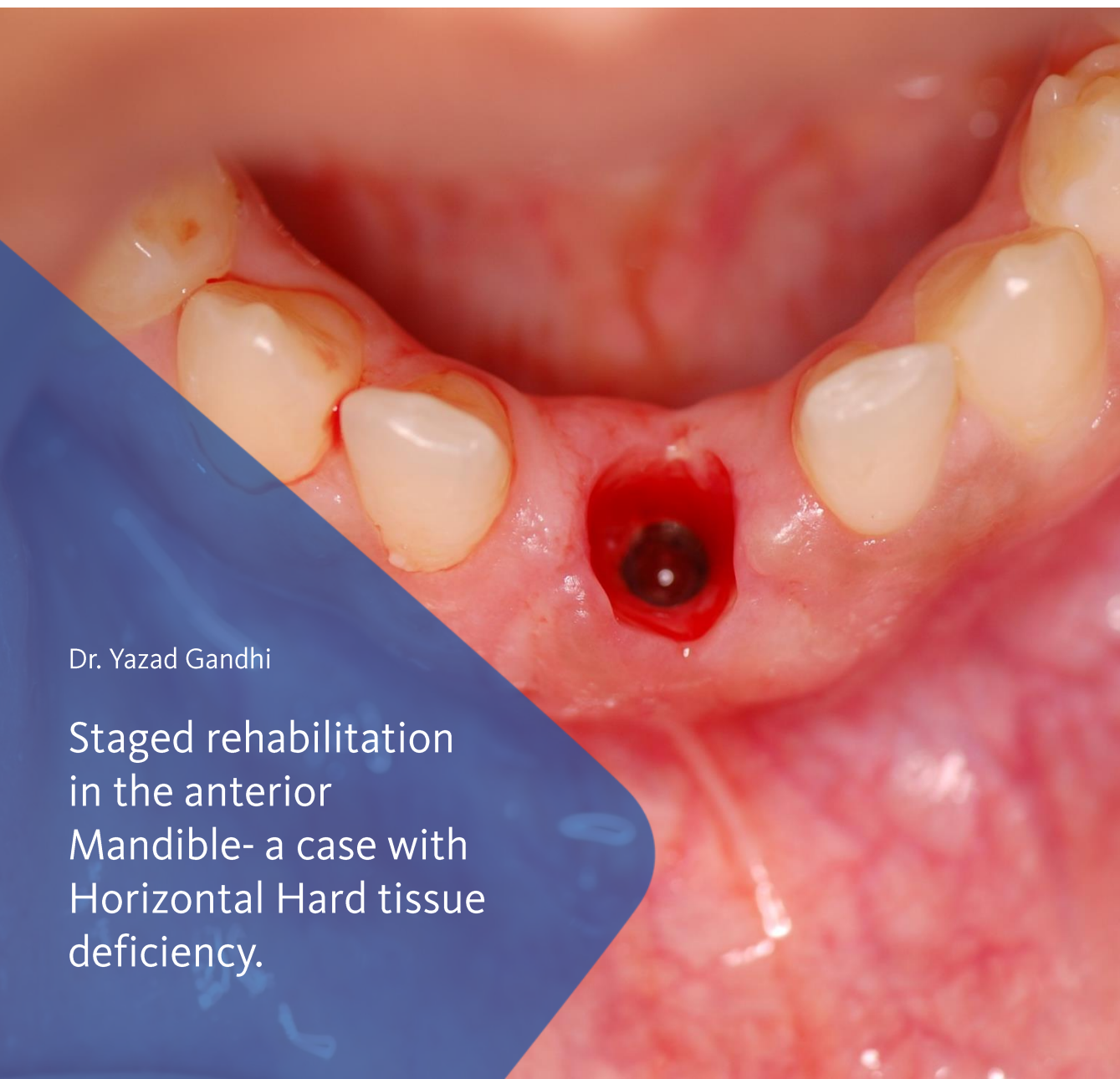


BioBrief

Minor Bone Augmentation



Dr. Yazad Gandhi

Staged rehabilitation
in the anterior
Mandible- a case with
Horizontal Hard tissue
deficiency.

The Situation

A young lady in her late twenties who had congenitally missing lower central incisors approached us for rehabilitation. The case was planned as per multidisciplinary treatment protocol because of space restraints and non-parallel roots of the mandibular lateral incisors.

Orthodontic treatment was completed following which hard tissue augmentation carried out. After 5 months a prosthetically driven implant placement was carried out, following which the soft tissue was augmented. Prosthetic phase commenced 3 months after implant placement.

The Risk Profile

Risk Factors	Low Risk	Medium Risk	High Risk
Patient's health	Intact immune system	Light smoker	Impaired immune system
Patients esthetic requirements	Low	Medium	High
Height of smile line	Low	Medium	High
Gingival biotype	Thick- "low scalloped"	Medium- "medium scalloped"	Thin- "high scalloped"
Shape of dental crowns	Rectangular		Triangular
Infection at implant site	None	Chronic	Acute
Bone height at adjacent tooth	≤ 5 mm from contact point	5.5 - 6.5 mm from contact point	≥ 7 mm from contact point
Restorative status of adjacent tooth	Intact		Restored
Width of tooth gap	1 tooth (≥ 7 mm)	1 tooth (≤ 7 mm)	2 teeth or more
Soft tissue anatomy	Intact		Compromised
Bone anatomy of the alveolar ridge	No defect	Horizontal defect	Vertical defect

"Retained root stumps of lower deciduous teeth. Radiographs showed minimal space for restoration of 2 central incisors. Plan was discussed with patient in regards to time taken to complete rehab and a staged approach that would be followed."

