

MINOR TOOTH MOVEMENT

FOR THE ADVANCED GENERAL PRACTITIONER

by **DR. MARTIN B. EPSTEIN**



INTRODUCTORY COURSE

MAY 10-11, 2024 4 NEW COURSES

COURSE TOPICS

1. Self-Ligation Treatment for Today and the Future
2. Advances in Treatment Approaches for Class II, Class III, Vertical Open Bites and Missing Laterals
3. Clear Removable Appliances
4. New Ideas in Early Interceptive Treatment

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 - Course objectives
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COURSE DIRECTOR



DR. MARTIN B. EPSTEIN

Former Clinical Associate Professor, Department of Orthodontics
Post-Graduate Division, New York University College of Dentistry
Diplomate of the American Board of Orthodontics
Teacher of the Year Award – NYU College of Dentistry, Postgraduate Orthodontics
Presented courses and seminars extensively in Europe, Asia and South America
Written numerous articles in American and International Orthodontic publications
American Dental Association Certificate of Recognition – for volunteer service in a foreign country
Manuscript Review Committee: American Journal of Orthodontics and Dentofacial Orthopedics
Private practice of Orthodontics over 30 years

COURSE TOPICS

“How to be more successful in an era
of non-compliant patients”

1

**Self-Ligation
Treatment for
Today and the
Future**

May 10th, 2024
09:00-13:00

2

**Advances in Treatment
Approaches for Class II,
Class III, Vertical Open
Bites and Missing
Laterals**

May 10th, 2024
14:00-18:00

3

**Clear Removable
Appliances**

May 11th, 2024
09:00-13:00

4

**New Ideas in Early
Interceptive
Treatment**

May 11th, 2024
14:00-18:00

INTRODUCTORY LECTURE COURSE

Self-Ligation Treatment for Today and the Future

COURSE CONTENT

New ideas in treatment with self ligating brackets

New and improved bonding techniques for 100% success

New bonding agents

Current ideas on slot size for better results

The 3 archwire technique



This is part of a larger 2-year hands-on course offered by Merimna Institute. The complete course is with lectures and typodonts.

- Complete and thorough case explanations
- Each step discussed and shown in detail
- Class participation and inter-active thinking
- Diagnosis and treatment planning of actual cases from your own offices and we will follow their progress during the 2 years of the course.

Samples from previous courses

1st COURSE Self-Ligation Treatment for Today and the Future

Pre-Finishing: An Artform

2nd ARCHWIRES:
U .020 x .020 Bioforce

3rd ARCHWIRES:
U .018 x .025 SS

BONDED LOWER 2nd MOLARS
Lower left side debonded after alignment

2nd ARCHWIRES:
L .020 x .020 Bioforce

3rd ARCHWIRES: [options]
L .017 x .025 TMA [for 7's]

PRE FINISH

WHAT DID I MISS ?

Results: the PROOF

RESULTS

REMEMBER

"ATTENTION TO DETAIL"

IDEAL BRACKET POSITION

FINAL

WHAT DID I MISS ?

IDEAL ARCHFORM

Samples from previous courses

1st COURSE Self-Ligation Treatment for Today and the Future

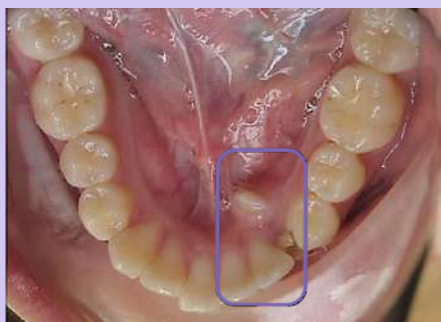
Self Ligation: More "Efficient" Time



Ease of treatment with severe or "supper-rotations"

INDIVIDUAL TEETH

CANINE LINGUALLY DISPLACED
WITH NO SPACE



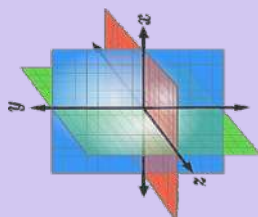
LIGHT FORCE DELIVERY
Initial bonding of canine
ACTIVE COIL OPENED SPACE



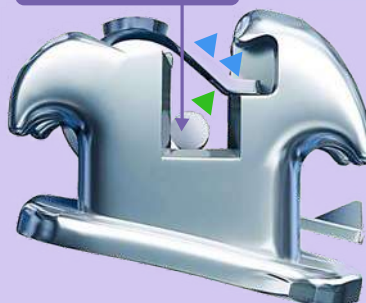
IMPROVED CANINE POSITION
2 visits [16 weeks]



3 PLANES OF "FREEDOM"



Active Clip Mechanism



Simple Mechanism

Samples from previous courses

1st COURSE Self-Ligation Treatment for Today and the Future

Ease of treatment with severe or "supper-rotations"

INDIVIDUAL TEETH

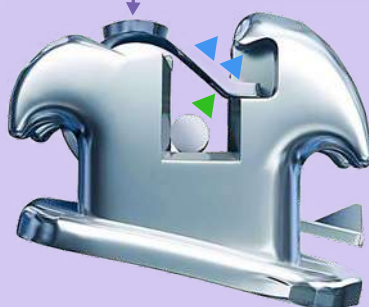
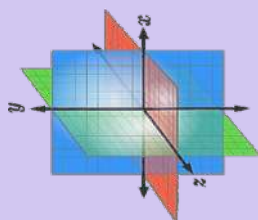
LIGHT FORCE DELIVERY
Lateral incisor directly behind canine
[after removal of supernumerary]

Can engage almost any tooth.....In any clinical situation
with simple treatment mechanics



