

This Presentation Is Trademarked by Lawrence H. Zager, D.D.S.

- ▣ The next presentation is from the private collection of patient's treated in my practice with the use of implants and other prosthetic devices to improve the quality of their life.
- ▣ They have agreed to share their personal needs and treatments for the education of others who are in a similar situation.
- ▣ Your dentist or health care provider have been given this presentation to help explain and demonstrate how your quality of life may be improved under her or his care.

Lawrence H. Zager, D.D.S.

Oral & Maxillofacial Surgery

Creating Smiles, Changing Faces &
Saving Lives



Factors Preventing The Use Of Implants

- ❑ Allergy: (Metallic oxides on implants or titanium that cause rejection, bone loss around implants that may require the use of ceramic implants)
- ❑ Chemotherapy: (Unable to place implants susceptible to infection, low immunity)
- ❑ Diabetes-Uncontrolled: (Good Range A1C 5.8-6.8 higher levels can prevent bone formation, integration and gingival attachment to implants)
- ❑ Immunotherapy: (Active therapy will affect implant Osseo-integration and soft tissue-gingival healing)

Factors Preventing The Use Of Implants

- ▣ Nutritional Deficiencies: (Low Vitamin D or High LDL Cholesterol can inhibit bone formation or density and lead to failure of implants to integrate)
- ▣ Radiation: (Decreased saliva, burning mouth, blood flow, rampant caries or decay around teeth, hyperbaric oxygen may be needed)
- ▣ Smoking: (Decreased vascularity to bone and soft tissue grafts that cause poor Bone Density/Sinus Infections)
- ▣ Steroids: (Systemic or Oral Asthmatic inhalers can lead to softer bone, breakdown around gums, teeth and implants)

Factors Preventing The Use Of Implants

- Oral & I.V. Bisphosphonate Therapy: (Actonel, Fosamax, Boniva, Reclast, Zometia, Aredia are drugs used for osteopenia/porosis and metastatic carcinomas. They can lead to breakdown and infection around teeth, extraction sockets, implants and jawbone.)
- Sinusitis: (Inability to add bone for future implants in premolar-molar areas due to chronic infection)
- Availability of Bone in Maxilla and Mandible: (No bone or soft bone prevents the placement of implants)
- Proximity to Nerves, Blood Vessels and other Tooth Roots: (Could lead to loss of feeling to lip, chin and tongue as well as root canal therapy of other teeth)

Successful Maxillary Implants For Over 10 Years Developed Metastatic Breast Cancer



Intravenous Chemotherapy Affected The Loss Of The Implants

Vitamin D And LDL Cholesterol Values Matter

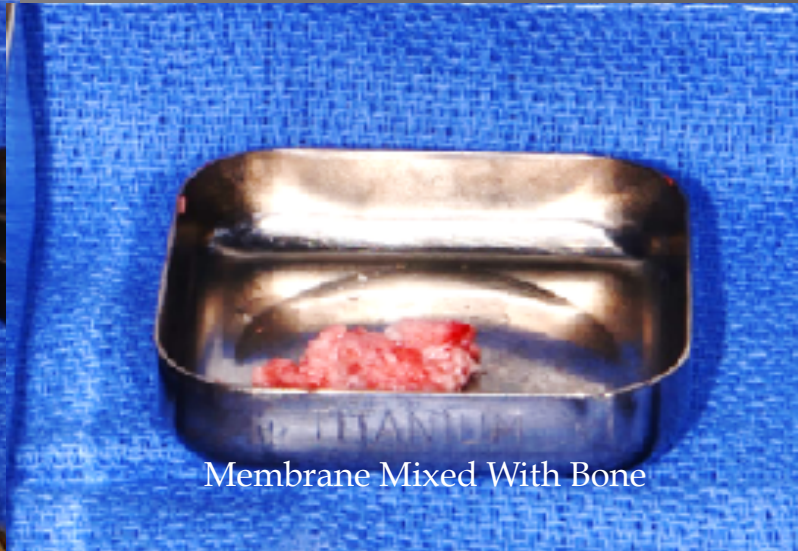
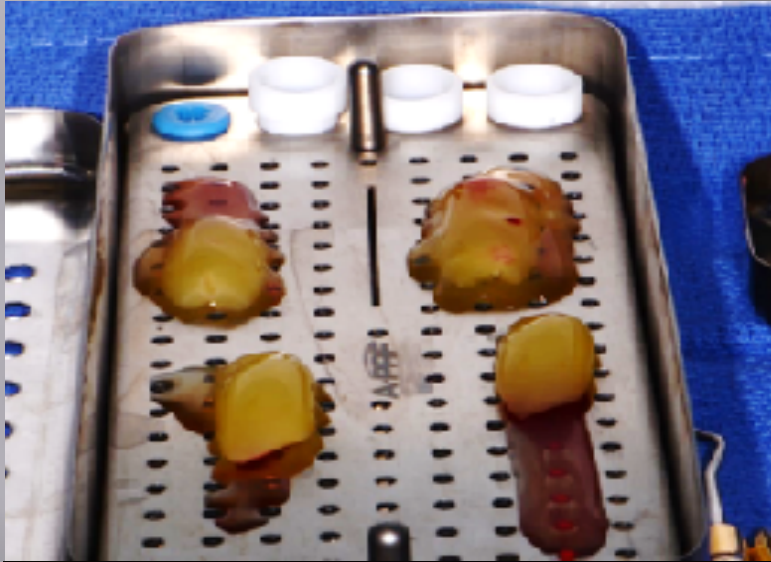
Nutritional Factors Preventing The Use of Implants

