Minimal I y Invasive approach in anterior teeth clinical case

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Description of the Clinical Case

A 20-year-old male patient presented at the Instituto Universitário de Ciências da Saúde -Gandra, University Dental Clinic belongs to Department of Conservative Clinic complaining about the appearance of her smile. Finished orthodontic treatment 5 years ago, without relevant background. The extent of white spot lesions (13-23) was evaluated by transillumination with the light curing. The physical and clinical history evaluation, led to the following diagnosis: HIM (Molar Incisive Hipomineralization), desmineralization after orthodontic treatment and fluorosis. Prognosis: favorable. Treatment plan: microabrasion (Opalustre[®]), microinfiltration (ICON[®]) and diastema closure.

Keywords Resin Infiltration; Microabrasion; White Spots; Aesthetics

Discussion

In the last few years, minimally invasive techniques such as infiltrative composite (in more superficial enamel stains) and microabrasion technique (in deeper enamel stains) have been used in the treatment of white spot lesions as an alternative to hard tissue removal with burs. The microinfiltration technique has been described as highly conservative in the treatment of non-cavitated white spot lesions. The microabrasion aims at a minimally invasive approach in deeper enamel lesions. However, unlike conventional restorations, in this technique there is only the necessary abrade for total removal of the lesion.

Clinical Case



Final Result



Fig.15: Intraoral. 15a: Initial situation before clinic procedure 15b: Final situation after clinic procedure





Fig.16: Intraoral. 16a: Initial situation before clinic procedure 16b: Final situation after clinic procedure

Conclusions

Fig.17: Transilluminating test with the light curing. **17a,b**: Inicial. 17c,d: Final

With the correct use of these techniques, it was possible to improve the appearance of the anterior teeth. It can be concluded that microabrasion and microinfiltration are safe techniques, providing favorable results in the treatment of white spot lesions. However, studies with prolonged follow-up periods are necessary in order to evaluate the long-term behavior of the composite.

References