3rd SCIENTIFIC CONGRESS FOR

ALIGNER ORTHODONTICS

21. AND 22. NOVEMBER 2014 | COLOGNE

Programme

Deutsche Gesellschaft
für Aligner Orthodontie

dgao

www.dgao.com

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FOREWORD

Oh boy, time sure flies!

is the refrain of a poem by Heinz Schenk. No doubt everyone agrees, the DGAO was only founded recently, and it is only the day before yesterday that the 1st scientific congress took place. This was followed by the 2nd congress yesterday, and today we are already inviting you to attend the 3rd scientific aligner congress. Like an adolescent, time has led to the DGAO changing both mentally and physically. The shoulders are now broader, the number of members has grown, and many new experiences have been collected. This positive trend is to continue.

No forum is better suited to gain valuable insights than a specialist congress which conveys practical and scientific knowledge. In other words, anyone seriously involved in aligners, should take part in the 3rd scientific DGAO congress.

The president, conference chairwoman and all members of the board can promise you interesting presentations, fascinating discussions, a pleasant environment and gaining invaluable experience.

Time has passed by in a flash since our invitation. As you can now experience with your own eyes and ears, we would like to confront you today with the future of orthodontics. So welcome to the 3rd scientific congress for Aligner Orthodontics.

Prof. em. Dr. Rainer-Reginald Miethke
President of the DGAO e.V.

Dr. Julia Haubrich
Conference chairwoman

PROGRAMME OVERVIEW, FRIDAY 21. NOVEMBER 2014

PRE-CONGRESS MEETING

09.00 **Billing of aligner orthodontics**
U. Duncker

10.15 **Discussion**

10.30 **Coffee break**

11.00 **Modern management of orthodontic practices**
J. G. Bischoff

12.15 **Discussion**

12.30 **Come together**

CONGRESS: DIGITAL FUTURE I

13.30 **Welcome**
R.-R. Miethke

13.35 **Keynote speech: the future of robot-guided surgery**
E. Keeve

14.30 **The Digital Workflow with Invisalign®: today and beyond**
S. Kaza

14.50 **Aligner with SureSmile®: opportunities and limitations**
R. Müller-Hartwich

15.20 **Discussion**

15.40 **Coffee break**

CONGRESS: DIGITAL FUTURE II

16.10 **iTero® scanner in 2014: state of the art**
F. Garino

16.30 **From scan via DVT to interactive CC**
T. Drechsler

16.50 **The digital practice: vision - reality - future**
B. Sonnenberg

17.10 **Positioning precision of CAD/CAM-manufactured Nitinol® lingual retainers**
P. Schumacher

17.30 **Discussion**

GALA EVENING

19.30 **Wartesaal am Dom**

PROGRAMME OVERVIEW, SATURDAY 22. NOVEMBER 2014

CONGRESS I

09.00 **How effective is treatment with the Invisalign® system according to the PAR index?**
R.-R. Miethke

09.20 **Clinical evaluation examples using the PAR index**
J. Haubrich

09.30 **Treatment with Orthocaps®: new impulses, new opportunities**
W. Khan

10.00 **Class III treatment: opportunities and limitations**
K. Thedens

10.30 **Class II corrections in non growing patients with Invisalign®: dento-skeletal effects**
T. Castroflorio

10.50 **Discussion**

11.00 **Coffee break**

CONGRESS II

11.30 **A retrospective clinical study evaluating the efficacy of aligner therapy**
B. Solano Mendoza

11.50 **Patient Reported Outcomes with Invisalign® patients**
I. Schaefer

12.00 **Ski races are decided in the summer**
B. Reistenhofer

12.20 **Aligner systems in daily practice routines**
H. Hammad

12.30 **Discussion**

12.40 **Presentation of the DGAO Research Award**

13.00 **Lunch break**

PROGRAMME OVERVIEW, SATURDAY 22. NOVEMBER 2014

CONGRESS III

14.00 **Aligners and mini implants, a good team?**
B. Wilmes

14.20 **4 premolar extraction case treatment with Invisalign®**
K. Ojima

14.40 **eCligner Treatment (3D digital Clear Aligner)**
TW. Kim

15.10 **Esthetic Management of interdisciplinary and complex cases with Invisalign®**
A. Bazzucchi / A. Pavone

15.30 **"Friction Pads": an alternative to attachments?**
B. Kamuf

15.50 **Discussion**

16.00 **Coffee break**

CONGRESS IV

16.30 **Approximal enamel reduction (AER): requirements, implementation, accuracy**
P.-G. Jost-Brinkmann

16.50 **Effect of treating croweded teeth with Invisalign® and IPR on interradicular bone**
A. Hellak

