



AUSTRALASIAN SOCIETY OF LINGUAL ORTHODONTISTS

2022 Congress

5 - 6 August 2022

Grand Hyatt - Melbourne, Australia

Invisible Orthodontics in Everyday Practice

Biennial Conference incorporating a variety of
aesthetic orthodontic appliances.

Pre Congress Course

Thursday 4th August

Prof Dr Benedict Wilmes (Germany)

Post Congress Courses

Sunday 7th August

Dr Woo Ttum Bittner (Germany)
Dr Didier Fillion (France)



Grand Hyatt Melbourne

123 Collins Street, Melbourne, Victoria, Australia.

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The Australasian Society of Lingual Orthodontists Congress 2022 is generously supported by:



Welcome

Dear Friends and Colleagues,

It is a great honour and privilege to welcome you to Melbourne for the 2022 ASLO Congress. The Australasian Society of Lingual Orthodontics (ASLO) was founded by our mentor the late Dr Stuart McCrostie who was the first lingual orthodontist in Australia and New Zealand.

Really High Quality Invisible Braces & Aligners, provided by well-educated, well-qualified specialist orthodontists are more important than ever. A huge new demand has appeared for truly invisible services, where Lingual is at the forefront of Invisible treatments, going hand in hand with aligners and complex auxiliary devices.

Digitalisation of workflows has changed everything; lingual braces, TADs & DIY aligners are easy to provide by all practitioners. Invisible orthodontics no longer require a rarefied species of practitioner!

We have speakers from four continents and ten different countries making this a truly international forum for sharing experiences. I would like to thank all the speakers for their valuable contributions and all our industry sponsors. Without their support, such meetings would not be possible.



We are a very collegial group and Melbourne, Australia is a magnificent city containing friendly, multicultural people, incredibly good food and amazing tourist wonders.

On behalf of ASLO I would like to wish you all a successful congress and look forward to a great four days of learning from the best in Lingual and invisible orthodontics.

Geoffrey Wexler
ASLO President

Congress Program

PRE CONGRESS COURSE Thursday 4th of August 2022

Prof Dr Benedict Wilmes

All day course

8.00 - 8.30	Registration (Grand Hyatt - The Residence)
8.30 - 10.30	Prof Dr Benedict Wilmes (Germany) Combining Palatal Auxiliary Anchors with Aligners. The rationale of using TADs in orthodontic practice, Mini-implants with abutment, New digital techniques, TADs and aligners & lingual braces.
10.30 - 11.00	Morning Tea (30 mins)
11.00 - 12.30	Prof Dr Benedict Wilmes (Germany) Upper molar distalisation and mesialisation.
12.30 - 1.30	Lunch (1 hour)
1.30 - 3.00	Prof Dr Benedict Wilmes (Germany) Molar anchorage and En-Masse-Retraction. Rapid palatal expansion and early class III treatment.
3.00 - 3.30	Afternoon Tea (30 mins)
3.30 - 5.00	Prof Dr Benedict Wilmes (Germany) Molar uprighting and intrusion. Combine lingual braces and aligners with a TAD borne appliance.
5.00 - 6.00	ORTHOMAX Welcome Reception (Grand Hyatt)

Dr Wilmes's course and the Congress Welcome Reception are generously provided by Orthomax.

ORTHOMAX
ORTHODONTIC PRODUCT SPECIALISTS

DAY ONE Friday 5th of August 2022

7:00 - 7:25	Registration (Grand Hyatt - The Residence)
7:25 - 7:30	Opening address ASLO President, Dr Geoffrey Wexler
7.30 - 8.30	Prof Ryuzo Fukawa (Japan) Stuart McCrostie Mem Lec, Dr Ryuzo Fukawa, Japan, "Future Oriented Invisible Orthodontics Led by Specialists"
8.30 - 9.00	Prof Dr Benedict Wilmes (Germany) Broadening the scope of lingual treatment opportunities by usage of palatal TADs.
9.00 - 9.45	Dr Siva Vasudavan (Australia) The use of Metal Printed devices in Auxiliary Anchorage.
9.45 - 10.15	Morning Tea (30 mins) at Trade Expo
10.15 - 11.00	Dr Nik Vaid (India) The Emperor's New Clothes! - Demystifying aligner science on the aesthetic orthodontic appliance terrain!
11.00 - 11.30	Dr Woo Ttum Bittner (Germany) Lingual Leverage: From Lingual to 1000 Aligner Starts Per Annum.
11.30 - 12.00	Dr Didier Fillion (France) Wabeez, a customized lingual system. Part 1: Digital set-up and bracket positioning.
12.00 - 12.30	Dr Sunil Hirani (United Kingdom) Skeletal expansion (MARPE) with lingual orthodontics.
12.30 - 1.00	Dr Ed Lin (USA) Digital Hybrid Treatment w/ Lingual Appliances and Cost-Effective Aligners for all Case Types.
1.00 - 2.00	Lunch (1 hour) at Trade Expo
2.00 - 2.30	Dr Tony Weir (Australia) Overcoming Clear Aligner treatment shortfalls - The Scientific Evidence and its Application.
2.30 - 3.00	Dr Rhonda Coyne (Australia) Challenging Clear Aligner Cases, Deep Bites, Extractions Distalisations.
3.00 - 3.30	Dr Nour Eldin Tarraf (Australia) Skeletal Anchorage in Growing Children.
3.30 - 4.00	Afternoon Tea (30 mins) at Trade Expo
4.00 - 4.30	A Prof Yoon-Ji Kim (South Korea) Clear aligners for surgical treatment of Class III malocclusions.
4.30 - 5.00	Dr Geoffrey Wexler (Australia) Every-Day Digital Set-Up and Delivery for Lingual Braces.
7.00 - 11.00	Gala Dinner & Dance (Grand Hyatt)

DAY TWO Saturday 6th of August 2022

8.30 - 9.30	Prof Ryoon-Ki Hong (South Korea) Biomechanics of Lingual Orthodontics and TSAD.
9.30 - 10.30	Dr Medhi Peikar (USA) BRIUS: Third Way of Moving Teeth (NOT Braces, NOT Aligners).
10.30 - 11.00	Morning Tea (30 mins) at Trade Expo
11.00 - 11.30	Dr Didier Fillion (France) Wabeez, a customized lingual system. Part 2: No friction mechanics.
11.30 - 12.00	Dr Steve Stramotas (Australia) My Wonderful Incognito Journey over 15 years - Lessons Learned Treating Simple & Complex Cases.
12:00 - 1:00	Dr Martina Brautigam, Dr med Dr med. dent. Pantelis Kalaitzidis (Germany) Teamwork makes the dreamwork - efficient workflows in surgery cases with lingual orthodontics.
1.00 - 2.00	Lunch (1 hour) at Trade Expo
2.00 - 2.30	ASLO AGM
2.30 - 3.20	Dr Mugali Mujagic (France) Treatment effectiveness and quality of the results using a completely customized lingual appliance.
3.20 - 3.50	Afternoon Tea (30 mins) at Trade Expo
3.50 - 4.30	Prof Marie Cornelis (Australia) How Efficient is Lingual Orthodontics?
4.30 - 5.10	Dr Rafi Romano (Israel) Digital Simulation and Digital Planning - Essential Tools for Any Treatment Modality.
5.10 - 5.20	Closing Remarks
	Free Evening

