

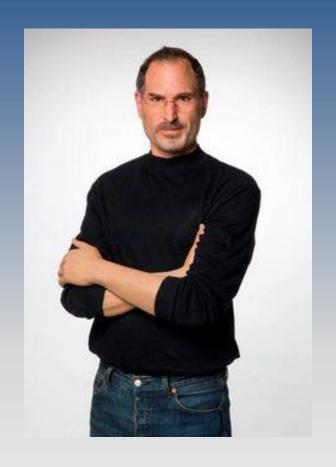
The Alternative Denture



August 26, 2017

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- DDS University of Illinois College of Dentistry
- Oral Surgery Residency Long Island Jewish Medical Center
- Board Certified Oral and Maxillofacial Surgery
- Private Practice in Oral and Maxillofacial Surgery
- VP Dental utilization review firm
- President and CEO, Larell Surgical Consultants
- Developer and Founder, The Larell One Step Denture



Think Different

....Steve Jobs

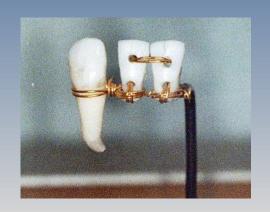
Discussion Points

- Introduction
- Current Denture Market
- Scientific background
- The Larell One Step Denture
- Case Studies
- Incorporating One Hour Dentures into your practice

Google

Dentures = 19,400,000* results

The History of Dentures













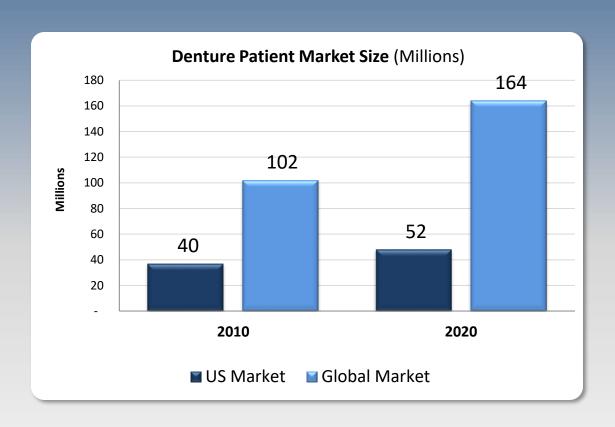
Denture Usage

- √ 37-40 Million edentulous currently in the US
- ✓ Only 90% of the edentulous wear dentures
- ✓ The percentage decline in edentulism will be more than offset by the 79% increase in the adult population over 55.
- ✓ Dentists will find a sizeable minority of the patient population will continue to need complete denture services.

Will there be a need for complete dentures in the United States in 2020?

Douglass CW Shih A Ostry L J Prosthetic Dentistry 2002 Jan;87(1):5-8

Denture Demographics



Scientific Principles of Complete Dentures

Felton DA Texas Dental Journal Apr 2010

...complete edentulism... continues to represent a tremendous global health care burden, and will for the foreseeable future.

Standard of Care - The Larell Denture

- Adherence to Scientific Principles and classic prosthodontic literature
- Professionally accepted materials
- Patient satisfaction results
 - ✓ Fit
 - √ Form
 - ✓ Function

Standard of Care – The Larell Denture

- Adherence to Scientific Principles and classic prosthodontic literature
- Professionally accepted materials
- Patient satisfaction results
 - ✓ Fit
 - ✓ Form
 - ✓ Function
 - ✓ Meet Patient's expectations

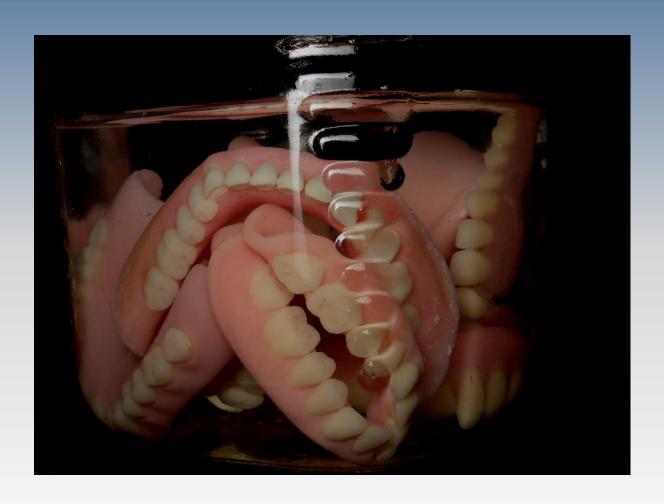
It isn't all about the occlusion

Expectations and Final Evaluation of complete dentures by patients, dentist and dental technician

MARACHLIOGLOU, DOS SANTOS, CUNHA and MARCHINI Journal of Oral Rehabilitation Volume 37, Issue 7, July 2010, Pages: 518–524

20 completely edentulous patients, a Prosthodontist and a dental technician provided scores for the expected aesthetic and functional results of their dentures:

- ➤ Patients presented higher expectations regarding their dentures than dental professionals.
- The dentist believed that dentures would bring fewer benefits than patients did, but his perception of denture benefits post-treatment was significantly higher than his expectations.













