## **Guide To Immediate Implants & Teeth**

Alexander V. Antipov, D.D.S. Oral and Maxillofacial Surgeon Private Practice, Roseville, CA



### **Table of Contents:**

•	Aknowledgments	4
•	Clinical Case Step-By-Step	5
•	Consultation With Restorative Doctor	6
Surgi	ical Steps	
•	Step 1: Consultation With The Implant Surgeon	8
•	Step 2: Obtaining Cone Beam CT Scan	9
•	Step 3: Clinical Exam & Photographs	10
•	Step 4: Treatment Plan & Case Presentation	11
•	Step 5: Extractions & Implants	13
•	Step 6: Temporary Dentures Conversion	15
•	Step 7: Final Visit With A Surgeon	18
Prost	hetic Steps	
•	Step 1: Consultation and Selection of Prosthetic Options	20
•	Step 2: Final Impressions	21
•	Step 3: Impressions Verification Gig	23
•	Step 4: Screw Retained Wax Rim Stage	24
•	Step 5: Teeth Try In	25
•	Step 6: Titanium Milled Bar Construction	27
•	Step 7: Milled Bar & Wax Teeth Try In	27
•	Step 8: Final Prosthesis Delivery	28

### **Acknowledgments**

I would like to sincerely thank Doctor Lurie for providing photographs of restorative steps. We all know how difficult it is to document the case in greater detail.

I also want to thank Laguna Dental Arts Laboratory for their hard work and for the idea of creating this guide in the first place. They spent countless hours with my restorative colleagues, manufacturing state-of-the-art prosthetic cases.

## **Clinical Case Step-By-Step**

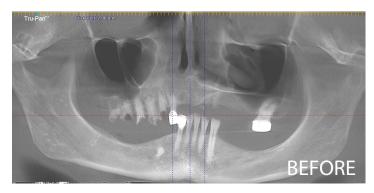




Figure 1 Figure 2





Figure 3 Before.

Figure 4 After.





Figure 5 Before.

Figure 6 After.

### **Consultation With Restorative Doctor**



Restorative dentist determines this patient is an exellent 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.



### **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**





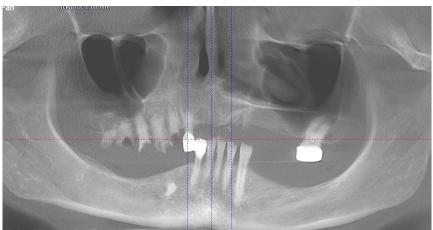


Figure 1. Right 3D view.

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**

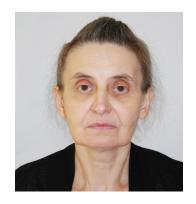


Figure 3.1 Frontal view without a smile.



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



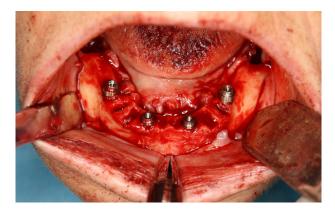
Figure 5.2



Figure 5.3



Figure 5.4 Five implants in maxilla.



*Figure 5.5* Four implants in mandible.



5.6 Suturing and comfort cap placement.

## **Extractions and Implants Continued**



Figure 5.7 30° degree multi-unit abutment

Figure 5.8 0° 2mm multi-unit abutment

Figure 5.9 Torque wrench.

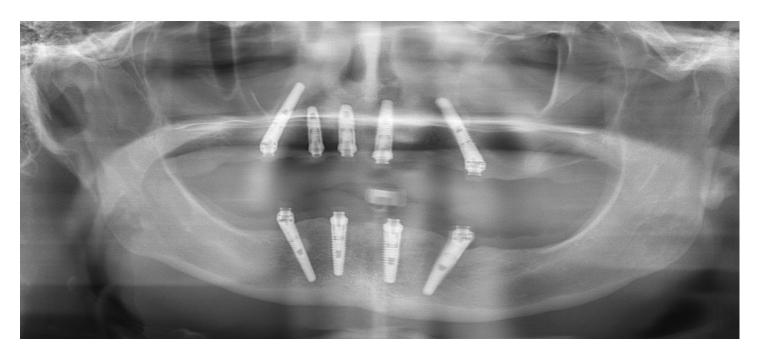


Figure 5.10 Distal implants are angled to bring restorative platform of the implant as far posterior as possible avoiding the sinuses and increasing anterior-posterior spread. 30° abutments are placed on the distal implants and 0° abutments are placed on the anterior implants. All abutments are appropriately torqued.

### **Step 6: Temporary Dentures Conversion**

Into Temporary Bridge





Figure 6.1 Frontal view.

Figure 6.2 Right view.



Figure 6.3 Left view.







Figure 6.5 Mandibular occlusal view.

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**

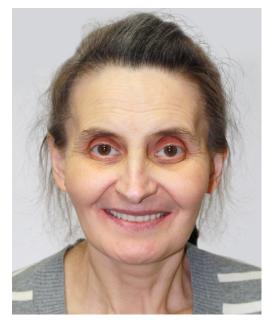


Figure 6.18 Frontal view.