Active Clip Mechanism

3 PLANES OF "FREEDOM"



Self Ligation: smaller wire sizes with lighter forces

INITIAL SET-UP



1 VISIT: 8 WEEKS



RECTANGULAR U/L SS

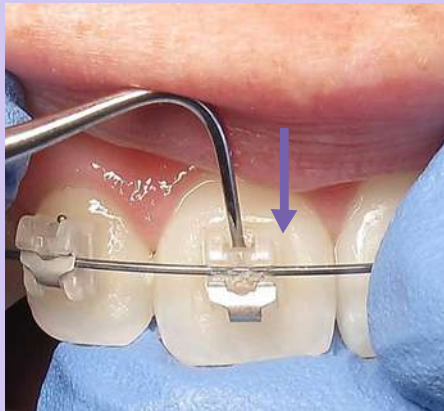


L A T E T X P R O G R E S S

Samples from previous courses

1st COURSE Self-Ligation Treatment for Today and the Future

Self Ligation: increased staff efficiency **ADVANTAGE**

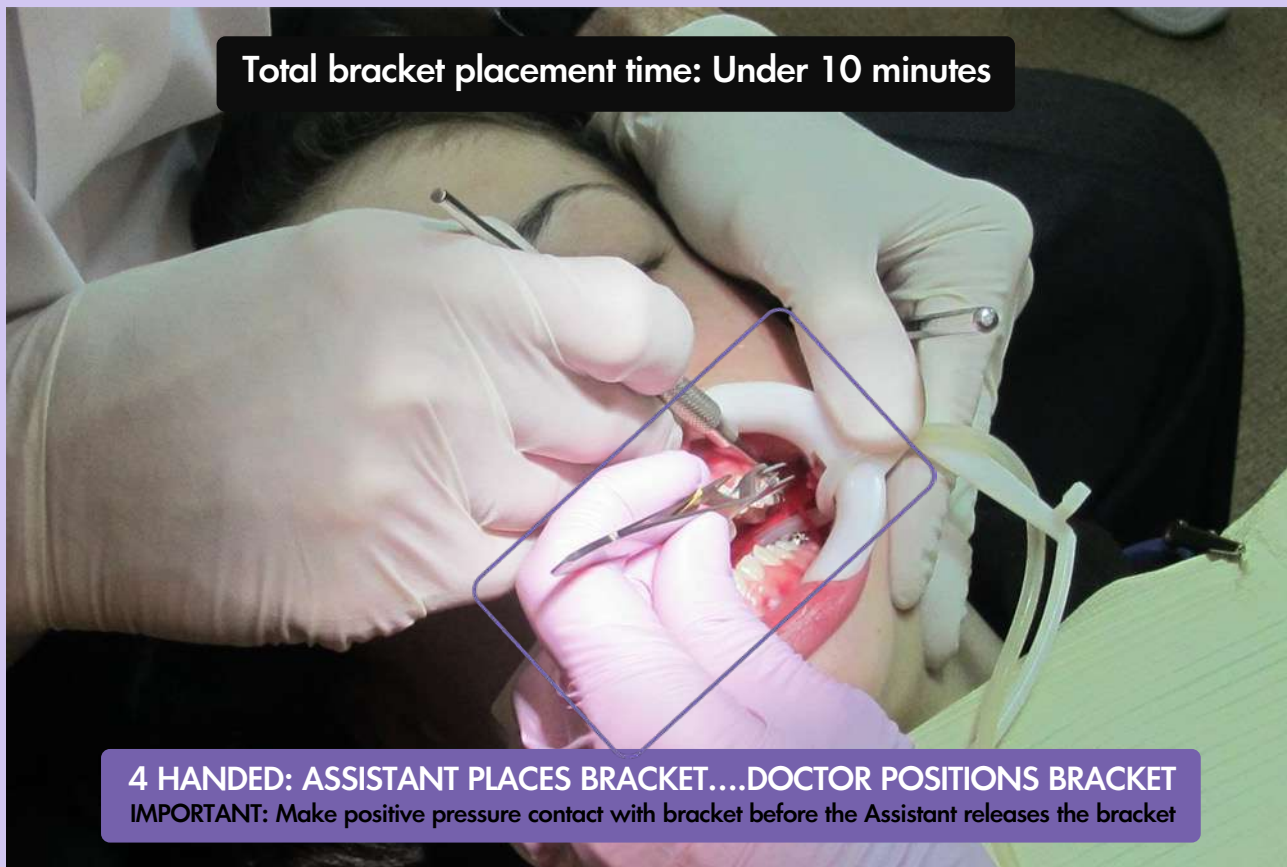


INSTRUMENTATION: EASY-TO-OPEN

Angulate ball from the gingival
Support the tooth from incisal and press
Clip slides OPEN

Full Technique with Nola Retractor and Bracketing

Total bracket placement time: Under 10 minutes



4 HANDED: ASSISTANT PLACES BRACKET....DOCTOR POSITIONS BRACKET
IMPORTANT: Make positive pressure contact with bracket before the Assistant releases the bracket