Dentures are not a replacement for teeth...They are a replacement for NO teeth

Factors Associated with Successful Denture Therapy

Roberta L.Diehl, Ulrich Foerster, Venitta Sposetti, and Teresa Dolan Journal of Prosthodontics, Vol 5, No2 (June), 1996, 84-90

- Purpose: Evaluate denture patients after delivery to develop an explanatory model of successful denture therapy
- 60 patients treated at a dental school
- Pre and post treatment questionnaires and interviews (6 month and 18 month intervals)
- Expectations measured for comfort, fit, chewing ability, appearance and speaking ability

Factors Associated with Successful Denture Therapy

Roberta L.Diehl, Ulrich Foerster, Venitta Sposetti, and Teresa Dolan Journal of Prosthodontics, Vol 5, No2 (June), 1996, 84-90

- Psychological and Interpersonal Factors are more important determinates of denture satisfaction than anatomic or clinical factors
- Patients that are well adjusted emotionally, + self image, - depression adjust with greater ease to new dentures
- Satisfaction of care received, cost of service, convenience in access to care, interpersonal relationship with the dentist are as important as comfort, fit and function

Dentures in an Hour

Does it meet Standard of Care?

Standard of Care:

standard, n. that which is established by authority, custom, or general acceptance as a model; criterion.

*guides practice and may be used to evaluate performance.

Factors Associated with Successful Denture Therapy

Roberta L.Diehl, Ulrich Foerster, Venitta Sposetti, and Teresa Dolan Journal of Prosthodontics, Vol 5, No2 (June), 1996, 84-90

- 76.7% satisfied with their dentures
- 74.6% expectations had been meet
- 67% said they adjusted easily at 6 month
- 78% said they adjusted easily at 18 months
- Age, gender, race, income level, education, marital status and maxillary and mandibular anatomy were not significantly associated with denture success within this study

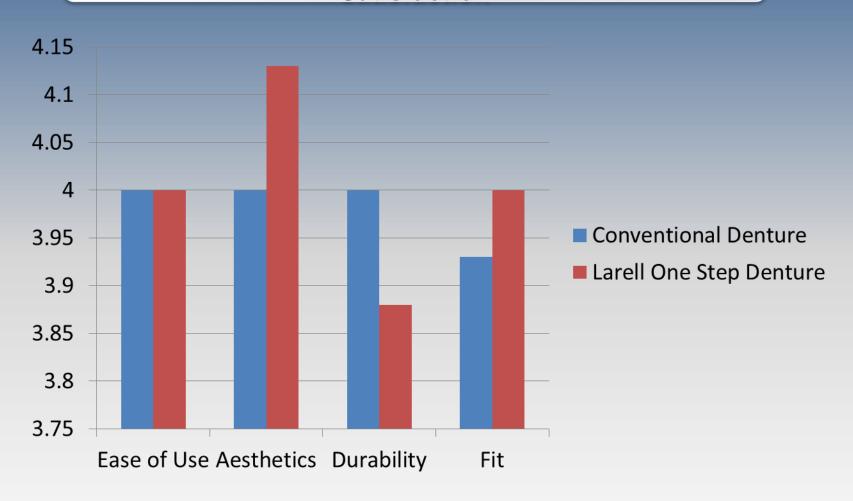
Survey of Larell Patients

- 69 patients surveyed: 61 responding
- Telephone interview and post-op evaluation
- 11% previous denture wearers
- 83.6% overall satisfaction with their dentures
- 98.4% pleased with appearance
- 80.3% chew comfortably
- 83.3% reported feeling healthier
- Patient demographics consistent with previous study

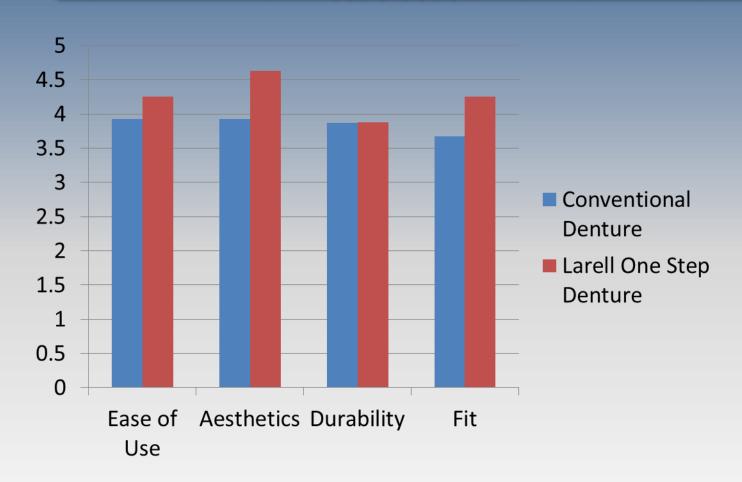
Comparison of Satisfaction Rates of Providers and Patients of Conventional Dentures and Larell One Step Dentures

