Dr. Merle D. Bean, DDS, is a graduate of the University of Iowa College of Dentistry and practiced for more than 35 years including orthodontics for two decades and TMJD therapy for fourteen years.

Dr. Bean studied under Dr. H. Wilson of London, England, Dr. David Liddle of the USA and Dr. Pierre Verdon of Paris, France.

**Dr. Bean pioneered the reverse face mask treatment for maxillary advancement in the USA and CANADA.**
Dr. Merle Bean

12 hour Self-Instruction CE Presentation

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Dr. Merle Bean’s detailed Orthopedic presentation is an invaluable educational and reference tool.

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"MERLE'S PEARLS"

with Dr. Merle D. Bean
Pediatric Dentist
Des Moines, Iowa

Pioneer of the Reverse Face Mask Treatment for Maxillary Advancement in the United States
"Merle's Pearls" with Dr. Merle D. Bean
Pediatric Dentist Des Moines, Iowa
Pioneer of the Reverse Face Mask Treatment for Maxillary Advancement in the United States

Over 12 Hours of Detailed Orthopedic Instruction:
- Class I, II, and III Cases
- Pediatric, Youth and Adult Treatment
- TMJD
- Reverse Face Mask
- Functional Jaw Orthopedics
- Fixed Bracket Therapy
- Congenitally Missing Teeth
- Traditional vs. Functional Treatment
- Cephalometric Analysis
- 2nd Molar Replacement Surgical Extraction Techniques
- Uprighting of Wisdom Teeth
- Ectopic Surgical Corrections

And much more...

BEFORE:
SELLA TO NASION = 63mm

AFTER:
SELLA TO NASION = 68mm

Patient: Age 4 yrs 8 months, Class III Treatment: Reverse Head Gear Labial/Lingual Fixed Appliance, 11 months
This Self-Instruction video program is eligible for 12 Continuing Education Points upon completion of a Theory Test.
**"MERLE'S PEARLS"**

Dr. Merle D. Bean  
Pediatric Dentist  
Des Moines, Iowa  
A Pioneer of the Reverse Face Mask Treatment for Maxillary Advancement in North America

**DISC #1**

1.01 Introduction of Dr. Merle Bean

1.02 **Pearl:** Facial Forms – Faces Before & After

1.03 **Pearl:** Sassouni “Plus” Cephalometric Analysis: Importance of determining the position of the Mx & Md

1.04 **Pearl:** Bowbeer Facial Analysis: The Five Keys to Facial Beauty & TMJ Health

1.05 **Pearl:** Dr. James McNamara: “82% of all Maxillas Retrude”

1.06 **Pearl:** Dr. R. T. Beistle: “The Maxilla is the Diagnostic Arch”

1.07 **Pearl:** Dr. Larry Funt: “The Maxilla is the Criminal. The Mandible is the Victim”

1.08 **Pearl:** The Size and Position of the Mx Relative to the Cranium hold the Secret to a Healthy TMJ and Good Face

1.09 **Pearl:** Best Time to Treat

1.10 **Patient:** Curtis 3yr 2mths  
Classification: Class III  
Treatment: Reverse Head Gear & 3 Screw Sagittal

1.11 **Pearl:** Henry Petite Facemask & Tongue Position is Critical to Mx retention.

