



# Case Study

## Immediate Placement and Functional Loading of a Zimmer® Trabecular Metal™ Dental Implant in the Maxillary Esthetic Zone

Case # 2

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## Case Study Dr. Suheil Boutros



**Pre-operative buccal view shows a fractured maxillary right central incisor.**



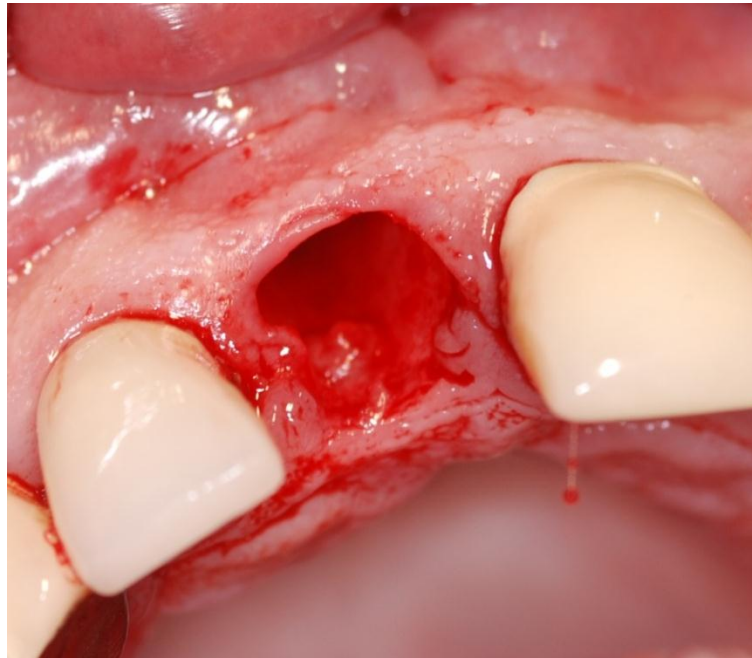
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**Pre-operative periapical radiograph shows the intact root of the fractured maxillary right central incisor.**



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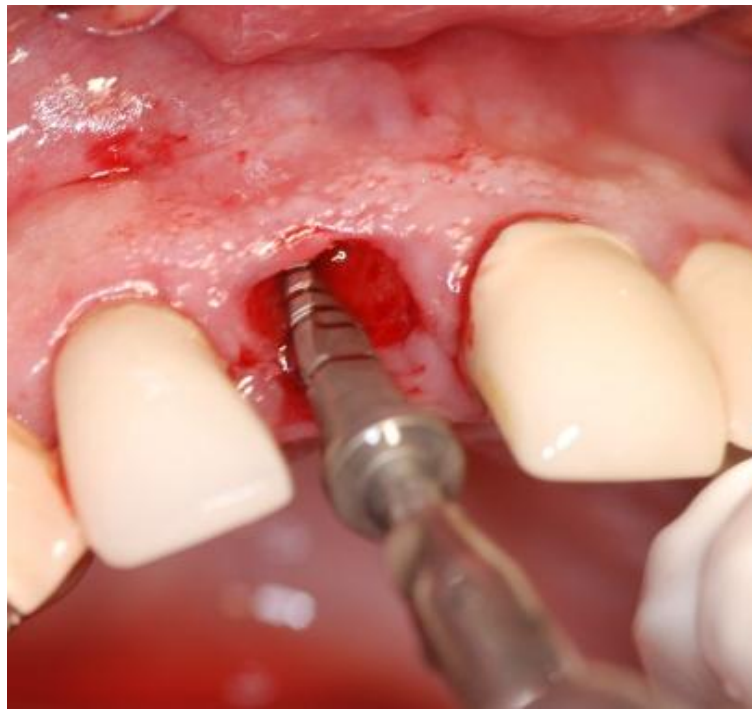


**The root tip is gently split and removed in segments to preserve the surrounding bony architecture. Prior to osteotomy preparation, the socket is debrided to remove remaining root fragments and any remaining granulation tissue.**





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**The socket is sequentially formed and enlarged to receive the implant using internally irrigated drills in graduated diameters and copious external irrigation.**



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**The *Zimmer® Trabecular Metal™* Dental Implant is delivered to the osteotomy using its fixture mount.**



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**The *Zimmer® Trabecular Metal™* Dental Implant is placed using a hex instrument in a reduction contra-angle at slow speed.**



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The **Zimmer® Trabecular Metal™** Dental Implant in place.





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**After implant placement, the fixture mount is removed from the implant, prepared as a provisional abutment, and then reattached to the implant.**



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**Circumferential voids around the top of the implant are augmented with hydrated *Puros* Cancellous Particulate Allograft. The soft tissues are mobilized and approximated for tension-free suturing.**



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**Immediate temporary restoration at the time of implant placement.**



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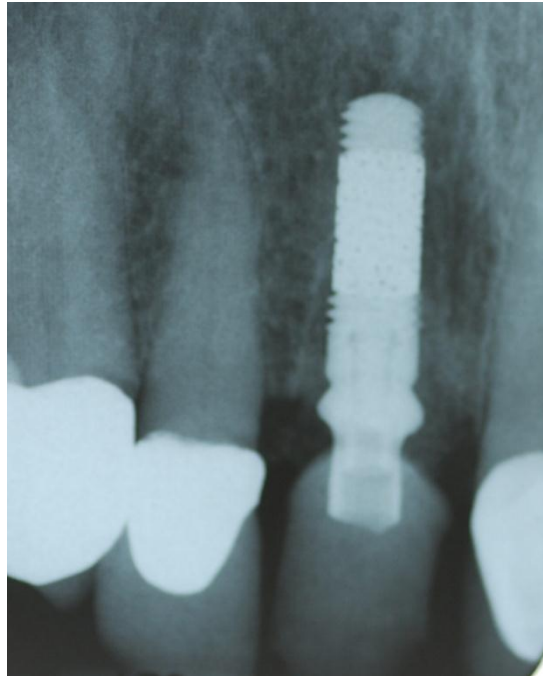


**Provisional restoration two weeks post implant placement.**





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**Post-operative periapical radiograph shows the provisional restoration in place.**



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**Final restoration ten weeks post implant placement and one week following final crown delivery.**



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**Final radiograph ten weeks post implant placement.**