POST CONGRESS COURSES Sunday 7th of August 2022

Dr Woo Ttum Bittner

Morning course

8.00 - 8.30	Registration (Grand Hyatt - The Residence)
8.00 - 10.30	Dr Woo Ttum Bittner (Adentics, Berlin, Germany) Part 1: Scaling Your Practice: Tools that we used to keep up our treatment quality while growing. Part 2: Scaling Your Numbers: What we learned from our transition from lingual to aligners and what it made with our numbers.
10.30 - 11.00	Morning Tea (30 mins)
11.00 - 12.30	Dr Woo Ttum Bittner (Adentics, Berlin, Germany) Part 3: Scaling Your Team: How we grew our team and kept a team turnover-rate of less than 1%. Part 4: Scaling Your Service: What our patients did like and what not.

Dr Didier Fillion

Afternoon course

1.00 - 1.30	Registration (Grand Hyatt - The Residence)
1.30 - 2.15	Dr Didier Fillion (Wabeez, France) Advices and Procedures to Build a Digital Set-Up.
3.00 - 3.30	Afternoon Tea (30 mins)
3.30 - 5.00	Dr Didier Fillion (Wabeez, France) Advices and Procedures to Build a Digital Set-Up.

ASLO CONGRESS CPD: 15 Hours

Speaker Biographies, Abstracts & Courses



Prof Dr Benedict Wilmes (Germany)

Dr. Wilmes did a postgraduate training in oral surgery at the Department of Maxillofacial Surgery at University of Muenster, Germany. Subsequently, he received a postgraduate degree in orthodontics and dentofacial orthopedics at the University of the Duesseldorf, Germany.

In 2013 he became Professor at the Department of Orthodontics at the University of Duesseldorf. Dr. Wilmes is author of more than 100 articles and textbook chapters. He is reviewer of numerous journals and has held more than 300 lectures and courses in 60 different countries all over the world. His primary interest is in the area of non-compliant and invisible orthodontic treatment strategies (TADs, lingual orthodontics and aligner).

Dr. Wilmes was awarded the First Prize of the German Orthodontic Society in 2007, the First Prize of the European Orthodontic Society in 2009, the First Prize of the German Society for Lingual Orthodontics in 2018, and the Award of the International Academy of Clear Aligners in 2019. Dr. Wilmes is an Active Member of the Angle Society (Eastern Component).

How to Combine Mini-Implant Borne Sliders and Expanders with Lingual Braces and Aligners.

An increasing number of patients seek aesthetic orthodontic treatment with lingual braces or aligners. Especially with aligner therapy a bodily tooth movement is challenging when relying on aligners alone. 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 is still the most preferred insertion site for mini-implants. However, due to a failure rate and the risk of root damage, insertion in the alveolar ridge is far from satisfactory. Other regions such as the anterior palate provide 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 lecture, the combination of mini-implant-borne appliances and lingual braces / aligners is presented to achieve more predictable and faster results.

Further Information

Mini-Implants with different types of abutments and connectors allow the construction of versatile and cost efficient appliances for a large variety of orthopedic and orthodontic applications, a system that integrates easily into clinical practice and allows treatment of cases that were difficult or impossible to treat previously. Utilizing TAD's in the anterior palate eliminates the risk of root injury and takes the implants out of the path of tooth movement.

Improving the predictability of clear aligner therapy with mini-implants.

Clear sequential plastic aligner therapy is ubiquitous in contemporary orthodontics. However, the predictability of achieving specific tooth movements with clear aligners including space closure, distalization and expansion is not absolute. The adjunctive use of customised appliances, retained with mini-implants positioned in the anterior hard palate, provides the astute clinician the opportunity to realize specific treatment objectives with greater precision and accuracy. They can be used concomitantly, or as an intermediary step prior to the fabrication of clear aligners.

Pre Congress Course

Full Day - Thursday 4th August

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Prof Dr Benedict Wilmes - Germany

How to Combine Mini-Implant Borne Sliders and Expanders with Lingual Braces and Aligners.



At the ASLO 2022 Congress

4th - 7th August 2022

Grand Hyatt - Melbourne, Australia



Prof Dr Wilmes - Pre Congress Course Thursday 4th of August 2022

8.30 - 10.30	Combining Palatal Auxiliary Anchors with Aligners. The rationale of using TADs in orthodontic practice, Mini-implants with abutment, New digital techniques, TADs and aligners & lingual braces.	1.30 - 3.00	Molar anchorage and En-Masse-Retraktion. Rapid palatal expansion and early class III treatment.
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12.30 - 1.30	Lunch (1 hour)		

Congress Venue

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Dr Woo-Ttum Bittner (Germany)

Orthodontist, Founder and CEO ADENTICS

Woo-Ttum Bittner is a specialist in orthodontics who graduated from the Humboldt University of Berlin, Germany. He is the founder and CEO of ADENTICS®, a group of orthodontic practices that focus on aligner and lingual treatment.

- 1990-1996 Degree in dental medicine at the Humboldt-University Berlin (Charité)
- 1996-1998 Assistant dentist in private practice
- 1998-2001 Scientific assistant in the department of Orthodontics in the Centre for Dental Medicine, Charité (Virchow Campus), active in student training, research and patient treatment
- Oct 2001 Appointment as a specialized dentist for orthodontics since Nov. 2001
Foundation of three practices in Berlin – Lichtenrade (2001), Mahlow (2008) and Berlin Mitte (2010) under Brand "ADENTICS – Orthodontic Specialists".
- Nov 2006 Further education authorization for orthodontics through the Berlin Dental Association
- Feb 2007 Member of the examination board for orthodontics of the Berlin Dental Association
- Jan 2015 President elect of the German Society of Lingual Orthodontics (DGLO)
- Apr 2016 Foundation of two practices in Teltow and Schulzendorf
- 2019 Chairman of Orthodontic Part of Esthetic Days Congress Baden Baden
- 2021 Chairman of Orthodontic Part of Esthetic Days Congress Baden Baden

Affiliations

- Active and Certified Member of the World Society of Lingual Orthodontics (WSLO)
- Active and certified Member of the European Society of Lingual Orthodontics (ESLO)
- Active and Certified Member of the German Association for Lingual Orthodontics (DGLO)
- German Association for Aligner Orthodontics (DGAO)
- European Aligner Society (EAS)
- German Association of Orthodontists (BDK)
- Gesellschaft für Kieferorthopädie von Berlin und Brandenburg (KFO-BB)
- Deutsche Gesellschaft für Kieferorthopädie (DGKFO)
- Deutsche Gesellschaft schlaftherapeutisch tätiger Zahnmediziner (DGSZ) (German Association of Dentists - active in the field of hypnotherapy)

Lingual Leverage: From Lingual to 1000 Aligner Starts Per Annum

If an ortho clinic shifts its focus from lingual treatment to treatment with aligners a lot of things do change. With an honest look back on his slow transition into aligners, the lecturer describes the changes in his therapy, in the economic indicators, in the quality of treatment and in the numbers of patients in the ADENTICS practices. He will also report on the important role that lingual therapy continues to play in his practices despite the changes.

