

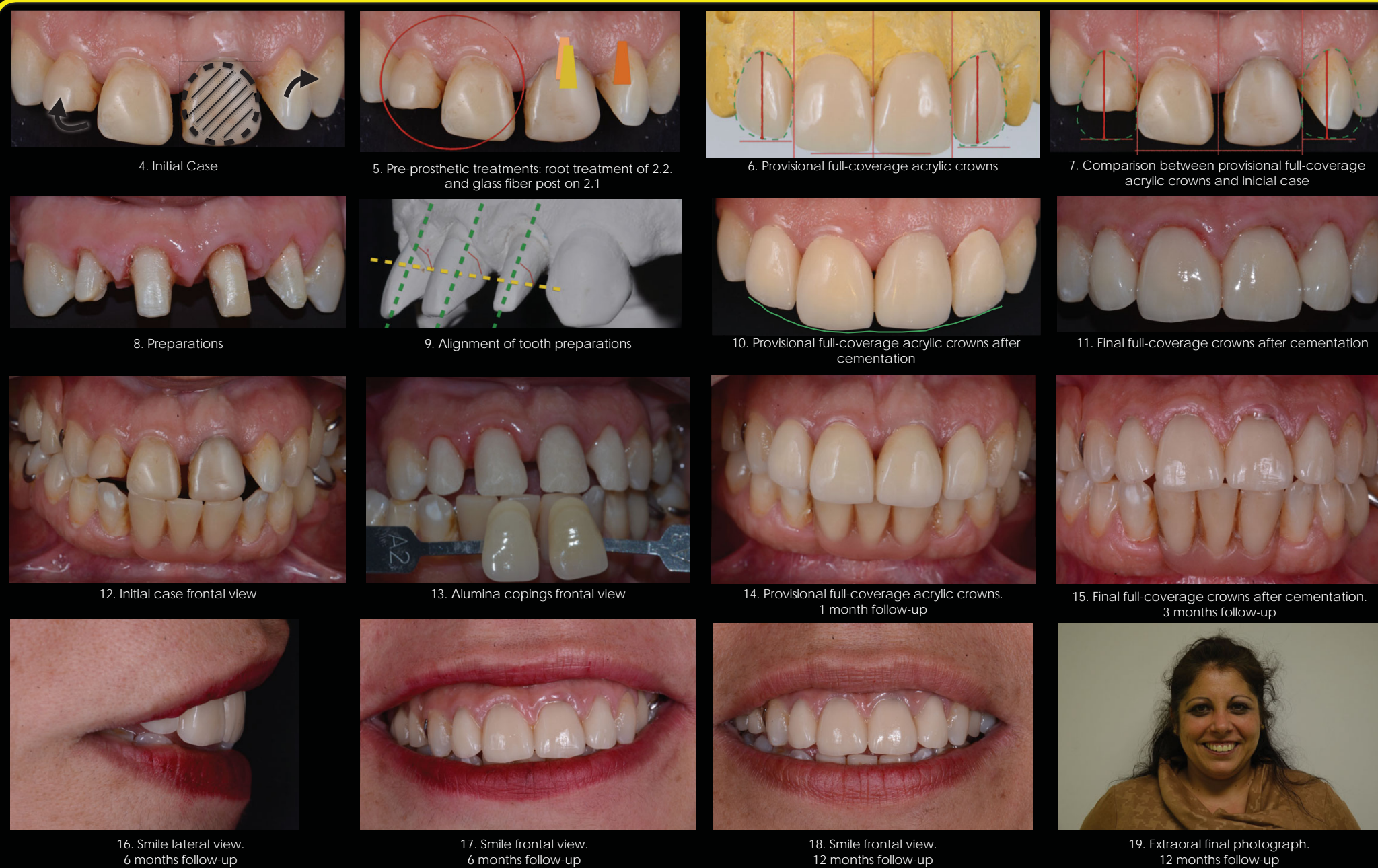


Fixed Prosthesis Rehabilitation of a Patient with Diastemas and Gummy Smile

CASE DESCRIPTION

Female patient, 39 years old, came to the dental clinic and mentioned "I would like to have prettier front teeth" (sic).

Healthy patient, non-smoker, denied any medication daily. Two periapical x-rays were taken and revealed old restorations on both incisors. The patient has also the 1.2 and 2.2 rotated and bad positioned, anterior cross bite, inter-incisor diastema, gummy smile and a high smile line. After analyzing the case and studied all possibilities, full-coverage crowns with alumina copings were made on 1,2, 1,1, 2,1 and 2,2. First, root treatment was done on 2.2 because of the pulp involvement during preparation. Glass fiber post was placed on 2.1. The soft tissues were shaped by the provisional full-coverage acrylic crowns during 3 months. The prognosis with demotivated patients is reserved because lack of motivation may aggravate the periodontal response, and this has a higher importance in patients with gummy smiles.



Discussion

The aesthetics was the first success intention. Teeth preparation and the provisional full-coverage crowns maintenance, made possible to obtain the perfect papillary shape. Full-coverage crowns allowed the closure of inter-incisors diastema, the alignment and correct positioning of tooth and solving the anterior cross bite.

Conclusion

Although in the literature full-coverage crowns are considered a very invasive procedure, with this case report was possible to correct bad occlusion with fixed prosthesis which is described on the literature as a treatment option.

References

1. Badrawy, W. et al. (2009). Comparison of Porcelain Veneers and Crowns for Resolving Esthetic Problems: Two Case Reports, JCD, 75(10), 701-704
2. FURUYA, Y. et al. (2014) Fracture strength and stress distributions of pulpless teeth restored with fiber post. Dental Material Journal, 33(6), 852-858