

TOOTH MOVEMENT



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 Sample lecture material

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Course objectives Sample lecture material

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Course objectives Sample lecture material

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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

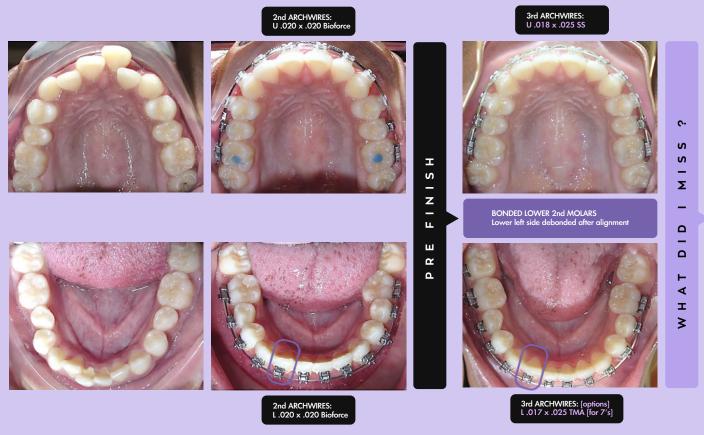


This is part of a larger 2-year hands-on course offered by Merimna Institute. The complete course is with lectures and typodonts.

- 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.

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

Pre-Finishing: An Artform



Results: the PROOF





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







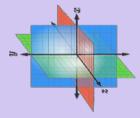


IMPROVED CANINE POSITION 2 visits [16 weeks]



Active Clip Mechanism Simple Mechanism

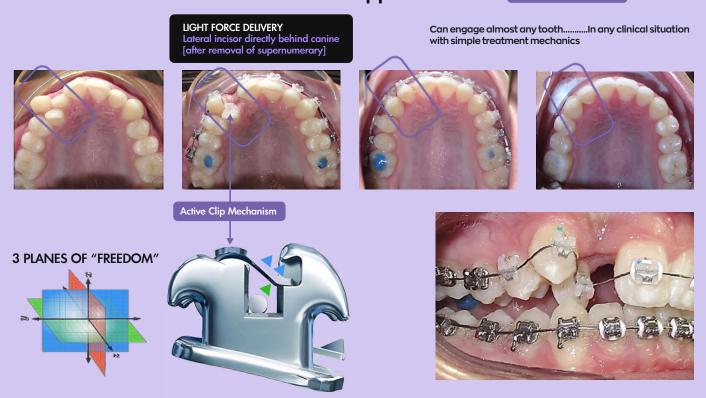
3 PLANES OF "FREEDOM"





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

Ease of treatment with severe or "supper-rotations" INDIVIDUAL TEETH



Self Ligation: smaller wire sizes with lighter forces



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

Self Ligation: increased staff efficiency ADVANTAGE

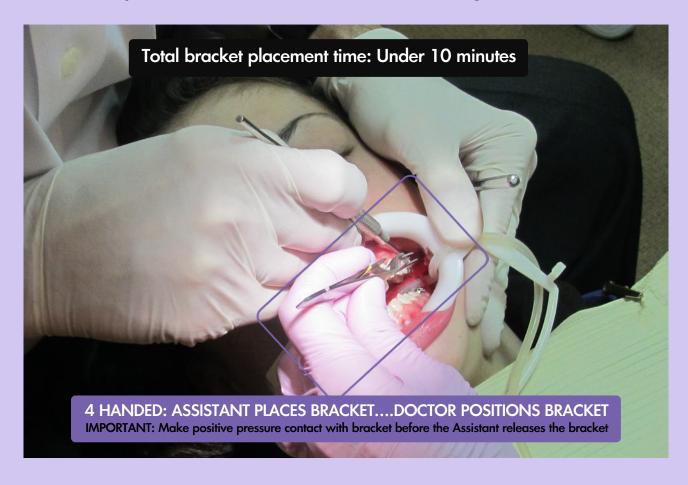






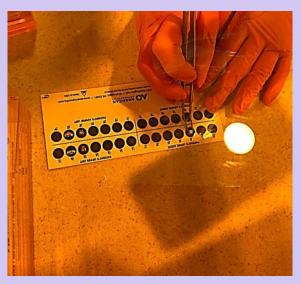
INSTRUMENTATION: EASY-TO-OPEN Angulate ball from the gingival Support the tooth from incisal and press Clip slides OPEN

