



# Case Study

Sinus Graft Using the Crestal Approach and Replacement of a Maxillary Left 1<sup>st</sup> Molar with a Zimmer® Trabecular Metal™ Dental Implant

**Case#2**

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## Case Study Dr. Edgard El Char



**A 38-year-old male presented with a fractured maxillary left 1<sup>st</sup> molar decayed in the furcation area.**



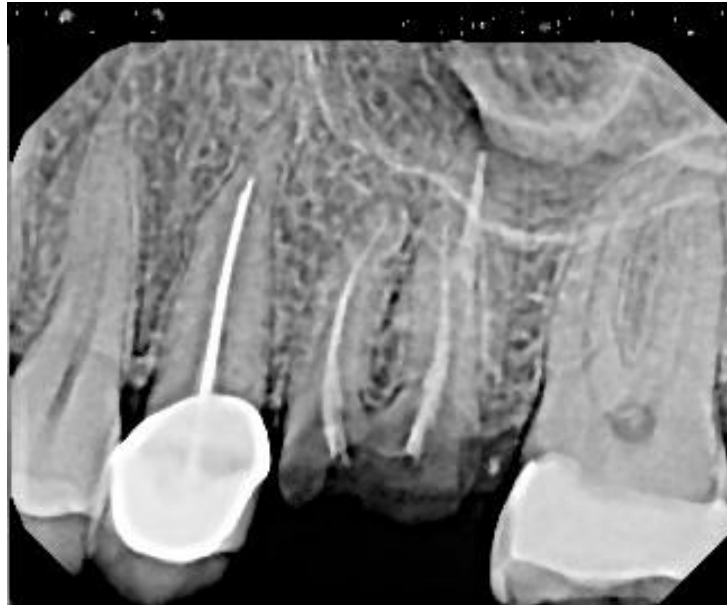
## Case Study Dr. Edgard El Char



**Occlusal view of a fractured and decayed maxillary left 1<sup>st</sup> molar**



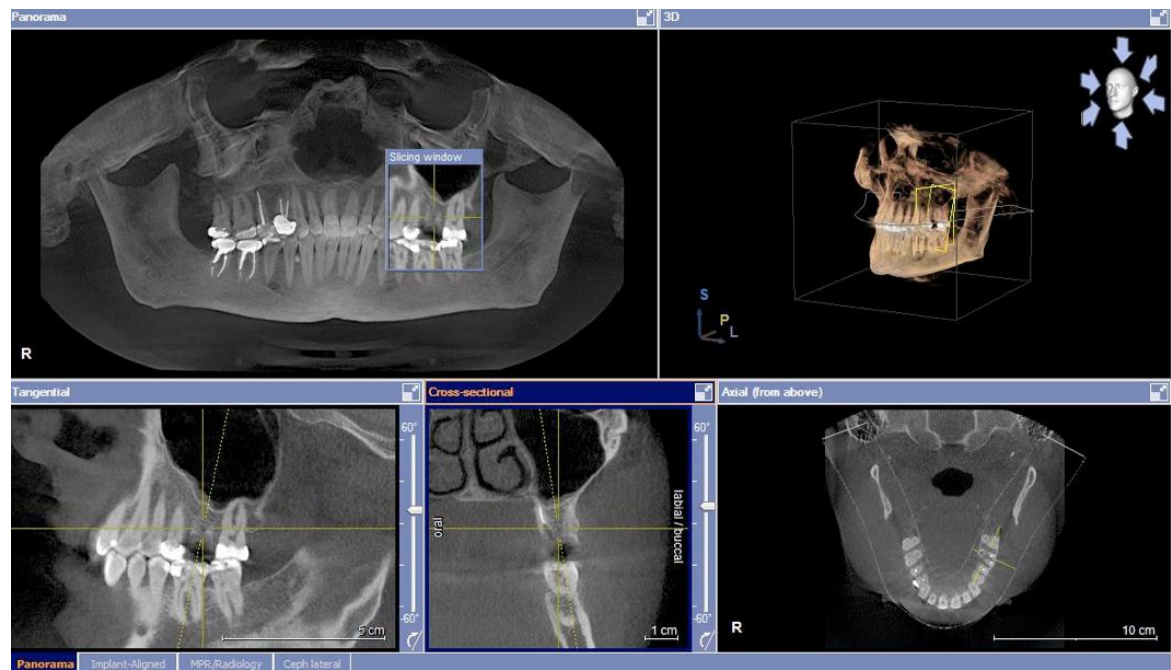
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**Periapical radiograph shows residual root fragments from the fractured maxillary left 1<sup>st</sup> molar area.**