1.12 **Patient:** Stephanie 5yrs 7 mths  
Classification: Class III  
Complication: Missing Mx anterior teeth due to sleeping with a bottle of milk  
Treatment: Reverse Head Gear & Mx Schwartz
<table>
<thead>
<tr>
<th>1.13</th>
<th><strong>Pearl:</strong> Reduce treatment time in Class III treatment by reducing cusp tips of lower cusps</th>
</tr>
</thead>
</table>
| 1.14 | **Patient:** Sybil 4yrs 7 mths  
**Classification:** Class III  
**Complication:** Four Md anterior teeth extracted  
**Treatment:** Reverse Head Gear, Labial/Lingual Fixed Appliance |
| 1.15 | **Pearl:** Cleft Palate |
| 1.16 | **Pearl:** Function of a Facemask (Dr. Verdon & Delaire) |
| 1.17 | **Patient:** Danielle 5 yrs 4 mths  
**Classification:** Class III  
**Treatment:** Reverse Head Gear, Labial/Lingual Fixed Appliance |
| 1.18 | **Patient:** Kelly 9 yrs 5mths  
**Classification:** Class III  
**Treatment:** Reverse Head Gear, Mx Sagittal |
| 1.19 | **Patient:** Josh 10 yrs 6mths  
**Classification:** Class II  
**Complications:** Poor tongue posture & swallowing habits  
**Treatment:** Twin Block & Bionator |
| 1.20 | **Patient:** Jessica 4 yrs 8 mths  
**Classification:** Class III  
**Treatment:** Reverse Head Gear, Labial/Lingual Fixed Appliance |
| 1.21 | **Pearl:** Dr. Broadbent: Sella to Nasion Growth Measurements Ages 9-15 |
| 1.22 | **Patient:** Cyrus 5 yrs 2 mths  
**Classification:** Class III  
**Treatment:** Reverse Head Gear & Mx Sagittal |
| 1.23 | **Pearl:** Wear facets on teeth is a diagnostic signal of TMJD |
| 1.24 | **Pearl:** Class III Malocclusion: Types and Studies |
| 1.25 | **Patient:** Lori 6 yrs 7mths  
**Classification:** Class III  
**Treatment:** Reverse Head Gear, Labial/Lingual Fixed Appliance |
| 1.26 | **Pearl:** Precautions about Skin Irritations with Reverse Head Gear |
| 1.27 | **Pearl:** Elastic Gauge Force |
| 1.28 | **Treatment of Siblings:**  
**Patient:** Suzanne 16yrs 2 mths  
**Classification:** Class II Tendency  
**Treatment:** 1st Bicuspid Removal & Straightwire  
**Patient:** Mark 14 yrs 3 mths  
**Classification:** Class 1  
**Treatment:** 2nd Molar Replacement, Sagittal & Reverse Head Gear |
| 1.29 | **Patient:** Nick 11 yrs 7 mths  
**Classification:** Class I Crowded  
**Complication:** Congenitally Missing Mx & Md 8’s in Right Quadrants  
**Treatment:** Sagittal, Straightwire & Bionator |
1.30 **Pearl:** Evolution of Benefits of FJO: “The phenomenon of FJO will not disappear.”

1.31 **Patient:** Heather 10 yrs 3 mths  
**Classification:** Class II Division II  
**Treatment:** Mx Sagittal, Mx Split Hawley, Mx Sagittal, 2nd Molar Replacement

1.32 **Patient:** Tracee 11 years  
**Classification:** Class I Crowded  
**Treatment:** Sagittal, Straightwire, Mx 2nd Molar Replacement

1.33 **Pearl:** Benefits of 2nd molar replacement as a form of retention to eliminate the mesial force of their eruption.

1.34 **Pearl:** Dr. David Liddle, December 1977 American Journal of Orthodontics: Second Molar Extraction in Orthodontic Treatment

1.35 **Patient:** Christy 13 yrs 6 mths  
**Classification:** Class II  
**Complication:** Arrived with prior Mx 1st and 2nd bicuspid extractions & Md 1st bicuspid extractions performed at a specialist’s office.  
**Treatment:** Md Lower Wisdom Tooth Removal

1.36 **Patient:** Jana 17 yrs 1 mth  
**Classification:** Class I  
**Complication:** Arrived with prior four 1st bicuspid extractions performed at a specialist’s office.  
**Treatment:** No treatment – records only

1.37 **Patient:** Female 18 yrs  
**Classification:** Class II  
**Complication:** Arrived at office at end of treatment performed by an orthodontist.  
3 years of Headgear and 4 Bicuspid Remova  
**Treatment:** No Treatment - Records Only

1.38 **Pearl:** Reconstruction of deciduous teeth with ramped caries.