Putting service over treatment and people over revenue allowed ADENTICS to become one of the most successful orthodontic brands in Germany.

Dr Bittner provides an interactive, practice-oriented course fully revealing his approaches in treatment and practice management, showing deep, detailed insights into the in-house studies which provided the important insights to change the ADENTICS practice treatment protocols for the long term.

Dr Bittner will also address the most common daily challenges in his orthodontic clinics and talk about marketing, communication, employee management, different treatment and service strategies and their economic indicators.

Post Congress Course

Morning - Sunday 7th August

Dr Woo-Ttum Bittner - Germany

Secrets of Building of a Multicentre Practice for Invisible Orthodontics.

At the ASLO 2022 Congress

4th - 7th August 2022

Grand Hyatt - Melbourne, Australia



Dr Woo-Ttum Bittner - Post Congress Course Sunday 7th of August 2022

Putting service over treatment and people over revenue allowed ADENTICS to become one of the most successful orthodontic brands in Germany.



Dr Bittner provides an interactive, practice-oriented course fully revealing his approaches in treatment and practice management, showing deep, detailed findings into the in-house studies which provided the important insights to change his practice.

8.30 - 10.30	Part 1: Scaling Your Practice: Tools that we used to keep up our treatment quality while growing.
	Part 2: Scaling Your Numbers: What we learned from our transition from lingual to aligners and what it made with our numbers..
10.30 - 11.00	Morning Tea (30 mins)
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	Part 4: Scaling Your Service: What our patients did like and what not.



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Dr Didier Fillion (France)

Didier FILLION has been practicing lingual orthodontics exclusively for 32 years. He has held courses in Lingual orthodontics around the world and lectured in all important adult orthodontic congresses.

Memberships:

- Founding member and Honorary President of the French Lingual Orthodontic Society (SFOL)
- Founding member of the European Society of Lingual Orthodontics (ESLO)
- Founding member and 1st President of the World Society of Lingual Orthodontics (WSLO)

Course Director of the two-year Lingual Orthodontic Post-graduate program at Paris-V University (France) from 1996 to 2010. Co-Director of the Lingual Orthodontic Fellowship at the University of Texas, San Antonio, USA.

Evolution of my lingual technique over 30 years.

I will show how and why my technique www.wabeez.com has evolved into a fully digital straight wire technique.

I will explain how this technique is the most accurate to position brackets and how it reliably reproduces on the patient exactly what we have decided on the digital set-up. Its simplicity makes it particularly accessible to beginners. Its efficiency makes it suitable for the experienced lingualist for the most demanding cases.

Treated case reports will show how the differences between labial and lingual technique are becoming thinner, in terms of chair time and treatment time.

Post Congress Course

Afternoon - Sunday 7th August

Dr Didier Fillion - France

Advices and Procedures to Build a Digital Set-Up.

At the ASLO 2022 Congress

4th - 7th August 2022
Grand Hyatt - Melbourne, Australia



Dr Didier Fillion - Post Congress Course

Sunday 7th of August 2022

Dr Fillion will show why his techniques at Wabeez has evolved into a fully digital straight wire technique.



He will explain how this technique is the most accurate to position brackets and a reliable outcome for the patient. Its simplicity makes it particularly accessible to beginners. Showing how the differences between labial and lingual techniques are reducing chair and treatment time.



1.30 - 2.15	Advices and procedures to build a digital set-up. Explaining how his fully digital straight wire technique reproduces on the patient exactly what has been configured on the digital set-up.
3.00 - 3.30	Morning Tea (30 mins)
3.30 - 5.00	Presentation of case reports, showing the simplicity of the digital set-up and how it is particularly accessible for beginners but requiring experienced lingualists for the more demanding cases.

Registrations

www.aslo.com.au/book-now
Presenting at the ASLO 2022 Congress.
Virtual attendance available.



Speaker Biographies & Abstracts



Prof Ryuzo Fukawa (Japan)

1980 Graduated from Osaka Dental University, and entered Orthodontic Dept of the same university.
1990 Obtained Ph.D. from Osaka Dental University and passed Tweed foundation regular member
1991~2021 Open present private practice, Higashiosaka, Osaka, Japan

Membership

President of World Society of Lingual Orthodontics (2020~2021)

First president of the World Board of Lingual Orthodontists

- Member of the European Board of Orthodontists
- Regular member of the Edward H. Angle society Southern California Component
- Member of the Royal College of Surgeons of Edinburgh (M-ortho)
- Board member and Instructor of Japanese Orthodontic Society and Japan Association of Adult Orthodontics
- Member of the Tweed Foundation Fellow of the World Federation of Orthodontics

Future Oriented Invisible Orthodontics Led by Specialists

Summary

With the advent of TADs, lingual braces and aligners, modern orthodontics founded by Edward H. Angle is undergoing significant changes after 100 years. However, they are mere tools and do not provide a magic solution to orthodontic problems. This presentation will discuss treatment planning, understanding of mechanics using the finite element method, and finishing based on Andrews' Six Keys, through difficult-to-treat skeletal Class II and Class III malocclusions with discrepancies in all three planes of space: AP, vertical and transverse, permitting overall dental hygiene and better dental health.



Dr Rhonda Coyne (Australia)

Dr Coyne was one of the first Spark & Dental Monitoring users in Australia. Rhonda is an Australian orthodontist with over 25 years experience. On graduation she joined her father's family orthodontic practice in Cairns. In 2010 she started to future-proof and include clear aligners into her treatment options for kids, teen and adults.

From a family of specialists and teachers, she is a lifelong student and takes a special interest in all forms of education and technology and more recently in incorporating digital technologies into practice. She has presented widely on a range of topics both inside and outside of orthodontics.

Challenging Clear Aligner Cases. Deep Bites, Extractions, Distalisations.

