Mastering Anterior Implant Esthetics

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Saturday, June 16, 2018
9am – Noon
Mastering Implant Esthetics

Dr. Lee Ann Brady

Risk Assessment
Exam & Diagnosis

Risk Assessment

<table>
<thead>
<tr>
<th>Health</th>
<th>Force</th>
<th>Aesthetics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caries</td>
<td>Jaw Joints</td>
<td>Teeth</td>
</tr>
<tr>
<td>Periodontal</td>
<td>Muscles</td>
<td>Gingiva</td>
</tr>
<tr>
<td></td>
<td>Occlusion</td>
<td>Skeletal</td>
</tr>
<tr>
<td></td>
<td>Tissue</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mechanical</th>
<th>Behavioral</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tooth Structure</td>
<td>Circumstances</td>
</tr>
<tr>
<td>Missing Teeth</td>
<td>Temperament</td>
</tr>
<tr>
<td>Materials</td>
<td>Objectives</td>
</tr>
<tr>
<td>Restorative</td>
<td></td>
</tr>
<tr>
<td>Techniques</td>
<td></td>
</tr>
</tbody>
</table>

Mechanical Risks

Tooth Structure

Missing Teeth

Materials

Restorative Techniques

Tooth Structure

Post & Core

Ortho Extrusion & Crown Lengthening

Crown Lengthening

Extraction & Implant
Implant Placement

Risks:
- Recession
- Gingival Esthetics
- Surgical Procedures

Implant Placement

Benefits:
- Structural
- Hygiene

Implant Placement

Tooth Position:
Gingival Recession is the most common complication of single tooth implant placement.

Esthetics

Tooth Position
Gingival Levels
Tooth Proportion
Contour
Color

Tooth Position

Lips At Rest
Smile Line
Incisal Plane
Midline
Occlusal Plane
Incisal Edge to Face
- Lips At Rest
  - Averages by Age
  - Gender

Smile Line
- Incisal Plane Relative to the lower lip
  - Curved
  - Flat
  - Reversed

Gingival Position
- Incisal Edge to Face
- Tooth Proportion

Gingival Symmetry
- Canines To Centrals
- Laterals
- Canines To Posteriors

Papilla Symmetry
- Centrals to Laterals
- Laterals to Canines
- Relative to Contact Length
Implant Placement

Tooth Position:
- 1mm apical migration of the FGM
- Facially positioned teeth have increased risk of recession
- Minimum of 1.5 mm of interproximal bone crest

FGM Correction

Ortho Grafting

Ortho Extrusion

Risks:
- Mobility
- Black Triangle
- Perio Surgery
- Wearing Braces
- Retention

Ortho Extrusion

Benefits:
- Gingival Esthetics
- Osseous Preservation
- Ferrule
- Emotional

Implant Placement

Periodontal Scallop:
- Distance from FGM to osseous Crest consistent facially and interproximally
- Greater distance interproximally means greater risk of recession
Implant Placement

Periodontal Biotype:

Can you see the perio probe in the sulcus?

Tissue Correction

Grafting

Implant Placement

Tooth Shape:

Coronal to the FGM influences embrasure volume

Apical to the FGM influences root proximity and recession.

Implant Placement

Tooth Shape:

Square represents the least risk of black triangles.

Triangular Teeth have the greatest risk of black triangles

Implant Placement

Osseous Position:

The greater the distance from the osseous crest to the FGM the greater the risk of recession.

Midfacial: 3mm

Interproximal: 4mm
Osseous Correction
Grafting
Ortho

Optimal Outcomes
Risk Assessment
Exam & Diagnosis
Treatment Planning

Optimal Outcomes
Risk Management
Optimize Pre-op
Biologic Concerns
Optimal Surgical Management
Optimal Prosthetic Management

Surgical Expectations
Fixture Placement
Facial of fixture is even with lingual of the pitch of the incisal edge

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Fixture Placement
Facial of fixture is even with lingual of the pitch of the incisal edge
Minimum of 1mm Mesial and distal, 1.5 is better. This influences fixture diameter.
Fixture is centered M-D, unless space is larger than the ideal.
Fixture is 1-1.5mm from mesial tooth always, extra space lives on the distal.
Surgical Expectations

Fixture Placement

Facial of fixture is even with lingual of the plane of the incisal edge.

Minimum of 1 mm Mesial and distal, 1.5 is better. This influences fixture diameter.

Fixture is centered M-D, unless space is larger than the ideal.

Fixture is 1-1.5mm from mesial tooth always, extra space lives on the distal.

Head of the fixture is 3-4mm from FGM on facial.

Functional Planning

Fixture Placement

Allows Long Access Load in MIP

Minimizes or Eliminates Lateral Force in Excursives

Provisionalization

• Temporary Provisional Shape

Fixture & Abutment Angulation

• Facial Profile

  - lingually inclined moves the FGM incisally

  - facially inclined moves the FGM apically
**Emergence Profile**

- Soft tissue emergence developed from abutment and provisional restoration

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**Provisionalization**

- Temporary Abutment Shape
- Abutment Removal
- Mach II
- Tissue Impression

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**Screw vs Cement Retained**

- Perimplantitis
- Implant Position
- Cement Removal
- Screw Access Seal
Abutment Material

- Titanium
- Zirconia
- Gold
- e.max

More Information

www.leeannbrady.com
www.pankey.org

Thank You

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