

8.5

8.5 mm intertooth space management with two narrow implants

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Introduction

The use of dental implants to replace natural teeth has become a predictable treatment in restorative dentistry. However in some situation there are clinical impediments related to intertooth mesio-distal space, convergent roots or close proximity of root trunks.

Case report

A 31 years old female was referred by an endodontic specialist after 2 failed retreatment endodontic procedures. The patient's chief complaint was a recurrent buccal swelling. Symptoms began to arise approximately 2 years ago. She reported a trauma caused by domestic accidents few months before the beginning some mild symptoms. Her general dentist performed a root canal for the lower central incisor but the symptoms became severe enough to interfere with her social life during the following 3 months. An endodontic retreatment was performed that reduced the symptoms in gravity. After approximately 8 months, central lower incisors became mobile and a the patient accused a recurrent swelling and a mild to moderate pain. The endodontic specialist referred the patient for surgical treatment. Extractions and cystectomy was performed. Maryland bridge was selected as a temporary prosthesis. Due to limited mesiodistal space (aprox. 8 mm), and according to the patients will of restoring each tooth with an implant, she was offered the option of orthodontically move the lateral incisors towards the midline and create 2 separate edentulous spaces and 2 implant supported crowns. After the completion of the orthodontic treatment two 3 mm/ 11.5 mm implants were placed using a surgical guide. Temporary screw-retained crowns, in unfunctional loading, were delivered. After 4 months 2 zirconia crowns were fixed.



1. prep x-ray
2. clinical aspect after cystectomy
3. and 4. clinical aspect after 2 months post
5. and 6. lateral incisors moved towards midline
7. and 8. digital planning
9. surgical guide
10. flapless drilling
11. and 12. screw retained temporary crowns
13. x-ray 7 days post
14. x-ray 7 days after crown delivery
15. final aspect

