



**Smile Essentials™**

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## **Orthopedics first, then Orthodontics, Porcelain & Gold**

with

**Dr. James Broadbent, DDS, MS**  
Orthodontic Professor at USN

**June 18 & 19, 2010 - Toronto, Ontario**

**Smile Essentials™** will change the way you think about your patient's face, jaws, teeth and health. A **Smile Essentials™** foundation of knowledge will help you discover the next orthodontic level. **Smile Essentials™** principles are the difference between good and excellent orthodontics! **Smile Essentials Orthodontics™** is based on diagnostic findings, Cranio-maxillary Orthopedics (CMO) and mandible Functional Jaw Orthopedics (FJO) biomechanics procedures position the maxilla and mandible to the cranium for most pleasing facial symmetry, profile, improved airway, TM disc space, TM joint function and dental occlusion.

**W**hen the skeletal and dental anatomical relationship to the cranium is normalized and a Class I dental relationship is first established then **Smile Essential Orthodontics™** biomechanics treatment for case finishing is more efficient with shorter time in fixed braces thus providing the best possible outcome.

**Much of this technology will be new to you.** Additional training is recommended. **Smile Essentials™** offers simple steps of success that benefit your patients and practice opportunities. **Everyone benefits!**

**Smile Essential Orthodontics™** is less demanding than conventional orthodontic protocols so your life becomes less stressful, your staff more content and your patients more satisfied! When the maxilla and mandible are well positioned to the cranium and a Class I dental relationship is first established with **Orthopedics First then Smile Essential Orthodontics™**, biomechanics becomes simpler. Case finishing involves fewer appointments, few wire changes and treatment in fixed braces for less time.

**For these benefits treatment must take a different approach!**

**I**n the majority of malocclusion cases Cranio-maxillary Orthopedics (CMO) and mandible Functional Jaw Orthopedics (FJO) procedures are needed to first position the maxilla to the cranium. The mandible is then repositioned for normalized skeletal and dental relationships and Essential Bite Stabilization of the TM joints at the proper vertical dimension. A fixed brace appliance (SWA) system is selected for case finishing with the TM discs in place at the proper vertical and neuromuscular jaw position!

**DR. JAMES BROADBENT, DDS, MS**

# Smile Essentials™

## Orthopedics first, then Orthodontics, Porcelain & Gold

Dr. James Broadbent, DDS, MS – Orthodontic Professor at USN

### Smile Essentials™ 3D Diagnosis and Treatment Planning

- Fundamental Guidelines to Successful Treatment

### Everyone starts somewhere

- Beginner
- Some Experience
- Experienced
- Advanced
- Specialist

### Ideal Case Selection

- Class I Skeletal/Dental with favorable growth\*
- Maxilla to Cranium WNL
- Good Maxilla Arch Width
- Second Molars Erupted
- Overjet, Overbite, Midlines WNL
- Minimal Crowding or Spaces
- Facial Symmetry
- NO TMJD
- Patient accepts responsibility for outcome

### Case Finishing Simple Concepts

- Fundamentals....get the:
  - TM Disc/s in place!
  - Face symmetrical
  - Position maxilla to the cranium
  - Face upper midline
  - Position mandible to the maxilla
  - Vertical

### Class III and II to Class I Dental

- Case Finishing Simplicity

**Orthopedics for TMD, occlusion, face symmetry, profile, vertical, skeletal and dental midlines...**”teeth go along for the ride”

### Orthodontic Case Finishing

Diagnostic facts you must know

- Soft Tissue Profile “As If”
- Maxilla to cranium – STVRPY
- Mandible to Maxilla and Cranium
- Vertical/Skeletal Pattern
- Upper 21|12 position – lip display
- Lower 21|12 position
- ROM – discs & neuromuscular condition
- Midlines (3)
- Facial Symmetry
- Airway

### Class II Malocclusion

Seven Signs of TMJ Success

- Vertical open 48+mm
- Open w/o deviation or deflection
- Lateral R/L 12+mm
- Open condyles past eminence with disc space
- No joints sounds
- Condyles positioned
- PAR/Gelb 4/7 in fossa
- Evidence of new bone formation
- Dr. B.C. Stack

### PAR

- Dr. G. H. Smith, Cranial Dental Sacral Complex

## Fundamentals

- Doctor...To Treat:
- Most Malocclusion
- Cranial Strains
- Facial Asymmetry
- TMJ-Internal Disorders
- Sleep Disorders
- Posture Disorders/Chiropractic
- Orthodontics
- We begin with the Maxilla!

## Smile Essentials™

- Doctor...That means:
- *Essential Steps before Case Finishing with Orthodontics Porcelain and Gold*
- We begin with the Maxilla!