1.39 **Pearl:** Tongue Frenectomy

1.40 **Patient:** Patty 10 yrs 4 mths *(Continued on Disc 2)*  
**Classification:** Class I Crowded  
**Treatment:** 2nd Molar Replacement, Sagittals & Straightwire

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2.01 **Patient:** Shane 11 yrs 4 mths  
**Classification:** Class I  
**Complication:** Impacted Lateral, Cyst, Impacted 2nd Molar  
**Treatment:** Hawley with Steel Ligature Wire

2.02 **Patient:** Jessica 10 yrs 3 mths  
**Classification:** Class I Crowded – Mixed Dentition  
**Treatment:** Mx Sagittals, 2nd Molar Replacement

2.03 **Pearl:** Timing of 2nd Molar Replacement and Benefits of a Mx Sagittal
### DISC #2

| 2.04 | Patient: Julie 9 yrs 5 mths  
Classification: Class I Crowded  
Complication: Blocked Out Cuspids  
Treatment: Mx Sagittal, Md Lingual Arch, Md Sagittal, Straightwire, 2nd Molar Replacement |
| 2.05 | Patient: Brett 15 yrs 5 mths  
Classification: Class I  
Complication: Poor Eruption of Wisdom Teeth following 2nd Molar Replacement  
Treatment: Uprighting Wisdom Teeth |
| 2.06 | Patient: James 13 yrs 2 mths  
Classification: Class I  
Complication: Impacted Lower 2nd Molars  
Treatment: Sagittals, Uprighting of Md 2nd Molars |
| 2.07 | Patient: Tami 11 yrs 4 mths  
Classification: Class I  
Treatment: Rapid Palatal Expansion, 2nd Molar Replacement, Bionator, Schwartz |
| 2.08 | Patient: Gail 10 yrs 6 mths  
Classification: Class I  
Complications: Impacted Upper Left Central  
Treatment: Expansion, Hawley with elastic |
| 2.09 | Patient: Elizabeth 10 yrs 3 mths  
Classification: Class I  
Complications: Supernumerary, Impacted Upper Right Central & Cyst  
Treatment: Expansion, Hawley with Steel Ligature Wire |

### DISC #2

| 2.10 | Patient: Mat 8 yrs  
Classification: Class I  
Complications: Supernumerary, Impacted Upper Left Central and Lateral  
Treatment: Expansion, Hawley with Steel Ligature Wire |
| 2.11 | Patient: Donna 11 yrs  
Classification: Class II  
Treatment: 2x4 Mechanics, Mx Sagittal, Bionator, 2nd Molar Replacement |
| 2.12 | Pearl: Eruption of Wisdom Teeth – Twins Study – 14 yrs |
| 2.13 | Patient: Lori 10 yrs 10 mths  
Classification: Class I Crowded  
Treatment: Md 2x4 Mechanics, Mx Sagittal, Bionator, 2nd Molar Replacement |
| 2.14 | Patient: Allison 6 yrs 5 mths  
Classification: Class II – Severe  
Treatment: Bionator |
| 2.15 | Patient: Alan 14 yrs  
Classification: Class I Crowded  
Treatment: 2nd Molar Replacement, Mx&amp;Md Sagittals, Straightwire |
| 2.16 | Patient: Jennifer 14 yrs 9 mths  
Classification: Class I Crowded  
Treatment: 2nd Molar Replacement, Mx Sagittal, Md Jackson, Hawley, Tooth Positioner |
DISC #2

2.17 Patient: Billy 11 years 11 mths
Classification: Class II
Complication: Blocked out cuspids
Treatment: Mx Sagittal, Md Utility Arch, BioFinisher, Straightwire

2.18 Patient: Kim 14 yrs 8 mths
Classification: Class I Crowded
Complication: Congenitally missing lower right wisdom tooth
Treatment: Rapid Palatal Expansion, 2nd Molar Replacement in Three Quadrants, Facemask, Straightwire, Bionator

