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MEGA GEN
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Scientific Challenges beyond Osseointegration

2 cases GBR i-Gen

GUIDED BONE REGENERATION (i-Gen) : TECHNICAL DESCRIPTION AND CASE SERIES

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Object

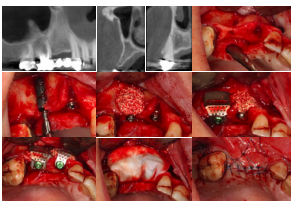
The aim of this poster is to present the step-by-step i-Gen guided bone regeneration technique reporting 2 clinical cases.

Materials and Methods

Horizontal guided bone regeneration was performed in 2 patients with narrow crestal bone width by using the i-Gen technique (MegaGen). This technique was based in using i-Gen preformed titanium mesh with immediate implant placement. The diagnosis and surgical planning was accomplished by CBCT imaging. In one patient, AnyRidge (MegaGen) implants were placed and in the other patient two AnyOne (MegaGen) implants were placed too. The guided bone regeneration was performed by using in both cases a Creos (Nobel Biocare) collagen membrane. Another CBCT was done immediately after the surgery and the follow-up was performed at 6 and 12 months after the surgery.

CASE 1

<PHASE 1>



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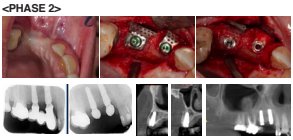
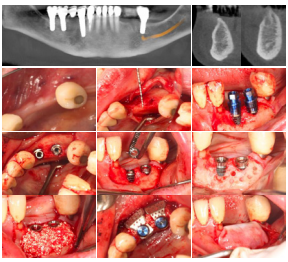


CASE 2

<PHASE 1>



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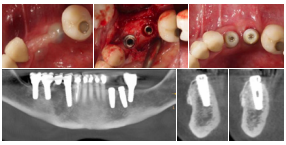

Results

In both cases, a considerable increase in horizontal bone gain was achieved, especially around the implant neck. In addition, no complications were recorded during the surgery or during the follow-up.

Conclusion

The i-Gen horizontal guided bone regeneration technique has demonstrated being a fast, easy-performed and predictable technique. Bone gain around the neck of immediate implants placed was achieved successfully. The shape of the mesh above the implant platform gives space to allow bone regeneration around the neck of the implant. On the other hand, vertical bone regeneration can be achieved too due to the perfect stabilization of the mesh obtained with the implant screw.

References

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