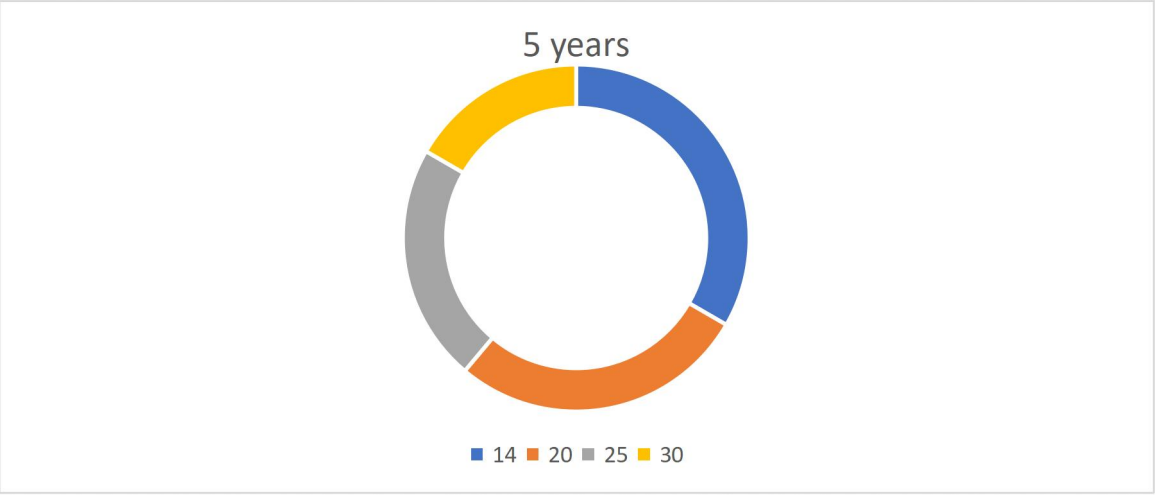
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Abstract: in Uzbekistan The purpose of the study is to compare the effect of resin infiltration and microabrasion-remineralization (MAb-Re) using Tooth Mousse and Toothmin on hypoplasia of permanent incisors in 14-30 year old patients over a period of 5 years.

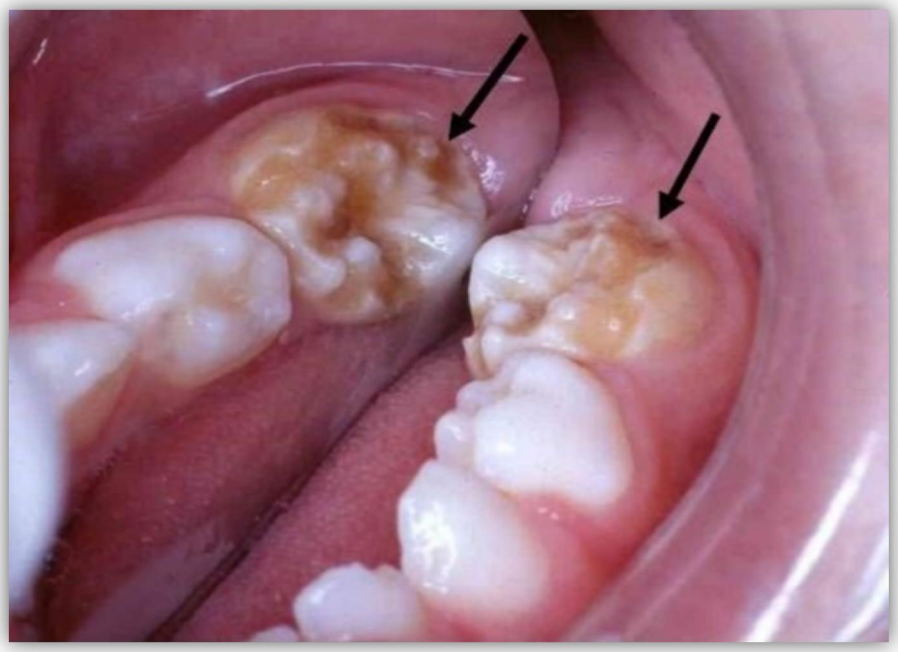
Keywords: Casein phosphopeptide-amorphous calcium phosphate nanocomplex; dental enamel hypoplasia; enamel microabrasion; esthetics; resin infiltration; tooth remineralization



Dental enamel – the outermost layer of our teeth – is the hardest substance in the human body. It needs to be, because enamel is what protects the sensitive, nerve-filled centers of our teeth against hard chewing and biting forces. Unfortunately, dental enamel does not always form properly. Disruptions to the enamel formation process can lead to several different types of enamel defects in children, one of which is enamel hypoplasia.