As clear aligners become more routinely used, more challenging cases arise.

Dr Coyne shows off her successes and learnings in Clear Aligners in deep bites, impactions and distalisations.



Prof Dr Marie Cornelis (Australia)

Marie A Cornelis received both her dental degree (1999) and her postgraduate specialist degree in orthodontics (2003) from the University of Louvain, in Brussels.

In 2007, she was a Visiting Research scholar at the University of North Carolina at Chapel Hill. She defended her PhD about miniplates as temporary skeletal anchorage in Brussels in 2008.

In 2010, she finished a 2-year degree in lingual orthodontics at the Université Descartes (Paris). She was awarded the WJB Houston Oral Research Award of the European Orthodontic Society in 2008 and the Dewel award as a coauthor of the best clinical paper in the American Journal of Orthodontics and Dentofacial Orthopedics in 2011.

Between 2009 and 2014, she was Assistant Professor at the Department of Orthodontics of the University of Geneva. From 2014 to 2020, she was Associate Professor and Postgraduate Program Director of the Section of Orthodontics, Department of Dentistry, Aarhus University, and in 2015 she became Head of Section. At the same time, she maintained an active orthodontic practice in an interdisciplinary office in Geneva a few days per month.

She is an Active Member of the Angle Society of Europe and a full member of the European Board of Orthodontists.

In 2022, Marie became Professor and Head of Orthodontics at the Melbourne Dental School – a new challenge she is very much looking forward to. Her research interests are focused on clinical orthodontics, mainly skeletal anchorage, digital workflows and stability/retention.

How Efficient is Lingual Orthodontics?

To assess the efficacy of lingual orthodontics by comparing setups and posttreatment casts, consecutive patients treated with a customized lingual orthodontic appliance were included in this retrospective study. Pre- and post-treatment digital models were analyzed, as well as setups, and compared.

Statistically significant differences in bucco-lingual torque were found between the setups and posttreatment casts, for all upper teeth, except the central incisors. In the lower arch, statistically significant differences in bucco-lingual torque were found between the setups and posttreatment casts for the incisors and molars. Regarding the mesio-distal angulation of the anterior teeth, no statistically significant differences were found between setups and posttreatment casts in both upper and lower arches. The mean upper and lower intercanine distances, as well as the lower intermolar distance did not vary significantly between the setups and the posttreatment casts. The upper intermolar distance was significantly but not clinically different on the posttreatment casts compared to the setups.

Orthodontic treatment using a customized lingual appliance is very efficient in terms of control of mesio-distal angulation of all anterior teeth, as well as intercanine and intermolar distances. Bucco-lingual torque is less efficiently controlled, especially in the upper arch.



Dr Sunil Hirani (United Kingdom)

Correction of the transverse discrepancy in adults being treated with lingual fixed appliances presents a continual challenge especially when the midline suture has fused.

A narrow maxilla cannot always be treated with orthodontic expansion and this necessitates supplementation with other methods, for example: use of skeletal anchorage and surgical techniques to reduce the resistance against maxillary skeletal expansion from the 3 key structures: mid-palatal suture, zygomatic buttress bone and pterygopalatine suture. Skeletal expansion decreased as age increases in general.

This presentation will demonstrate a series of cases and how challenges were overcome pertaining to initial failure and then eventual success using a digitally designed MARPE (Miniimplant Assisted Rapid Palatal Expansion) appliance. This digitally designed appliance is the first of its kind and is a bone-borne appliance as opposed to a tooth-borne appliance. The key advantage of this bone-borne appliance is to avoid dental side effects (root resorption, tipping of the anchorage maxillary buccal molars, gingival recession, decrease in buccal bone thickness or dehiscence).

This in turn allows more skeletal expansion and basal expansion. This presentation will show the lessons learned over time by collaboration with an orthodontic technician who has a strong interest in skeletal anchorage and digital technology. Modifications made to our MARPE design will also be explained that utilise multiple mini-implants to allow sharing of the load across the suture and surgical cuts to guarantee expansion. It will also share how to improve case selection of patients by looking at published literature which can be used as a guideline.

Digital MARPE: From Failure to Success!

BSc (Hons), BDS, MSc, FDSRCS (Eng), MOrthRCS (Eng), FDS (Orth), GCAP(KCL)

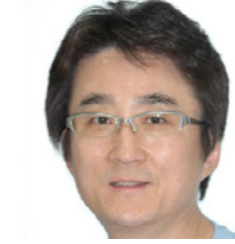
Sunil graduated from Guy's Hospital, London, England in 1996. He has a Master's degree in Orthodontics and is a Fellow of Dental Surgery of the Royal College of Surgeons (RCS) and holds a Membership in Orthodontics from the RCS which was awarded in 2003. In 2005, he passed his exit fellowship, FDS (Orth) which is the highest marker of orthodontic training in the UK and obtained first place.

He has published articles in leading journals such as the Journal of Orthodontics, Journal of Clinical Orthodontics, European Journal of Orthodontics and Orthodontic Update.

Sunil works exclusively in private practice and has a strong interest in digital orthodontics, miniscrews and interdisciplinary care.

He is a member of the following Professional Bodies:

- Current Chairman of the British Lingual Orthodontic Society (BLOS)
- Active Member of the European Society Lingual Orthodontics (ESLO)
- Active Member of the World Society of Lingual Orthodontics (WSLO)
- British Orthodontic Society (BOS)
- British Lingual Orthodontic Society (BLOS)
- British Dental Association (BDA)
- European Orthodontic Society (EOS)
- World Federation of Orthodontists (WFO)
- American Association of Orthodontists (AAO)
- Royal College of Surgeons of England (RCS)



Prof Ryoong-Ki Hong (South Korea)

Chair of Department of Orthodontics, Department of Orthodontics, Chong-A Dental Hospital, South Korea.

Education

- DDS, School of Dentistry, Seoul National University, Korea (1985)
- Orthodontic specialty training at the Department of Orthodontics, Dental School, Tsurumi University, Japan (1987.4-1991.3)
- PhD, Dental School, Tsurumi University, Japan (1991)
- Diplomate, WBLO (World Board of Lingual Orthodontists), (2011)

Professional Activity

- Director, Chong-A Orthodontic Clinic, Seoul, Korea.
- Adjunct Assistant Professor, Department of Orthodontics, College of Dentistry, Seoul National University, Seoul, Korea
- Adjunct Associate Professor, Department of Orthodontics, College of Dentistry, Dankook University, Chonan, Korea
- Adjunct Professor, Department of Dentistry, University of Ulsan, Seoul, Korea
- President of Korean Association of Lingual Orthodontists (KALO) (2010-2012)
- Councilor, Korean Association of Orthodontists (KAO) (2008-2019)

Memberships

- Founding member, Korean Association of Lingual Orthodontists (KALO)
- Active member, World Society of Lingual Orthodontics (WSLO)
- Active member, European Society of Lingual Orthodontics (ESLO)
- Active member, Korean Association of Orthodontists (KAO)
- International member, American Association of Orthodontists (AAO)
- Fellow, World Federation of Orthodontists (WFO)

Biomechanics of Lingual Orthodontics and TSAD.

