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Featured Patient Case #1: Complete Mouth Reconstruction with Hybrid Restorations

Robert A. Levine, DDS, FCPP, FISPPS (periodontist/implant surgeon)
Harry Randel, DMD (prosthodontist)
NewTech Dental Laboratory

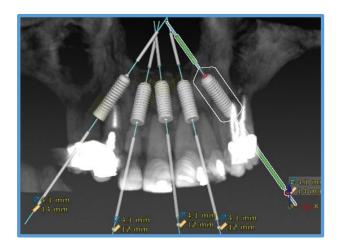


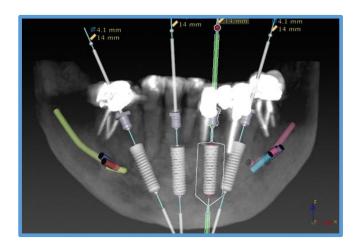




After Smile

Case Featured in the article, "Team Approach in a Full-Mouth Pro Arch Hybrid Reconstruction Using the Indirect Method for Provisionalization." Compendium of Continuing Education in Dentistry. May 2017; 5-10.





CBCT Planning

Patient Presentation/Chief Complaint:

A 65-year-old female (non-smoker) presents on a 3rd opinion with a history of medication-induced xerostomia (MIX)-resulting in generalized recurrent caries and generalized chronic advanced periodontitis with contributing parafunctional habits ("occlusal periodontitis"). Her chief complaint was a desire to improve her esthetics and comfort and she wanted a quick, permanent solution to replace her failing dentitions. Generalized heavy fremitus and 2-3 degree mobilities were noted with history of parafunctional habits and TMJ symptoms.





Before & After Anterior Retracted View

Description of Treatment and Surgery:

In one coordinated surgical visit with Dr. Levine (prosthodontist office: Dr. Randel, NewTech Dental Laboratory: Lansdale, PA, Straumann® dental implant rep):

- All remaining teeth were minimally traumatically removed after full-thickness flaps with the aid of the Piezosurgery® (Mectron).
- Significant vertical ridge height reduction completed with the Piezosurgery® saw to provide the *necessary prosthetic room for a hybrid restoration*.
- Five implants were placed in the maxillae with 4 placed in the mandible.
- Minimally traumatic Piezosurgery-assisted® removal of the mandibular tori (bilaterally).
- Abutments placed & insertion torques measured.
- Impressions of both jaws with bite registrations at the appropriate OVD.
- Delivery of a *screw-retained metal-reinforced fixed provisional prosthesis* (converted from pre-surgically fabricated FUD/FLD) *next day* with occlusal equilibration.
- Coordinated follow-up visits every two to three weeks for three months for full mouth polish and plaque control review as well as occlusal equilibration as needed. A water irrigation device was given at 4 weeks.
- PA digital x-rays taken at 3 months confirmed bone healing.
- Delivery of final screw-retained case with maxillary night guard appliance.
- Periodontal maintenance visits every 3 months with periodic FMX and/or Panorex at 3years.





Before and After Occlusal Views









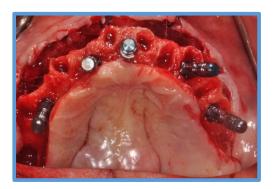
Anatomically-Correct Surgical Guide Templates

Vertical Ridge Height Reduced for the creation of adequate prosthetic room of 10-12mm

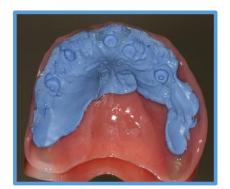




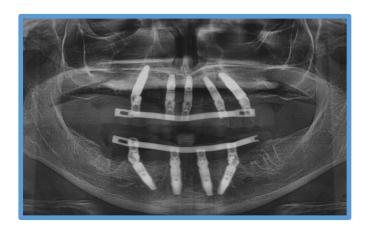
Highlight of the Maxillary Jaw: Five implants in place in good prosthetic position (positions #'s 4, 7, midline, 11 & 13); maxillary impression & bite registrations (below)







Provisional Restorations in Place at Two Days Post-Surge





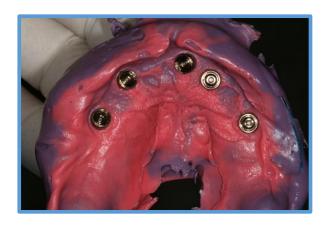
Final Soft Tissue Healing Prior to Final





Maxillary Verification Jig in Place & Picked up in the Final Impression

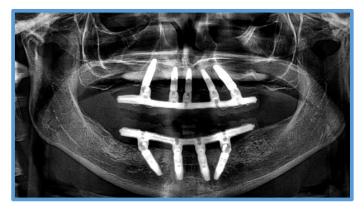




Before



Milled Titanium Bar w/Wrapped Acrylic



Description of Follow-up and Patient Long Term results and Future Prognosis:

- With history of TMJ, periodontal disease and parafunctional habits, periodontal maintenance program of **every 3 months** was recommended.
- Maxillary night guard appliance used daily
- Periodontal maintenance every 3-months; compliance has been excellent and there are no signs of peri-implant mucositis/peri-implantitis.

The Team Approach to her care was "seamless" and she was extremely pleased with her results!

2017 publication referenced for this "Case of the Month" with its corresponding four-page prosthetic work-sheet detailing all prosthetic steps for the "Indirect Technique for Provisionalization" are available upon request from Rlevine@padentalimplants.com.

