Immediate implant with immediate loading in the esthetic zone

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Introduction

Patient 42 years old, healthy and fit complained of pain on bitting on 11. Upon metal-ceramic crown removal, it is noticed a vertical root fracture.



Fig.1- Panoramic radiography

Purpose

Extraction of 11 and implant placement at the same surgical time followed by an immediate loading with an acrylic provisional crown which is, 6 months later, replaced by a final zirconia crown.



Fig. 2 - Intraoral photographies

Methods



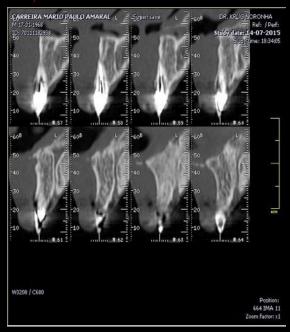


Fig. 4 - Flapless atraumatic extraction

Fig. 6- GAP between implant and buccal plate regenerated with Geistlich Bio-Oss® Collagen



Fig. 5 - Camlog Promote Plus ® 4,3 13mm implant placement - palatal



Fig. 7- Front view of the healing cap with Braun® silk nonabsorbable 4/0 suture

Results



days after surgery, on the day of the suture removal



Fig. 8 - Provisional acrylic crown 10 Fig. 9 - Provisional acrylic crown 3 weeks after surgery



Fig. 10 - Final zirconia crown 6 months after surgery - lateral



Fig. 11- Final zirconia crown 6 months after surgery - front



Fig. 12- Final zirconia crown 6 months after surgery - lateral



Fig. 13- Baseline periapical radiography on the day of the implant placement



Fig. 3 - Computerized tomography

Final zirconia crown 4 years after surgery - front view



Fig. 15 - Periapical radiography 4 years

Conclusion

As the buccal plate was intact, an immediate implant with an immediate provisional crown allowed to keep an adequate gingival margin with a correct papilla position. A follow-up period of 4 years shows good aesthetics with stable hard and soft tissues.

Bibliography

1) Felice P, Zucchelli G, Cannizzaro G, Barausse C, Diazzi M, Trullenque-Eriksson A, Esposito M.Immediate, immediate-delayed (6 weeks) and delayed (4 months) post-extractive single implants: 4-month post-loading data from a randomised controlled trial. Eur J Oral Implantol. 2016;9(3):233-247.

