GRAFTLESS GUIDED IMMEDIATE FULL MOUTH IMPLANT PLACEMENT – AN EFFORT TO REDUCE TREATMENT DURATION IN SEVERE PERIODONTITIS : A CASE REPORT

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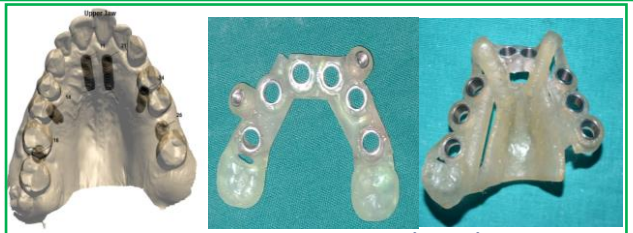
Introduction :- Oral rehabilitation for a patient with severe loss of alveolar bone and soft tissue resulting from severe periodontitis often presents a challenge to clinicians. Replacing mobile teeth with fixed prostheses supported by dental implants often requires bone grafting. The outcome of the bone grafting is sometimes unpredictable and requires longer healing time and/ or multiple surgeries

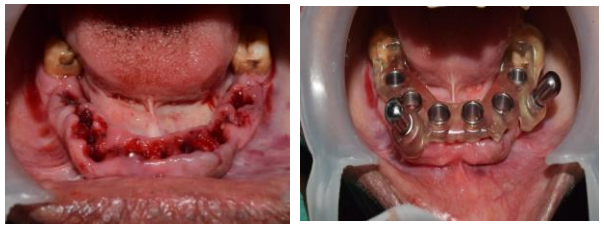
Preoperative Information and Case presentation

A 39 Year old Female patient reported with mobility of her teeth since 5 years. No relevant medical or personal history was noticed. Clinically, more than 90 percent of her teeth appeared to have grade 2 or grade 3 degree of mobility. Radiographic evaluation revealed that most of her teeth had approximately 10-20% of their alveolar bone support.



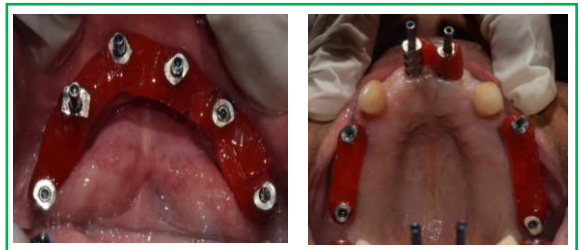
Virtual implant placement and guide planning and fabrication.

Atraumatic extraction, followed by thorough curettage of extraction socket.



Surgical guide was placed and secured using fixation pins.

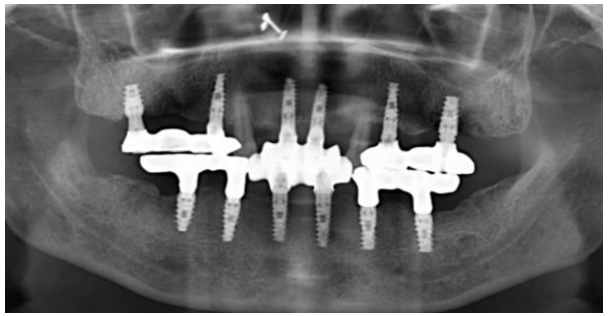
Immediate Post OP



Jig trial

Occlusal adjustment done on temporary resin trial

Try in of metal framework.



Final Prosthesis

Discussion & Conclusion :- The aim of this case report was to demonstrate a guided dental implant surgery in planning and realisation of full-mouth dental implant prosthetics. We believe that proper planning using Cone Beam Computed Tomography and guided implant surgery has in turn helped us in reducing treatment duration and improve treatment outcomes in immediate implant placement. Thus guided immediate implant placement without bone grafting may be considered as an alternative to conventional bone grafting followed by implant placement.