# Case Study Dr. Edgard El Chaar



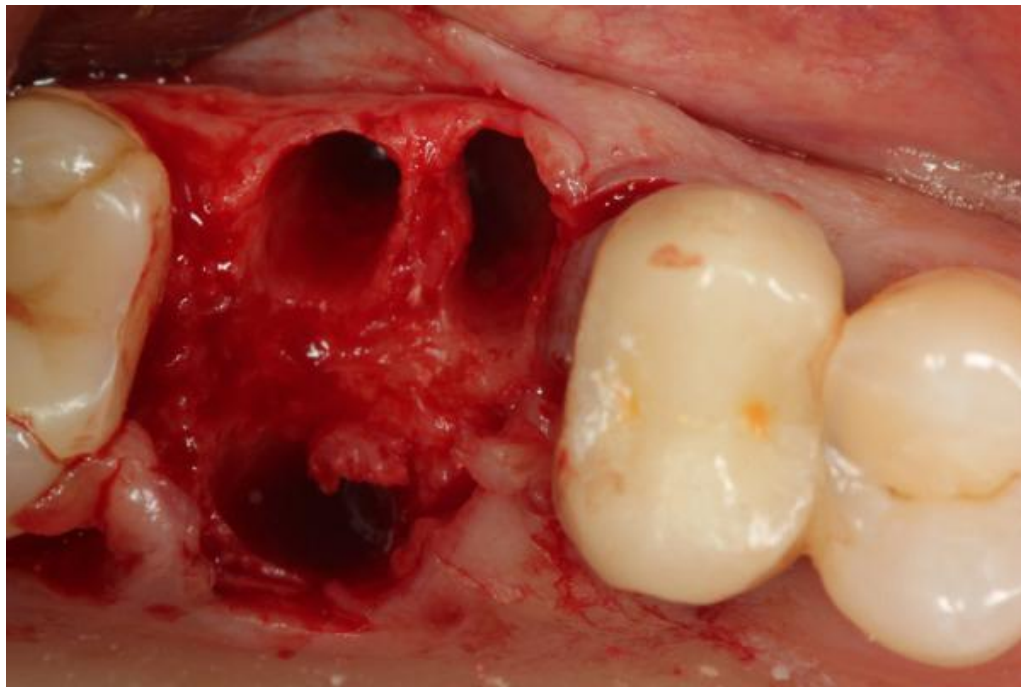
**CAT Scan of patient with the following views, Panoramic, 3-D, Tangential, Cross section and Occlusal.**

**Computed Tomography of the treatment site shows panoramic, three-dimensional, tangential, cross-sectional and occlusal views.**