 Survey conducted at 15 sites by the Virginia Health Care Foundation 2014

The Larell Denture vs. Traditional Denture -Provider Satisfaction



The Larell Denture vs Traditional Denture-Patient Satisfaction



The Larell One Step Denture

- Innovative method of denture fabrication
- Revolutionary lower-cost, one-visit solution
- Opens unserved and underserved markets due to its:
 - Portability
 - One visit fabrication
- Intuitive, easy to learn technique

Market Sectors

- Private Practice
- Skilled Nursing Facilities
- Assisted Living Residences
- Working population without insurance benefits
- Mobile Dental Clinics
- Safety Net Clinics
- Free dental clinics/Mission of Mercy

The Larell One Step Denture

Clinical situations to use the Larell denture

- ✓ Complete Dentures
- ✓ Immediate Dentures
- ✓ Implant Overdentures
- ✓ Emergency Dentures
- ✓ Spare Dentures

The Larell One Step Denture

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Conventional Denture vs. Larell Denture

Conventional denture

- Made in dental office
- Made in 4-5 visits
- Total time 3-4 hours
- \$200 400 lab cost
- Retail \$3000-5000/set

Larell One-Step Denture

- Can be made anywhere
- Made in 1 visit
- Total time about 1 hour
- No lab cost
- Retail \$1,200-\$1400/set

Larell Results

Wise VA MOM Clinic August 2011	100 dentures
CA MOM Clinic October 2013	102 dentures
Virginia MOM Clinic 2014	112 dentures
CA MOM Clinic October 2014	104 dentures
CA MOM Clinic March 2015	98 dentures
AZ MOM Clinic December 2015	119 dentures
CA MOM Clinic May 2017	113 dentures
AZ MOM Clinic December 2016	124 dentures

Our Patients



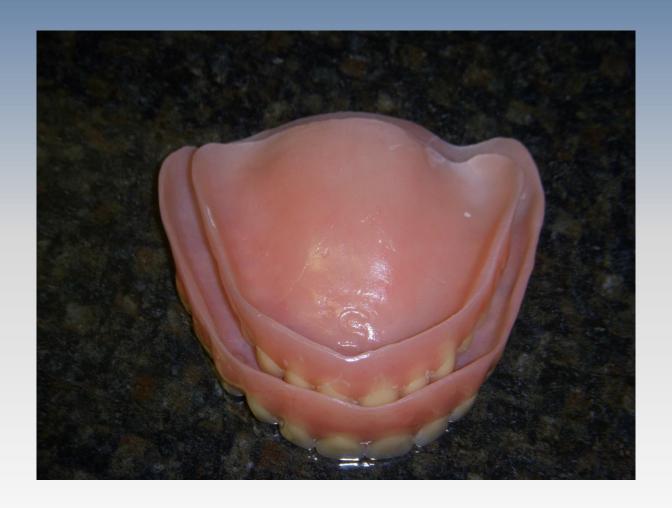
The One-Step Denture System

Multiple size pre-formed patented dental templates



- Available in shades B65, B1
- Accommodates 99% of edentulous population
- Templates made in the US from all US made materials

Denture Placement Technique



Denture Templates





Denture Placement Technique

- Start with quick set stone model
- Choose closest template size





Denture Placement Technique

- Start with quick set stone model
- Choose closest template size





Denture Placement Technique

- After heating in boiling water for 30 seconds, the template can be molded to the palate, flanges, tuberosities, retromolar pads.
- Frenum attachments and other impingements on the template are relieved at this time





Check vertical dimension in standing relaxed position



Final vertical to be 2 mm less than initial measurement

Position upper template in mouth

Anterior/posterior (ala tragal line): Occlusal plane

Occlusal cant: Occlusal plane

Tooth Show: Visual

Lip Support: Visual





- Obtain quick pour model of jaw
- Prepare upper template
- Reline upper template
- Try in lower template
- Reline lower template
- Use PIP paste and articulating paper
- Finish and polish

