

**Communication, Teamwork and the
Pathway to Predictable
Aesthetic Outcomes**

**Communication, Teamwork the
Pathway to Predictable
Aesthetic Outcomes**

Communication
Teamwork
Treatment Planning
Materials and Technology

Communication

Dentist and Lab
Team members and Lab
Dentist, Team Members, Lab and Patient

**Communication
Building Rapport**

Ask Open rather than Closed
Questions

Communication

More about People Skills than
Technical Competence

Teamwork

Teams must be balanced
Eliminate the Passenger
Shift Conversations to the future
Conflict within a team can be positive

Teamwork

Requires that everyone is

“ON THE SAME PAGE”

**Treatment
Planning
The Dentist Lab Patient
Relationship**

Lack of Design

Unintended Consequences?

Intended Design

Unintended Consequences?

**Treatment Planning
Surgery/Dentist Diagnosis**

Dentist has had conversation about patient desires

An indication of the issues the Dentist accesses

The preferred treatment options for the patient

OPPORTUNITY IS NOWHERE

Treatment Planning
The Minimum Requirements
The Lab Must be On Board

Treatment Planning
Minimum Requirements:

- Photographic Images
- Preliminary Treatment Plan
- Lab Prescription
- Study Models
- Bite Relationship
- Smile Design
- Material Choice
- Technology

Treatment Planning

Photographic Images

Full Face



Full Smile



Lips and teeth at rest



Frontal Retracted
Centric Occlusion



Frontal Retracted
Freeway Open



Retracted LHS
At Rest



Retracted RHS



Profile at rest



LHS



RHS

Treatment Planning Lab Prescription

Patient Name, Age and Gender

Description of Current Situation

Outline of Suggested Treatment

What has been included e.g. impressions, bite, images etc.

Treatment Planning

How Your Lab Can Assist You!

Treatment Planning

Study Models

Treatment Planning The starting point

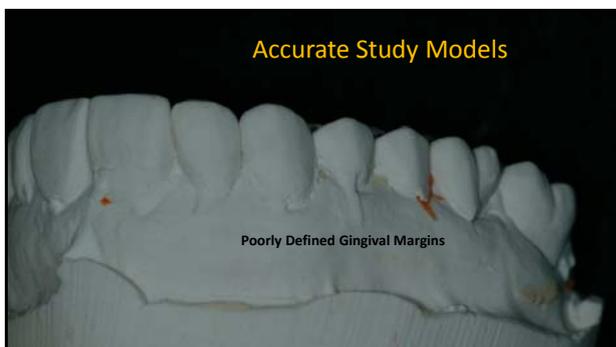
mounting accurate study models
into the same planes
of alignment as
the oral environment

Accurate Study Models



Sharp Gingival Margins

Accurate Study Models



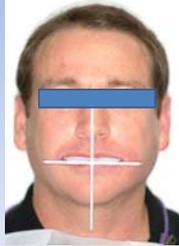
Poorly Defined Gingival Margins

Treatment Planning Study Models

2 sets of "cross mounted models" on an
adjustable articulator with either
facebow, symmetry bite or
mounted to HIP