VITAMIN D LEVELS 25 HYDROXY D			
Deficient	Optimal	Treat Cancer and Heart Disease	Excess
< 50 ng/ml	50-70 ng/ml	70-100 ng/ml	> 100 ng/ml
Multiply ng/ml by 2.5 to convert to nmol/litre			

What is considered high LDL?

LDL cholesterol levels should be less than 100 mg/dL. Levels of 100 to 129 mg/dL are acceptable for people with no health issues but may be of more concern for those with heart disease or heart disease risk factors. A reading of 130 to 159 mg/dL is borderline **high** and 160 to 189 mg/dL is **high**. Feb 20, 2017

Stem Cells From Pt's Blood Being Used To Regenerate Bone



Membrane Mixed With Bone



Membrane From Pts Blood



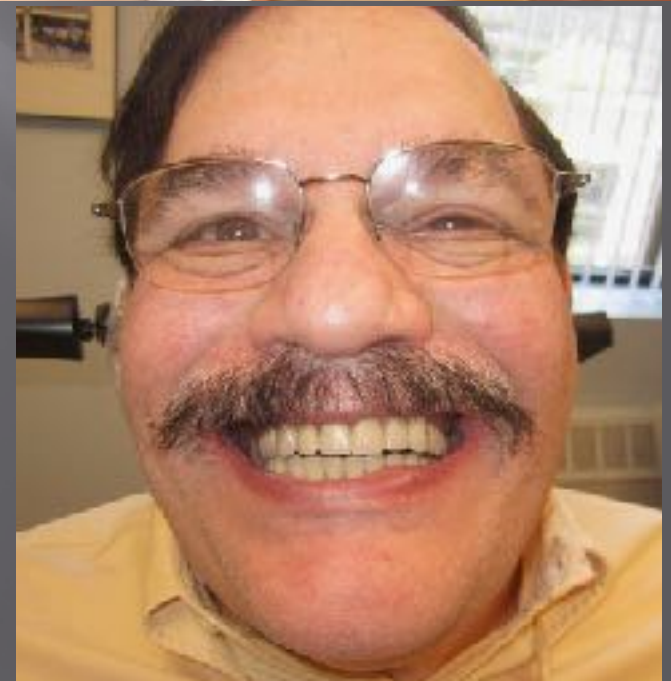
Pts. Own Blood

Implants For All Ages



93-Year-Old Lady, First Implant At 75 Years Of Age

Full Dentures



Most Inexpensive Dental Device To Replace Missing Teeth.
Covers the roof of the mouth affecting speech, taste of food and held in by saliva or denture adhesive. Will need replacement with jawbone shrinkage, wearing of teeth or breakage.
It has the chewing efficiency of 10-15% of natural teeth!