17.10 **Opportunities and limitations of aligner therapy**
M. Simon

17.30 **The next big thing in Clear Aligner therapy!**
S. Kandil

17.40 **Deep bite correction with Invisalign®**
J. Schwarze

18.00 **Discussion**

GENERAL ASSEMBLY

18.10 **German Association for Aligner Orthodontics e.V.**

PROGRAMME OVERVIEW ZFA CONGRESS

FRIDAY, 21. NOVEMBER 2014

13.30 **Perfect patient reception: practice, atmosphere and marketing**
K. F. Weltersbach

15.15 **Break**

15.30 **Bleaching**
S. Höfer

16.30 **End of day 1**

GALA EVENING

19.30 **Wartesaal am Dom**

SATURDAY, 22. NOVEMBER 2014

09.30 **Patient loyalty through appreciative communication**
Part 1
K. F. Weltersbach

11.00 **Break**

11.30 **Patient loyalty through appreciative communication**
Part 2
K. F. Weltersbach

13.00 **Lunch break**

14.00 **Patient photography - doing it right**
R.-R. Miethke

15.00 **Trouble-shooting: professional problem and conflict management**
K. F. Weltersbach

16.30 **End of day 2**

SPEAKERS

Ursula Duncker, Berlin (Germany)

Aligner billing from A to Z: intelligent planning, fair billing, important key performance indicators

Pre-congress meeting: Friday, 21. November 2014, 09.00 hrs

- Supply and demand: different aligner systems on the market …
- Fundamental decision: fabrication in own or external laboratory?
- Treatment planning: all important fee positions
- Billing of aligner treatment for direct payers and private patients
- Billing of supportive measures and approximal enamel reduction (AER)
- Aid eligibility of aligner treatment
- Handling reimbursement centres
- Applicable economic key performance indicators

Dental assistant in orthodontic practice; occupation orthodontic dental technician; business administration graduate; orthodontic practice manager in three large orthodontic practices, quality management officer, TÜV-certified; speaker on orthodontics

Own business "Orthodontic Management Berlin" …

Offers numerous seminars and workshops on orthodontic fee and laboratory billing, private services, practice and quality management, business administration of orthodontic practices (key performance indicators), development of an own QM system for orthodontics, publisher of a monthly journal ("KFO KOMPAKT")

Numerous cooperation ventures ...

with dentist associations, chambers of dentistry, Professional Organisation of German Orthodontists, universities, accountants, orthodontic software companies, dental industry, Mind QM

To date: training of more than 1500 orthodontic practices

To date: training and on-site "screenings" in more than 200 orthodontic practices

30 years of experience exclusively in the field of orthodontics

Johannes Georg Bischoff, Cologne (Germany)

Modern management of orthodontic practices

Pre-congress meeting: Friday, 21. November 2014, 11.00 hrs

Orthodontic practices are successful if they manage to combine professional and economic competence. This presentation demonstrates how orthodontists can keep a clear overview of numbers and use these for business decisions without too much time expenditure and previous knowledge of business administration with the aid of suitable control instruments. The following questions are answered:

- Which fees do you require as a minimum for a current case?
- How do you compare with other orthodontic practices?
- How much money can you withdraw from your practice?
- What has happened to your private money?
- How do your software interfaces work?
- How do labour and material requirements differ for aligners when compared with multi-bracket treatment?
- What different strategies are available for aligners in orthodontic practices?

The accountant and auditor teaches Controlling at the Bergische University Wuppertal and is the major partner of the PROF. DR. BISCHOFF & PARTNER® Accountants, Lawyers, Auditors consulting group. The accounting firm PROF. DR. BISCHOFF & PARTNER® AG successfully services over 1000 dental practices, including close to 100 orthodontic practices, nationwide with 98 employees and 17 professionals in Cologne, Berlin, Chemnitz, Munich, Mannheim and Hamburg. With PraxisNavigation®, Prof. Dr. Bischoff developed completely new approaches for economic practice management. Over 12,000 dentists from all over Germany have attended his seminars on the topic of "Modern Practice Management".

He has prepared an economic study on brackets vs aligners for orthodontists. In addition, PROF. DR. BISCHOFF & PARTNER® have introduced a free HKP support. Time and time again, private insurance providers and benefit offices try to limit or refuse reimbursement of the fees for Invisalign treatment. This HKP-Support (HKP = treatment and costs plan) protects orthodontists and their patients against unjustified refusals.