2.19 Pearl: Construction Bite for a Bionator

2.20 Patient: Jade 7 yrs 6 mths
Classification: Class I - Open Bite
Complication: Tongue Thrust
Treatment: Bionator II, Md Lip Bumper

2.21 Patient: Erica 8 yrs 3 mths
Classification: Class I
Treatment: Mx Sagittal, Bionator to Close, Mx Utility Arch, Straightwire, 2nd Molar Replacement

2.22 Patient: Amy 9 yrs
Classification: Class II
Treatment: Lower Lingual Arch, Mx Schwartz, Mx Sagittal, 2nd Molar Replacement, Straightwire, Bionator

DISC #2 - DISC #3

2.23 Patient: Stephanie 8 yrs 5 mths
Classification: Class I
Complication: Open Bite
Treatment: Rapid Palatal Expansion, Hawley, 2nd Molar Replacement (Surgical technique)

2.24 Pearl: Spontaneous Eruption of Wisdom Teeth following 2nd Molar Replacement
Treatment - 3 Case Studies

--- DISC #3 ---

3.01 Patient: Alicia 4 yrs 7 mths
Classification: Class III
Complication: Tongue Thrust
Treatment: Rapid Palatal Expansion, Reverse Head Gear

3.02 Patient: Hillary 11 yrs 8 mths
Classification: Class III
Complication: Requires future Md Surgery
Treatment: Reverse Head Gear, Straightwire

3.03 Patient: Rebecca 28 yrs 7 mths
Classification: Class III
Complications: TMJD, Missing Lower Right 1st Molar
Treatment: Mx Sagittal, Reverse Head Gear, Straightwire, BioFinisher, Wisdom Tooth Removal

3.04 Pearl: How does Vertical Dimension effect A-Point?
3.05 Patient: Nick 30 yrs  
Classification: Class III  
Complication: Wore reverse head gear faithfully and created 8mm overjet and class II malocclusion (Dramatic Changes)  
Treatment: Straightwire, Reverse Head Gear

3.06 Patient: Trevor 8 yrs 5 mths  
Classification: Class III  
Complication: Laterals in Crossbite  
Treatment: Hyrax, Reverse Head Gear, Lip Bumper

3.07 Patient: Marcus 11 yrs 5 mths  
Classification: Class I Crowded – Class III Tendency  
Treatment: Mx Sagittals, Reverse Head Gear, Future Wisdom Tooth Removal

3.08 Patient: Cathy 5 yrs 5 mths  
Classification: Class III  
Treatment: Mx Sagittal with Labial Flange, Reverse Head Gear, Assisted Guidance of Md

3.09 Pearl: Reverse Head Gear & Elastic Forces

3.10 Pearl: Merle’s Philosophy of Orthodontics

3.11 Patient: Kinseth 11 yrs 4 mths  
Classification: Class I Crowded  
Treatment: Mx & Md Sagittals, 2nd Molar Replacement, Straightwire

3.12 Pearl: Effects of Sagittal Treatment combined with Timing of 2nd Molar Replacement

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3.13 Patient: Kris 11 yrs 3 mths  
Classification: Class II Half Tooth  
Complication: Open Bite  
Treatment: Lower Lingual Holding Arch, 2nd Molar Replacement

3.14 Pearl: Surgical Technique for 2nd Molar Removal

3.15 Pearl: 2nd molar roots are many times inferior to 3rd molar roots.

3.16 Patient: Tami 13 yrs 10 mths  
Classification: Class I Crowded  
Complication: Compromise Treatment  
Treatment: Mx Sagittals, 2nd Molar Replacement

3.17 Patient: Lisa 12 yrs 10 mths  
Classification: Class I Crowded  
Complication: Compromise Treatment  
Treatment: 2nd Molar Replacement, Mx Sagittal, Straightwire, Bionator

