

"Orthodontic Treatment for Children and Adults Using the Straight Wire Appliance.
The course consists of 4 separate, three-day sessions (12 days total)

Program Schedule

Sessions 1 to 4

Dates (always Thursday, Friday, Saturday): 1. November 19, 20, 21 2009 2. March 4, 5, 6 2010 3. May 13, 14, 15 2010 4. October 7, 8, 9 2010

Session 1: Dates: November 19, 20, 21 2009

This 3 day session is organized so that the participating doctors will learn the correct techniques for SWA "Direct Bracketing" and molar banding using light-cure composites, and as well the basics of efficient wire and "auxiliary" placement.

The doctors will learn how to place brackets, molar bands, and the basic auxiliaries (such as separators, ligature ties, Kobi hooks, open-coil spring, closed-coil (closing) springs, chain elastic, intra-oral elastics, molar bend-backs). Arch wires: which wires are to be used for leveling, for working and for finishing. How to place, fit and adjust the wires.

The "indirect bracketing" technique will be presented and discussed with its advantages and disadvantages.

Day 1

Lecture: The Straight Wire Appliance (SWA)

"Bracketing for Success" — Using the bracketing system of Dr Brown. How and why it works so well.

Discussion, instruction and video demonstration on the placement of the brackets and molar bands of the appliance using light-curing, and the placing of the basic archwires used in the "leveling/aligning phase" of most cases. An instructional video, showing bracketing, banding and wire placement on a patient, will be presented. This video demonstrates bracket and molar band placement using light-cure materials, fitting wires and ligating them in place. This shows how it is done and which instruments are to be used.

Workshop on the typodont: placing the brackets (using non-mix light cure composite) and molar bands. The wires used in the "leveling/aligning phase" of most cases will be fitted and ligated in place. Additional exercises will cover using separators (3 types), elastomeric and metal ligature ties, Kobi hooks, open-coil spring, chain elastic and the placing of molar bend-backs,.

Day 2

Workshop: Finishing the workshop from day 1

Lecture: The use of **CLII and CLIII intra-oral elastics** for the correction of malocclusions. Also, "special elastics" for specific situations such as settling-in the occlusion or closing-down an open bite.

Biomechanics of **CLI forces** – intra-maxillary forces used for space closure. The use of **CLI elastics, NiTi Closing springs and chain elastics.**

You will receive a comprehensive **syllabus on elastic therapy** for future reference.

Day 3

Lecture: Discussion, instruction and live demonstration of: "wire forming", "wire torquing" and "de-torquing" of the **19x25 steel wire** – "The working Wire".

Workshop: Adjusting the **19x25 steel wire** as described above.

Workshop: The participants will place **CLI, CLII, CLIII** and "special elastics" on the typodont.

Lecture:

Clinical case presentation of mixed dentition and adolescent aged patients: Treating **CLII div I, CLII div II, CLIII malocclusion patients** using the SWA, archwires and intra-oral elastics.

Treatment of an **extraction case** using "sliding mechanics" and "en masse" space closure.

{During the entire course, for these cases and for every patient case presented (with slides showing the changes occurring in the patients during each treatment month as a result of the forces used) Dr. Brown will discuss:

1. the basic theory on « Human Growth Patterns » and the "development of orthodontic problems"
2. "The Esthetic Diagnosis" of Dr Brown
3. "Study model" evaluation
4. Simplified and easy to use Cephalometric x-ray and tracing analysis
5. the basics of the **biomechanics** involved in the treatment
6. the details of the actual mechanical treatment of the patient
7. the potential problems to watch out for during the treatment

8. Finishing the case to obtain an optimal occlusion along with an esthetic harmony of the face, jaws and teeth. }

After Session 1 is finished, the participating dentists, even those who have never placed or used the SWA before, will begin to be able to visualize how the SWA is used to treat malocclusions. They will also “see” their patients as never before, and they will understand which are the better patients to choose from in order to start orthodontic treatment.

Session 2: Dates: March 4, 5, 6 2010

Day 1:

Lecture: “Cephalometrics” and the “Esthetic diagnosis” – how to interpret the “ceph x-ray” and the “ceph analysis”. Discussion and instruction of “cephalometrics” and the “Esthetic Diagnostic Analysis”.

Lecture: Clinical case presentation

Lecture: Begin the discussion of the use of the “**Heat Activated Nitanium (NiTi) Trans-palatal Expander**” and the “**Heat Activated Nitanium (NiTi) Trans-palatal Molar Rotator**”.

