

Dr. Vittorio Cacciafesta

The use of TADs with Labial and Lingual Self-ligating Brackets, Orthodontists

Chişinău, Moldova, February 15th and 16th, 2019



Course Director: Dr. Vittorio Cacciafesta – Milan, Italy

Aims of the course

To describe the various clinical techniques of fixed labial and lingual orthodontic therapy, evaluating the advantages and disadvantages of conventional and new generation of self-ligating systems used in combination with TADs. To illustrate the actual archwire sequences in the different malocclusions, providing therapeutical concepts and clinical tips for each clinical situation, especially in the management of anchorage control and extraction cases. To show how orthodontics has changed its mechanics since the introduction of cortical anchorage and TADs. To learn and try onto typodonts where it is safe to insert miniscrews and how to fabricate the anchorage for various clinical situations (videos and hands-on). Several exercises will be conducted onto typodonts.

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Course Outline

Conventional vs Self Ligating brackets

- *Passive vs Active Self-Ligating brackets: the usual dilemma??*
- *Alignment protocols: clinical tips and tricks.*
- *The Biostarter, BioCosmetic, BioTorque and Betaflex archwires.*
- *Archwire sequence and modifications.*
- *The new generation BioQuick LP and Quicklear, and totally esthetic ceramic SL brackets (TruKlear).*
- *The 2D Lingual Brackets: rationale and clinical advantages*
- *Initial alignment and levelling: what to do and what to avoid.*
- *Single or double archwire mechanics?*
- *The use of Loops*
- *Push coils, Labio-lingual mechanics, lazo mechanics and rotatory mechanics*
- *V bends, Step bends and artistic bends*
- *The use of cantilevers*

Introduction to orthodontic anchorage

Historical development of Temporary Anchorage Devices

- *Osseointegrated implants*
- *Orthognathic fixation*
- *Ankylosed teeth*
- *Retromolar implants*
- *Palatal implants*
- *Ligature wires*
- *Miniplates*
- *Miniscrews*

Temporary Anchorage Devices (TADs)

- *Rationale and use*
- *Different miniscrew systems available on the market*
- *Insertion sites and clinical protocols (videos)*
- *TADs and SL brackets in various clinical situations: how to reinforce the anchorage.*

Biological background

- *Bone adaptation to miniscrews*
- *Bone response to loading of miniscrews*
- *FE Analysis and animal experiments*

Treatment planning

- *Placement locations in the maxilla and mandible (safe zones)*
- *Anatomical considerations*

Biomechanics and step-by-step clinical procedure (videos and hands on)

Clinical Use

- *Managing non-extraction cases and molar distalization*
- *Managing transverse control and arch coordination*
- *Managing sagittal control*
- *Managing space closure and extraction cases*
- *Managing Molar uprighting and mesialization*
- *Managing space opening cases*
- *Managing vertical problems – intrusion of incisors and molars*
- *Finishing and Torque control: what we should know*
- *Management of gingival recessions with Lingual Root Torque*
- *Management of gingival recessions with mucogingival grafts*

Retention protocols

- *Mechanical and Biological*
- *Fixed and removable e Smile Arc and Management of canted occlusal planes*
- *Management of Midlines*

Potential complications: prevention and treatment

Conclusive remarks

Hands-on: Insertion and clinical management of Ortho Easy mini implants for anchorage reinforcement in various clinical situations

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