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Clinical Case Step-By-Step

Figure 1

Figure 2

Figure 3 Before.

Figure 4 After.

Figure 5 Before.

Figure 6 After.
Consultation With Restorative Doctor

Restorative dentist determines this patient is an excellent candidate for a total all-on-4 implant case; and initiates a referral to the implant surgeon.

Referral to the implant surgeon for CT Scan and consultation.
Surgical Steps
Step 1: Consultation With The Implant Surgeon

Consultation consists of:

- Obtaining medical/dental history
- Cone Beam CT Scan
- Facial and intraoral photography
- Implant treatment planning
- Scheduling a surgery date
- Selection of temporary prostheses with the referring doctor
Step 2: Obtaining Cone Beam CT Scan

Figure 1. Right 3D view.  
Figure 2. Frontal 3D view.  
Figure 3. Left 3D view.  

Figure 4. CT true panoramic view; all tomography cuts will be generated from here.
**Step 3: Clinical Exam & Photographs**

*Figure 3.1* Frontal view without a smile.

*Figure 3.2* Right lateral view without a smile.

*Figure 3.3* Frontal view with a smile.

*Figure 3.4* Right lateral view with a smile.

*Figure 3.5* Close-up smile view to evaluate the transition line.

*Figure 3.6* Intraoral view access of maxillary bone.

*Figure 3.7* Intraoral view of the maxilla.

*Figure 3.8* Intraoral view of the mandible.

Patient’s case is being documented with photographs.
Step 4: Treatment Plan & Case Presentation

Case presentation and treatment plan acceptance by patient.
Surgery Date

Patient instructions:

- No food or drinks eight hours prior to surgery.
- Take all blood pressure medications the morning of surgery, with a little sip of water.
- Post surgery – patient must schedule a reliable escort to take them home.
Step 5: Extractions & Implants
Extractions with alveoloplasty and immediate implants.

Figure 5.1

Figure 5.2

Figure 5.3

Figure 5.4 Five implants in maxilla.

Figure 5.5 Four implants in mandible.

5.6 Suturing and comfort cap placement.
Distal implants are angled to bring restorative platform of the implant as far posterior as possible avoiding the sinuses and increasing anterior-posterior spread. 30° abutments are placed on the distal implants and 0° abutments are placed on the anterior implants. All abutments are appropriately torqued.
Step 6: Temporary Dentures Conversion
Into Temporary Bridge

Clinical photographs taken three weeks after surgery. In most cases, denture conversion into temporary fixed prosthesis is performed on the same day as surgery. This patient elected to do conversion three weeks after the initial surgery.
Temporary Dentures Conversion Continued

Figure 6.6

Figure 6.7

Figure 6.8

Figure 6.9

Figure 6.10 Blu-Mousse®.

Figure 6.11

Figure 6.12

Figure 6.13 Temporary copings attached.

Figure 6.14 Occlusal view.

Figure 6.15 Intaglio surface.

Figure 6.16 Occlusal view.

Figure 6.17 Intaglio surface.
Temporary Dentures Conversion Continued

Figure 6.18 Frontal view.  
Figure 6.19 Right lateral view.

Figure 6.20 Panoramic X-Ray of immediate implants.

Figure 6.21 Left lateral view.  
Figure 6.23 Right lateral view.  
Figure 6.22 Frontal view.
Step 7: Final Visit With A Surgeon
Abutments torquing, final x-rays, soft tissue re-contouring if needed.

Six Months Later
Patient Goes Back To The Referring Dentist
Step 1: Consultation and Selection of Prosthetic Options

Six months later patient comes back to her dentist to discuss restorative options. These includes, but are not limited to: titanium bar with high grade acrylic teeth; titanium bar with porcelain teeth; or zirconia milled bar with porcelain teeth.
Step 2: Final Impressions

Taking impressions for individual custom tray or converting stock tray.

Reinforcing the tray with orthodontic acryl.

Placing open tray non-engaging impression copings.
Final Impressions Continued

Final impressions

Figure 2.12

Lab.
Step 3: Impressions Verification Gig
Placing open tray: non-engaging impression copings.

Figure 3.1 Mandible verification gig.

Figure 3.2 Maxillary verification gig.

Figure 3.3

Figure 3.4 Perfect fit of verification gig verified with the X-Ray.

Sending verification gig to the lab.
**Step 4: Screw Retained Wax Rim Stage**

*Figure 4.1 Figure 4.2 Figure 4.3 Figure 4.4*

*Figure 4.5 Rest position*  
*Figure 4.6 Smile*

*Figure 4.7*

*Figure 4.8 Midlines; smile line.*  
*Figure 4.9 Anterior tooth position.*
Step 5: Teeth Try-In

Figure 5.1  Figure 5.2  Figure 5.3

Figure 5.4  Figure 5.6

Figure 5.5
Teeth Try-In Continued

Figure 5.7 Lips together.

Figure 5.8 Lips relaxed.

Figure 5.9 Smile.

Figure 5.10 Checking midlines and occlusal cant.
Step 6: Titanium Milled Bar Construction

Titanium bar is designed based on final position of teeth.

Step 7: Milled Bar & Wax Teeth Try-In

This step was skipped in this clinical case and hybrid prostheses were processed to the final stage.
Step 8: Final Prostheses Delivery
Dental laboratory delivered high quality hybrid prosthesis.
Final Prostheses Delivery
Final Prostheses Delivery