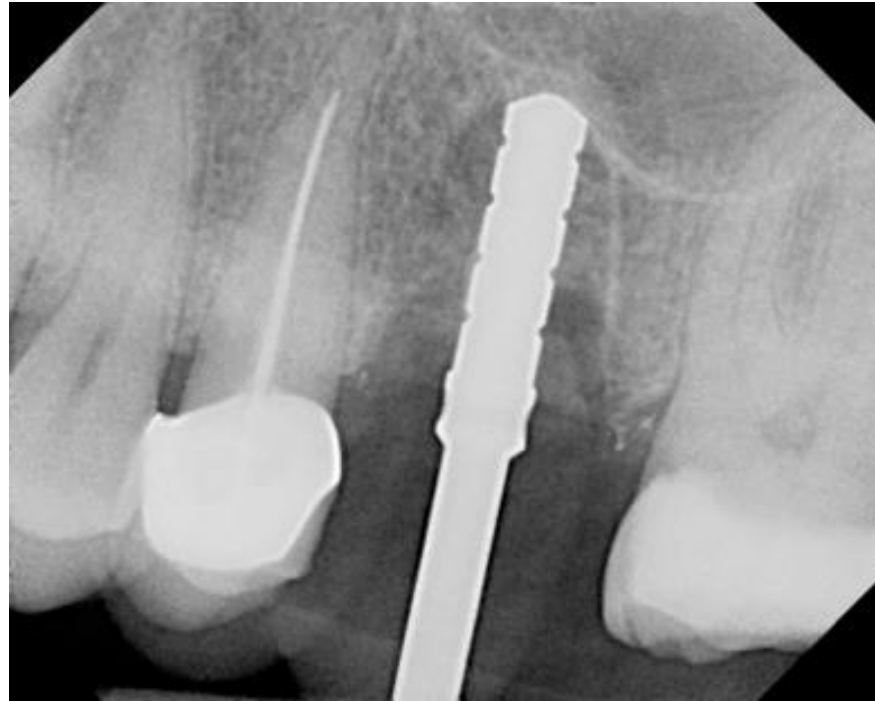
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**Preparation of the extraction socket for placement of the dental implant. Root fragments were carefully removed using an atraumatic technique to preserve the surrounding bony architecture.**



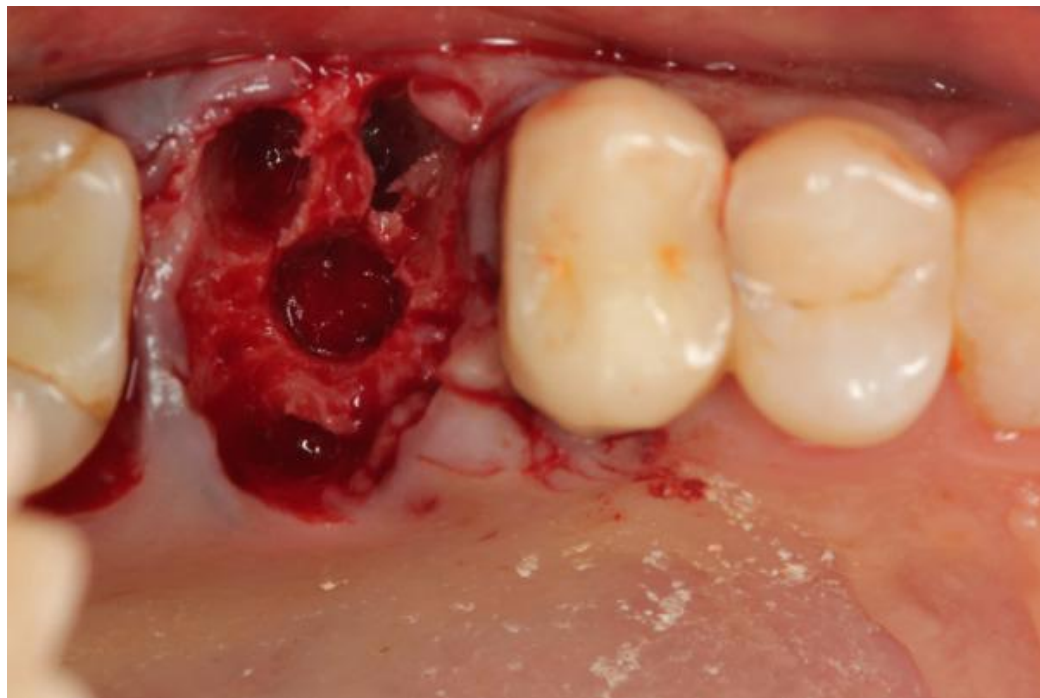
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**Periapical radiograph of the paralleling post placed in the osteotomy to determine if an angle correction is needed.**



