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Evaluation of 3.0 mm narrow-diameter implants improved by reverse-tapered profile in human ; a case report

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Object

The aim of the present case report was to investigate the clinical efficacy of 3.0 mm narrow-diameter implants with reverse-tapered profile

Materials and Methods

A patient was selected among patients presenting to the Department of Periodontology of Chonbuk National Uni-versity for missing area of mandibular anterior teeth. Implant fixture was Megagen ThinRidge™, Ø 3.0 x 10. Implant stability quotient(ISQ) values were initially measured at the time of implant installation and re-measured again after 12-week healing period. Cone beam CT analysis was performed at the same time.



Figure 1) Megagen ThinRidge™, Ø 3.0 x 10

Results

The baseline ISQ values increased as healing progressed. According to CBCT analysis, it was confirmed that all implant fixtures exhibited successful bone-implant contact without any signs of inflammation.

	Baseline (1st surgery)	12-week (2nd surgery)
#41 ISQ	64.0(64, 64)	65.0(63, 67)
#32 ISQ	68.0(69, 67)	70.5(71, 70)
#33 ISQ	34.5(32, 37)	70.0(70, 70)



#32

#83

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Conclusions

Within the limitations of the present study, it can be concluded that 3.0mm narrow-diameter improved by reversetapered profile may have advantages in restoring narrow ridge without bone grafting.

References

Romato E, Lope D, Amortini L, Chiapasco M, Ghisofii M, Vogel G. Clinical and radiographic evaluation of small-diameter (3.3-mm) mplants followed for 1-7 years: a longitudinal study. Clin Oral Implants Res 2006;17:139-148. Meredith N, Alleyne D, Cawley P, Quantilative determination of the stability of the implant-tissue interface using resonance frequency najsis. Clin Oral Implants Res 1996;7:261-267.

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