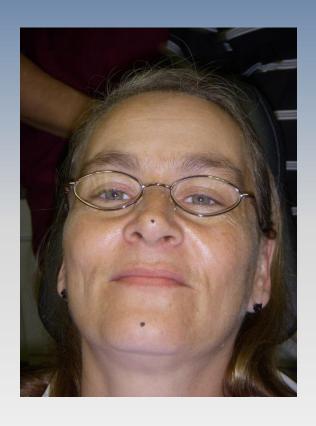
Templates-Before and After







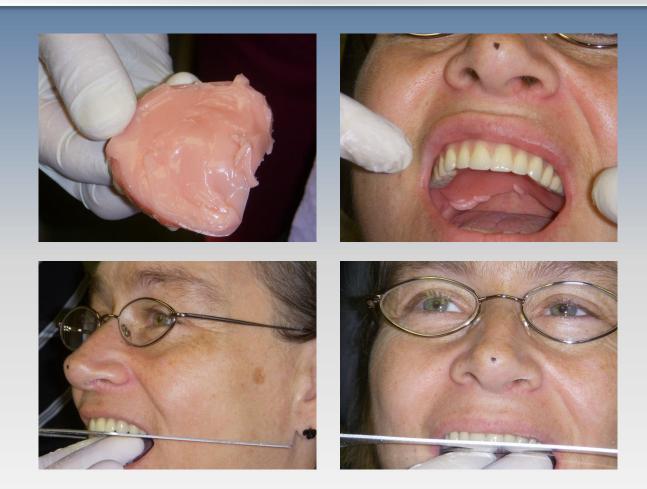


























Template Customization

Teeth not over ridge – Heat template and move teeth slightly. If more movement is needed then cut notch in template and move segment over ridge.





Occlusal plane canted on template try in – Place stops inside upper template to level occlusion prior to reline.

Template Customization

Unable to achieve ideal class I occlusion – Not all circumstances will allow an ideal class I occlusion. There may be a posterior crossbite or edge to edge occlusion. This is not an issue with monoplane teeth







Trouble Shooting

Poor retention of lower template – Use soft reline material, add mylohyoid flange extensions, consider the use of mini implants.

Lack of suction on upper template – Add post dam using reline material.

