

COURSE NO. 2

INTRODUCTION TO ORTHODONTICS, THE EDGEWISE MECHANO-THERAPY, WIRE BENDING EXERCISE AND NONEXTRACTION TREATMENT (PART II)

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COURSE CONTENTS:

Day 1 - Wednesday

- 10.00 General Discussion of technical problems & Home work
- 11.00 Introduction to the edgewise mechanotherapy (cont.)
- 12.30 **Lunch**
- 14.00 Clinical examination (Reread in 1st Meeting)
- Introduction to Straight Wire Appliances (SWA)
- Attachment Selection : Pretaped and Pretorqued brackets
- Treatment procedure: The 5 treatment phases (Cont.)
- Conduction of the treatment : What to do and When?
- 2. The Movement phase**
- Technical management in the Movement Phase
- Arch wire selection and sequences: **Wire Stiffness**
- Distalization of the max. canines** using Intra-arch elastics (power chains) &
- Side effect of Distalization of the maxillary canines
- Direct Bonding of the palatal attachment on max. canine
- Wire bending exercises** : The working arch wire
- 0.016" SS with tie-back loops and sweep
- Arch wire coordination
- 18.00 Class finish

Day 2 - Thursday

- 9.45 3. The Contraction phase
- Wire bending exercises: The contraction arch wires (CAW)
 0.016" x 0.022" or 0.017" x 0.022" SS
- The design of closing loops: The safety pin principle (Repeat)
- Arch wire selection & **Wire Stiffness** (Repeat) .
- The Bowing Effect** of the contraction arch wire (CAW):
- Mand. contraction arch wire and the inclination control of mand. anterior teeth
- Ligation problems and the solutions
- The use of Intermediate arch wire (IAW):
- A. 0.016" x 0.016" SS or
- B. 0.016" x 0.022" TMA Preformed arch wire
- Arch wire coordination.
- 12.30 Lunch
- 14.00 Introduction to the Auxiliaries used in our technique:
- Max. Bite plate.
- Max. Retainers (Wraparound) and Positioner
- Transpalatal Arch (TPA). 3-3 Mand. Retainers, 3+3 Max. Retainers
- Wire Bending Exercises**
- 3rd Order Bend: Anterior & Posterior Torque
- Direct and Indirect torque (Repeat)
- The role of anterior torque control and **Inter-incisal angle**
- 0.016" x 0.022" SS More Torque Control
- 0.017" x 0.022" SS Maximum Torque Control
- How to obtain more anterior torque? With intrusion step?
- How to obtain Palatal root torque in the anterior segment?
- Maxillo-mandibular elastics:** When to use?
- Long: Class II & III Elastics (Repeat)
- Short : Class II & III elastics
- Finishing arch wires (FAW) with teardrop and tie-back loops
- 18.00 Class finish

Day 3 - Friday

9.45 Introduction to the Auxiliaries used in our technique: (Cont.)

Expansion plate, Nance Holding Arch

Rapid Max. Expander. (RME) using Biedermann-Hyrax

A. Bonding type

B. Banding type

Transpalatal arch (TPA) 0.9 mm SS Hard

Lingual arch without and with **spikes** in open-bite case 0.9 mm SS Hard

Lip Bumpers

Extraoral Forces: The Headgear & Face Mask

4. The adjustment phase

Wire bending exercises

● 3rd order bend: anterior & posterior torque

Direct and indirect torque (Repeat)

0.016" x 0.016" SS or 0.016"x0.022" TMA Intermediate arch wire

0.016" x 0.022" more torque control

0.017" x 0.022" maximum torque control

12.30 Lunch

14.00 Get more anterior torque with intrusion step

How to achieve palatal root torque in the anterior segment?

Use 0.016" x 0.022" or 0.017" x 0.022" SS and tie-back loops

0.016" x 0.022" or 0.017" x 0.022" SS Finishing arch wires (FAW) with tie-back

and/or teardrop loops, Sweep and the Curve of Spee

15.00 Class finish

Contact us: The S.O.S. Orthodontic Study Club

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WHAT TO BRING ALONG?

Course participant need to have your manuals, orthodontic pliers, instruments and material as listed below : As in

Course No. 1

1 Typodont (Articulator) with acrylic white teeth

1 set of 018 slot Mini WICK Brackets for bonding exercise

Washborn ORMCO bands with Alexander 1st & 2nd molar attachments, 018 slot for banding exercise

Ormco elastics, o-rings & power chains

Palatal attachment on max. canine (button) part-no. 300-0096

0.009", 0.010" and 0.012" ligature wires

1 set cementation kit (Ormco Gold or Fuji light cure)

1 super glue Three Bond

LAB WORK: CAN BE DONE AS HOME WORK AND INSPECTED AT THE MEETING

Prepare 1 Max. model with 2 Bands (with palatal slots for TPA) on max. first molars for **TPA Exercise**

THEN: Fabrication of the transpalatal arch (TPA) 0.9 mm round SS, hard wire (Provided by the club)

Insertion of the transpalatal arch and Ligation techniques

TYPODONT SET UP:

In a Class I Molar relationship

Rt. side :in a Class I Molar relationship. Lt. side :in a Class II end-on Molar relationship.

Slightly anterior crowding of both arches with protrusion of the anterior teeth.

Deep over-bite. Mandibular retroinclination in the anterior segments.

FOR WIRE BENDING EXERCISE

Clinical Pliers

Wire Bending Exercise Book

1 "Stabilo" Waterproof Marker, Black

Super Glue

Laboratory pliers

WIRES:

0.016" SS round wire 0.016" x 0.016" SS 0.016" x 0.022" SS

0.017" x 0.022" SS 0.016"x 0.022" TMA

PREFORMED AW

0.016" x 0.022" SS 0.017" x 0.022" SS

Wire for Laboratory Work: round 0.9 mm Dentaurum SS H

COURSE NO.2 OR WIRE BENDING EXERCISE PART II

All of the themes planned here may be repeated to complete the contents in the 1st course. Any way these two courses are the vital bases of the fixed edgewise technique.