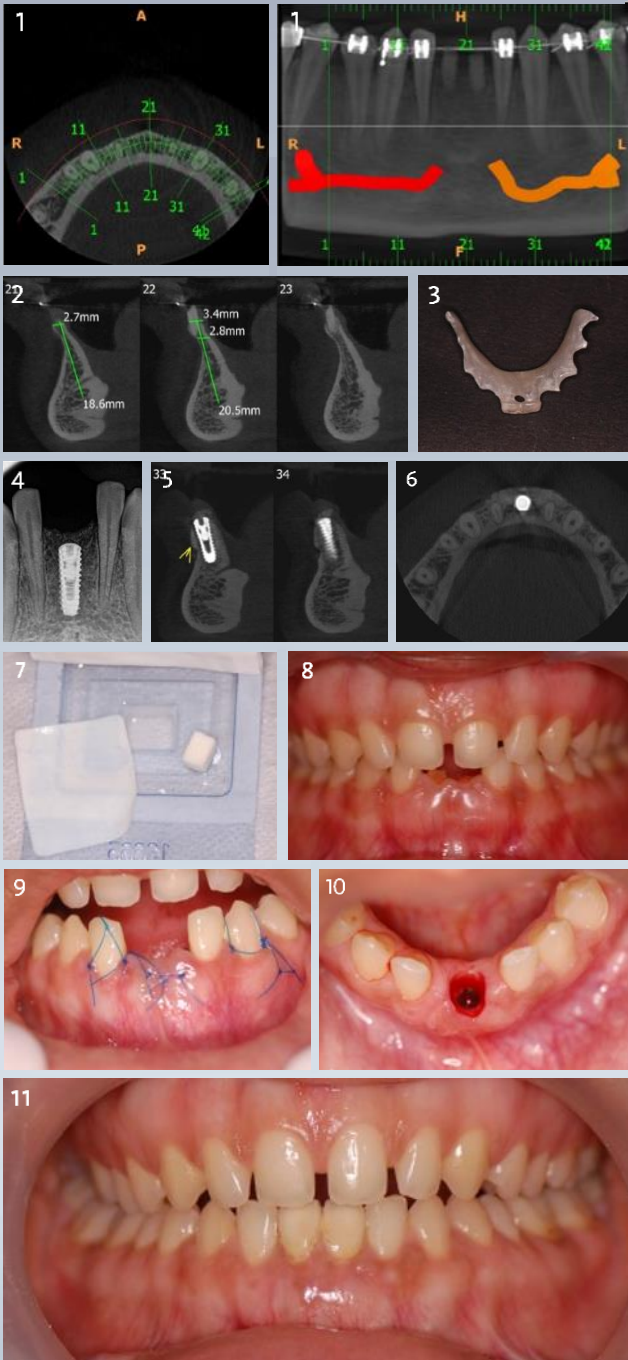
Dr. Yazad Gandhi, Mumbai Oral Surgeon

Dr. Gandhi graduated from King George's Medical College where he went on to complete his Masters in Oral & Maxillofacial Surgery. He completed his basic implant training under Prof. Wilfried Schilli, Director of Maxillofacial Surgery at the Freiberg university, Germany. Further, he trained under Prof. Karl Kahnberg, Director of the Maxillofacial department at the University of Goteborg, Sweden for Hard & Soft tissue surgery. He honed his skills for Endoscopic Sinus surgery at the Ninewells Hospital, Dundee & Blackpool teaching hospital, Manchester, UK. He has conducted numerous CDE programs and workshops related to implant surgery and prosthetics nationally and internationally.

He is the recipient of the Ginwala oration award for implant related hard tissue regeneration. He is Fellow of the International College of Dentists, ITI and is a member of EAO. He is also a registered ITI speaker.

He is the Director of Fusion Education, an organization that conducts CDE courses for dental surgeons across India.





The Approach

Goals of treatment were to provide the lady with a long lasting fixed dental solution utilizing a staged approach and a multidisciplinary plan.

The Outcome

Orthodontic treatment carried out for 1 year following which retainers were used for another 6 months. Bone augmentation using Geistlich Bio-Oss® Collagen which was sectioned and adapted to the recipient site, Geistlich Bio-Gide® barrier was fixated using periosteal sling sutures.

Implant placement was carried out after 5 months, soft tissue augmentation was performed 1 month after implant placement. Prosthetic phase commenced 3 months after implant placement.

1 1. Pre-Op scan coronal and pano view. | 2. Pre-Op scan cross sectional view. | 3. Prosthetic Stent | 4. Radiograph showing prosthetically planned placement. | 5. Post-Op scan cross sectional view. | 6 . Post-Op scan coronal view. | 7. Biomaterials used, Geistlich Bio-Oss® Collagen and Geistlich Bio-Gide® | 8. Pre-Op clinical frontal view. | 9. Post-Op clinical frontal view at 7 days. | 10. Post implant placement occlusal view showing bulk achieved. | 11. 0.02 years follow-up clinical view.



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Keys to Success

Staged approach

- ✓ Orthodontics to gain space
- ✓ Bone augmentation to provide adequate tissue for implant placement
- ✓ Envelope flaps all along to avoid vertical scars
- ✓ Soft tissue augmentation to increase keratinized tissue
- ✓ Prosthetically planned placement allowing for 2 crowns on 1 implant as a screw retained solution



Predictable approach in combination with dependable biomaterials from Geistlich resulted in a successful outcome of this complex case.