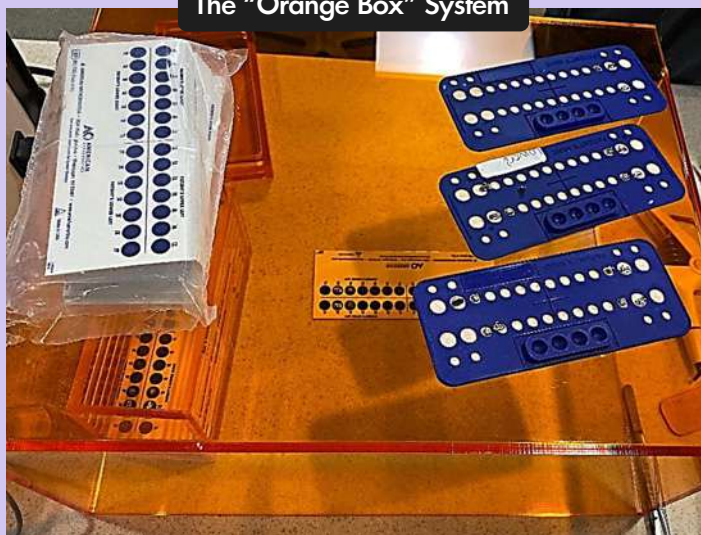
Samples from previous courses

1st COURSE Self-Ligation Treatment for Today and the Future

BONDING UPDATES



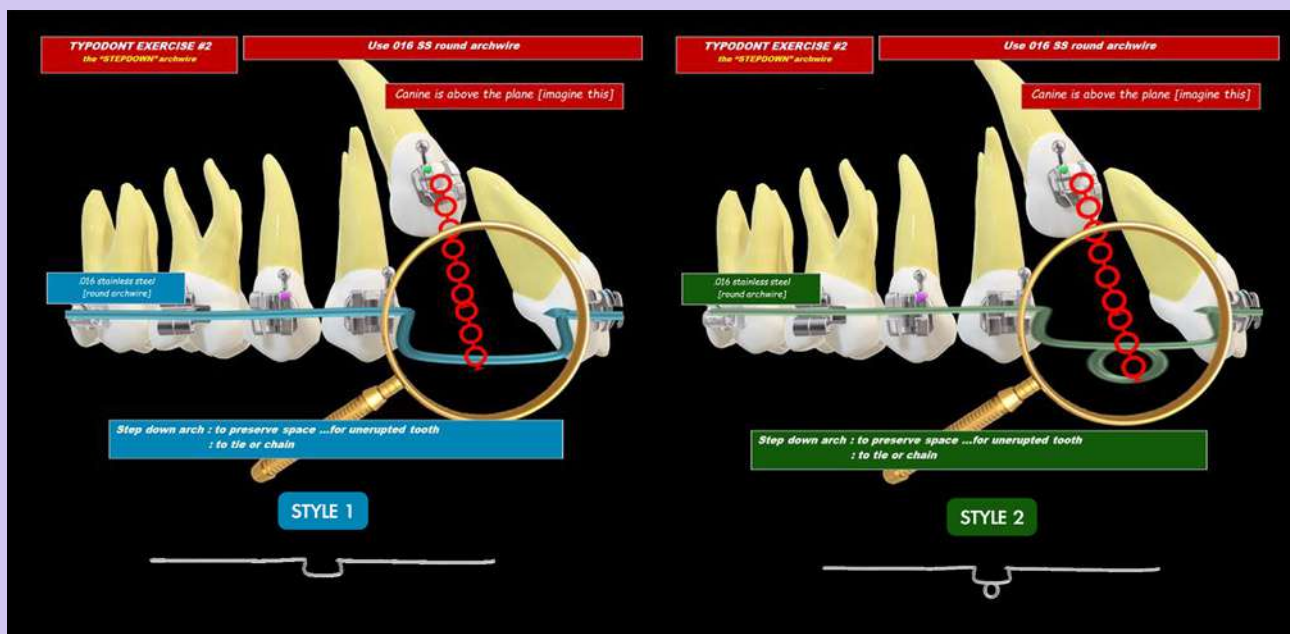
Preload the light-cured bonding resin to brackets
Up to 3-4 days in advance [NOT 1 WEEK]



Setup multiple sets of brackets
Up to 3-4 days in advance

TYPODONT EXERCISES

FOR MALPOSED TEETH [CANINES]

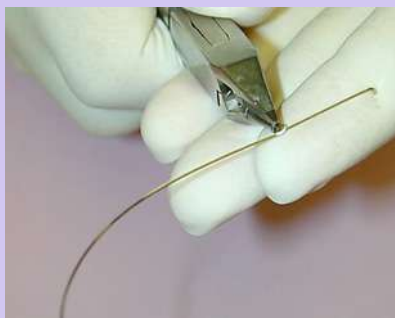
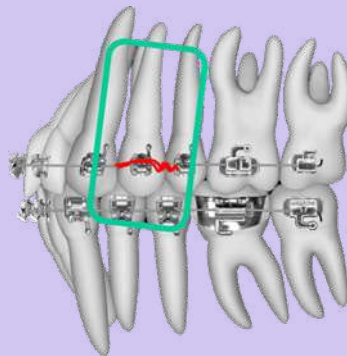