Partial Dentures and Implants



Implants By Arrows



More Stability
Sometimes Clasps
May Not Be Needed
(Great When Smiling)
30-40% Chewing
Efficiency



Implants Snap
Into Underside
of Partial
Denture

Partial Dentures and Implants



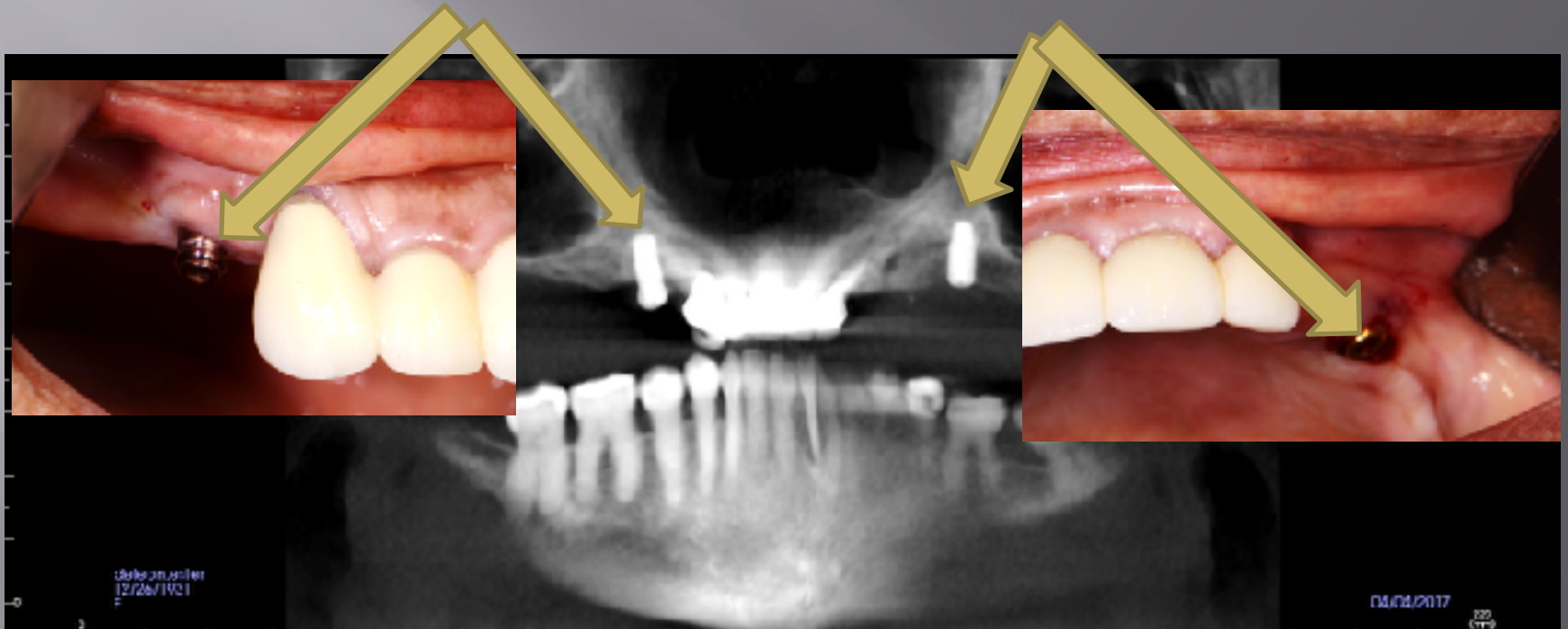
Snaps & Locks Over Implant



Partial Dentures & Implants



Two Implants To Attach Each Back End Of The Partial Denture



89-Year-Old Lady

The Upper Partial Denture Going Into Place



89-year-old lady

Maxillary Overdenture Since 2002



Maxillary Overdenture



Need At Least Four
Implants To Eliminate
Full Coverage Of
Palate

Enlarged Maxillary
Sinus May Not Allow
Implant Placement
For Back Implants