Symmetry Bite

The Lab needs this image to mount models



Symmetry Bite Mounting

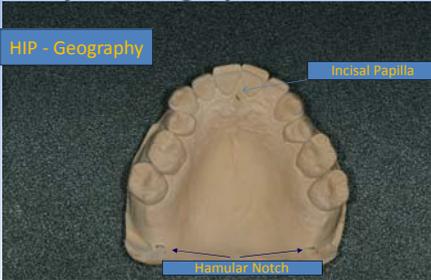


Clarity of Geographic Landmarks

HIP - Geography

Incisal Papilla

Hamular Notch



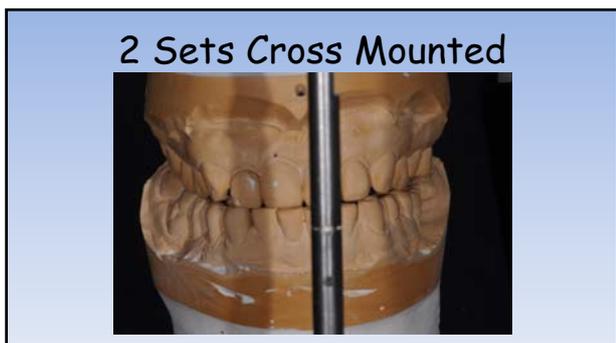
Stratos Articulator – Ivoclar Australia

Occlusal Plane Analyser



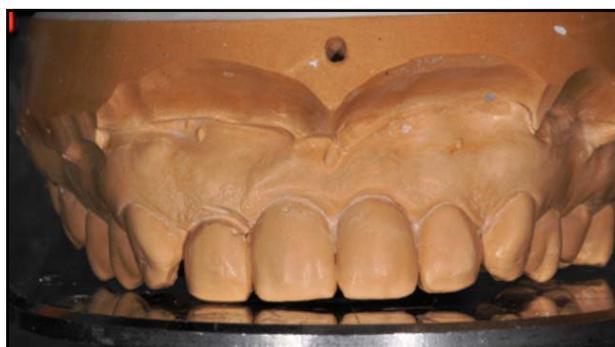
Stratos HIP Mount

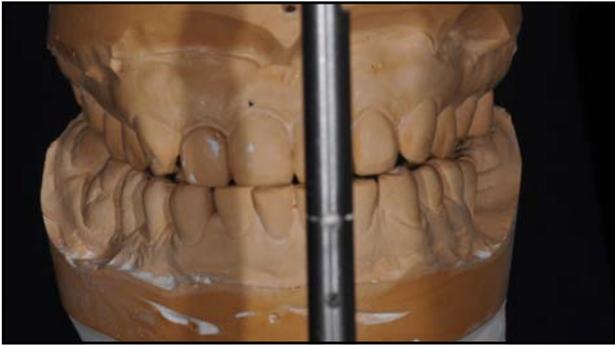




Diagnostics and Study Models

- Occlusal Plane Analysis
- Curve of Spee and Wilson
- Centre Line Cant and Shift
- Soft Tissues Analysis



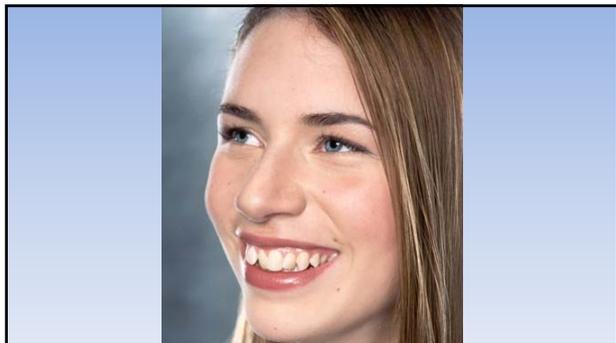




Determining Correct Proportions

The good, of course, is always beautiful, and the beautiful never lacks proportion."
--Plato





Smile Design

Incisal edge position

Tooth proportions - length to width ratio

Long axis inclination

Proximal contact zones

Smile Design

Incisal embrasures and incisal edges

Gingival zeniths

Tooth shape

Incisal Edge Position

**most important technical
requirement for a predictable
aesthetic outcome**

Incisal Edge Position

Have the patient count from 50 to 59

Review "at rest" image of Centrals

Review "profile" images for Nasio- Facial Angle



Tooth proportions - Length to Width Ratio

Determining Correct Proportions

Abdullah MA.
Inner canthal distance and geometric progression as a predictor of maxillary central incisor width.
J Prosthet Dent 2002 88 16-20

The Golden Proportion

The Greeks used the Golden Proportion to build the Parthenon

The Golden Proportion

Aesthetically acceptable length to width ratio 75 – 80%

Ideal length to width ratio = 77.5%

The Golden Proportion

Length to Width Ratio

Golden Proportion 77.5%

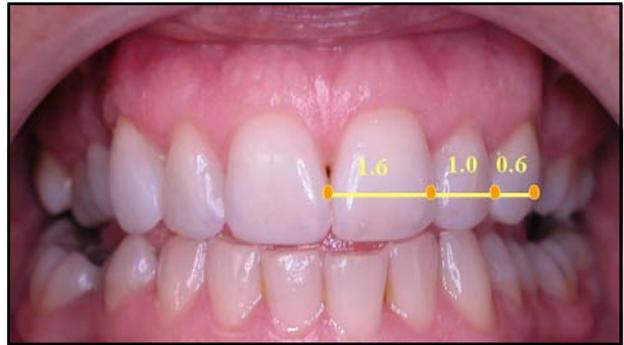
Outlined shapes

Central Width 8.5 mm Length 11mm

Golden Proportion

Enter the width of the central in Box B-14		
Width of Central	Ideal Length	Golden Shimbashi
8.5	11.84	17.86
The ideal length Length is shown in Box D-14		
The ideal "Golden" Shimbashi is shown in Box F-14		
Width of Central	Width of Lateral	Width of Cuspid
8.5	5.25	3.15
Ideal width of Lateral		
Ideal width of Cuspid		
Total width from Cuspid to Cuspid		
33.81		

