

COURSE NO. 10

TEMPOROMANDIBULAR DISORDERS : AN ORTHODONTIC POINT OF VIEW

PLACE : 28/111 Top of Soi Jaeng Wattana - Parkkred 34, Jaeng Wattana
Road, Parkkred, Nonthaburi 11120

COURSE CONTENTS:

Day 1 - Wednesday

- 10.00 Introduction to the temporomandibular disorders
Terminology in TMD treatment & Occlusion concepts
Centric relation position: Old and new concepts
Physiologic centric relation position
The role of vertical dimension and posterior support
Normal Jaw movement and the role of canine guidance
The Principle of Tripodization .
Occlusal plane. How many planes do we have?
- 12.30 – 14.00 Lunch
- 14.00 A. DIFFERENTIAL DIAGNOSIS
Normal and abnormal TMJ. X-ray interpretation
Video Film: The Joints Story
- B. TREATMENT MODALITIES
- FIRST PHASE OF TREATMENT (ORTHOPEDIC PHASE)
- Splint therapy. What splint do we use? Why using mandibular splint?
The Bangkok Splint. Fabrication of The BKK Splint &
Mandibular Orthopedic Repositioning Appliance (MORA)
Wax bite construction in non-clicking position
Amount of vertical dimension raised. Thick vs. Thin splint
Amount of mandibular advancement: How far do we go?
The use of fixator. Control of the vertical dimension
Splint Adjustment ; Grinding. Relining
- SECOND PHASE OF TREATMENT (ORTHODONTIC FINISHING)
- Treatment planning
Orthodontic mechanotherapy and Finishing
Initiation of the treatment in the maxilla
BKK Splint still in place
Initiation of the treatment in the mandible
- ADJUNCT TREATMENTS
Exercises, stretching, massage, moist heat and cold therapy
Massage and Acupuncture

Loading in the joint in Symmetrical/Asymmetrical Extraction vs. Non-extraction therapy and its relationship to TMD

Iatrogenic effects of dental and orthodontic treatment

Iatrogenic effects of medical and surgical treatment

Blow, accident, whiplash injuries and TMD

Condylar fracture and the new concept of treatment

GET READY WITH THE TYPODONT

17.30 Class finish

Day 2 - Thursday

09.45 **CLINICAL EXAMINATION**

TMD signs and symptoms

Abnormal sounds: Clicking & Crepitus

Pain and Muscle Spasm

Deviation. Limitation of mouth opening. Locking

Deep-bite and TMD. Loss of molars and vertical dimension concept

Long Class II elastics and the Bite plate

Optimal overbite and over jet

Arch wire sequence in TMD cases

12.30 –14.00 Lunch

14.00 Wire bending exercise: Torque control in the anterior segment
0.016 x 0.016 SS or 0.016 x 0.022 TMA Intermediate arch wire
Get more Torque control with intrusion step
0.016 x 0.022 or 0.017 x 0.022 SS and tie-back loops with posterior torque for max. 2nd molars
Open bite and TMD - Molar fulcrum concept
Long Class III elastics
High pull headgear vs. High pull chin cap
Surgical case and TMD

17.30 Class finish

Day 3 - Friday

09.45 **DEMONSTRATION**

The use of semi-adjustable SAM articulator

Face bow transfer

Wire Bending Exercise

The control of the maxillary 2nd molars

0.016 x 0.022 or 0.017 x 0.022 FAW with tie-back loops

12.30 –14.00 Lunch

14.00 The Adjustment phase
 Final Tooth Positioning with 0.016 x 0.016 SS or 0.016 x 0.022 TMA FAW with tie-back loops
 Fine tuning of the occlusion. Grinding (to improve intercuspitation, and marginal ridge relationship leveled)
 Midline correction

15.00 Class finish

WHAT TO BRING ALONG?

Clinical and Laboratory Pliers

Wire Bending Exercise Book

1 glass pencil (white)

1 Typodont with acrylic white teeth

1 set of 018 slot Mini WICK Brackets bonded

Washbon ORMCO bands with Alexander 018 slot 1st & 2nd molar attachments

GET SET WITH THE TYPODONT

The treatment of a unilateral Class I case with TMD

Please set up your Typodont in a unilateral Class I Molar relationship with the contralateral side in Class II Molar relationship. Palatal cusps of the maxillary 2nd molars are hanging down.

Slightly anterior crowding of both arches. deep over-bite, and maxillary and mandibular retroinclination of the anterior segments.

Band all 2nd molars

1 Pair of Model in Class I or Class II case for practicing wire bending

0.7 mm hard SS 6 triangle clasps for repositioning splint

1 Super glue

1 Set cementation kit

1 "Stabilo" Waterproof Marker, Black

Wires: 0.016" SS round wire, 0.016" x 0.016" SS

0.016" x 0.022" SS or

0.017" x 0.022" SS

0.7 mm SS hard for triangle clasps

The S.O.S. Orthodontic Study Club