Samples from previous courses

1st COURSE Self-Ligation Treatment for Today and the Future

TYPODONT EXERCISES

WIRE BENDING
MODIFYING ARCHWIRES
ACTIVE & PASSIVE COIL



TYPODONT EXERCISE TOPICS

MODEL SET #2

1. Archwire placement



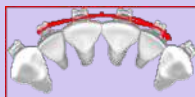
2. Archwire cinching



3. Steel ligature ties [single ties]



4. Steel figure 8 ties [2-2]



5. Power chain



6. Active coil



7. Passive coil



8. Crimpable stops

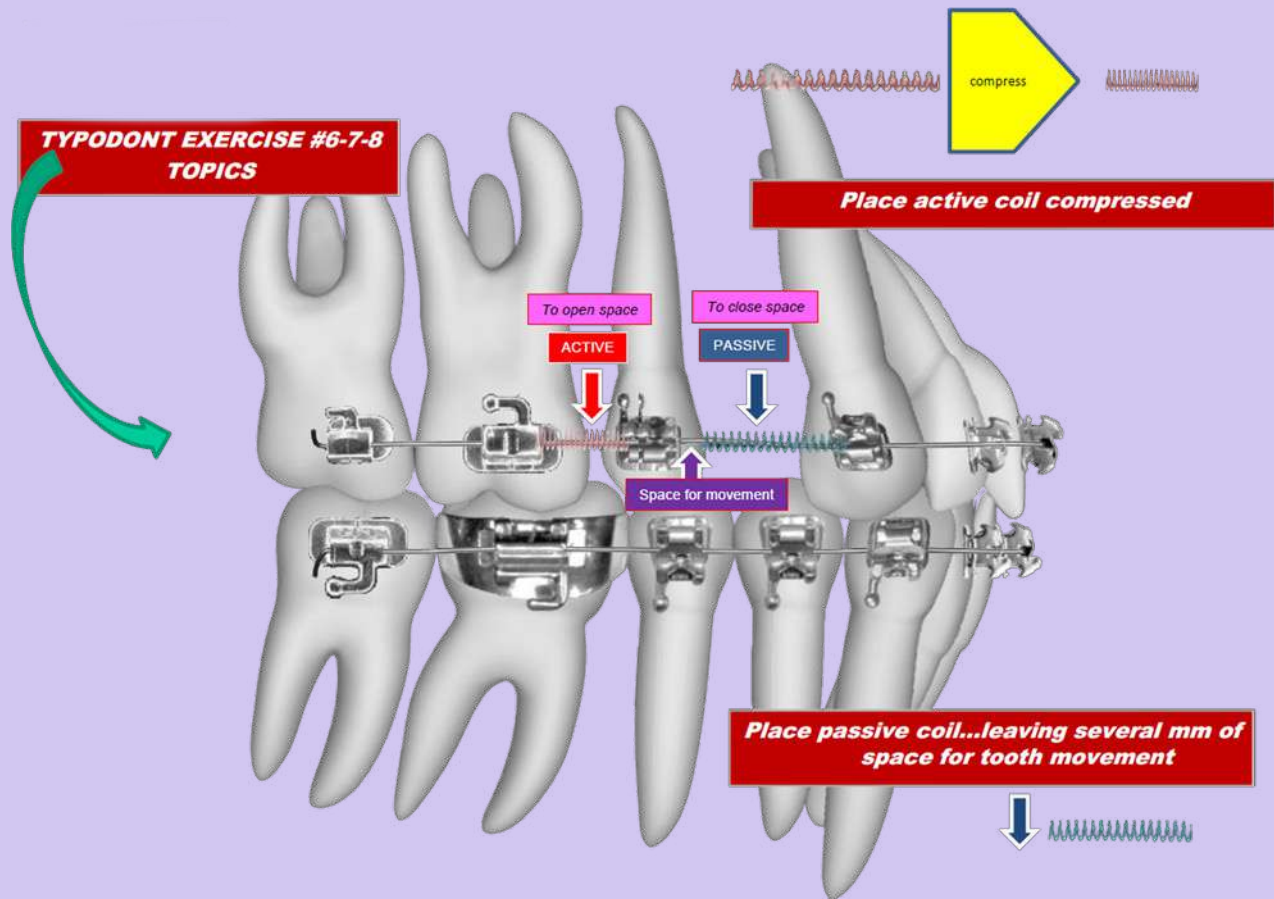


9. Archwire bends
[.018 SS] circles & loops



Samples from previous courses

1st COURSE Self-Ligation Treatment for Today and the Future



LECTURE COURSE

Advances in Treatment Approaches for Class II, Class III, Vertical Open Bites and Missing Laterals

COURSE CONTENT

CLASS II

Alternatives to Class II elastics
The most successful uses of Maxillary distalizing appliances
Is the Herbst Appliance still the choice for mandibular deficiencies
Easier and more compliant appliances for mandibular deficiencies

CLASS III

New treatment strategies that really work
Early intervention strategies
Surgery first approaches

VERTICAL OPEN BITES

How to solve these most difficult malocclusions

TREATMENT OF MISSING LATERAL INCISORS

Treatment planning: open or close the space for missing laterals
Proper strategy to create ideal implant spacing
How to fabricate esthetic pontics during treatment



This is part of a larger 2-year hands-on course offered by Merimna Institute. This is a course in advanced treatment knowledge.

- Advanced treatment approaches for Class II including distalization appliances.
- Advanced treatment approaches for Class III that really work and give great results.
- Class III early intervention methods besides and different from Face Masks.
- Vertical open bite treatment strategies
- How to treat congenitally missing upper lateral incisors
- When to close spaces for laterals and when to open spaces and how to make pontics that work easily with fixed appliances.

Samples from previous courses

2nd COURSE Advances in Treatment Approaches for Class II, Class III, Vertical Open Bites and Missing Laterals

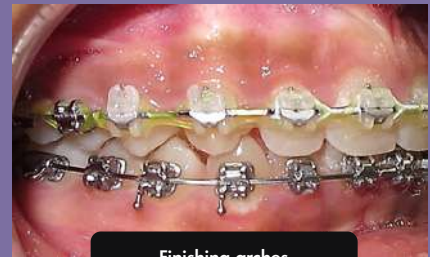
Class II correction with Carriere Appliance

Excessive overjet corrected

Deep bite corrected



Carriere added with elastics



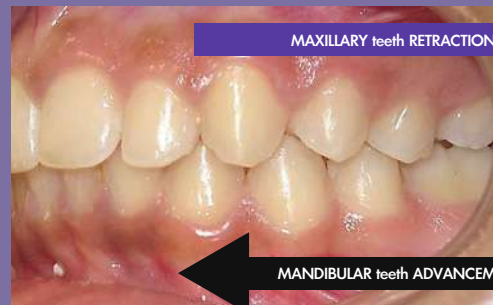
Finishing arches

RESULTS



MAXILLARY teeth RETRACTION

MANDIBULAR teeth ADVANCEMENT



MAXILLARY teeth RETRACTION

MANDIBULAR teeth ADVANCEMENT

Class II correction with maxillary molar distalization in a teenager WITH ALIGNER TX