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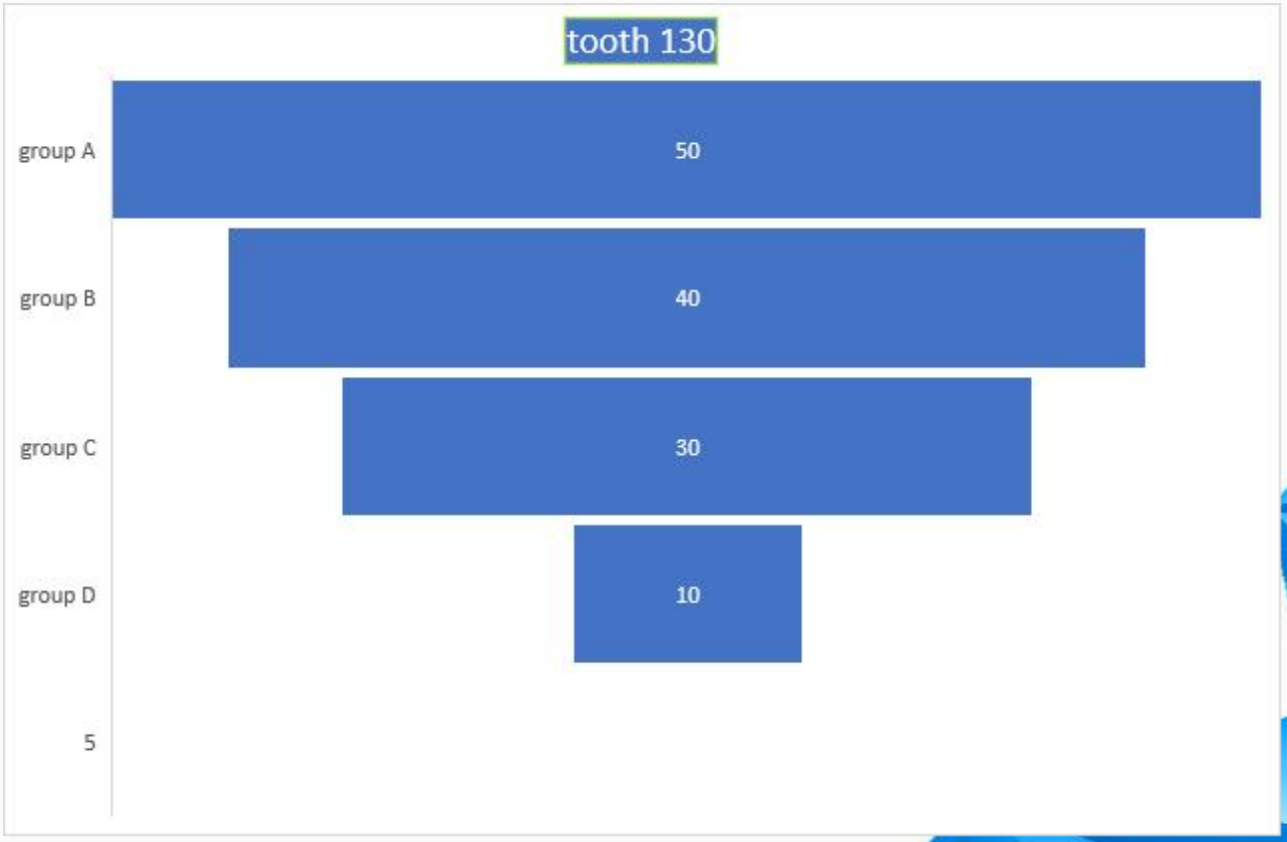
Enamel hypoplasia refers to a particular type of developmental enamel defect — namely, a reduced quantity of enamel. In contrast, amelogenesis imperfecta refers to a developmental enamel defect with a particular cause — namely, a genetic disorder that affects dental enamel development but that does not cause other symptoms. Children with amelogenesis imperfecta can have a variety of different types of enamel defects, including enamel hypoplasia.