Developed by Dr. Larry Emmott
For more information on using computers in Dentistry go to



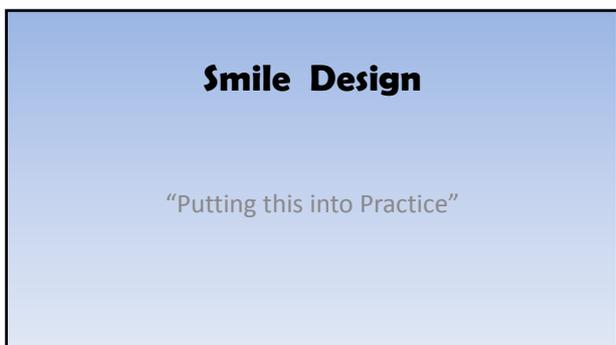
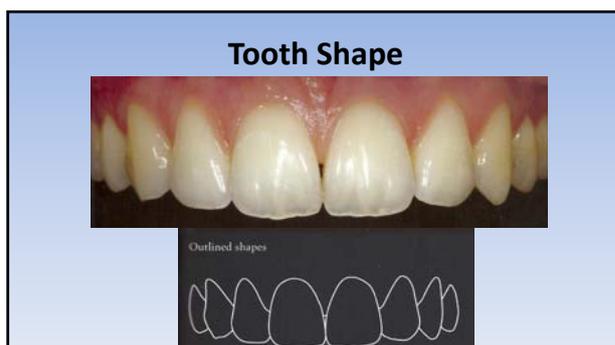
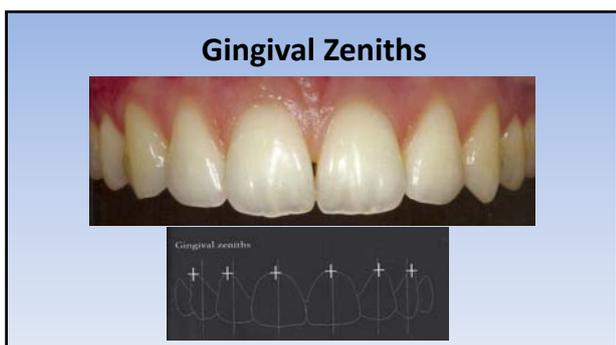
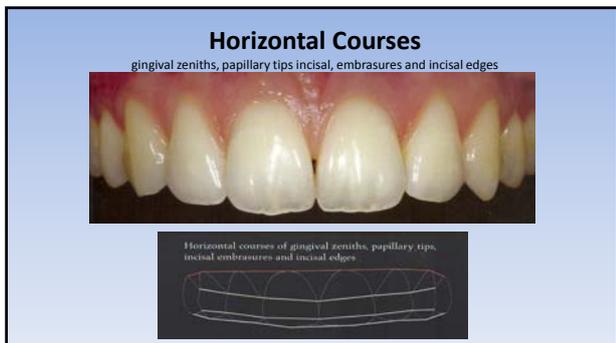
Long Axis Inclination

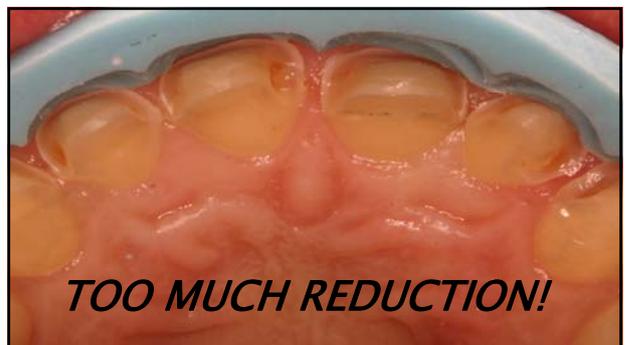
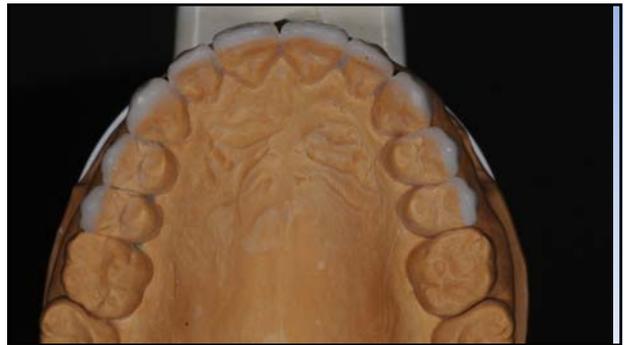
Tooth axes