Can Eliminate Use Of
Denture Adhesive

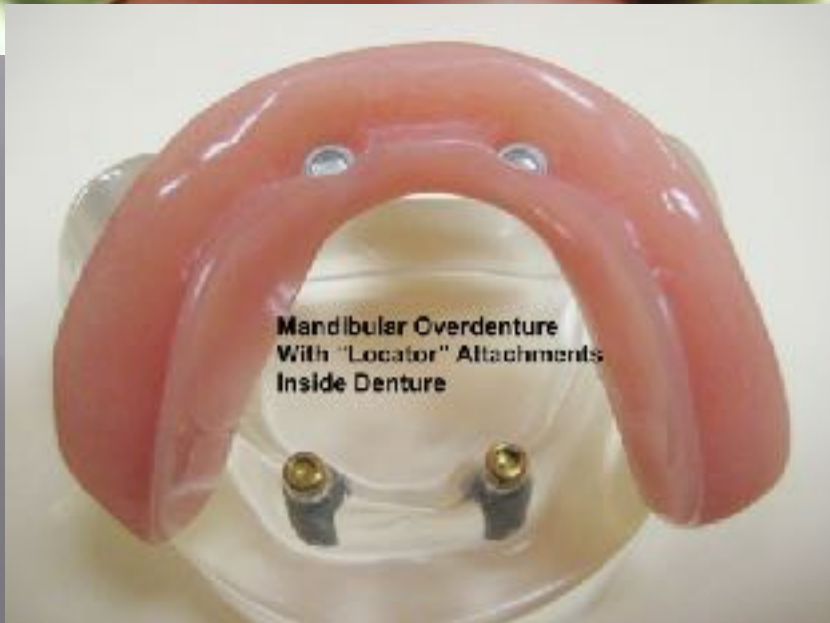
50-60% Chewing Efficiency



Mandibular Overdenture



Mandibular Full Denture



Need At Least Two Implants
In Lower Jaw To Restrict
Tongue Protrusion Of
Denture

30-40% Chewing Efficiency

81-Year-Old Lady

10-Year Post-Op (Trt. 2005)



30-40% Chewing Efficiency



Marius Bridge



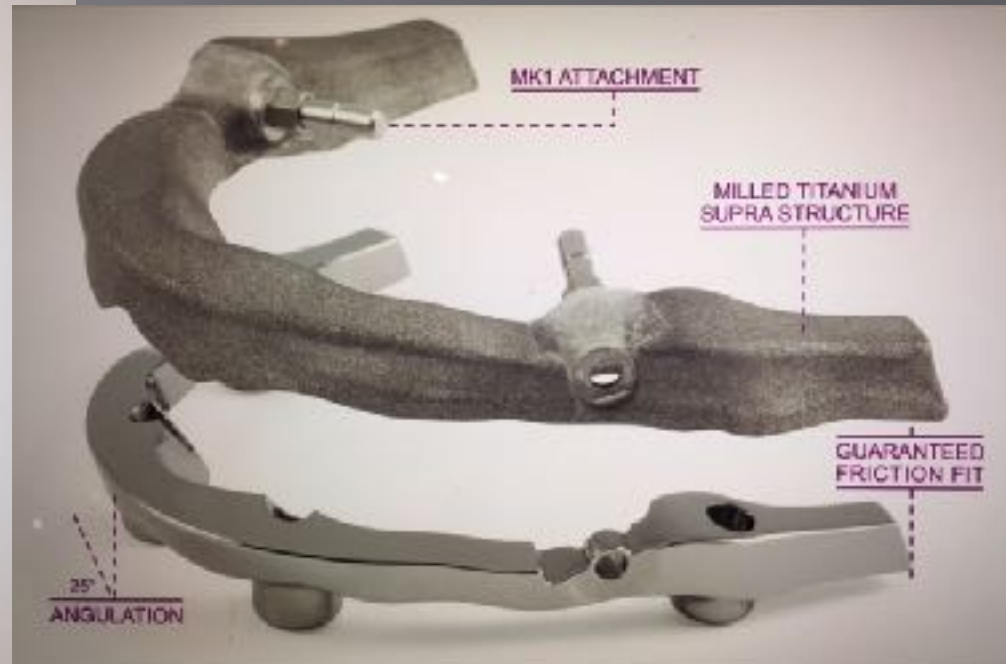
Removable For Hygiene-
Locks In And Out
Successful With Smokers
Expensive Lab Construction

90% Chewing Efficiency

Custom Attachments



RE Bourke™



All-On-Four

(Clear Choice/Eon Solutions)



Avoids Sinuses, Nerves & Bone Grafting
You Do Remove Alveolar Bone
(Need Two Prosthesis)