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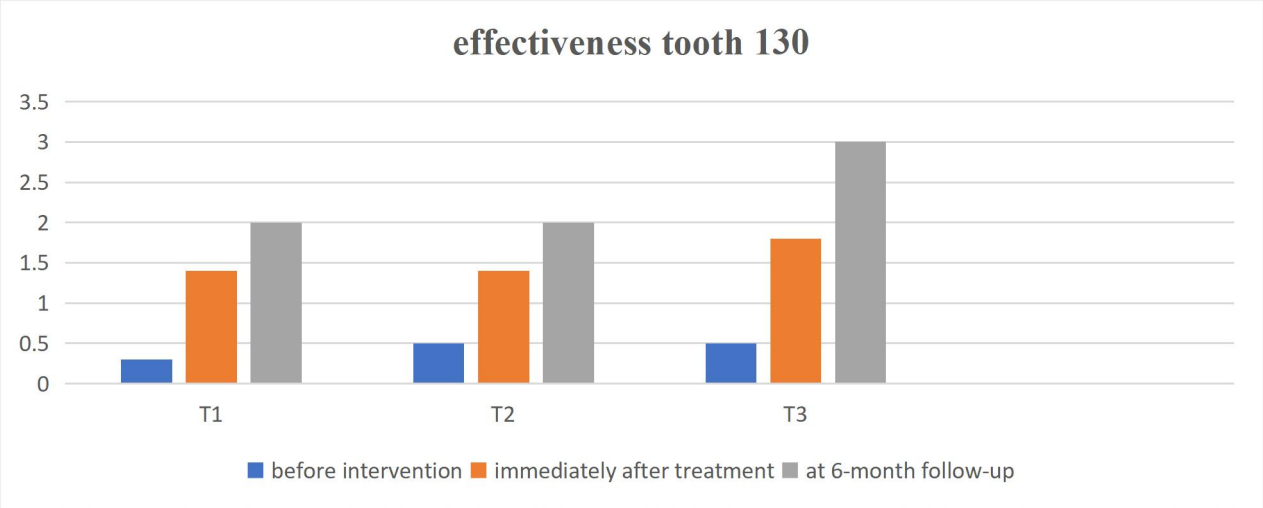
If you suspect that your tooth enamel is defective, make an appointment with your dentist. In dentistry, we place great emphasis on patient and parent education. If your doctor determines that you have enamel hypoplasia, he will work with you to develop a plan to reduce the risk of complications and can also perform any necessary preventive or restorative procedures.

Materials and methods: The study included a patient with hypoplasia of permanent incisors, 14-30 years old, tooth 130, randomly divided into four groups: group A - ICON, group B - MAb-Re using Tooth Mousse, group C - MAb-Re using Toothmin and group D - control group. The process included standardized photographs at T1—before intervention, T2—immediately after treatment, and T3—at 6-month follow-up. The evaluation included color scoring, area calculation, participants' and experts' Likert scale opinions, treatment time, and cost-effectiveness tooth 130.



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Statistical analysis used: Data were collected, entered into a computer, and analyzed; one-way ANOVA was used for intergroup assessment.



Results: A general color change was evident immediately after treatment in the ICON group compared with the other groups ($P < 0.06$). However, after 6 months, no significant differences in color change were found between the groups. A decrease in the area of hypoplasia was observed in all groups. The average time was the same for all groups. Toothmin was found to be the most cost-effective compared to the other two interventions.

Conclusions: ICON proved to be more effective immediately after treatment for masking incisor hypoplasia. However, at 7-month follow-up interval, all the groups gave similar results.