Gingival color too light – Add ink to reline liquid before

mixing

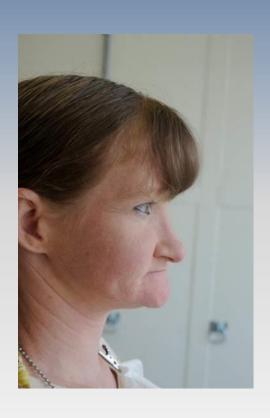


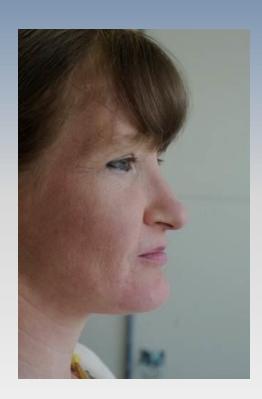
"Cosmetic" Dentures





"Cosmetic" Dentures



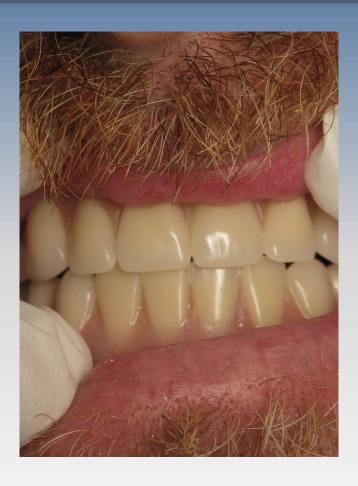


Full Denture Case

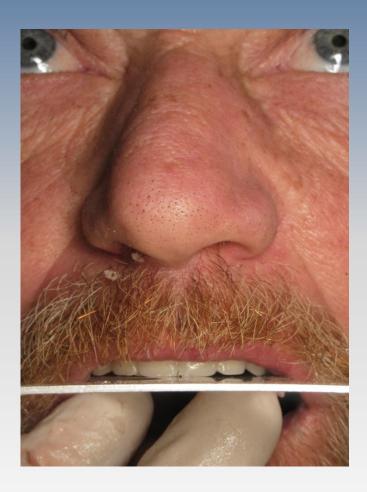




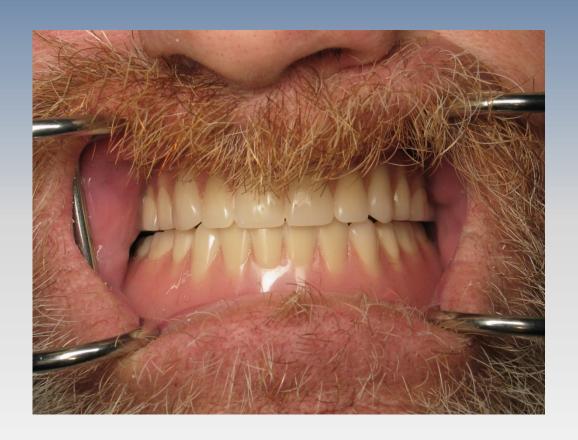


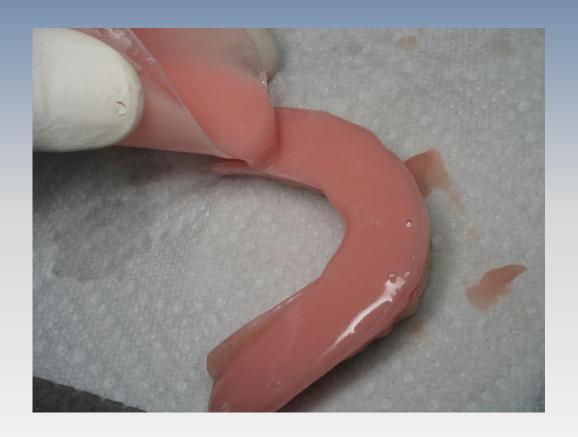






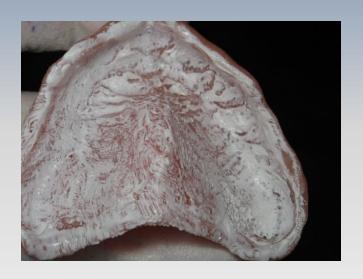














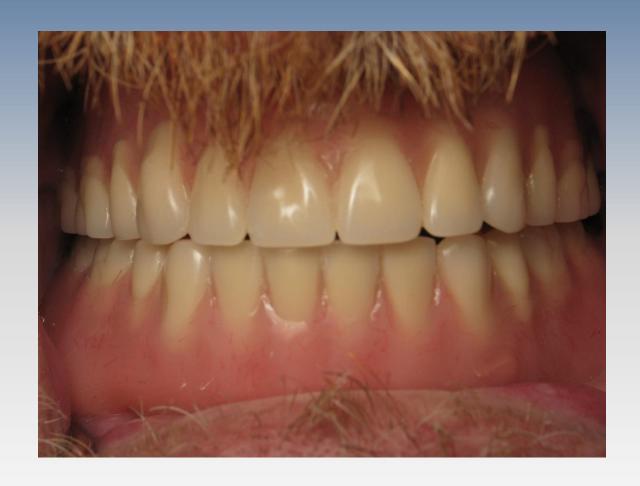




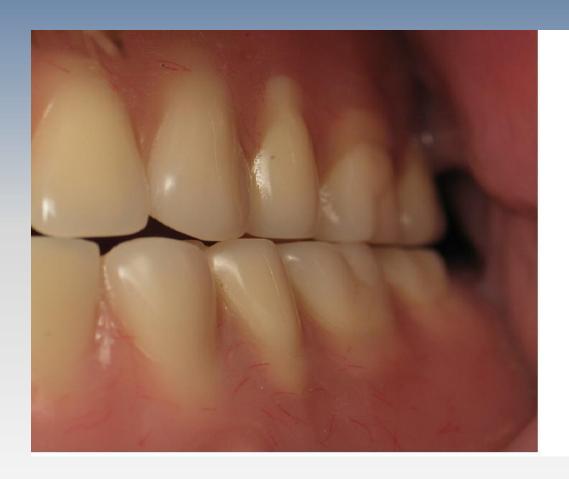














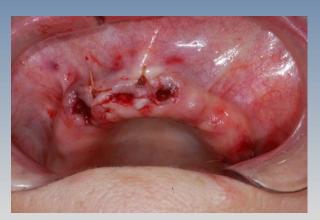


Immediate Upper Denture





- Vertical already established
- Lower occlusion to be balanced to upper

















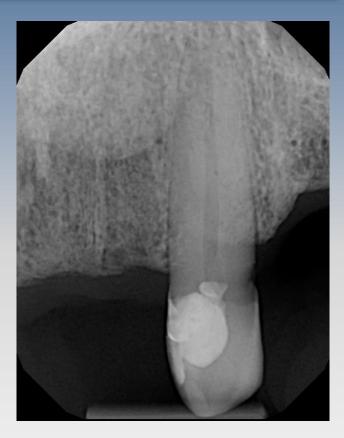