Since the invention of lingual brackets by Fujita in 1979, many types of lingual brackets have been developed and each bracket system has its unique design. Lingual brackets can be classified by the direction of slot opening. Some lingual brackets have a lingually opening horizontal slot and others have an occlusally opening vertical slot.

In one lingual bracket system the anterior brackets have vertical slots, whereas the posterior brackets have horizontal slots. Most labial brackets, by contrast, only have single edgewise horizontal slots and are generally effective in controlling tooth movement. Some lingual brackets have horizontal slots and others vertical slots because each slot design is advantageous for a certain type of tooth movement.

Anboini multislotted lingual brackets, which have 3 slots and can be used with straight archwires, were developed for perfect 3-dimensional tooth control. In addition to the main 0.0180.025-in horizontal slots, the multislotted lingual brackets have a 0.0190.019-in vertical slot for rotation control and a 0.0160.016-in accessory slot for angulation control. Selecting the appropriate slot for each desired tooth movement facilitates simple and effective lingual orthodontic treatment.

Because the hard palate is large and high, micro-implants can be placed into various areas such as anterior rugae, lateral wall, and vault. Therefore, many temporary palatal anchorage devices have been introduced. I developed a multi-tasking micro-implant which is placed into the safe and solid paramedian area of the posterior hard palate. Its diameter and length are 2 mm and 4 mm, respectively. The most interesting feature of this micro-implant is a hexagonal head with two cross-shaped 0.032x0.032-inch slots, which provides easy placement and removal of 0.032x0.032-inch stainless steel or TMA power arm. The appropriately fabricated diverse power arms are fixation into the micro-implant head to apply orthodontic force in any required direction.

Placing the various forms of power arm into the SMS micro-implant, various midpalatal absolute anchorage systems (MAAS) are designed. Considering the center of resistance and the forces applied, this lecture describes the biomechanics behind tooth movement in various spatial planes with Anboini lingual orthodontic methods that use the SMS micro-implant.



Dr Ed Lin (USA)

Dr Lin is a recognized industry leader on CBCT, Suresmile (labial and lingual), temporary anchorage devices, intraoral scanning, 3D printing, and aligners.

Dr Lin is an internationally recognized speaker (US, Canada, Puerto Rico, South America, Europe, Australia, South Africa, and China), has written several articles that have been published in a wide variety of dental journals and has lectured at several orthodontic residency programs across the United States, Australia, and China.

Dr Lin is a Faculty and Clinical Advisory Board Member for SureSmile. He is also a Key Opinion Leader for American Orthodontics, Imaging Sciences International, Desktop Health, uLab, and Hu Friedy. He is on the Editorial Board of OrthoTown and Orthodontic Practice journals. Dr Lin is also a past member of the Technology Committee for the American Association of Orthodontists. In 2005, Dr. Lin helped to lead tests of cone-beam applications to integrate and create SureSmile wires for active therapeutic treatment of patients. Dr Lin fully converted his practice to a 100% SureSmile practice in 2007 for both labial and lingual treatment for all patients.

All practices have been involved with 3D imaging with cone beam computed tomography (CBCT) with the iCAT since 2005. His practices have also fully integrated intraoral scanning and 3D printing and have been completely impression free since 2015.

Dr Lin has been involved with aligner therapy since November of 1999, was a former Top 100 Invisalign Provider and sat on the Clinical Advisory Board for Invisalign and subsequently OrthoClear. Dr Lin has fully implemented 3D printing labs into his practices since 2013 and their practices produce all aligners now in-house with uLab.

Digital Hybrid Treatment - Cost-Effective Aligners & Lingual Appliances and for all Case Type.

3D dental technologies have completely revolutionized the 21st century orthodontic practice with patient treatment options and case management. With the explosion of 3D digital technologies in the orthodontic industry over the past 20 years, efficient digital workflow systems have become an integral component for the successful 3D digital orthodontic practice. In this lecture, Dr Lin will review how he and his team have implemented 3D imaging/CBCT, integrated SureSmile® for all full fixed orthodontic cases (labial and lingual), mastered the "Sub" 2-minute intraoral scan for impression free practices, created a 3D printing lab, and fabricated all orthodontic appliances off 3D printed models (including 3D printed IDB trays). Most importantly, they have created an efficient and cost-effective DIY aligner system as an alternative to Invisalign® for all their aligner patients. Dr. Lin will also review the impact of Easy RX for management of these 3D digital technologies for an incredibly efficient digital workflow system.

Learning Objectives:

- 1) To understand the digital workflow, clinical management, and mechanics for SureSmile robotically bent wires for labial and lingual treatment for all case types.
- 2) To understand how to create a DIY aligner system within your practice with uLab and the financial positive ROI it will make within your practice.
- 3) To understand how to implement a cost-efficient hybrid treatment option for your patients with DIY uLab aligners.



Dr Yoon-Ji kim (South Korea)

Dr. Yoon-Ji Kim is currently an assistant professor at the University of Ulsan College of Medicine and Asan Medical Center Seoul, Korea. She graduated from Dankook University, Cheonan, Korea in 2007 and received the orthodontic specialist board in 2011. She is the board member of the Korean Association of Orthodontists, Korean Society of Digital Orthodontists, Korean Orthognathic Society, and Korean Association of Lingual Orthodontists.

She is an active member of the World Society of Lingual Orthodontics. Her research interests are three-dimensional imaging, digital orthodontic using intraoral scan data, and machine learning methods for diagnosis of malocclusions and temporomandibular joint disorders.

Clear Aligners for Surgical Treatment of Class III malocclusions

Dental decompensation is critical for surgical orthodontic treatment.

Skeletal Class III patients often have labially inclined upper incisors and lingually inclined lower incisors to compensate for the sagittal skeletal discrepancy.

In addition, maxillary second molars are extruded as they often do not have occluding teeth in the mandible.

For those who have maxillary transverse deficiency, transverse compensation is observed showing buccal tipping of the upper molars and lingual tipping of the lower molars. Also, a difference in the molar and premolar inclination is shown among those who have facial asymmetry.

I will present treatment strategies for anteroposterior, transverse and vertical decompensation of skeletal Class III patients who were treated with surgery-first approach using virtual surgical planning and clear aligners. Biomechanical considerations for effective control of incisor and molar inclination using clear aligners and temporary skeletal anchorage devices will be discussed.