These are **easy to place**, biomechanically provide an “optimal, light and constant force” and do not need adjustment once they are in place.

Day 2:

Lecture: Discussion and instruction on the use of the pre-formed “**Utility Arch Wire**” (**UAW**) as a “fixed functional appliance” for early Growth Modification in early and mid-Mixed Dentition (MD) cases. The **UAW** can be adjusted and used specifically for incisor intrusion or for extrusion (anterior segment bite closing), for molar up-righting and distal rotation, jumping anterior and posterior cross-bites and for overall arch expansion.

The use of the **NiTi Reverse Curve Wires**” (**RCS**). The pre-formed “**RCS**” wires are used for incisor intrusion, bite opening and arch leveling in adolescent and adult cases.

Workshop: Placing and adjusting a Pre-formed UAW; placing a NiTi RCS wire.

Lecture: Clinical case presentations of early to mid-MD cases using the UAW to open a “deep-bite case” and close down an “anterior open-bite” case.

Case presentations of adolescent age patients using NiTi RCS wires for bite opening and arch leveling.

Day 3:

Lecture: Continue discussion, instruction, biomechanics and live demonstration of the “**Heat Activated Nitanium (NiTi) Trans-palatal Expander**” and the “**Heat Activated Nitanium (NiTi) Trans-palatal Molar Rotator**”.

Workshop: Placing a “**Heat Activated Nitanium (NiTi) Trans-palatal Molar Rotator**” on the typodont.

Lecture: Lecture: Clinical case presentations of early and mid MD cases with severe malocclusions using the **NiTi trans-palatal appliance** in conjunction with the SWA as a “**fixed functional appliance**” for growth modification using palatal expansion, molar rotation, tooth leveling and alignment, CLII or CLIII elastics and growth.

Session 3: Dates: May 13, 14, 15 2010

Day 1:

Workshop: Exercise using “**Lock-stops**” for stopping teeth, and also for moving teeth along the archwire when used in conjunction with **NiTi open-coil springs**. **Clinical case presentation**

Lecture: clinical case presentation of the diagnosis, treatment planning, mechanics and biomechanics of **adolescent and MD cases, CLII deep bite** and **CLII open bite** using the SWA and inter-maxillary elastics.

Day 2:

Lecture: case presentation of the diagnosis, treatment planning, mechanics and biomechanics of **adolescent and MD cases, CLIII open** and **CLIII closed bite**, using the SWA and inter-maxillary elastics.

Day 3:

Lecture: Begin the explanation and discussion of **space closure** using **CLI, CLII and CLIII forces**. Instruction on the **biomechanics of space closure** and of “**anchorage**”.

Clinical case presentation of **extraction cases** which examine different anchorage situations and which compare the use of **intra-oral elastics, NiTi Closing springs and chain elastics**.

Workshop: Biomechanics of **CLI forces** – intra-maxillary forces used for space closure. The use of **intraoral elastics, NiTi Closing springs and chain elastics. Inter-maxillary forces for space closure.**

The participants will place **CLI forces: intraoral elastics, NiTi closing springs and chain elastic** on the typodont.

Session 4: Dates: October 7, 8, 9 2010

Day 1:

Lecture: Continue the explanation and discussion of **space closure** using **CLI, CLII and CLIII forces**. Instruction on the **biomechanics of space closure** and of **“anchorage”**.

Clinical case presentation of extraction cases which examine different anchorage situations and which compare the use of **intra-oral elastics, NiTi Closing springs and chain elastics**.

The use of **CLI, CLII and CLIII elastics**.

Day 2:

Lecture: Continue clinical case presentations of **“extraction cases”, CL II and CLIII**.

Lecture: Begin the discussion, instruction, biomechanics and live demonstration on the placement and usage of **Head Gear (HG)**,

Workshop: Fitting, adjusting and placing the **Head Gear** face-bow. Discussion and demonstration of the **“occipital pull HG head cap”** and the **“cervical HG neck strap”**.

The participants will fit a **HG facebow on the typodont**.

Lecture: Case presentations of **CLII “Long Face” MD** cases using the **SWA, NiTi trans-palatal heat activated appliances, HG and the “Bite corrector”**.

Day 3:

Lecture: Continue case presentations of **CLII “Long Face” MD** cases using the **SWA, NiTi trans-palatal heat activated appliances, HG and the “Bite corrector”**.

For information by telephone: 0032 (0) 497 373090

For information by email: dr.larry.brown@belgacom.net