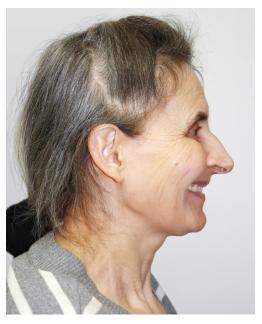


Figure 6.19 Right lateral view.

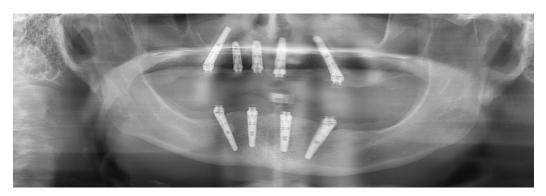


Figure 6.20 Panoramic X-Ray of immediate implants.



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.







Figure 7.2 Intraoral maxillary view.



Figure 7.3 Intraoral mandible view.



Figure 7.4 Soft tissue laser.

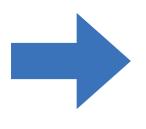


Figure 7.7 Post laser gingivoplasty.

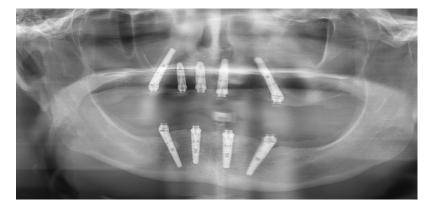


Figure 7.5 Final X-Ray.

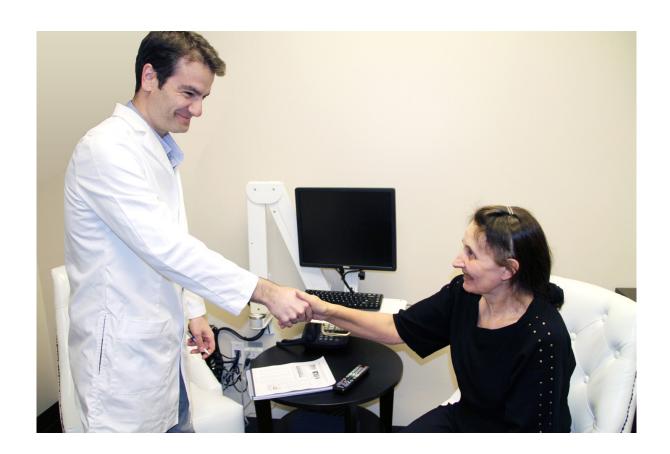


Figure 7.6 Torque all implant abutments.

Six months post surgery: removal of temporary prosthesis and torquing all multi-unit abutments. Gingivoplasty with laser or radio wave surgery. Surgeon refers the patient back to the restorative doctor for final prosthesis.

# 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.





Figure 2.2

Reinforcing the tray with orthodontic acryl.





Figure 2.4

#### Placing open tray non-engaging impression copings.



Figure 2.3







Figure 2.5

Figure 2.1

Figure 2.6 Dental floss.

2.7 Occlusal maxillary view. 2.8 Occlusal mandibular view.







2.10 All impression copings.



Figure 2.11 Impressions.

## **Final Impressions Continued**

Final impressions



Figure 2.12

### **Step 3: Impressions Verification Gig**

Placing open tray: non-engaging impression copings.



Figure 3.1 Mandible verification gig.



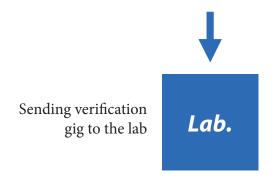
Figure 3.2 Maxillary verification gig.



Figure 3.3



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



## **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



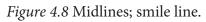




Figure 4.9 Anterior tooth position.

# **Step 5: Teeth Try-In**







Figure 5.1 Figure 5.2 Figure 5.3

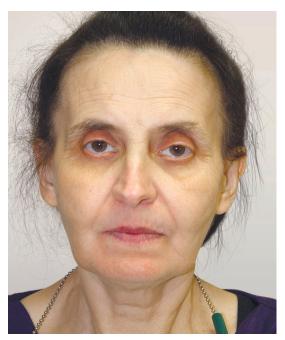




Figure 5.4 Figure 5.6



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.



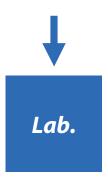


## **Step 6: Titanium Milled Bar Construction**

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.



Figure 8.1 Occlusal view of the maxillary arch.



Figure 8.2 Intaglio surface of the maxillary arch.



Figure 8.2 High grade teeth.



Figure 8.5 Lingual view.



8.3 Occlusal view of the mandibular arch.



8.6 Intaglio surface of the mandibular arch.

# **Final Prostheses Delivery**











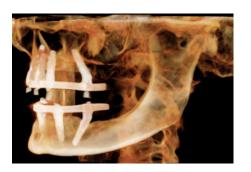




## **Final Prostheses Delivery**















### Notes



Alexander V. Antipov, D.D.S. Board Certified Oral and Maxillofacial Surgeon

www.drantipov.com

911 Reserve Dr. Ste 150 Roseville, CA 95678

Office: 916-783-2110 Fax: 916-783-2111