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Minimally Invasive Diastema Clousre - One Year Follow Up Abstract

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1. Abstract

This case report presents a 23-year-old male patient with generalized anterior spacing, managed using a minimally invasive approach with the Bioclear matrix system and Omnichroma composite (OPA2 shade). The treatment aimed to enhance aesthetics without tooth preparation. The patient was followed for one year, showing excellent aesthetic results and stability with no discoloration, chipping, or relapse.

2. Introduction

Diastema, or spacing between anterior teeth, is a common aesthetic concern among young adults. Traditional treatment options include orthodontics or porcelain veneers, which may not always be the most conservative approach. This case highlights the use of Bioclear system to build proximal walls with Omnichroma composite to achieve natural-looking, long-lasting results with a non-invasive method.

3. Case Report

A 23-year-old male presented with generalized spacing in the upper anterior region. No history of trauma, habits, or systemic disease was reported. After discussing treatment options, the patient opted for composite closure using the Bioclear matrix system.

Isolation:Rubberdam isolation was used.

Matrixplacement:Bioclearmatriceswereselectedbasedontoothmorphology.

Etchingandbonding:Standardetch-and-rinseprotocolwithuniversaladhesive.

Composite placement: Omnichromacomposite(OPA2shade)wasinjectedusingtheBioclear only to build proximal surface.

Finishing&polishing:Multi-stepfinishing protocol using polishing discs and spirals.

4. Follow-Up

At one-year follow-up, the restorations were intact, with excellent colour stability and no marginal staining or chipping. The patient reported high satisfaction with the aesthetics and comfort.

5. Discussion

The use of the Bioclear technique allows for additive dentistry that respects the tooth structure. Omnichroma's unique shade-matching capabilities provided a seamless blend with natural dentition. This case demonstrates how advanced materials and techniques can address aesthetic concerns in a conservative and predictable manner.

6. Conclusion

Minimally invasive diastema closure is an effective and aesthetic solution for patients with anterior spacing. Long-term follow-up shows high clinical success and patient satisfaction.

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