Maxillary All-On-Four



70-80% Chewing Efficiency

Maxillary All-On-Four Fixed Hybrid Denture



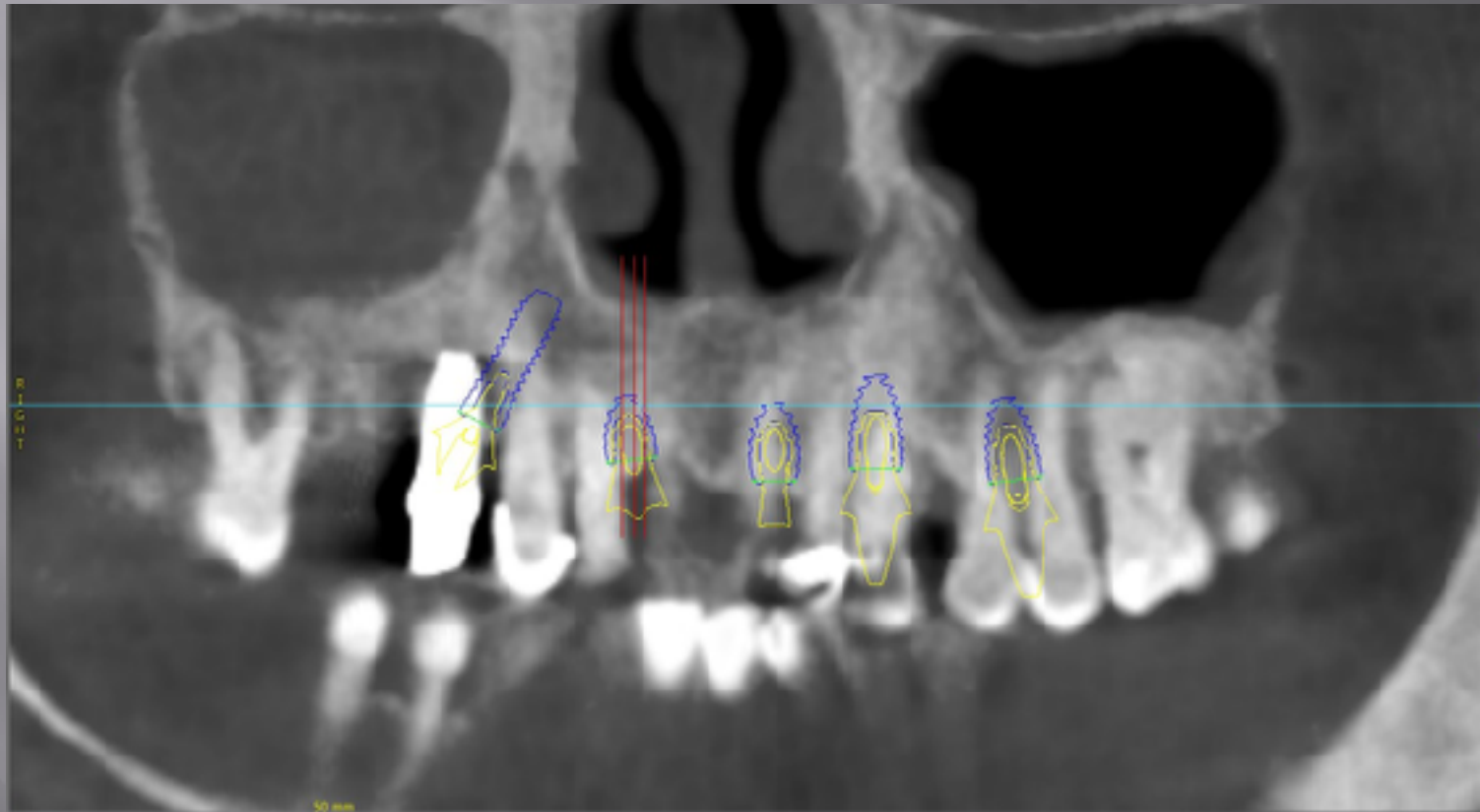
70-80% Chewing Efficiency

Mandibular All-On-Four

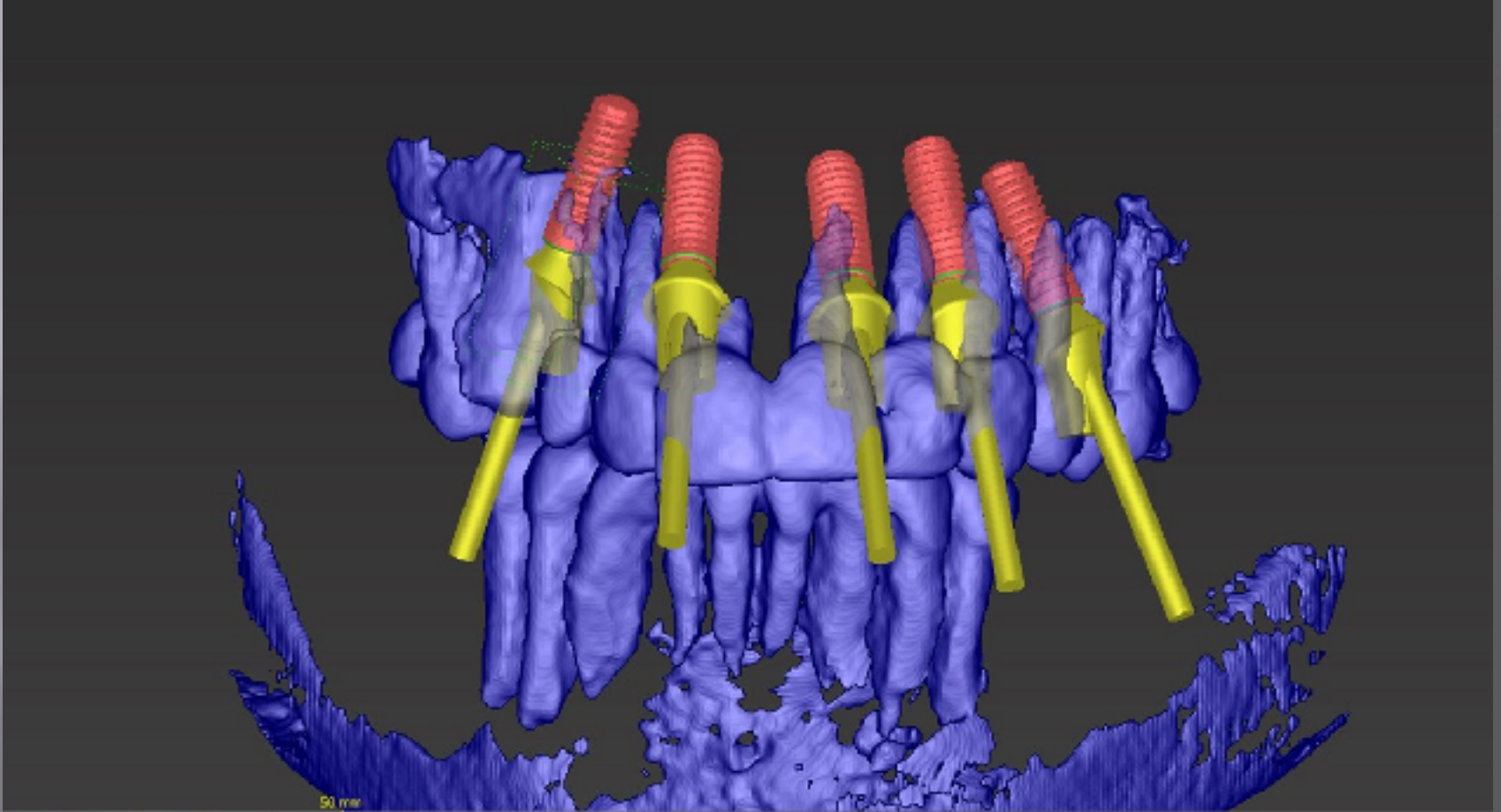


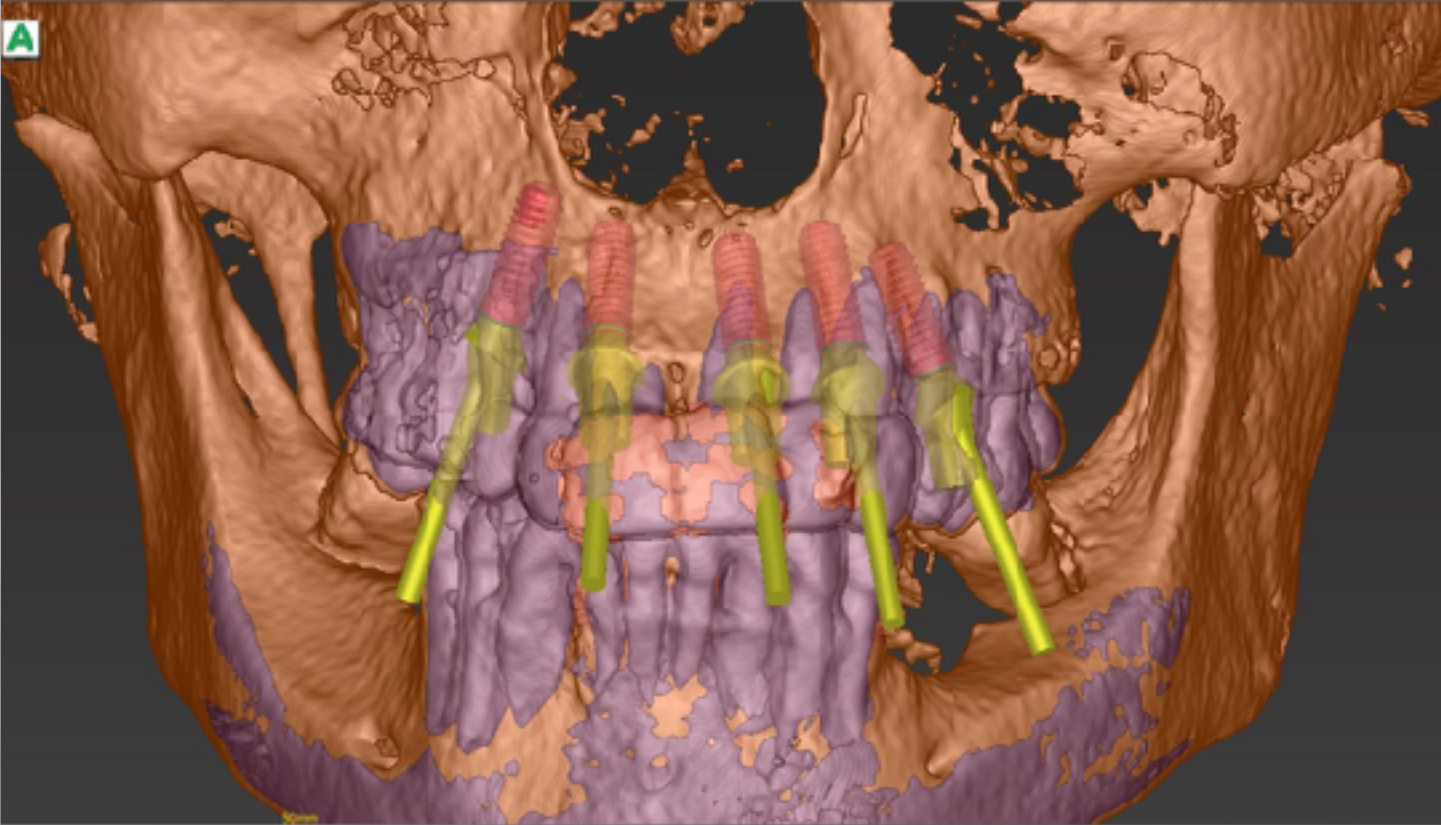
75-80% Chewing Efficiency