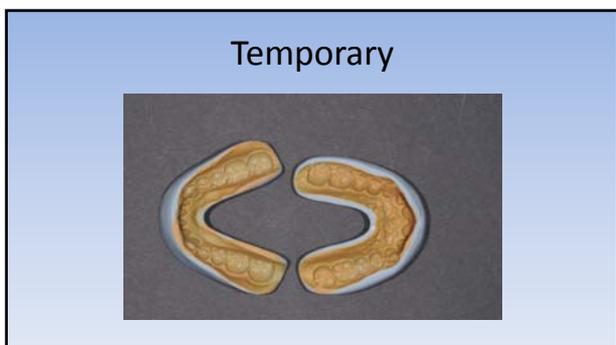


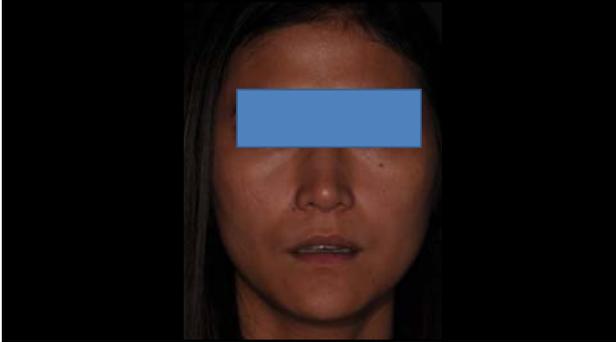
Proximal Contact Zones

Proximal contact zones

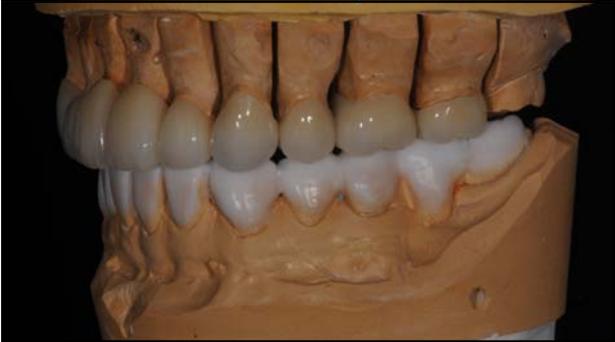














Materials Metal Free

Lithium Di Silicate

Zirconia

Nano Resin

Metal Free

Lithium Disilicate – Emax

Not Recommended for Bridges or
Posterior Implant Crowns







Metal Free

Lava Ultimate
3M ESPE

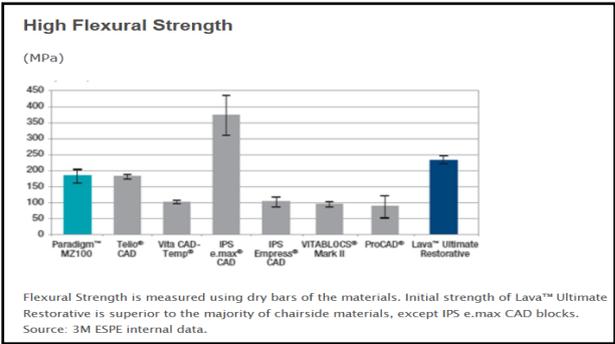
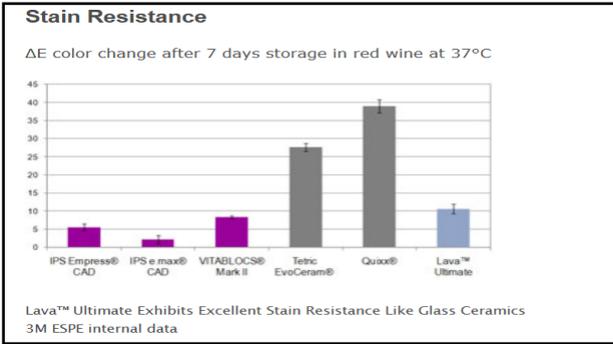
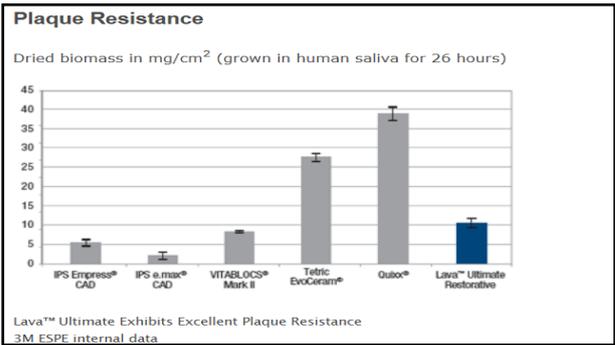
A Nano Ceramic Reinforced Resin
A Milling Centre or Chairside Solution