3.18 Pearl: Caution regarding removal of a retained deciduous tooth: Hemangioma

3.19 Pearl: Distalization of 1st Molars following 2nd Molar Replacement

3.20 Pearl: 2nd Molar Removal vs. Bicuspid Removal

3.21 Patient: Gina 10 yrs 8 mths  
Classification: Class I Crowded  
Complication: TMJD, Deep Bite  
Treatment: Mx Sagittal, Straightwire, Bionator, Future 2nd Molar Replacement
3.22 Patient: Ruth 12 yrs 4 mths  
Classification: Class I Crowded  
Treatment: Mx Sagittal, Md 2nd Molar Replacement, Straightwire, Mx 2nd Molar Replacement

3.23 Patient: Stephanie 17 yrs 8 mths  
Classification: Class I Crowded  
Complication: Patient did not return for completion of treatment  
Treatment: Right Quadrant 2nd Molar Replacement

3.24 Pearl: Decayed 2nd Molars

3.25 Patient: Bobby 14 yrs 2 mths  
Classification: Class II  
Treatment: BioFinisher, Bionator, 2nd Molar Replacement

3.26 Patient: Annette 10 yrs 8 mths  
Classification: Class II  
Treatment: 2nd Molar Replacement, Mx Sagittal, Bionator to Open, Bionator to Close

3.27 Pearl: Effects of the Herbst Appliance

3.28 Patient: Jackie 13 yrs 2 mths  
Classification: Class III  
Complication: Received prior orthodontic treatment with a Dual Block  
Treatment: Mx Split Hawley, Md Fixed, Reverse Head Gear, Md 2nd Molar Replacement

3.29 Pearl: Uprighting of Impacted 3rd Molars

3.30 Pearl: Long-term Results following 2nd Molar Replacement

--- DISC #4 ---

3.31 Patient: Mike 10 yrs  
Classification: Class II  
Complication: Mouth Breather  
Treatment: Chin Cup, Removal of Deciduous Anterior Teeth, Mx Split Hawley, 2x4 Mechanics, Reverse Head Gear, Straightwire

3.32 Pearl: Facemask Designs

3.33 Patient: Melissa 9 yrs 8 mths  
Classification: Class II  
Complications: Medical Complications and Strong Md Frenum  
Treatment: Schwartz, Reverse Head Gear, Twin Block

3.34 Patient: Valerie 8 yrs 11 mths  
Classification: Class II  
Treatment: Twin Block

3.35 Patient: Emily 7 yrs 3 mths (Continued on Disc 4)  
Classification: Class II  
Complication: Fractured Both Condyles  
Treatment: Mx Sagittal & Twin Block

