96.7%

Long-term survival rate up to 10 years of loading using Rescue® MegaGen short wide diameter implants.

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Object

Implant placement often becomes a very difficult task, due to the lack of bone in height and width respectively. Regionally this occurs more at the posterior maxilla and mandible too (1). In order to achieve successful and ad equate osseointegartion, various techniques have been introduced. More specifically sinus elevation (open and equate osseruntegration, various techniques nave usernimization, which specifies a significant various techniques of the properties of the properties of the properties and lateral transposition of the inferior alveolar nerve. Nevertheless these techniques for various reasons, many times are not applicable or successful (2). Short implants are defined as the futures with equal or less of 8 mm (3). Recently the first results have been brought up to surface regarding the survival rates and the performance of them. This study presents. The up to 10 year results of two private clinics in Greece.

Materials and Methods

Ninety-two fixtures (Rescue® MegaGen Co, Ltd, 377-2, Kyochon-Ri, Jain-Myun, Gyeongsan, Gyeongbok, Korea) with a length between 5.0 to 8.0 mm, and a diameter of 6.0 to 8.0 were placed from 2006-2010 (4). Seventy seven patients (34 males, 43 females aged between 26-67 years of age with an average age of 52,7 years were treated) participated in this private survey. From the 92 implants, seventy three were placed in maxilla and the est nineteen were placed in mandible; 40 of these were restored with single crowns and 52 served as abutments of fixed partial dentures. Osseointegration period was standardized as 6 months for the upper arch and 3 for the lower arch. Regarding the restoration, all implants were restored using the same laboratory and technician. The superstructure design of choice was cemented porcelain fused to metal crown

Male 63 years old Rescue ext. 2 fixtures (7.0x6.0 mm)







2. Female 49 years old Rescue ext. 2 fixtures (7.0x6.0 mm)









Results

om the ninety-two fixtures three implants have been lost after a period of follow up, up to 10 years after implants post loading indicated an acceptability survival rate of 96.7%.

AFOTas	AMLL	PARKA	304	SUCCESSION NAME OF
MANUA	33	43	73	96.5%
	6	13	19	100%
FEF.AL.	20	60	92	96,7%

Discussion

Short wide diameter implants appear as an alternative to augmentation techniques. Their advantages are: de creased cost, decreased operation time, no sophisticated surgical interventions and less complications. Their increased diameter results in an improved emergence profile which is a typical issue with standard diameter fixtures when used at a molar location. Last the increased diameter outreaches the difference in length because of the increased osseointegration surface.

Conclusions

Short wide diameter implants are a valid treatment particularly in compromised cases technique cannot be used, in order to have a longer implant placed. This study indicated some results as trends for the value of short implants. More studies are necessary in order these trends to become solid.

References

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