Yoon-Ji Kim, DDS, MSD, PhD, Assistant professor, Department of Orthodontics, Asan Medical Center, University of Ulsan School of Medicine, Seoul, Korea.



Dr Mugali Mujagic (France)

Dr Mujagic has had a private practice in Paris, France, since 1996. She specializes in lingual orthodontics and in 2006 limited her practice to that specific treatment approach. She obtained her dental degree from the University René Descartes Paris V, France, and received her 4-year orthodontic training at the same University.

Since 2013, she has been a visiting academic at the Department of Orthodontics and Dentofacial Orthopedics, University of Bern, Switzerland. She is the author of publications related to lingual orthodontics and has given many lectures internationally. Her interests include completely customized lingual appliances for adolescents and adults and orthodontics combined with aesthetic dentistry. She is a member of the scientific committee of the French Federation of Orthodontists. She is an active member of the Angle Society of Europe as well as a member of the Collège Européen d'Orthodontie, European Society of Lingual Orthodontics and World Society of Lingual Orthodontics.

Treatment Effectiveness & Quality of Results Using a Completely Customized Lingual Appliance.

The 70's provided orthodontics with a lingual approach in treatment management; from the concept of bonding a labial bracket on the lingual surface of a tooth, CAD/CAM technology brings nowadays state-of-the-art individualization of lingual brackets' design and archwires: a completely customized lingual appliance is fabricated for each patient, a set-up displaying the expected treatment outcome.

Through clinical cases, treatment management will be explained, quality of the results displayed. This lecture will address more specifically class II malocclusions correction managed with or without extraction, involving either intermaxillary elastics, bite jumping devices or TAD's.



Dr Martina Bräutigam
Dr med. Dr. med. dent. Pantelis Kalaitzidis (Germany)

Dr. Martina Bräutigam

- Exclusive Lingual Practice in Germany - Dr. med. dent. Martina Bräutigam 2007 - 2013
- Dental school; University of Münster, Germany 2014
- Doctor medicinae dentariae; University of Münster, Germany 2013 - 2015
- Private Dental Clinic; Kamen, Germany 2015
- Orthodontic Practice; Datteln, Germany 2015 - 2018
- Department of Orthodontics; University Clinic of Düsseldorf, Germany 2018
- Certified Specialist in Orthodontics and Dentofacial Orthopaedics; University of Düsseldorf, Germany 2019
- Orthodontic Practice; Rheine, Germany 2020
- Owner and founder of "kfo concepts", private orthodontic practice in Münster, Germany.

Dr. med. Dr. med. dent. Pantelis Kalaitzidis

- Dr. med. Dr. med. dent - Pantelis Kalaitzidis 2000 - 2007
- Medical school; University of Münster, Germany 2007 - 2012
- Dental school; University of Münster, Germany 2007 - 2013
- Department of Orthopedics and emergency medicine; hospital in Osnabrück, Germany 2015
- Doctor medicinae; University of Münster, Germany 2013 - 2016
- Department of maxillofacial surgery, plastic and reconstructive skin surgery; hospital in Münster 2016
- Master of oral Surgery and Implantology 2018
- Doctor medicinae dentariae; University of Münster, Germany 2017
- Certified Specialist in oral and maxillofacial surgery 2016 - 2020
- Practice for maxillofacial surgery and orthognathic surgery, Münster 2020
- Owner and founder of "MKG Centrum Münster", private practice, Germany.

Teamwork Makes the Dreamwork – Efficient Workflows in Surgery Cases with Lingual Orthodontics.

Treatment time in surgery cases is often long and adult patients usually request an invisible appliance. Ideal timing and a good collegial cooperation between the orthodontist and the surgeon optimizes the treatment process and outcome.

Lingual braces are a good solution for almost invisible treatments. Additional appliances like skeletal anchorage can simplify the tooth movement in such complex cases. Good timing is necessary to reduce the treatment time. A detailed treatment plan needs to be agreed between Surgeon and Orthodontist.

- What kind of protocol do you use for rapid palatal expansion?
- When is the ideal time for extraction of the wisdom teeth?
- What is the desired aesthetic outcome?
- Do we need extractions or additional appliances for decompensation?
- What kind of preparation before surgery do you need?

Various cases are presented here demonstrating the detailed appliances and optimized treatment procedures especially in lingual orthodontics.



Dr Medhi Peikar (USA)

Dr. Mehdi Peikar is the inventor of BRIUS and the founder of BRIUS Technologies, Inc.

Dr. Peikar is a practicing orthodontist

- From UCLA School of Dentistry.
- Master's degree in Quantum Mechanics and Condensed Matter, University of Illinois
- PhD in Biomechanics, Johns Hopkins University
- Dr. Peikar's unique background in academia has been instrumental in the design of BRIUS and continues to drive success in achieving superior biomechanical results.

The first BRIUS was first tested on a wax model and has since received FDA approval with numerous successful treatments and satisfied patients..

BRIUS: Third Way of Moving Teeth (NOT Braces, NOT Aligners)

www.brius.com

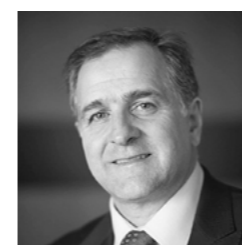
BRIUS is the third way of moving teeth since it fits in a different category called independent mover which is not braces or aligners. BRIUS is customized for each patient and is programmed to treat a wide range of malocclusions from simple crowding and spacing to complicated extraction cases, impacted canines, orthognathic surgery cases, and so on.

Each tooth is connected to an anchorage base through a custom-designed arm.

BRIUS uses AI and complicated algorithms to design the required arms for each tooth based on its specific route. AI and force/moment enhancement used in the design of BRIUS consider the age, ethnicity, and even gender of the patient to optimize the arm design towards a more predictable outcome.

The root surface is also being considered in the design. The thickness and design of the arm determine the force and moment required to move the tooth from its initial to its final position that is approved by the orthodontist in the virtual treatment plan.

Unlike the aligners, BRIUS treatment is not dependent on patient compliance and unlike braces, no adjustments are needed. BRIUS makes it possible to floss easier since there is no wire connecting the teeth.



Dr Steve Stramotas (Australia)

Dr Steve Stramotas completed his postgraduate specialist orthodontic degree at the University of Sydney, Australia. He has been in private practice for over 30 years and currently practices in Randwick, Sydney. Dr Stramotas has been a Key Opinion Leader and ANZ speaker for the Incognito Appliance for over a decade and he has lectured at numerous national and international meetings. He is also an honorary lecturer at the University of Sydney and is in charge of the 'lingual programme'.

Dr Stramotas plays an integral part in assisting those newly certified in using the Incognito appliance, advising on the Incognito Lingual System at basic, intermediate and advanced levels.