--- DISC #4 ---

4.01 Patient: J.D. 13 yrs  
Classification: Class II  
Complications: Poor Enamel, Congenitally missing lower centrals  
Treatment: Bionator
<table>
<thead>
<tr>
<th>DISC #4</th>
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</thead>
<tbody>
<tr>
<td>4.02 Patient: Chrissie 11 yrs 4 mths</td>
</tr>
<tr>
<td>Classification: Class II</td>
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<tr>
<td>Complications: Congenitally missing lower laterals, Peg Upper right lateral</td>
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<tr>
<td>Treatment: Orthopedic Corrector, Twin Block</td>
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<tr>
<td>4.03 Pearl: Comparison between the Twin Block &amp; Bionator</td>
</tr>
<tr>
<td>4.04 Patient: Curtis 13 yrs</td>
</tr>
<tr>
<td>Classification: Class II Deep Bite</td>
</tr>
<tr>
<td>Complication: Handicapped/Seizures</td>
</tr>
<tr>
<td>Treatment: Bionator, Removal of deciduous molars, Twin Block</td>
</tr>
<tr>
<td>4.05 Patient: Katie 13 yrs 7 mths</td>
</tr>
<tr>
<td>Classification: Class II</td>
</tr>
<tr>
<td>Complications: TMJD, Congenitally missing Mx lateral, Md central, Peg Md lateral</td>
</tr>
<tr>
<td>Treatment: Straightwire &amp; Bionator</td>
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<tr>
<td>4.06 Patient: Michael 14 yrs 6 mths</td>
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<tr>
<td>Classification: Class I</td>
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<tr>
<td>Complication: Arrived with four cuspids removed</td>
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<tr>
<td>Treatment: 2nd Molar Replacement, Straightwire, Wisdom Tooth Removal</td>
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<tr>
<td>4.07 Patient: Jon 10 yrs 2 mths</td>
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<tr>
<td>Classification: Class I</td>
</tr>
<tr>
<td>Treatment: 2nd Molar Replacement, Mx Sagittal, Md Straightwire</td>
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<tr>
<td>4.08 Pearl: Mandibular Cyst</td>
</tr>
<tr>
<td>4.09 Patient: Kevin 18 yrs 1 mth</td>
</tr>
<tr>
<td>Classification: Class I</td>
</tr>
<tr>
<td>Complication: Prior 2nd Molar Replacement – Lower left wisdom tooth impacted</td>
</tr>
<tr>
<td>Treatment: Surgical uprighting of wisdom tooth</td>
</tr>
<tr>
<td>4.10 Patient: Carl 16 yrs 8 mths</td>
</tr>
<tr>
<td>Classification: Class III</td>
</tr>
<tr>
<td>Complication: Prior case finished in Class I. Patient’s mandibular arch grew resulting in Class III</td>
</tr>
<tr>
<td>Treatment: Lower 1st molar removal to allow 2nd molars to move mesial, Md Straightwire, Retraction of bicuspids</td>
</tr>
<tr>
<td>4.11 Patient: Francisca 34 yrs (Remarkable Changes)</td>
</tr>
<tr>
<td>Classification: Class II</td>
</tr>
<tr>
<td>Complication: Severe TMJD</td>
</tr>
<tr>
<td>Treatment: Splint, Bionator, surgery of coronoid process, removal of left disk and right disk arthroplasty.</td>
</tr>
<tr>
<td>4.12 Patient: Lisa 10 yrs 3 mths</td>
</tr>
<tr>
<td>Classification: Class II</td>
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<tr>
<td>Complication: TMJD</td>
</tr>
<tr>
<td>Treatment: Sagittal, Bionator, Straightwire, Surgical removal of Coronoid Process</td>
</tr>
<tr>
<td>4.13 Patient: Gina 8 yrs 6 mths</td>
</tr>
<tr>
<td>Classification: Class II Division II</td>
</tr>
<tr>
<td>Complication: TMJD</td>
</tr>
<tr>
<td>Treatment: Hawley, Bionator</td>
</tr>
<tr>
<td>Patient: Robin 8 yrs 7 mths</td>
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<td>--------------------------------</td>
</tr>
<tr>
<td>Classification: Class II</td>
</tr>
<tr>
<td>Complication: Congenitally missing numerous teeth, peg teeth</td>
</tr>
<tr>
<td>Treatment: Twin Block</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Patient: Jessica 11 yrs 4 mths</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classification: Class I</td>
</tr>
<tr>
<td>Complication: Congenitally missing 23 teeth</td>
</tr>
<tr>
<td>Treatment: Transverse development, Reverse Head Gear</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Patient: Denise 36 yrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classification: Class II</td>
</tr>
<tr>
<td>Complications: TMJD, U/R 2nd Bicuspid Removed</td>
</tr>
<tr>
<td>Treatment: Remove Md 1st Bicuspsids, Mx Sagittal, Straightwire, Reverse Head Gear, Air Rotor Slenderizing</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Patient: Diane 17 yrs 6 mths</th>
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</thead>
<tbody>
<tr>
<td>Classification: Class III</td>
</tr>
<tr>
<td>Complication: Requires Orthognathic Surgery</td>
</tr>
<tr>
<td>Treatment: Straightwire, Md Surgical Advancement</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Patient: Kyle 13 yrs 6 mths</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classification: Class I (Class III Skeletal)</td>
</tr>
<tr>
<td>Complication: Slightly blocked out Cuspsids</td>
</tr>
<tr>
<td>Treatment: Mx Sagittal, Reverse Head Gear, Straightwire</td>
</tr>
</tbody>
</table>