SPEAKERS

Erwin Keeve, Berlin (Germany)

Keynote speech:
The future of robot-guided surgery

Friday, 21. November 2014, 13.35 hrs

3D x-ray imaging has established itself in clinics and practices during the past ten years. It has become an integral part of diagnostics and is increasingly also being used for the planning of cranio- and maxillofacial interventions. In future these systems will be used more often intra-operatively to accompany the surgical implementation of planning. New intervention techniques will be opened up in combination with robot-guided instruments.

In this presentation, the technological developments from numerous research institutes will be described to show how intra-operative 3D x-ray imaging could develop over the next few years.

In specific, technical innovations in robot-guided surgery will be presented, which allow precise surgical implementation of surgery planning with the assistance of navigated surgical instruments.

The presentation will also give us a "look" into the robot surgery theatre of the Charité which is being equipped with parts of the technology presented over the coming years.

Erwin Keeve is an engineer and computer scientist. He is professor of Navigation and Robotics at the Charité University Medical Facility Berlin. The focus of his work is applied research and development for image-guided and minimally invasive surgery.

Prof. Keeve if founder of the SiCAT KG and HiCAT GmbH companies and developed the first digital volume tomography system as well as the first open 3D x-ray unit ORBIT. He received the Innovation Award for Medical Engineering for his research in the field of intra-operative imaging. Before that, he researched and taught at the University Clinic Oslo and the Harvard Medical School among others.

Erwin Keeve studied electrical engineering and graduated in 1996 under Stanford professor Bernd Girod and Max-Planck Director Hans-Peter Seidel in electrical engineering and computer sciences at the Friedrich-Alexander-University Erlangen-Nuremberg. Then he moved to the Harvard Medical School in Boston, USA. In 1999 he was asked by the Research Centre caesar in Bonn to establish the department of medical engineering and returned to Germany. In 2007, he followed an invitation of the University Clinic Oslo as visiting professor to the Interventional Centre for minimally invasive surgery. In 2008, he accepted the Fraunhofer Foundation professorship at the Charité University Medical Facility Berlin for navigation and robotics and returned to Germany again.

SPEAKERS

Srini Kaza, Los Altos (USA)

Digital workflow with Invisalign®: Today and beyond

Friday, 21. November 2014, 14.30 hrs

Invisalign® is founded around the use of digital data and workflow to create Orthodontic treatments. A fully digital workflow has many advantages around accuracy and precision. Over the years, we have realized that a digital workflow also enables customization on many fronts. For example, tooth movements, attachment placement and other factors can be customized for each patient based on an analysis of the digital data. In this talk, we will discuss some examples and ways where this has helped create highly effective treatments for the doctor and patients. In addition, there is a strong trend of Orthodontic practices going more digital and also collecting more sophisticated information. We will discuss how Invisalign® can take advantage of these trends and advances to help our doctors to create and deliver even more sophisticated and effective treatments in the future.

Srini Kaza, VP Product Innovation, leads the product innovation group, focusing on areas such as Biomechanics, Materials, 3D computational geometry, Advanced simulation and design methodologies, scanning technologies and clinical research. One of the biggest focus areas for his group is to improve the performance of the Invisalign® device through innovative research and technologies. His group has created the technologies that form the basis for Invisalign® product performance improvements such as I1.5, G3, G4 etc. Most recently, his group has delivered the SmartTrack material and G5 deep bite solution. His group is currently working on several innovative features that are expected to be released in the future. Srini has been with Align Technology for 15 years and has made significant contributions over the years in developing several new and innovative manufacturing technologies, 3D scanning technologies, 3D software and emerging technologies. Srini has an MS in mechanical engineering from University of Utah and MBA from Wharton school of business.

SPEAKERS

Ralf Müller-Hartwich, Berlin (Germany)

Aligner with SureSmile® – opportunities and limitations

Friday, 21. November 2014, 14.50 hrs

The completely digital SureSmile® system was developed primarily for the planning and fabrication of customised multi-bracket appliances. It offers extensive tools for detailed treatment simulations. The required 3D data of the patient can be obtained through model scans, intra-oral scans or CBCT scans. For the first time the actual root and bone geometries can be used for treatment simulation and not only the crown geometry. A virtual set-up is prepared on this basis, then the wires for lingual or conventional multi-bracket appliances are planned and bent by the robots. With the capability of exporting every set-up and every intermediate step to the 3D printer in a standard format, SureSmile® could be directed for the planning and fabrication of positioners and aligners. This allows matched combination of aligner and multi-bracket treatments. The presentation shows the procedures, possibilities and limitations of this method.

