



Istanbul

Point Hotel - Barbaros

15 -16 April 2022

Aligners, TADs & Digital Workflow



15 April 2022 | Prof. Dr. Benedict Wilmes
Overcoming aligner limitations by using mini-implant borne sliders and expanders introducing the new BAT philosophy (Benefit for Aligner Therapy)



16 April 2022 | Dr. Björn Ludwig
TADs - The Digital Way: From insertion guides to metal 3d printed appliances



First Day by Dr. Wilmes:

An increasing number of patients seek orthodontic treatment with aligner therapy. Bodily tooth movement with aligner therapy is challenging when relying on aligners alone. Whilst there are limited reports of successful bodily molar movements of up to 1-2 mm in the literature, a very long treatment time and high level of patient compliance and is expected. Moreover, the potential side effects of intermaxillary elastics must be considered in terms of shift of the anchorage teeth; this might be a severe problem especially in unilateral elastics applications with the potential for development of a midline shift, arch rotation and a jaw discrepancy, and transverse occlusal canting. To avoid this anchorage loss and the high demand on elastic wear, orthodontic mini-implants may be used. Currently, the alveolar process and the IZC region are still the most preferred insertion sites for mini-implants.

However, due to a failure rate and the risk of root damage, insertion in these areas is far from satisfactory. Additionally, a bodily tooth movement is not granted. On the other hand, the anterior palate provides much better conditions for the insertion and stability of skeletal anchorage devices, as the amount and quality of the available bone is far superior. In this course, the combination of mini-implant-borne appliances and aligners is presented to achieve more predictable and faster results in aligner therapy.

Second Day by Dr. Ludwig:

The benefits of using skeletal anchorage got over the last two decades obvious and the use of these small screws is wide spread. Many well working workflows are established and sound biomechanics are identified.

Scientifically a lot of evidence in matter of failure rates, insertion sites and risk factors was published. But the evolution of the use of TADs doesn't stop! Especially the digital era brings new and promising features.

This lecture will present a full digital workflow using TADs. Starting from the intraoral scan, digital X-ray, virtual screw placement, digital appliance design and finally 3D printing.

Many clinical examples will be shown - current literature will be discussed and a critical evaluation of these new procedures will finalize the lecture.

15 April 2022

09.00 - 10.30 Session 1

- The rationale of using TADs in orthodontic practice
- Biomechanics & limits of aligner therapy
- Mini-implants with abutments

10.30 - 11.00 Coffee Break

11.00 - 12.30 Session 2

- Upper molar distalization
- Space closure / upper molar mesialization
- Molar anchorage and En-Masse-Retraktion

12.30 - 14.00 Lunch Break

14.00 - 15.30 Session 3

- Rapid maxillary expansion and Class III treatment

15.30 - 16.00 Coffee Break

16.00 - 17.30 Session 4

- Molar uprighting and intrusion
- TADs as pontics
- Alignment of impacted teeth

17.30 - 18.00

- Questions & Answers

16 April 2022

09.00 - 10.30 Session 1

- Update on TADs and the support of CAD/CAM technology

10.30 - 11.00 Coffee Break

11.00 - 13.00 Session 2

- Clinical tips and pearls on TAD insertion, e.g. ONE visit protocols, etc.

13.00 - 14.00 Lunch Break

14.00 - 15.30 Session 3

- Distalization, skeletal expansion and distalization with TADs and CAD/CAM support
- High-tech meets Low-tech: Engolve, but preserve the good old stuff!

15.30 - 16.00 Coffee Break

16.00 - 18.00 Session 4

- Space closure, missing teeth and finishing considerations
- Special focus on finishing aligners

No94



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Early Bird: 350 €

After 15 March: 400 €

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