Full Technique with Nola Retractor and Bracketing



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

BONDING UPDATES

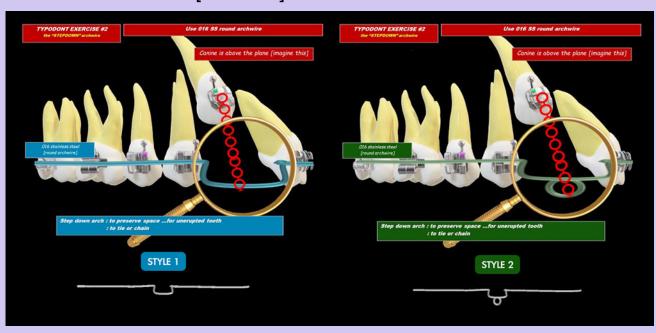




Preload the light-cured bonding resin to brackets Up to 3-4 days in advance [NOT 1 WEEK] Setup multiple sets of brackets Up to 3-4 days in advance

TYPODONT EXERCISES

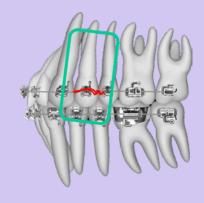
FOR MALPOSED TEETH [CANINES]



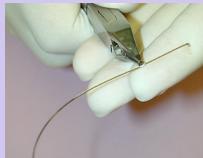
1st COURSE Self-Ligation Treatment for Today and the Future

TYPODONT EXERCISES

WIRE BENDING MODIFYING ARCHWIRES ACTIVE & PASSIVE COIL









TYPODONT EXERCISE TOPICS

MODEL SET #2

1. Archwire placement



2. Archwire cinching



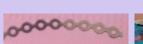
3. Steel ligature ties [single ties]



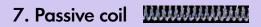
4. Steel figure 8 ties [2-2]



5. Power chain



6. Active coil



8. Crimpable stops

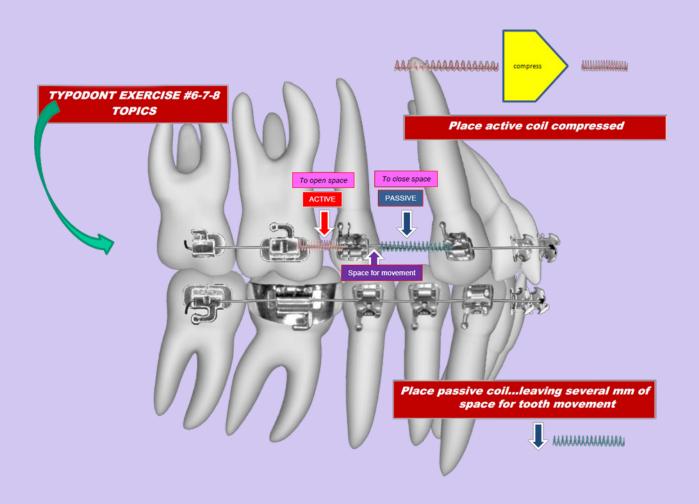


9. Archwire bends [.018 SS] circles & loops



AAAAAAAAAAAAAAA

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.

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

Class II correction with <u>Carriere Appliance</u> Excessive overjet corrected Deep bite corrected



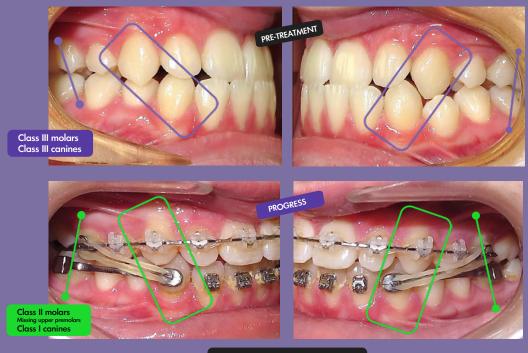
Class II correction with maxillary molar distalization in a teenager WITH ALIGNER TX