REFERENCES:

1. Admakin A.L., Sokolov V.A. Surgical treatment of the consequences of burn injury//Combustiology.-2011.- No. 41-42. – P.31-32.
2. ANTHROPOMETRIC RESULTS OF THE MAXILLOFACIAL REGION IN CHILDREN WITH ADENOID HYPERTROPHY. Rakhmonova Bakhora Kakhhorovna. Barotov Bobosher Ikrom coals. Toshmurodova Mavluda Rustamovna. Samarkand State Medical University. INTERDISCIPLINARY INNOVATION AND INNOVATION IN UZBEKISTAN. JOURNAL OF SCIENTIFIC RESEARCH No. 19 FROM 05/20/2023
3. Volume-11| Issue-4| 2023 Published: |22-04-2023| Publishing Center of Finland 2095 CHRONIC OBSTRUCTIVE PULMONARY DISEASE DISSEMINATED PERIODONTITIS IN INFECTED PATIENTS https://doi.org/10.5281/zenodo.7884961 Rakhmonova Bakhora Kakhhorovna Kosimov Sardar Abdullo ugli Kosimov Daler Abdullo ugli Samarkand Russian State Medical University
4. ACHIEVEMENTS AND DISADVANTAGES OF MODERN ENDOSCOPIC SURGERY OF THE FACE AND JAW Rakhmanova Bakhora Kahorovna Tursunov Shokhrukhkhon Abduvali ugli Samarkand State Medical University Faculty of Dentistry. INTERDISCIPLINARY INNOVATIONS AND INNOVATIONS IN UZBEKISTAN JOURNAL OF SCIENTIFIC RESEARCH No. 17 03.20.2023

5. MODERN ENDOSCOPIC SURGERY ON THE FACE AND JAW ACHIEVEMENTS AND DISADVANTAGES Rakhmanova Bahora Kakharovna Bozorov Xushnud Mekhrojiddinovich Samarkand state medical universeteti Faculty of Dentistry. INTERDISCIPLINARY INNOVATIONS AND INNOVATIONS IN UZBEKISTAN JOURNAL OF SCIENTIFIC RESEARCH No. 17 03.20.2023

6. COVID-19 INFECTION IN PATIENTS WITH BIPOLAR DISORDER AND BIPOLAR DISORDER HAS A HISTORY OF FEVERS AND THEIR COMPLICATIONS Prof. Boymuradov Sh.A., Maksudov D.D., Rakhmonova B.K., Kholmamatov F.Z Samarkand State Medical University. Samarkand Uzbekistan. JANUARY 2023 JOURNAL OF INTEGRATED EDUCATION AND RESEARCH

7. JOURNAL OF INTEGRATED EDUCATION AND RESEARCH OF MODERN ENDOSCOPIC SURGERY OF THE FACE AND JAW ACHIEVEMENTS AND DISADVANTAGES Saparbayev Hasanboy Ilham ogly, Rakhmanova Bakhora Kakharovna Samarkand State Medical University Faculty of Dentistry

8. TREATMENT OF FRACTURES OF THE UPPER AND LOWER HEAD IN ELDERLY PATIENTS USING THE IMMOBILIZATION METHOD IMPACT ON PERIODONTAL TISSUE Raxmonova Baxora Kaxxorovna, Xaydarova Durdona Munisovna, Sadikova Shoira Amriddinovna Samarkand State Medical University https://doi.org/10.5281/zenodo.10057519 SCIENCE AND INNOVATION INTERNATIONAL SCIENTIFIC JOURNAL VOLUME 2 ISSUE 10 OCTOBER 2023 UIF-2022: 8.2 | ISSN: 2181-3337 | SCIENTISTS.UZ

9. IMPROVING THE SURGICAL METHOD OF SCAR MICROSTOMY Rakhmonova Bakhora Kakhorovna Marupova Madina Khikmatullayevna. Toshtemirova Mokhira Makhmud kizi Samarkand State Medical University, Samarkand, Uzbekistan

https://sjird.journalspark.org/index.php/sjird/article/view/561

10. ВО-ПАРАМЕТРИЧЕСКИЙ АНАЛИЗ. АНАЛИЗ СИЛЫ ДИФФУЗИИ ВЕЙБУЛЛА В СОВРЕМЕННЫХ КЕРАМИЧЕСКИХ МАТЕРИАЛАХ. https://doi.org/10.5281/zenodo.10057868 Марупова Мадина Хикматуллайевна Рахмонова Бахора Каххоровна Садикова Шоира Амриддиновна International Journal of Education, Social Science & Humanities. Finland Academic Research Science Publishers ISSN: 2945-4492 (online) | (SJIF) = 7.502 Impact factor Volume-11| Issue-10| 2023 Published: |22-10-2023|