Avoiding Restorative Failure

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Failure

How Do You Define It?

Risk Assessment

Health
- Caries
- Periodontal

Force
- Jaw Joints
- Muscles
- Occlusion
- Tissue

Aesthetics
- Teeth
- Gingiva
- Skeletal

Mechanical
- Tooth Structure
- Missing Teeth
- Materials
- Restorative Techniques

Behavioral
- Circumstances
- Temperament
- Objectives

Tooth Position

- Lips At Rest
- Smile Line
- Incisal Plane
- Midline
- Occlusal Plane

Gingival Position

Tooth Proportion

Gingival Symmetry

Zenith

Papilla Symmetry

Display
Are The Joints Stable?

Where is the Disc?
Is There Inflammation?

Are The Muscles Stable?

Are the muscles creating ICP variability?
Is there Inflammation?
Is there ROM limitation?

Is The Occlusion Stable?

Is the Current Occlusion Stable?
If I alter it will it unravel?

Functional Decisions

Condylar Position
Vertical Dimension
Tooth Contacts
Overbite
Overjet

Occlusal Outcomes

• Minimize Force Application
• Distribute Force Application
Designing An Occlusion

- Maximum Intercuspal Position
- End To End Positions
- Excursive Pathways

End To End

- Create End To End Occlusion
- Broad Flat Contacts in Protrusive End to End and Crossover

Intercuspal Position

- Even Posterior Stops In Chosen Condylar Position
- Teeth Loaded Down the Long Axis

I Choose:

- MIP if:
  - There are no signs of bite disease
  - The patient does not brux or clench
  - There is not a need for significant dentistry

- CR if:
  - There are signs of bite disease
  - Condyle Disc Assembly is Stable
  - Vertical dimension of occlusion is altered
  - Significant dentistry is indicated
  - Any other reason to begin from a predictable, repeatable position

- Muscle Braced if:
  - The Disc Is Displaced Medially
  - The patient becomes stable and comfortable in this position

Canine Guidance

- Minimizes Force Application
- Concentrates All the Force On The Canine
Group Function

- Distributes Force Over Multiple Teeth
- Increases Force Application

Caries

- Age
- Home Care
- Preventive Maintenance
- Nutrition
- Medications
- Dry Mouth
- Habits

Perio

- Age
- Home Care
- Medical History
- Tissue Condition
- Pocket Depths
- Disease Progression
- Therapeutic Response

Tooth Structure

Post & Core
- Ortho Extrusion & Crown Lengthening
- Crown Lengthening
- Extraction & Implant

Post & Core

Ferrule:
- Bonded 1-2mm Buccal and Lingual
- Cemented 2-3mm Buccal and Lingual
- Failure occurs from repetitive load
Ortho Extrusion

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

Ortho Extrusion

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

Crown Lengthening

Risks:
- Surgical Procedure
- Long Contact
- Papilla Esthetics
- Adjacent Teeth

Crown Lengthening

Benefits:
- Gingival Correction
- Ferrule
- Emotional

Implant Placement

Risks:
- Recession
- Gingival Esthetics
- Surgical Procedures
- Time
Implant Placement

Benefits:
- Structural
- Hygiene

FPD

Risks:
- Emotional
- Structural Failure
- Endodontic Failure
- Hygiene

FPD

Benefits:
- Time
- Gingival Esthetics
- Endodontic Failure

More Information
- www.leeannbrady.com
- www.restorativenation.com
- www.pankey.org

Thank You

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