

Fig 1-4. Pre-operative radiographic evaluation of 4 treated cases



Fig 5-8. Mandibular bone bocks harvesting procedures



Fig 9-12. Post-operative OPT of the engrafted sites



RESULTS

All bone grafts were fully integrated and no significant bone resorption was observed at the time of implant placement. A post-operative complications rate of 5,5 % was reported at both the harvesting and grafting sites, represented by one case of transitory paresthesia and one case of membrane exposure, respectively. The overall implant survival and success rates were comparable with data reported for implants placed in native bone (100% and 98%, respectively).

CONCLUSION

Results from this study suggest that the reconstruction of resorbed edentulous sites with autogenous onlay blocks stabilized with fixation screws, mixed with bovine bone mineral, and covered by a resorbable collagen membrane, represents a reliable alternative to allow the rehabilitation of atrophic sites with adequately dimensioned implants placed in a prosthetic driven position.

References

1. Albrektsson T, Zarb G, Worthington P, Eriksson AR. The long-term efficacy of currently used dental implants: a review and a proposed criteria of success. Int J Oral Maxillofac Implants 1986; 11-25 2. Chiapasco M, Casentini P, Zaniboni M.Bone augmentation procedures in implant dentistry. Int J Oral Maxillofac Implants. 2009;24 Suppl:237-59.

3. Felice P, Cannizzaro G, Barausse C, Pistilli R, Esposito M. Short implants versus longer implants in vertically augmented posterior mandibles: a randomised controlled trial with 5-year after loading follow-up.Eur J Oral Implantol. 2014 Winter;7(4):359-69.