Class II molar

Initial Class II



Class II molar

Initial Class II



Class I molar



Class II molar

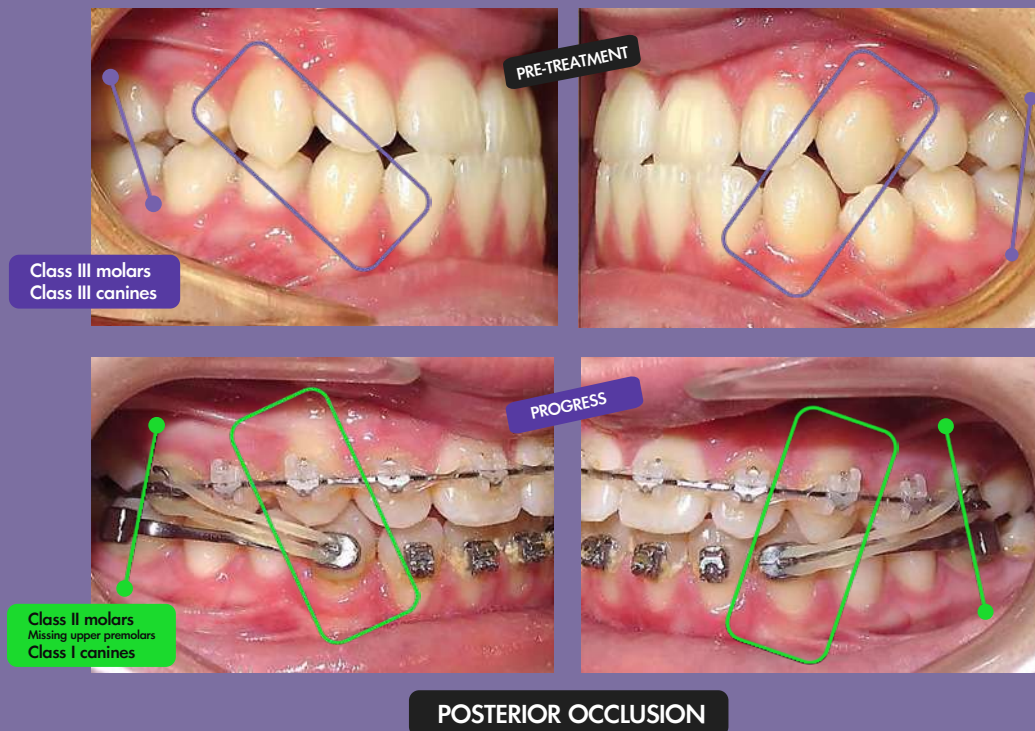
RESULTS

FINAL CLASS I OCCLUSION

Samples from previous courses

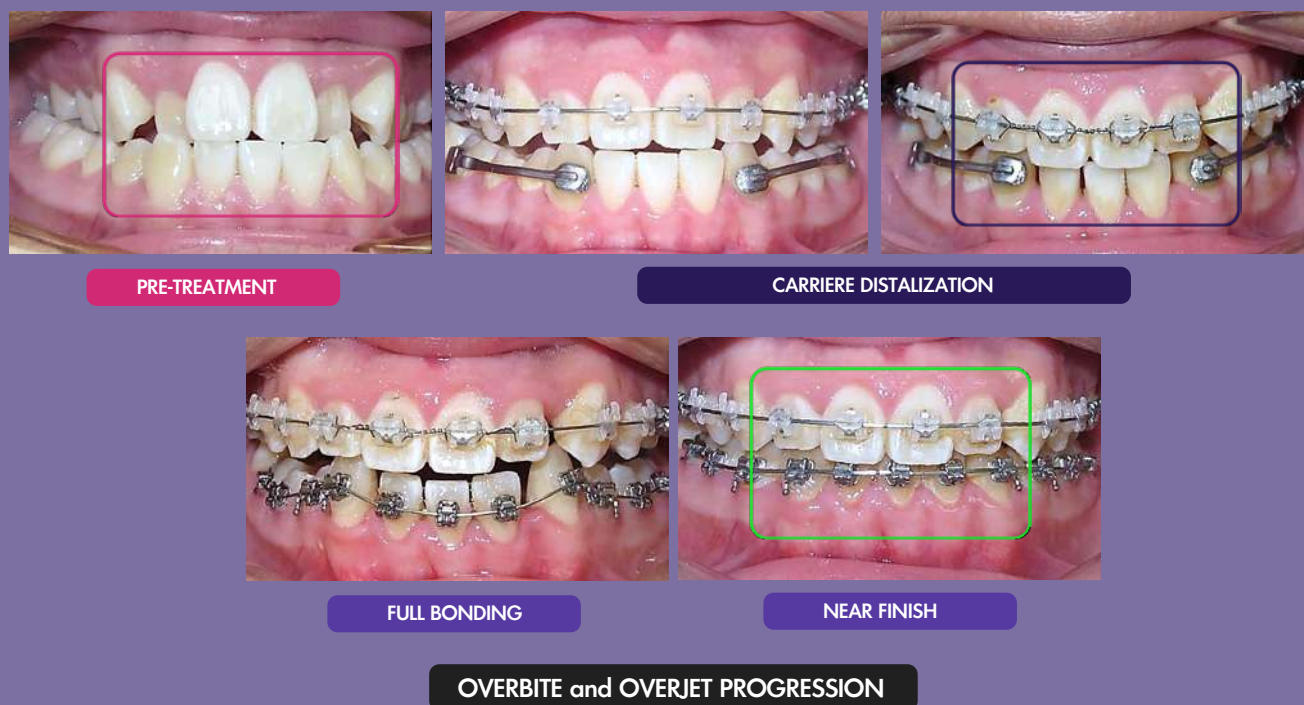
2nd COURSE Advances in Treatment Approaches for Class II, Class III, Vertical Open Bites and Missing Laterals

CASE #BP: "CLASS III " ...treatment with Carriere



CASE #AI: "CLASS III " ...treatment

POSITIVE OVERJET ESTABLISHED
POSITIVE VERTICAL OVERBITE ESTABLISHED



Samples from previous courses

2nd COURSE Advances in Treatment Approaches for Class II, Class III, Vertical Open Bites and Missing Laterals

CASE #DK: "CLASS III " ...treatment



AGE 13.9
4 MONTHS PROGRESS
ESTABLISHED POSITIVE OB/OJ
CLASS III CARRIERE APPLIANCE
with
CLASS III ELASTICS [6 oz ¼ FORCE 1]



Samples from previous courses

2nd COURSE Advances in Treatment Approaches for Class II, Class III, Vertical Open Bites and Missing Laterals

STRATEGIES:

4. Use auxiliary appliances [tongue loops, tongue tamers, TPA, RPE]



Initial bonding with lower tongue loops



12 months-tongue loops still present



17 months lower tongue loops ready to remove



22 months open bite fully closed



Auxiliary Appliance: Lower lingual bar with tongue loops



Samples from previous courses

2nd COURSE Advances in Treatment Approaches for Class II, Class III, Vertical Open Bites and Missing Laterals

Class III : with SEVERE anterior openbite



PRE-TREATMENT



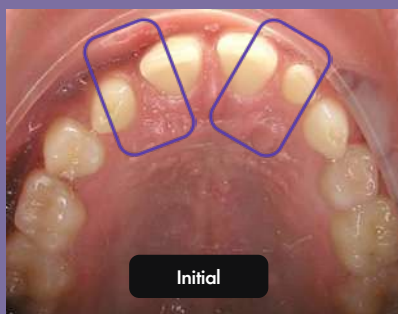
MID-TREATMENT



POST-TREATMENT

Treatment Progress: Agenesis of both upper lateral incisors

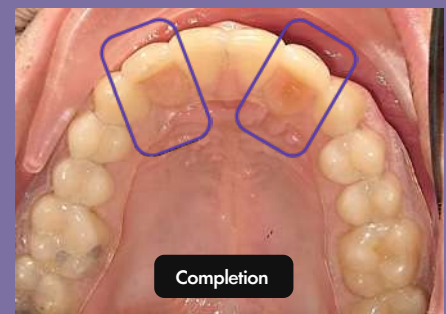
Upper arch with no crowding and spacing



Agenesis Both Upper Laterals



Spaces Opened & Pontics Placed



Retainers Placed with Pontics



Samples from previous courses

2nd COURSE Advances in Treatment Approaches for Class II, Class III, Vertical Open Bites and Missing Laterals

Class II [Type C] Mandibular Retrognathia, Mandibular Procumbency

Upper arch with no crowding and spacing



PRIOR TO TREATMENT



PONTICS PLACED



RETAINERS PLACED



Female Adolescent Time Line



PRE-TREATMENT
Usually age 11-13

GROWTH



APLASIA TREATMENT
Usually completed age 13-14

GROWTH
COMPLETED



IMPLANT PLACEMENT
Growth completed age 16-18

Treatment

2 Years ?

Samples from previous courses

2nd COURSE Advances in Treatment Approaches for Class II, Class III, Vertical Open Bites and Missing Laterals

CLINICAL KEY POINTS for ideal interim retention



AT PRE-FINISH VISIT
Remove pontics
Take impression for retainer [or scan]
Put pontics back into arch
To have ready for deband



AT DEBAND VISIT
Remove fixed appliances
Send the 2 treatment pontics to lab
Will make a clear retainer using
same pontics



Deliver the Hawley style retainer
No labial bow
Use 3-3 elastic

Treatment FINISH: Agensis of both mx lateral incisors

Treatment Options: Canine substitution

Which bracket to use ?