## Treatment

- Objective
- Treat Cause When Possible
- ...Malocclusion is Symptom
- Correct Problem List toward Class I Skeletal/Dental with Minor ALD or Spacing
- Finish with Orthodontics
- Cosmetic Dentistry

## Maxilla

- The Maxilla is the key to diagnosis and treatment planning

## Dental Excellence

- Excellence in Cosmetic Dentistry and achieving beautiful smiles begins with the Maxilla

## Treatment Goals

- Jaws
- Face
- Smile
- Teeth
- Stability

## Diagnosis

- Begins with the Face #1
- Begins with the Maxilla #2
- Before FJO, Orthodontics or Prosthetic Dentistry

## The Difference between Success or Failure

- TM Joint Imaging

## What is Missing?

- **UNDERLYING CAUSE OF MALOCCLUSION**
- Malocclusion is NOT the Problem!
- Malocclusion is the *symptom* of off-the-disc and/or unbalanced physiology or function

## Where do I Look for Missing?

- Events and STRUCTURES REMOVED FROM TEETH
- Airway
- Tongue
- Posture
- TM Joints
- Neck
- Cranial Base – Factors

## Maxilla

- FACT
- “In the final analysis...provide a maxillary arch form that will permit condylar placement within the physiologic adaptive range”
- “The occlusal scheme must be changed\* to maintain a Gelb 4/7 or centrally located condylar position”
- PAR

### Seven Smile Essentials™

- Diagnosis – *Case Selection*
- Treatment Plan
- Arch Preparation
- FJO Mandibular Repositioning
- Bite Stabilization\*
- Case Finishing
- Maintenance

### Ten Smile Essentials™

- Diagnostics – *Case Selection*
- Treatment Plan
- Phase I TMJ/PAR\*
- HNF Pain Management
- Cranial Maxilla Orthopedics
- Arch Preparation
- FJO Mandibular Repositioning
- Tri-Planar Bite Stabilization\*
- Case Finishing
- Maintenance
  - The three most  
*Important Secrets*
- Maxillary Arch Preparation
- Mandibular Arch Preparation PRN
- Bite Stabilization

*and then*

### Fixed Braces for Class I Case Finishing

### Löök at the FACE

- What do people look like who have *internal derangement* of Jaws (off disc/s) and Cranial Base Problems?
  - Your Patients
- What do people look like who receive Instant Orthodontics or Smile Makeover Porcelain and Gold Restorations without *Smile Essentials™*?
  - Great Benefits but often not Optimal Function or Esthetics

### Smile Essentials™ Guidelines

- Arch form width display 45 | 34 corners
- Perpendicular 345
- Lip Profile Support
- Angle
- Length at Rest
- Display Full Smile
- Art Positions
- 321 | 123
- Smile Arc
- No triangles, spaces or ALD
- Gum contours
- Web Cases
- Cosmetic Dental Veneers
- Instant Orthodontics

### Treatment

- Objective
- Treat Cause When Possible
- ...Malocclusion is Symptom
- Correct Problem List toward

### The Most Important Secret

- Class II treatment is all about Functional Jaw Orthopedics (FJO) *and then Orthodontics*
- Class II Functional Jaw Orthopedics (FJO) success usually requires
  - Maxilla Arch Preparation and often Mandibular Incisor Uprighting
  - *then* optimally reposition the mandible to the maxilla.
- Optimal Esthetic Treatment is all about Orthopedics
  - *then* Orthodontics, Porcelain and Gold

### Smile Essentials™ and then Porcelain and Gold

- YOU CAN TALK
- Ignore or DO IT

### Transverse Discrepancies

- Early Treatment
- Palatal Expansion
- Dental Crossbite
- Skeletal Crossbite
  - Class II Components
- Maxilla Transverse
  - Normal
  - Narrow
  - Most Class II malocclusions have a transverse discrepancy

### RULE

- Arch Preparation must precede or be co-incident with mandibular repositioning.

### Palatal Expansion

- Mid-palatal Suture becomes more *interdigitated* with age

### Expansion Appliances

- Sagittal, Twin Block, Herbst.....
- Changing times...for the **GÖÖD!**
- **FJO WORKS!**

### Twin Block

- Twin Block Indications
  - Stabilize TMJ
  - Facial Asymmetry
  - Level Occlusal Plane
  - Midline Correction
  - Vertical Management
  - Arch width/length
  - Reposition Mandible
  - Indirect Bracketing
- Class II FJO Guidelines
  - The *optimal timing* for Twin Block Therapy of Class II is during or slightly after the onset of pubertal peak in growth velocity
  - *Optimal timing* late mixed or early permanent dentition

### Cervical Vertebral Maturation (CVM)

- FJO Response

### Early Treatment

- What is the message?
- Maxilla is “Key to Diagnosis”
- **Position Maxilla to Cranium**
- **Arch Preparation PRN**
  - Position upper incisors
  - Upper arch form and width
  - Position lower incisors
- FJO position mandible to maxilla
- Bite Stabilization
- SWA Case Finish

### Indirect Bonding

### Precision Bracket Placement

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### Meeting Location



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### Meeting Sponsors

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