Interim Immediate Denture







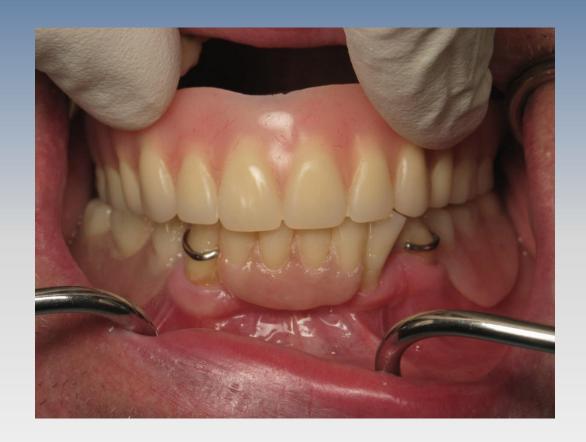


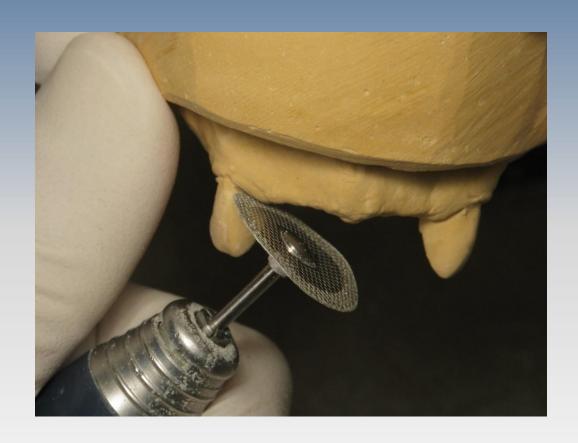
















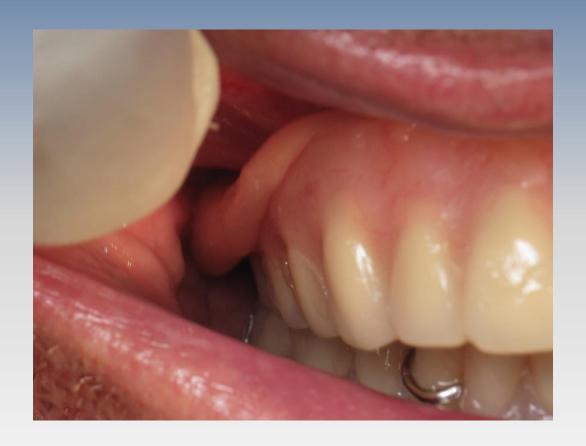


















Maxillary Immediate Denture Placement























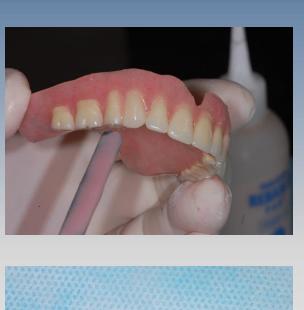




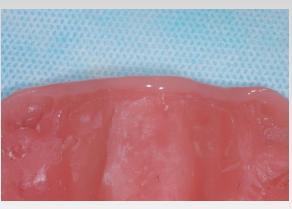














Case Study – Immediate Denture









Alternative Technique

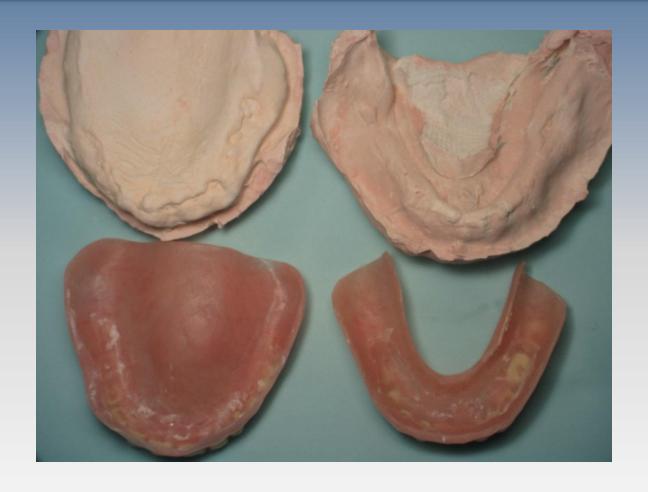
Laboratory Processed Denture

Pre Op Models





Post Op Models

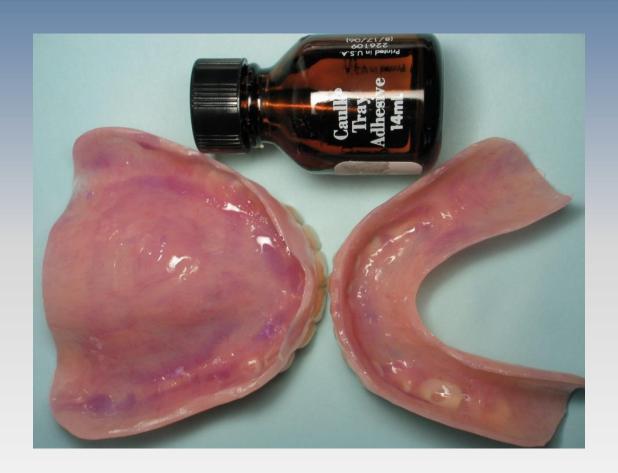


Modified Templates





PVS Adhesive Placed

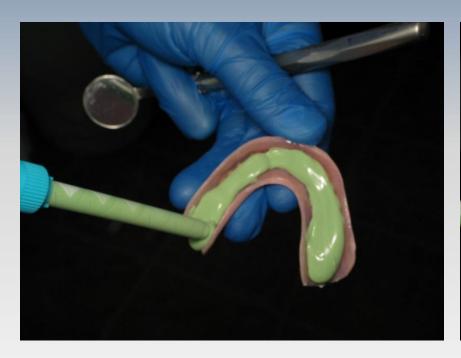


Maxillary PVS Impression





Mandibular PVS Impression





Impressions and Bite Record