SEVERAL EXCELLENT CHOICES:

CORRECT CHOICES:

- Use same side canine flipped upside down [remove hook]

Good crown adaptation, increased root torque [+7]

- Use opposite side lower 2nd premolar flipped
upside down [remove hook]

Good crown adaptation, increased root torque [+17]



LECTURE COURSE

Clear Removable Aligners for *** Total Treatment

COURSE CONTENT

Case selection and strategy for adolescent treatment

Class II and Class III treatment

Treatment of open and deep bites

Interdisciplinary cases with pontics

Combination treatment using fixed appliances and clear removable appliances together



This is part of a larger 2-year hands-on course offered by Merimna Institute. This is a course in advanced treatment knowledge.

- Case selection and strategy for Adolescent treatment..Teenager Treatment
- Class II and Class III correction with clear Aligners
- Treatment of Open and Deep bites with Clear Aligners
- Interdisciplinary Treatment with implants and pontics
- Combined treatment with fixed braces and clear removable aligner
- Options for making your own aligners and pontics in your office

*****THESE ARE DIFFERENT TOPICS AND CASES NOT SHOWN IN
THE MAY 2024 COURSE AT MERIMNA INSTITUTE.**

Samples from previous courses

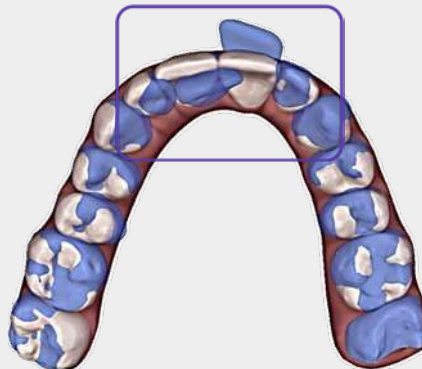
3rd COURSE Clear Removable Aligners for Total Treatment

SEVERE CROWDING NON-EXTRACTION: RESULTS and Superimposition



SUPERIMPOSITION OF MOVEMENT
Widen buccal corridors
Advance lower incisors
BLUE IS FINAL

SEVERE CROWDING NON-EXTRACTION: Use of IPR



SUPERIMPOSITION
White is final



Samples from previous courses

3rd COURSE Clear Removable Aligners for Total Treatment

CAT: Clear Aligner Treatment

BONDING ATTACHMENTS



IPR



DOCTOR TIME



ASSISTANT TIME

Doctor starts IPR with metal polishing strips

Every case is different

Sometimes we start on the initial visit...ALL PLANNED IN CLINCHECK

CLASS III: INVISALIGN correction with IPR [in the lower arch]



INITIAL CLASS III



REFINEMENT



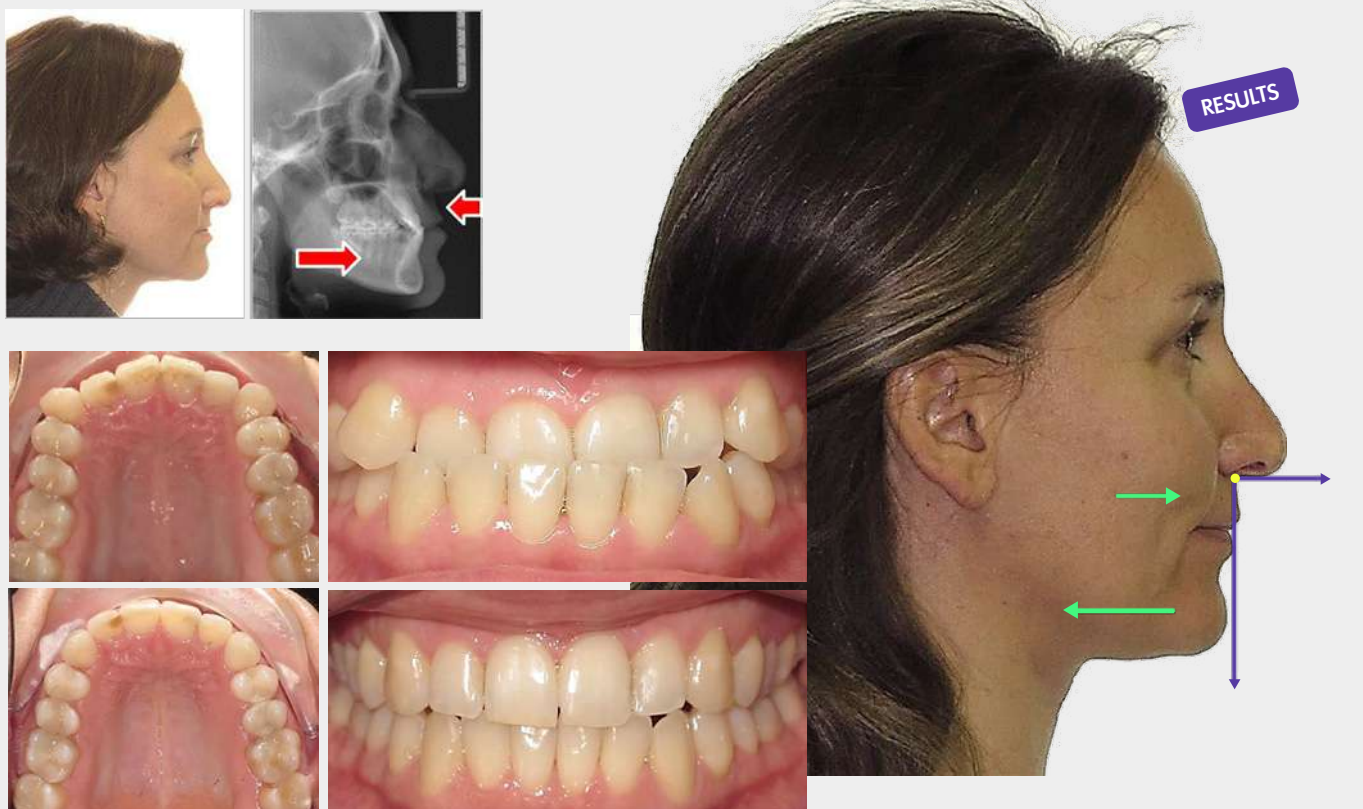
RESULTS

Class III with prognathic mandible, mild maxillary retrognathia, poor upper alignment, complete anterior crossbite

Samples from previous courses

3rd COURSE Clear Removable Aligners for Total Treatment

CLASS III: INVISALIGN correction with IPR [in the lower arch]



Class III with prognathic mandible, mild maxillary retrognathia, poor upper alignment, complete anterior crossbite.