My Wonderful Incognito Journey over 15 years - Lessons Learned Treating Simple & Complex Cases.

In my 25 years of treating patients in private practice, using a customized orthodontic appliance with digital planning has certainly been revolutionary. As for myself, using a 'truly invisible' customized lingual appliance such as the Incognito, has been extraordinary. It has afforded me the opportunity to treat many adults and adolescents, whether simple or complex in nature, with remarkable ease and great success.

This in relatively efficient time frames and providing considerable satisfaction to both myself and to the patients involved. I look forward to sharing my 'journey with Incognito' with you all.



Dr Rafi Romano (Israel)

- Specialist in Orthodontics and Dentofacial Orthopedics - Hebrew University, Jerusalem
- Private Orthodontic Practitioner, Tel Aviv, emphasizing adult and esthetic orthodontics
- AAO Ambassador representing the Israel Orthodontic Society
- Active Member of the EAED
- Editorial Board Member of the International Journal of Esthetic Dentistry – IJED
- Former Editor-in-chief of "Orthodontics: The Art and Practice of Dentofacial Enhancement," Quintessence Publishing
- Former Editor of the Journal of the Israeli Orthodontic Society
- Lecturer Worldwide on esthetic orthodontics and multidisciplinary treatment
- Invisalign Diamond Provider
- Advisory Board Member for Align Technologies

Editor of five books - Lingual Orthodontics (Decker, 1998), The Art of the Smile (Quintessence, 2005), The Art of Treatment Planning (Quintessence, 2009), Lingual & Esthetic Orthodontics (Quintessence, 2011), The Art of Detailing (Quintessence, 2013).

Digital Simulation and Digital Planning - Essential Tools for Any Treatment Modality.

Lingual Orthodontics has raised a challenge for clinicians to pre-plan teeth positions which was previously done solely by laboratories and only recently by virtual 3D software.

Nevertheless, digital simulation at initial consultation has become an essential requirement both by patients and doctors when choosing a treatment modality such as lingual braces or clear aligners.

We want to assess the types of movements, their magnitude and the end result and to check alternate options such as: expansion and proclination, extraction, or orthognathic surgery.

The lecture will review some simulation tools available with case presentations.



Dr Nour Eldin Tarraf (Australia)

BDS(Hons), MDS(Hons), MOrth RCSEd, MRACDS (Ortho) PhD. Uni of Syd 2021

ASLO Past President.

Dr Tarraf finished his BDS at Cairo University with Honors in 2001 followed by an orthodontic residency at Cairo University. He then moved to Sydney where he completed his Masters degree in Orthodontics at the University of Sydney in 2008 with Honors. He works in private practice in Chatswood, Sydney and is involved in research and teaching at the University of Sydney. With his practice composed of 40% adult patients Dr Tarraf has a special interest in invisible orthodontic techniques such as lingual orthodontics and Invisalign.

- He was the President of the Australasian Society Of Lingual Orthodontics.
- He is a Titular member of the European Society of Lingual Orthodontics.
- Active member of the World Society of Lingual Orthodontics.

Dr Tarraf also has a keen interest in the clinical applications of temporary anchorage devices (TADs) and is currently working towards a PhD on the application of skeletal anchorage in growth modification for growing children. He has lecture nationally and internationally and has number of scientific publication.

Skeletal Anchorage in Growing Children.

The inclusion of TADs in orthodontic treatment has transformed the orthodontic approach to cases with missing teeth.

The application of TADs to lingual orthodontics poses some unique challenges. In addition to the biomechanical considerations for maximum efficiency, the aesthetics and comfort of the setup must also be carefully considered. The customized nature of lingual appliances makes preplanning the mechanics essential for maximum clinical efficiency.



Dr Nikhilesh Vaid (India)

Leadership Positions & Honours:

- President Elect, World Federation of Orthodontists ...Presidential tenure 2020-25.
- Chair, WFO Board Certifications Committee & WFO Promotions Committee (2015-20)
- President, Asian Pacific Orthodontic Society (2014-16)
- President, Indian Orthodontic Society (2014-15)
- Editor in Chief, APOS Trends in Orthodontics (2011-2020)
- Advisory Board Member, World Implant Orthodontic Association (2014-2020)
- Vice President, Indian Orthodontic Society (2012-13)
- Joint Editor, Journal of Indian Orthodontic Society (2006-10)

Academic Positions:

- Assistant Dean (Academics), European University Dental College, DHCC, Dubai, UAE (2018-till date)
- Professor, European University Dental College, DHCC, Dubai, UAE (2016-till date)
- Professor, YMT Dental College & Hospital, Navi Mumbai, India (2012-2016)
- Associate Professor, YMT Dental College & Hospital, Navi Mumbai, India (2011-12)
- Associate Professor, Rishiraj Dental College & Hospital, Bhopal, India (2007-12)
- Assistant Professor, Rishiraj Dental College & Hospital, Bhopal, India (2005-07)
- Assistant Professor, PDY Patil Dental College & Hospital, Navi Mumbai, India (2002-03)

Professor Nikhilesh R Vaid is the President of the World Federation of Orthodontists. He is also a member of the Edward H Angle Society of Orthodontists- North Atlantic Component. He is an Adjunct Professor at Saveetha Dental College, Saveetha Medical & Technical University, Chennai, India. He is a former Professor and Vice-Dean of the European University College in Dubai, UAE and has a Private Practice in Dubai and Mumbai, India. He has widely published and edited journals including the "Seminars in Orthodontics" on five occasions and was the Editor in Chief of "APOS Trends in Orthodontics" from 2010-20. He's currently Editor Emeritus of the same.

He's published more than 150 peer reviewed papers and text-book chapters and has lectured in more than 50 countries around the world.

The important forums at which he has lectured include the AAO Annual Sessions, the International Orthodontic Congresses and many more. Prof Vaid's current areas of interest are Evidence Based Protocols, Technology, Aligners and Rx effects and Management Protocols. He is passionate about Bollywood, Modern Indian Art, Cricket, Single Malt Whiskies and of course Orthodontics. His mission is to encourage global collaboration in the profession through leadership, advocacy and voluntary service towards professional societies.

The Emperor's New Clothes! - Demystifying aligner science on the aesthetic orthodontic appliance terrain!

More than meets the EYE!

Aligner Evidence through the Clinician's Lens

Aligners play a significant role in current clinical protocols and use is increasing in contemporary practice. It's estimated 30% of orthodontic patients will be treated by aligners next year!

Scholarly evidence based on prospective clinical trials is scarce and confusing to clinicians making decisions in practice.