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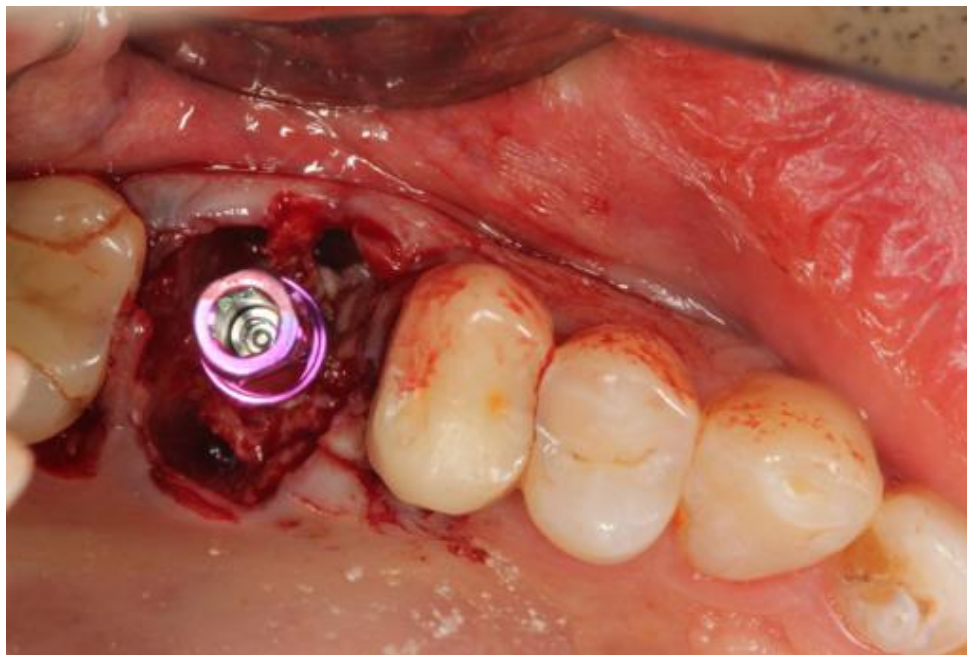


**After preparation of the implant site, a 2mm sinus elevation is performed with osteotomies and grafted with *Puros* Cancellous Particulate Allograft. The completed osteotomy is ready for implant placement.**





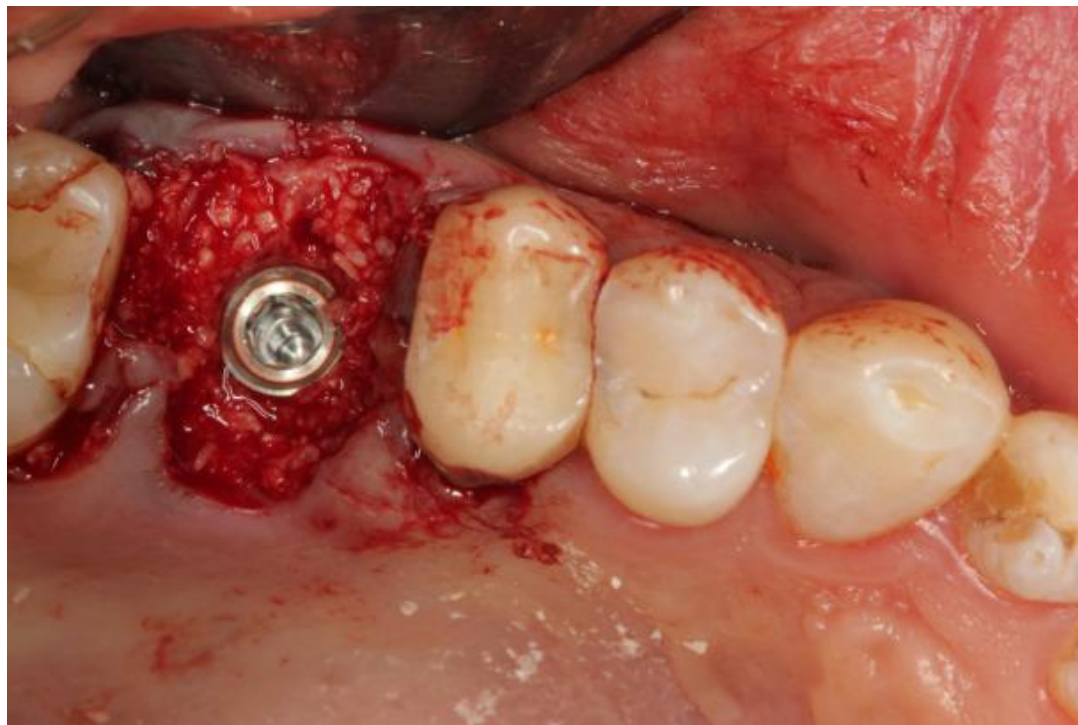
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**A Zimmer® Trabecular Metal™ Dental Implant, 4.7 mm x 10 mm, was placed in the extraction site. Its fixture mount will be replaced by a healing collar for a nonsubmerged surgical protocol.**