Maxillary & Mandibular Teeth Abscessed, Decayed and Non-Restorable



Extractions With Surgical Computer Guided Implants





Maxillary Prosthesis Inserted Into The Implants



Fixed (Non-Removable) Hybrid Denture or Prosthesis



Five Or Six Implants With A 80-90% Chewing
Efficiency of Natural Teeth

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Any Questions?

Thank You!



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Implants For All Ages

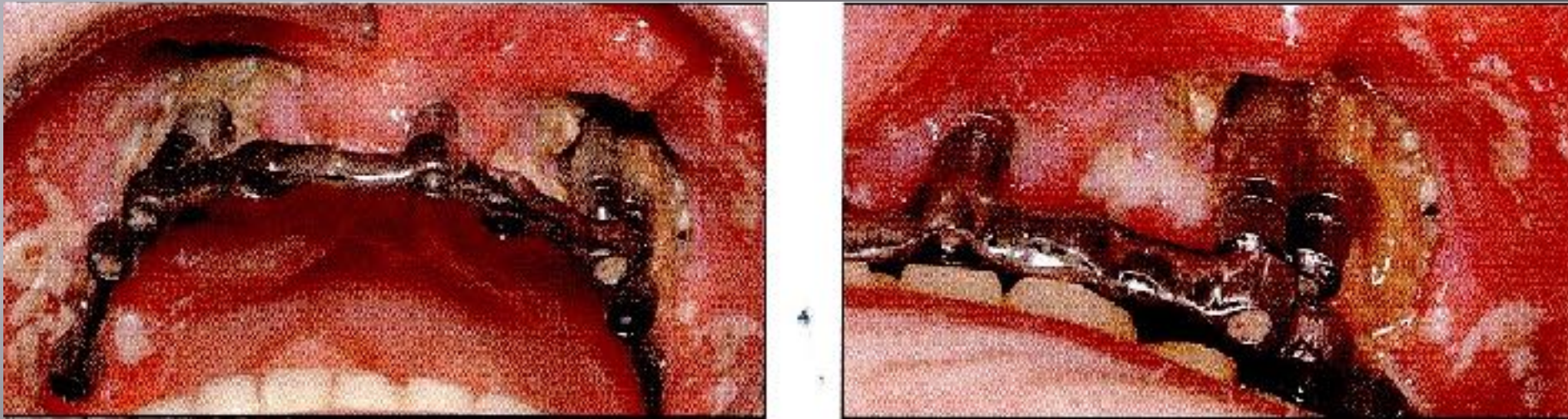


Attachments to the Roots of Natural Teeth

40% Chewing Efficiency

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or soft bone prevents the placement of implants)