Lava™ Ultimate Restorative is a uniquely different CAD/CAM material.

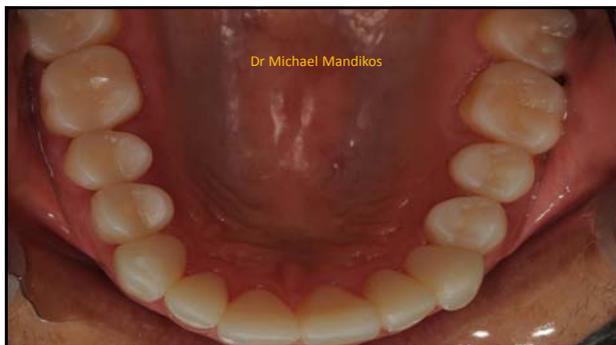
10-year warranty* - tough, resilient and durable.

Down the road, Lava Ultimate restorative will continue to perform.

The impressive durability of resin nano ceramic CAD/CAM material results from its high flexural strength and fracture toughness. In fact, it's so tough that 3M ESPE has you covered with an industry-leading 10-Year Limited Warranty!

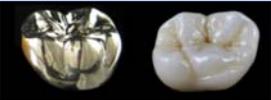






Lava Plus
Translucent Lava Zirconia
*"The Only Solution for Ceramic Crowns
in the Posterior Region"*

Lava Plus
Full Contour Translucent Crowns



BENEFITS:
Great aesthetics
1100 MPa flexural strength
Great alternative to Full Gold Crowns,
PFM's and pressed ceramics.
The strongest all ceramic crown
available





Technology

The Digital Revolution and the Profession

Future digital technologies will require some form of lab solution

Labs have been leading the digital revolution

New Technologies the Profession Adopts will need to be "Integrated Technologies"

Labs and Technology



Integrated Technology?



Integrated Technology?



Trios Intra Oral Scanner

Digital Impressions in Colour



3D Virtual Model Design



3D Printed Models and Dies



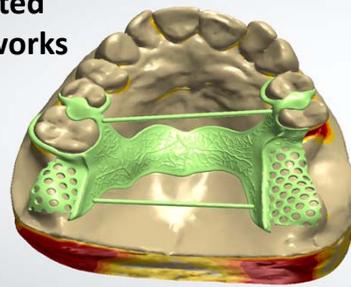
Virtual Crown Design



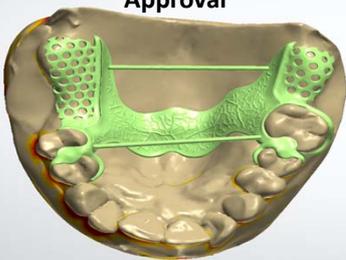
CAD Designed and Milled EMAX



3D Printed Frameworks



Design sent to Dentist for Approval



In order to meet the growing diversity of modern day dentistry, Slater Dental Studio offer a tiered range of products to suit every patient's and dental professionals individual needs.



The Universal Series



The Classic Series



The Artisan Series

In Review

**Communication
Teamwork
Treatment Planning
Materials and Technology**

Treatment Planning

Minimum Requirements:

Photographic Images
Preliminary Treatment Plan
Lab Prescription
Study Models
Bite Relationship
Smile Design
Material Choice
Technology