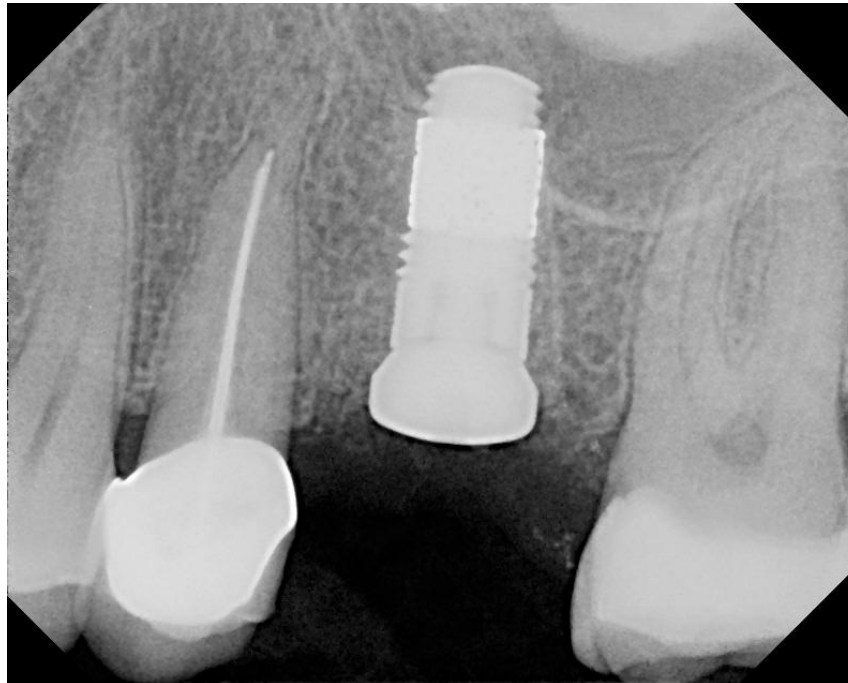
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***Puros Cancellous Particulate Allograft material is hydrated, then used to fill the remaining sockets and any additional voids around the implant. After filling, each sockets is occluded with CollaPlug® Absorbable Collage Wound Dressing.***