FINAL CLASS I OCCLUSION

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

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



POSTERIOR OCCLUSION

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

POSITIVE OVERJET ESTABLISHED
POSITIVE VERTICAL OVERBITE ESTABLISHED



OVERBITE and OVERJET PROGRESSION

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 1/4 FORCE 1]









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]





Auxiliary Appliance: Lower lingual bar with tongue loops

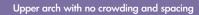


2nd COURSE Advances in Treatment Approaches for Class II, Class III, Vertical Open Bites and Missing Laterals

Class III: with SEVERE anterior openbite



Treatment Progress: Agenesis of both upper lateral incisors











Agenesis Both Upper Laterals

Spaces Opened & Pontics Placed

Retainers Placed with Pontics

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







PONTICS PLACED

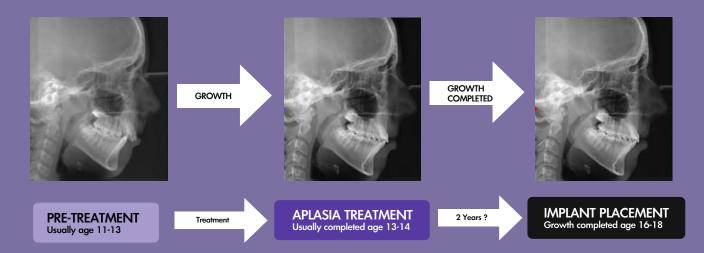






RETAINERS PLACED

Female Adolescent Time Line



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

CLINICAL KEY POINTS for ideal interim retention







Treatment FINISH: Agenesis 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.

SEVERE CROWDING NON-EXTRACTION: RESULTS and Superimposition



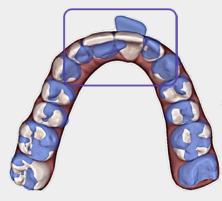




SUPERIMPOSITION OF MOVEMENT Widen buccal corridors Advance lower incisors BLUE IS FINAL

SEVERE CROWDING NON-EXTRACTION: Use of IPR





SUPERIMPOSITION White is final





3rd COURSE Clear Removable Aligners for Total Treatment







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]

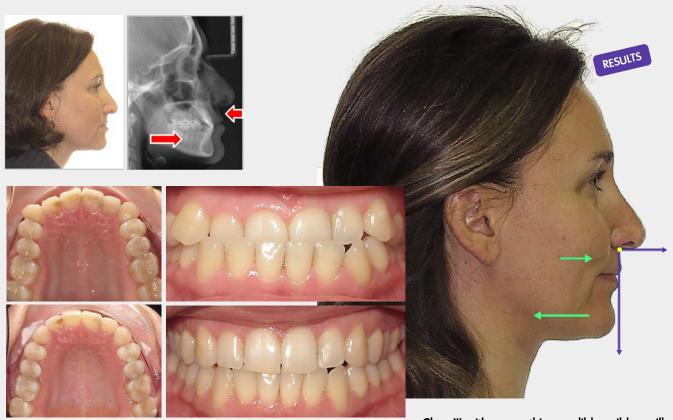






Class III with prognathic mandible, mild maxillary retrognathia, poor upper alignment, complete anterior crossbite

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







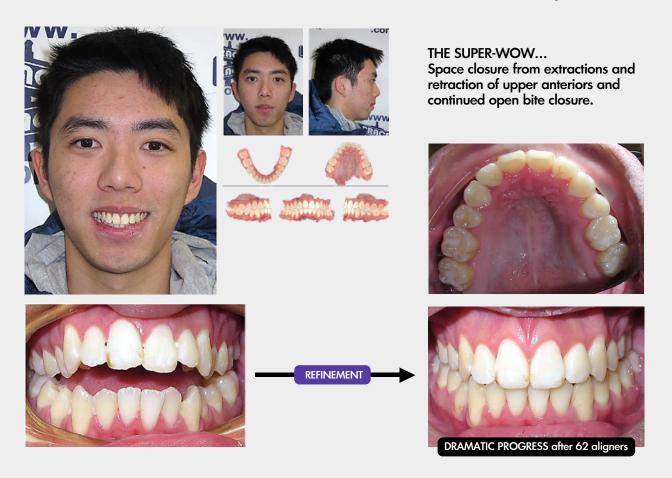
Refinement stage.....bite closure almost ideal