This lecture critically evaluates aligner science based on:

- E- evidence as it exists today!
- Y- yearning for clinical applicability! - discuss the missing links
- E- enlist / enumerate challenges and proposed solutions in planning aligner research

The Audience will be able to

- Understand the nuances of contemporary aligner scholarly literature and its applicability to clinical practice
- Differentiate aligner claims that are promotional strategies versus ones that have been tested on evidence
- Understand the missing links in aligner research that can be addressed in future trials
- Understand the role of adjuncts in successful aligner therapy
- Optimize technology in aligner therapeutics



Dr Tony Weir (Australia)

Dr Weir has collected a large database of cases (14,000 plus) from 14 experienced orthodontists in Australia, New Zealand and the United States to enable independent research into the efficacy of aligners, which is my primary research interest.

Dr Weir has written for nine Australasian and six American journal publications.

Education

- Bachelor of Dental Science (1st Class Honours) University of Queensland 1983
- Master of Dental Surgery (Orthodontics) University of Adelaide 1991

Employment

- Honorary Senior Lecturer, University of Queensland 2017-current. Research supervisor for 10 postgraduate research projects
- Honorary Senior Clinical Lecturer, University of Adelaide 2019-current. Research supervisor for 5 postgraduate research projects

Miscellaneous

- Winner 2016 Raj Prasad Case Award ASO (South Australia Branch) for an Invisalign 4 premolar extraction case
- 2021 Milton Sims Visiting Professor, University of Adelaide
- 2022 P Raymond Begg Research Award, Australian Society of Orthodontists

Overcoming Clear Aligner treatment Shortfalls - The Scientific Evidence and its Application.

Let's look at our most recent evidence, derived from a 14,000 patient database, published in 17 articles in the last 18 months.

Answering:-

- 1) How well do digital treatment plans translate into clinical reality?
- 2) Do we need to customise the supposedly already customised digital aligner treatment plans we receive from aligner companies?
- 3) What are the apparent limits to current aligner treatment? and, revealing something quite new and scary!



Dr Siva Vasudavan (Australia)

Dr Vasudavan is a Specialist Orthodontist from Perth, Western Australia.

He has a long list of publications and a great deal of very bright experience to his name.

“Where the Magic Happens”

A short presentation illustrating the use of customised technologies to address complex challenges in contemporary practice.



Dr Geoffrey Wexler (Australia)

- 1981 BSc Uni Of Melbourne
- 1982 FRACDS Childrens Dentistry
- 1983 MDsc Children's & Preventive Dentistry 1983, Uni of Melbourne
- 1988 MSc Orthodontics, Eastman Uni Of London
- 1988 Dip Orth RCS Eng
- Held a number of Dental Society offices in Australia
- Presented to ASLO and other meetings
- 1989- Present privately in Melbourne
- 22 years Lingual Practice
- 11 Years a SureSmile® Practitioner
- 2019 - President of Australasian Society of Lingual Orthodontists,

Inspired by teachings of Dr Stuart McCrostie, Drs Scuzzo, Takemoto, Fillion, Wiechmann, Rohit Sachdeva and many Brilliant SureSmile doctors

Dr Wexler has no financial or beneficial arrangement with any dental supplier.

Every-Day Digital Set-Up and Delivery for Lingual Braces.

Digital Set-Up and Delivery for Lingual Braces removes huge barriers of expensive, laborious manual components and simplifies delivery of treatment.

I show a super-capable, simple-to-use but sophisticated digital set-up and delivery system, enabling Hidden Lingual Braces with major cost savings and high efficiency, making lingual braces as easy and fast as labial in every-day orthodontic practice.

Blending Lingual into your Everyday Practice.

Object-Based Outcome Planning quickly and easily remediates bracket position errors, eliminates wire-bending by the doctor and drives machine-bending of wires made of Super-Elastic NiTi, TMA or CoCr, having WYSIWYG accuracy. System has simple design & execution, using robust, super-accurate Self-Ligation brackets, or *any* bracket of your choice.

Elimination of so many barriers to entry and delivery makes Lingual Braces routine in our every-day practice.

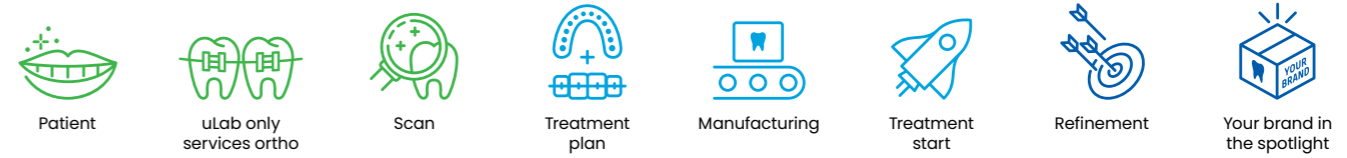
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- Quality material
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 - Your brand
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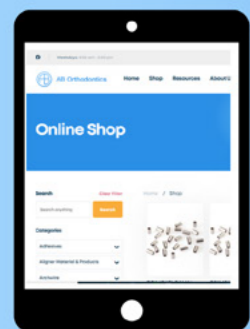
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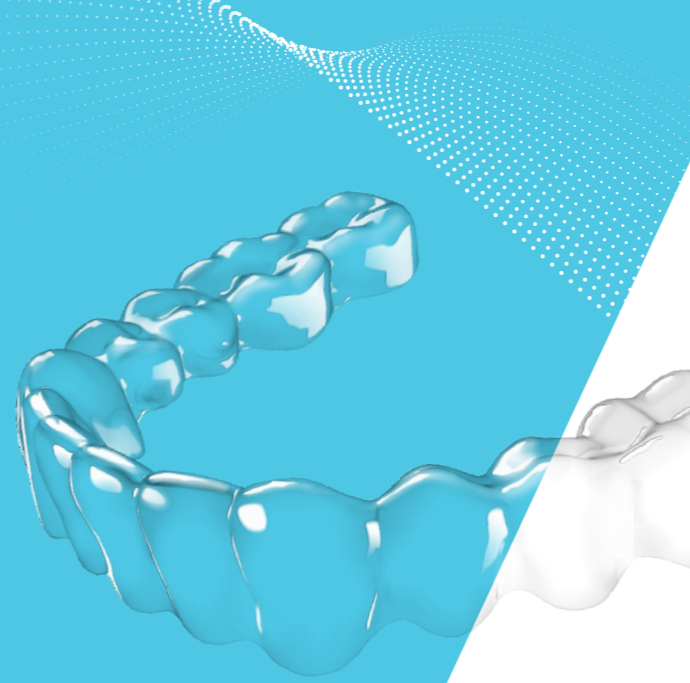
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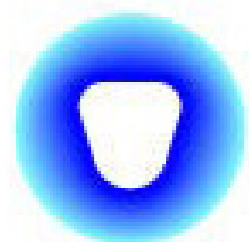
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