

Important Numbers in Implant Dentistry

<5mm interdental space

Restoration of missing maxillary lateral incisors using the small diameter implants Intermezzo. A case report

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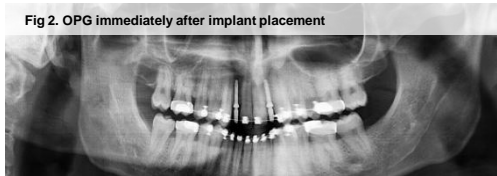
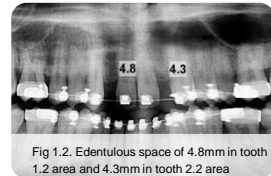
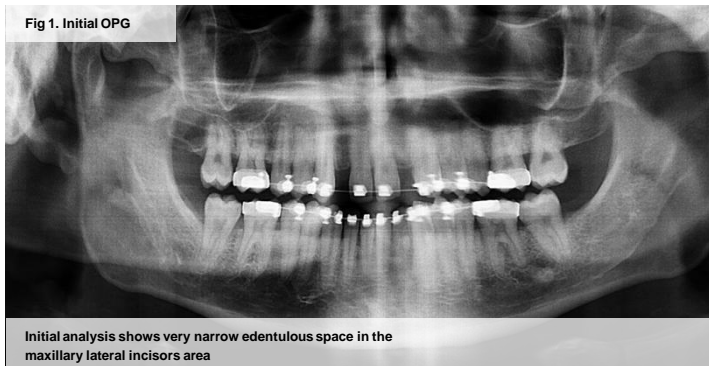
Purpose

Present a treatment option to restore missing teeth with reduced interdental space using dental implants.

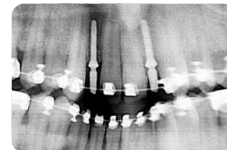
Case presentation

30 year old white Caucasian male

Referral by orthodontist to restore teeth number 1.2 and 2.2

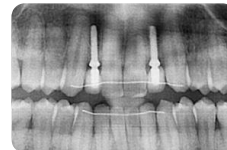


- > Full thickness flap surgery was performed and two small diameter implants, 2.5mmØ and 11.5mm in length (Intermezzo Implant System; MegaGen Implant Co, Gyeongsan, Korea) were placed in the edentulous area of tooth number 1.2 and 2.2 following the surgical protocol established by the manufacturer. The insertion torque was of 20Ncm. No primary stability was achieved.
- > Bone density was described as Type III, according to the Lekholm and Zarb classification, by the surgeons tactile sensation during surgery.
- > Immediate bis-acryl composite (Protemp Plus, 3M Espe, St Paul, Minn) temporal restorations were placed. No occlusal contacts were given and healing was allowed for 6 months.
- > Definitive cemented lithium disilicate all ceramic crowns (IPS emax Press, Ivoclar Vivadent AG, Schaan, Liechtenstein) restorations were placed 6 months post-surgery.



During provisionalization, immediately after implant placement, implant 2.2 came off while trying to remove the crown due to the resin contraction.

Implant 2.2 was placed again by hand and healing was allowed for 6 months.



6 months post surgery, good osseointegration was observed and two lithium disilicate ceramic crowns were placed.

2 year follow-up shows no evidence of bone loss and crowns still in place despite poor oral hygiene.

Conclusions

Within the limitations of this case report, Intermezzo implants can be a viable solution as definitive treatment in extreme cases where there is not enough interdental space to fit a wider implant.