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Fixed Hybrid Denture Or Prosthesis



Five or Six Implants With Chewing
Efficiency of 80-90%

Fixed Hybrid Denture Or Prosthesis



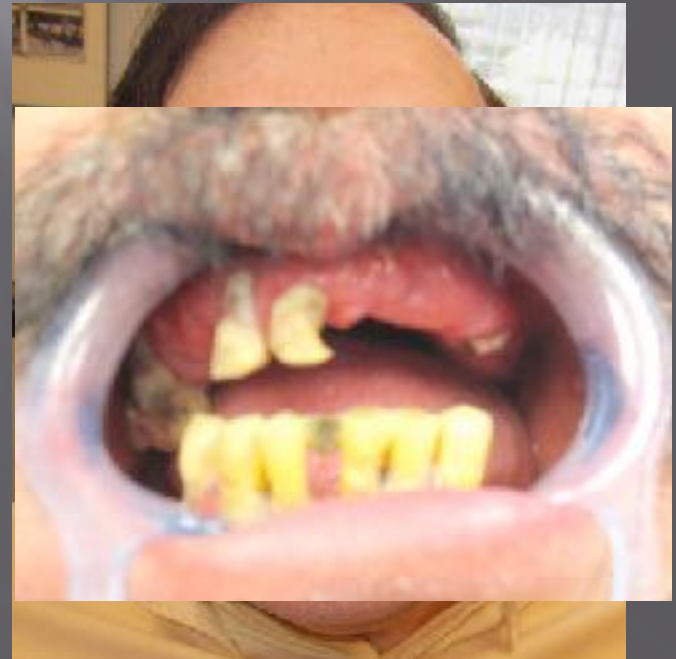
Five or Six Implants With Chewing
Efficiency of 80-90%

Maxillary Overdenture

2002

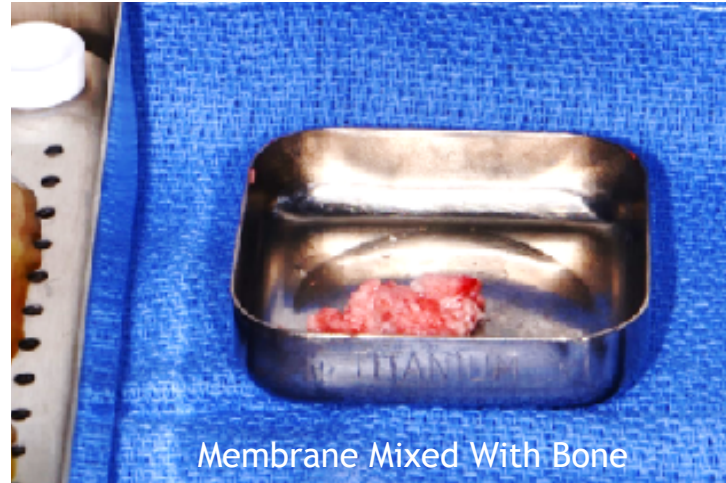
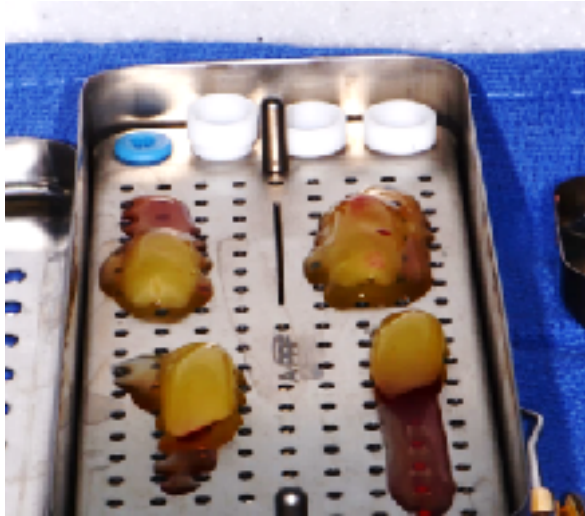


Full Dentures



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Stem Cells From Pt's Blood



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