Impressions Sent to Lab





Lab Reline Master Casts





Completed Lab Processed Templates



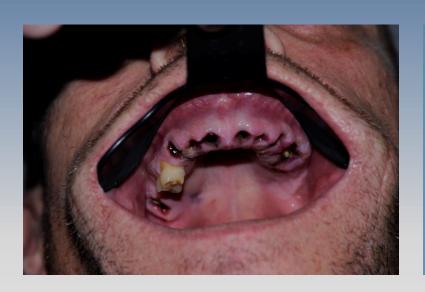






Immediate Upper Partial Denture

Case Study – Upper Immediate Partial Denture







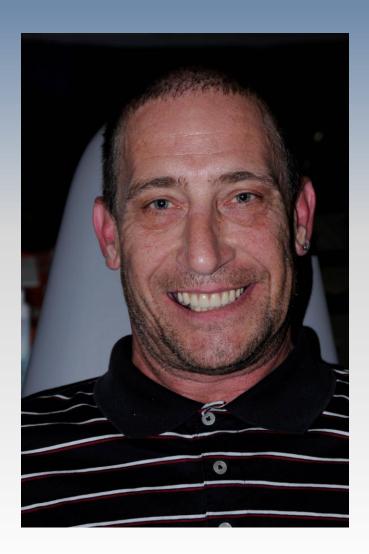
Case Study – Upper Immediate Partial Denture







Case Study – Upper Immediate Partial Denture







Overdentures With Implants



Meg-Rhein System

. Meg-Rhein (Overdenture) Line-up

- Products



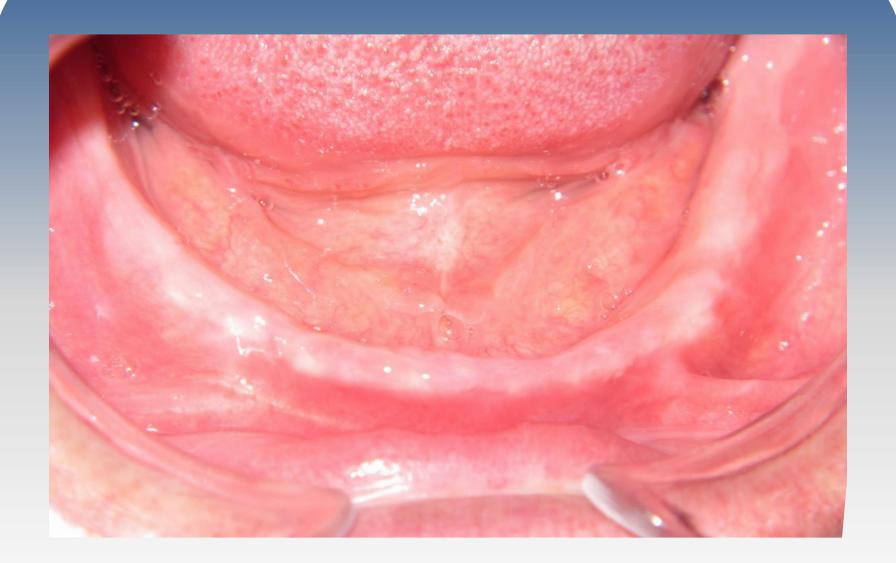


OnePiece Fixture (Available in Nov. 2013)



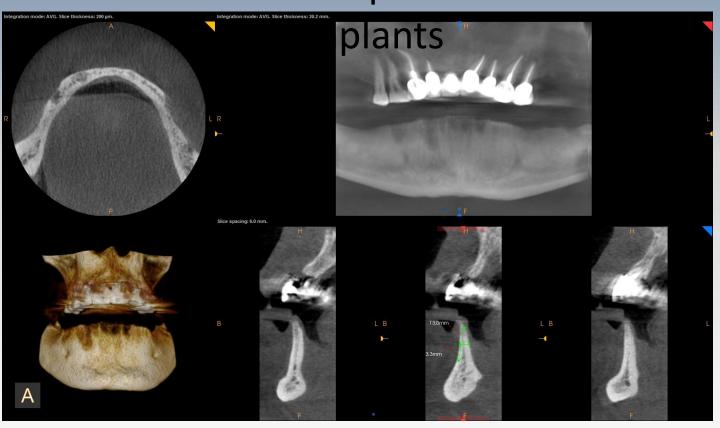


Meg-Rhein and all related abutment options are optimized for Digital Impression and CAD/CAM-based prosthetics connections.