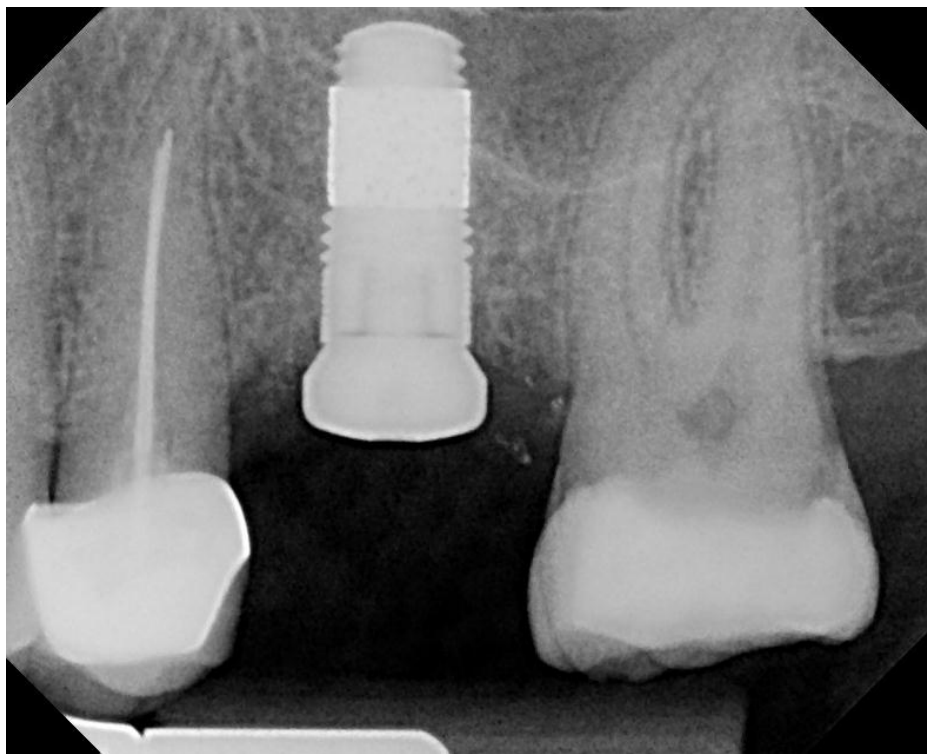
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**Periapical radiograph shows the *Zimmer® Trabecular Metal™* Dental Implant and healing collar in place.**



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**Periapical radiograph taken at two months after the *Zimmer*<sup>®</sup> *Trabecular Metal*<sup>™</sup> Dental Implant placement shows a significant degree of bone densification around the implant.**



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**Occlusal view at two months after the *Zimmer®*  
*Trabecular Metal™* Dental Implant placement**



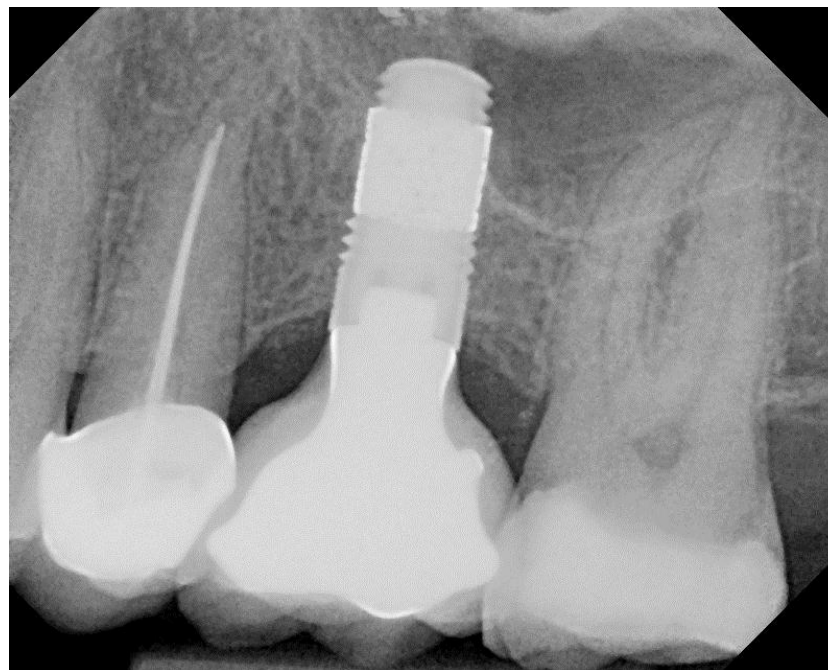
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**Final restoration at four months post implant placement.**



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**Periapical radiograph of *Trabecular Metal™ Dental* Implant with final restoration. One year post-placement with over six months of functional loading.**



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