OPENBITE CORRECTION: Severe with molar occlusion only

THE WOW: BITE BLOCK EFFECT



Refinement stage.....bite closure almost ideal



Samples from previous courses

3rd COURSE Clear Removable Aligners for Total Treatment

OPENBITE CORRECTION: Severe with molar occlusion only



THE SUPER-WOW...
Space closure from extractions and retraction of upper anteriors and continued open bite closure.



REFINEMENT



DRAMATIC PROGRESS after 62 aligners

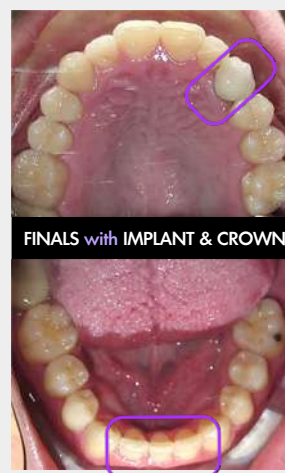
INTERDISCIPLINARY TX: Create ideal spacing for canine implant.



INITIAL



ALIGNERS



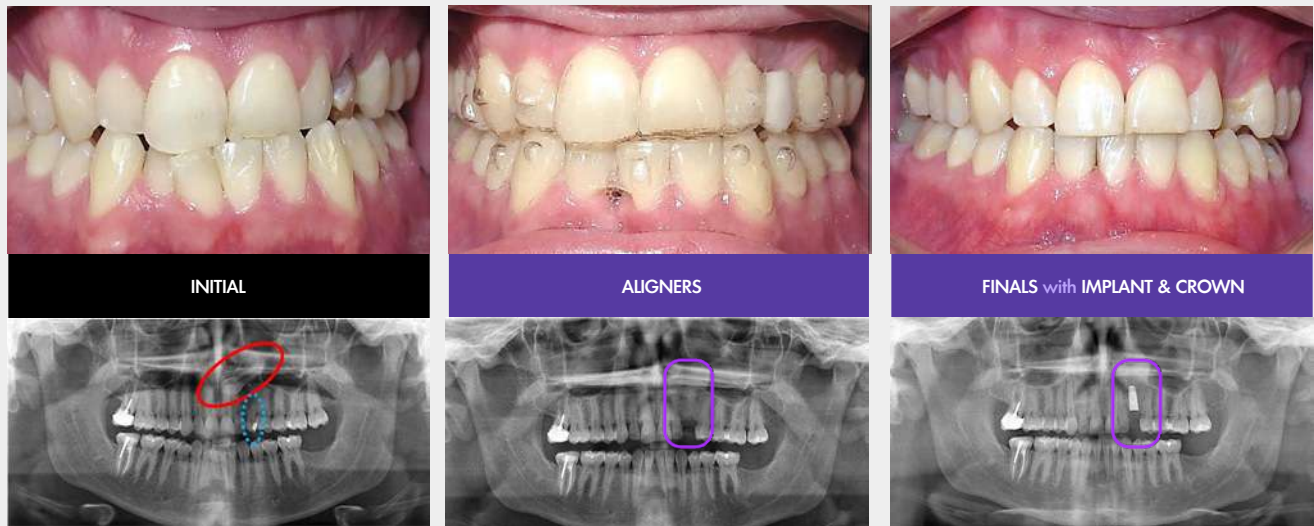
FINALS with IMPLANT & CROWN

OCCLUSAL VIEWS: eliminated lower crowding, corrected Class III, provided space for ideal OB/OJ

Samples from previous courses

3rd COURSE Clear Removable Aligners for Total Treatment

INTERDISCIPLINARY TX: create ideal spacing for canine implant



FRONTAL VIEW: eliminated lower crowding, corrected Class III, provided space for ideal OB/OJ



MISSING UPPER RT CENTRAL INCISOR & now requires extraction of other central incisor: will require implants and transitional restorations



Samples from previous courses

3rd COURSE Clear Removable Aligners for Total Treatment

Treatment Progress: frontal view

Agenesis of both upper lateral incisors with considerable movement required



INITIAL: Missing BOTH upper laterals
In different positions



Attachments and Class II buttons



FINAL alignment



Clear retainers with pontics

LECTURE COURSE

New Ideas in Early Interceptive Treatment

COURSE CONTENT

PALATAL EXPANSION

The use of laser sintered expanders
Elimination of separators and fitting of bands

CLASS III

Alternatives to the Face Mask

VERTICAL OPEN BITES

Alternatives to the "dreaded" tongue loops

CLEAR REMOVABLE ALIGNERS

Do they have a place in early treatment

How to treat younger patients with less compliance and easier to use appliances



This is part of a larger 2-year hands-on course offered by Merimna Institute. This course focuses on patients in the mixed dentition. Ideal for Pediatric Dentists to attend

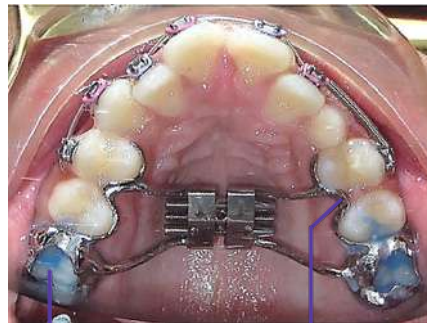
- The new and very patient friendly expander: The Laser Sintered Expanders
- Class III new approaches to eliminate Face Masks and difficult cooperation
- Early treatment of Vertical Open Bites without difficult tongue loops
- New Concepts for easier non-compliant early treatment
- Strategies for the use of clear removable aligners in the mixed dentition

Samples from previous courses

4th COURSE New Ideas in Early Interceptive Treatment

WHAT IS NEW with EXPANDERS ?