Too Narrow for 2 piece









3 month post op







Remake Implant Overdenture





























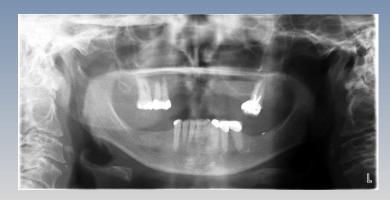


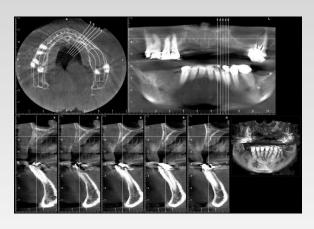


Maxillary Implant Supported Denture

Case Study – Maxillary Implant Case









Case Study – Maxillary Implant Case





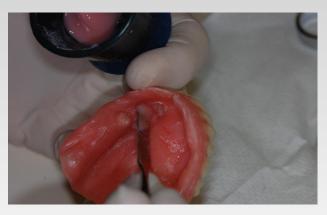




Case Study – Maxillary Implant case





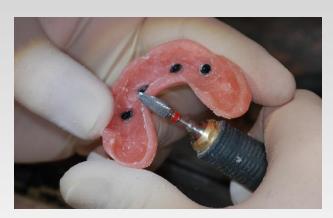


























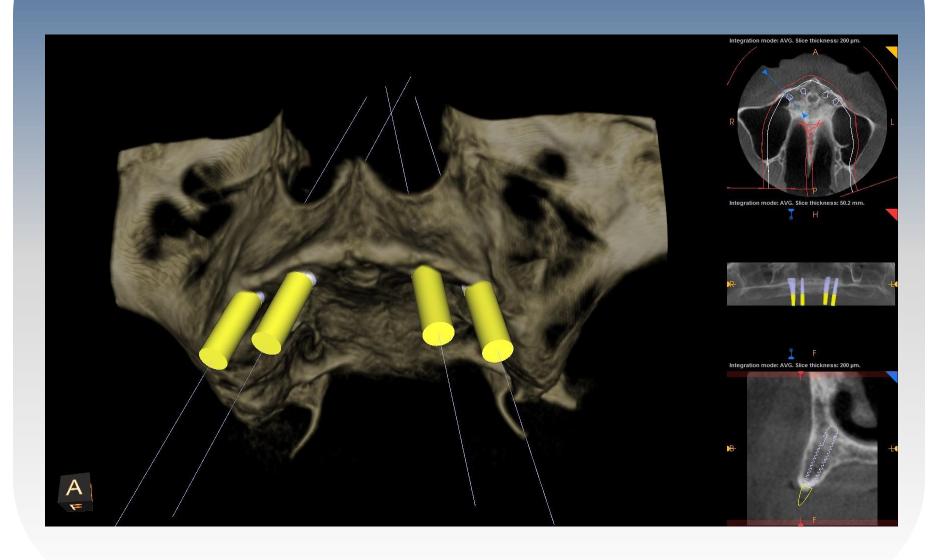


Divergent Implants

Advantages























Mandibular Implant Supported Denture



































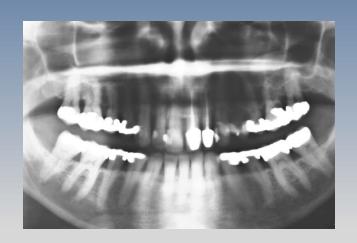




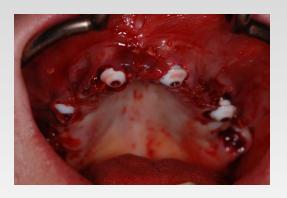


Case Study

All on Four Implant Reconstruction Temporary Denture

































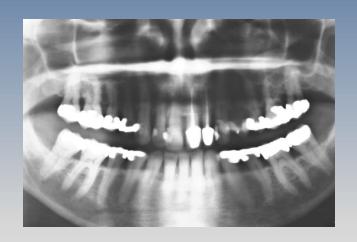










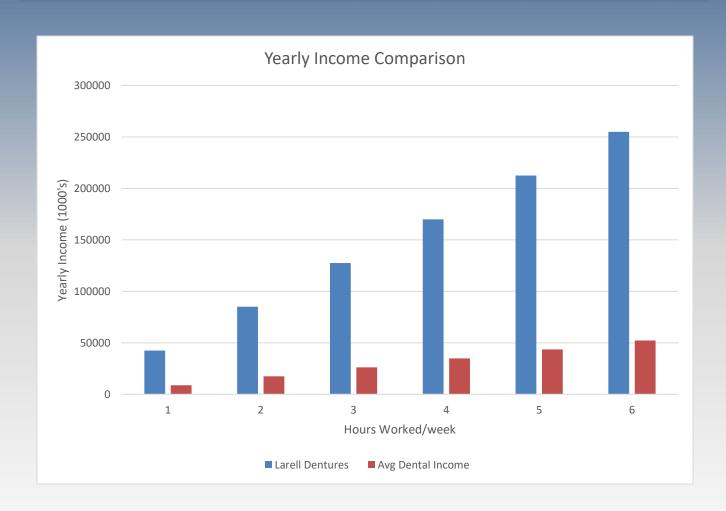








The Real Economics



Doctor Testimonials

"This technique has eased my stress levels and increased my production significantly." Dr R Jackson, New York

"The technique was so easy I thought I did something wrong!" Dr M Link, Virginia

"I want to thank you for developing this system as it enabled me to actually be a part of changing lives...Thanks again for a wonderful technique and product." Dr R Lunt, Oregon

"CR Evaluators and scientists found this concept is valuable for many patients who cannot afford custom dentures" Dr Gordon Christensen...Clinicians Report April 2015

The Larell Difference

- > Innovative one hour technique
- > Intuitive, easy to learn technique
- > Addresses major barriers to care
 - > Access
 - > Cost
- Ideal for immediate implant dentures
- Affordable for patient
- Great Revenue Stream and practice builder

Contact Information



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