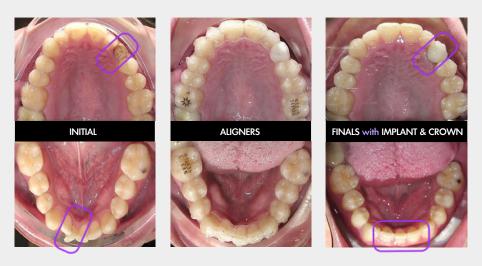




OPENBITE CORRECTION: Severe with molar occlusion only



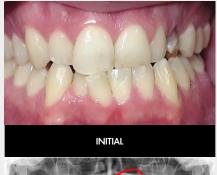
INTERDISCIPLINARY TX: Create ideal spacing for canine implant.



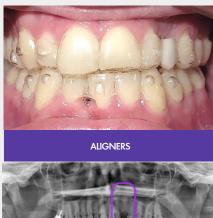
OCCLUSAL VIEWS: eliminated lower crowding, corrected Class III, provided space for ideal OB/OJ

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 requires implants and transitional restorations









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

4th COURSE

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

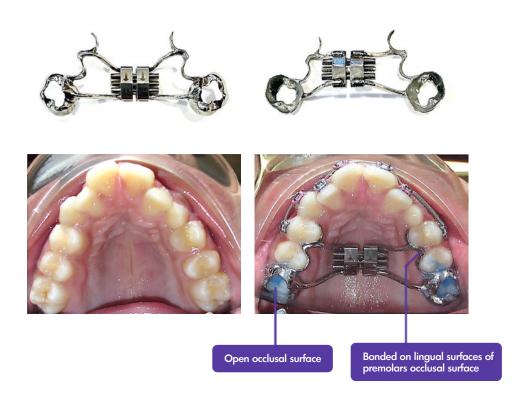


This is part of a larger 2-year hands-on course offered by Merimna Institute. This course focuses on patients in the mixed dentition. Ideal for Pediatric Dentists to attend

- 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

4th COURSE New Ideas in Early InterceptiveTreatment

WHAT IS NEW with EXPANDERS? LASER SINTERED EXPANDERS IN THE DIGITAL ERA



WITH BUCCAL TUBES MINI STYLE EXPANDER





WITH BUCCAL TUBES MINI STYLE EXPANDER

AFTER 8 MONTHS OF TREATMENT





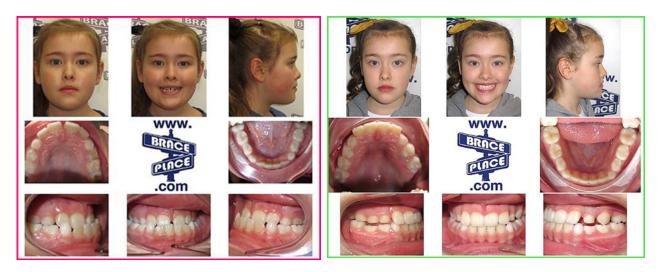


Improved hygiene..bands do not fit subgingivally

4th COURSE New Ideas in Early InterceptiveTreatment

"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













CLASS III MOLARS RESOLVED

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

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

SEVERE BILATERAL POSTERIOR CROSSBITE

Maximum expansion

Over correction with 7 months active treatment

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





































4th COURSE New Ideas in Early InterceptiveTreatment

"TONGUE Tamers"





EARLY PROGRESS

Ideal tongue position WITHTRAINING







4th COURSE New Ideas in Early Interceptive Treatment

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











BLUE is pre-treatment

9 months of aligner wear: ACHIEVED mild palatal expansion

Digitally scanned for Phase I retainer











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**