LASER SINTERED EXPANDERS IN THE DIGITAL ERA



Open occlusal surface

Bonded on lingual surfaces of premolars occlusal surface

WITH BUCCAL TUBES
MINI STYLE EXPANDER



WITH BUCCAL TUBES
MINI STYLE EXPANDER

AFTER 8 MONTHS OF TREATMENT



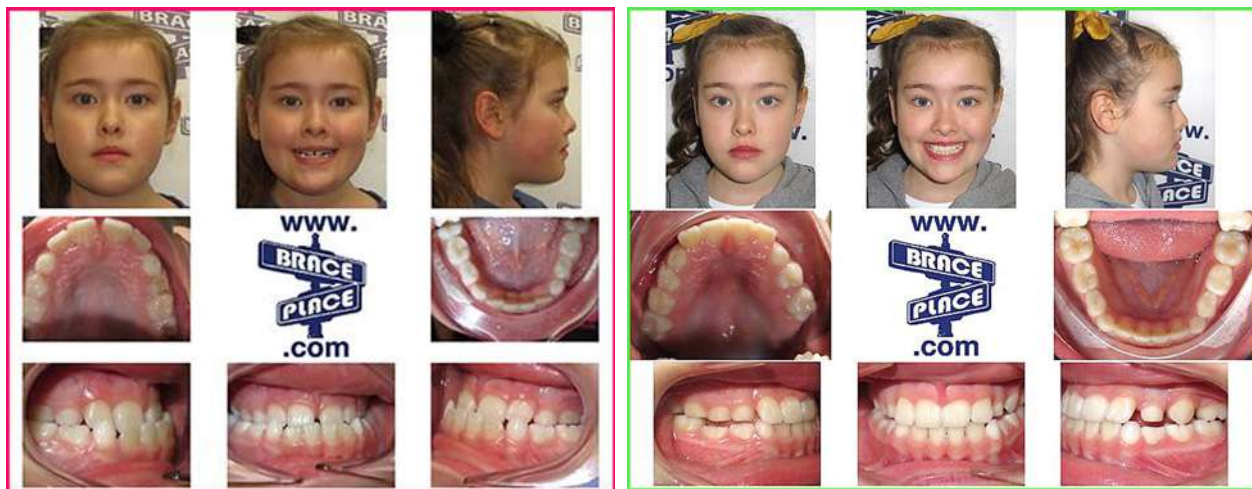
Improved hygiene..bands do not fit subgingivally

Samples from previous courses

4th COURSE New Ideas in Early Interceptive Treatment

“CLASS III POTENTIAL” A Different Approach

FINALS [AGE 9.3] ...WITH 12 MONTHS ACTIVE TREATMENT



MODIFICATION... FULL ACTIVE ARCH IN UPPER

PROGRESS [AGE 11.2].....WITH 7 MONTHS ACTIVE TREATMENT



ANTERIOR CROSSBITE RESOLVED

BILATERAL POSTERIOR CROSSBITE RESOLVED

CLASS III MOLARS RESOLVED

Samples from previous courses

4th COURSE New Ideas in Early Interceptive Treatment

"CLASS III POTENTIAL" A Different Approach

Progress [age 11.2].....with 7 months active treatment



MODIFICATION...FULL ARCH IN UPPER

BONDED U/L 2 X 4 [NOW 20 X 20 NITI ARCHES]
FULL UPPER ARCH WITH ACTIVE/PASSIVE COIL
PLACED TRILLIUM HOOKS IN LOWER 20 X 20 NITI ARCH
CLASS III ELASTICS

PALATAL EXPANSION COMPLETED



SEVERE COMPLETE ANTERIOR CROSSBITE

SEVERE BILATERAL POSTERIOR CROSSBITE

Positive OB/OJ
IDEAL CLASS I MOLARS with 7months active treatment

Maximum expansion
Over correction with 7 months active treatment

FINALS [age 10.6].....with 18 months active treatment



RESULTS

NO FACEMASK USED

Samples from previous courses

4th COURSE New Ideas in Early Interceptive Treatment

"TONGUE Tamers"



INITIAL PLACEMENT



EARLY PROGRESS



Ideal tongue position
WITH TRAINING

INITIAL OPEN BITE



START WITH TONGUE TAMERS



4 MONTHS TREATMENT



FINAL BITE CLOSURE



RESULTS

Samples from previous courses

4th COURSE New Ideas in Early Interceptive Treatment

Clear Aligner Strategies

TREATMENT in the MIXED DENTITION

CAT : Clear Aligner Treatment

CLEAR REMOVABLE ALIGNERS:

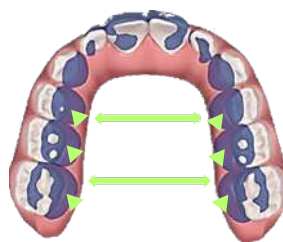
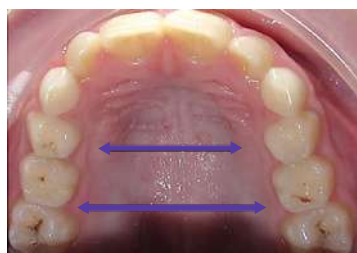
"I AM 9 years old...and so mature...and I am doing television commercials"



INITIAL ALIGNERS PLACED:
Needs mild palatal expansion
and upper anterior alignment



9 Months of aligner wear:
ACHIEVED mild palatal expansion
and upper anterior alignment



Superimposition
BLUE is pre-treatment



9 months of aligner wear:
ACHIEVED mild palatal expansion

Digitally scanned for Phase I retainer



MINOR TOOTH MOVEMENT

FOR THE ADVANCED GENERAL PRACTITIONER

by DR. MARTIN B. EPSTEIN



GENERAL INFORMATION

Dates: Course 1 | Friday, May 10th 2024 09:00-13:00
Course 2 | Friday, May 10th 2024 14:00-18:00
Course 3 | Saturday, May 11th 2024 09:00-13:00
Course 4 | Saturday, May 11th 2024 14:00-18:00

Course Fees: For participation in all 4 courses 290€

Location: Merimna Institute
272 A Vouliagmenis Ave.
17343, Agios Dimitrios, Athens, Greece
(Metro Station Agios Dimitrios)

Language: The official language of the Course is **English**

REGISTRATION

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