| Pearl: Mandibular Growth Direction |

<table>
<thead>
<tr>
<th>Patient: Craig 11 yrs 10 mths</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classification: Class III</td>
</tr>
<tr>
<td>Treatment: Mx Sagittal, Reverse Head Gear, Straightwire</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Patient: Katie 7 yrs 4 mths</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classification: Class III</td>
</tr>
<tr>
<td>Treatment: Rapid Palatal Expansion, Reverse Head Gear</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Patient: Charlie 9 yrs 7 mths</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classification: Class III</td>
</tr>
<tr>
<td>Treatment: Rapid Palatal Expansion, Reverse Head Gear, Mx Sagittal, Mx Straightwire, 2nd Molar Replacement, Frankel III</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Patient: Amy 9 yrs 9 mths</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classification: Class II Division II – Skeletal Class III</td>
</tr>
<tr>
<td>Complication: Congenitally missing lower 2nd Bicuspsids</td>
</tr>
<tr>
<td>Treatment: Mx Sagittal, Reverse Head Gear, Mx 2x4 Mechanics, 2nd Molar Replacement</td>
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</tbody>
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| Pearl: Fathers of Functional Orthopedics: Drs. Frankel, Stockfish, Planas, Bimler and Petrovic |

<table>
<thead>
<tr>
<th>Patient: Julie 17 yrs 3 mths</th>
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<tbody>
<tr>
<td>Classification: Class III</td>
</tr>
<tr>
<td>Complication: Open Bite, Large Tongue</td>
</tr>
<tr>
<td>Treatment: Mx 2nd Molar Replacement, Md 1st Molar Replacement, Mx Sagittal, Reverse Head Gear, Straightwire, Bionator</td>
</tr>
</tbody>
</table>
4.26 Patient: Angela 16 yrs 9 mths  
Classification: Class III  
Complications: TMJD & Open Bite  
Treatment: Rapid Palatal Expansion, Reverse Head Gear, Mx Sagittal, Straightwire, Md 1st Molar Replacement, Mx 2nd Molar Replacement, Frankel III

4.27 Patient: Rob 14 yrs 6 mths  
Classification: Class III  
Complication: TMJD  
Treatment: Sagittal, Reverse Head Gear, Utility Arch, Straightwire

4.28 Pearl: Wits Analysis

4.29 Pearl: Healthy Temporomandibular Joint Position

4.30 Patient: Ray 41 yrs  
Classification: Class II – Closed Bite  
Complication: TMJD  
Treatment: Mx Sagittal, Straightwire, Bionator

4.31 Patient: Heather 19 yrs 3 mths  
Classification: Class II  
Complication: TMJD Post Orthodontic Treatment by a Specialist  
Treatment: 2nd Molar Removal, Mx Schwartz, Md Sagittal, Straightwire

4.32 Patient: Daniel 19 yrs 3 mths  
Classification: Class II  
Complications: TMJD, Compromised Enamel, Prior treatment by Orthodontist & Oral Surgeon  
Treatment: Rapid Palatal Expansion, Orthopedic Corrector, Jackson Appliance

4.33 Pearl: Dr. Donald Woodside, Orthodontist, University of Toronto

4.34 Patient: Kate 31 yrs  
Classification: Class II  
Complication: TMJD  
Treatment: BioFinisher

4.35 Patient: Lori 23 yrs 6 mths  
Classification: Class II Division I  
Complications: Had four bicusps removed early in life, TMJD  
Treatment: Twin Block

4.36 Patient: Jana 34 yrs  
Classification: Class II Division II  
Complication: TMJD, Prior removal of all four 2nd bicusps  
Treatment: Mx Sagittal, Md Gelb Splint, Mx Fixed, BioFinisher

4.37 Patient: Vickie 37 yrs  
Classification: Class I  
Complication: TMJD, L/R 1st molar and U/L 1st molar removed  
Treatment: Mx Sagittal

4.38 Pearl: Research on Condylar Change
“MERLE’S PEARLS”
Presented by Dr. Merle D. Bean
Pediatric Dentist
12 Hour Video Presentation Order Form

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