Dr. Ralf Müller-Hartwich has been working at the Charité – University Medical Facility Berlin since 2001, and runs is own dental practice since 2011 in Berlin. In both fields, his focus is on the clinical application of CAD/CAM methods in orthodontics. Certified for the Invisalign® system since 2001, he has gained experience with a number of different systems, and since 2005 he has been working with the SureSmile® system, which was primarily developed for multi-bracket appliances, but can also be used for the planning and fabrication of aligners.

SPEAKERS

Francesco Garino, Turin (Italy)

I-Tero® scanner in 2014: state of the art

Friday, 21. November 2014, 16.10 hrs

The presentation will be focused on the use of the I-Tero® intraoral scanner. First, some technical aspects will be described together with the different types of other scanners available today. Then, it will explained how is the process of intraoral scanning with do and dont's. The speaker will show benefits in clinical outcomes, the learning curve needed, share data collected in four years of experience and share some articles published in the recent years. It will also highlighted how intraoral scanning can create benefits in the workflow of a busy practice. Last, it will be presented how intraoral scanner technology can be used for other procedures such as 3D planning in orthognathic cases from a virtual planning to 3D printing.

Graduated as MD University of Torino, Italy

Orthodontic specialization Department of Orthodontics, University of Padova, Italy

Diplomate European Board of Orthodontics (EBO)

Active member SIDO (Italian Society of Orthodontics)

International Member American Association of Orthodontics (AAO)

Member European Society of Orthodontics (EOS)

Active Member European Society of Lingual Orthodontics (ESLO)

Chief dental officer Winter Olympic Games Turin 2006

Author of more than 80 orthodontic papers

Speaker in Congress and Meetings in Europe, Middle East, USA

Invisalign® speaker since 2008 and member of the Align technology Advisory board

His clinical interest is focused on self ligating brackets, early treatment, digital technologies and non compliance orthodontic appliances.

SPEAKERS

Thomas Drechsler, Wiesbaden (Germany)

From scan via DVT to interactive CC

Friday, 21. November 2014, 16.30 hrs

Digital impression taking is finding increased use in modern orthodontics. The digital workflow offers considerable benefits in practice, in particular for the transfer of data, be it for digital model processing or for fabricating digital set-ups for fixed orthodontic appliances, but in specific for creation of the Invisalign® ClinCheck®. This way, the combination of intra-oral scan and cone beam CT results in far more precise diagnostics and this has a decisive effect on planning therapy. In particular, the new planned ClinCheck-Pro® generation will represent a quantum leap in terms of communication and planning implementation in aligner therapy and will result in a considerable improvement of clinical results.

1982 - 1986 Apprenticeship, dental technician in Worms

1985 - 1991 Degree in dentistry at the Johannes-Gutenberg-University Mainz

1992 - 1994 Residency as an orthodontic specialist in Wiesbaden and Bad Soden

1994 - 1995 Research assistant at the Christian-Albrechts-University Kiel (Prof. Fischer-Brandies, Prof. Bumann)

1995 Awarded a doctorate degree in forensic medicine by the University Mainz (Prof. Mattern)

1996 Studied in the USA at various clinics and dental practices (Boston, Los Angeles)

1997 Specialist orthodontic office in Wiesbaden

2003 - 2012 Vice president of the German Association for Lingual Orthodontics (DGLO)

2004 Invisalign® speaker of Align Technology Europe

Since 2009 Board and founding member (press officer) of the German Association for Aligner Orthodontics (DGAO)

2010 - 2012 President of European Society of Lingual Orthodontics (ESLO)

Since 2013 President of the Dentistry Science Society Wiesbaden

Invisalign® Diamond Doctor with nearly 1500 successfully treated Invisalign® patients

International speaker in the field of invisible orthodontics

Scientific research in collaboration with several universities

Development of orthodontic instruments and applications

Boris Sonnenberg, Stuttgart (Germany)

The digital practice: vision - reality - future

Friday, 21. November 2014, 16.50 hrs

The digital practice is no longer simply a vision - numerous area in an orthodontic practice can already be covered. Whereby efficiency and effectiveness should be paramount. On a guided tour of his practice which opened in April 2014, Dr. Boris Sonnenberg demonstrates his vision of a future-oriented digital practice.

1991 - 1996 Degree in dentistry at the Eberhard-Karls-University Tubingen

1999 Awarded a doctorate degree under Prof. Dr. Dr. G. Göz, University Tubingen

1997 Residency as an orthodontic specialist

2000 - 2001 Clinical internship as part of residency in orthodontic surgery, cleft and palate centre, University Clinic Tubingen

2001 Orthodontic specialist

2002 Establishment of orthodontic joint practice Dr. Boris Sonnenberg and colleagues

Since 2004 Member of the Invisalign® European Clinical Education Council 2004

Since 2004 Clinical Speaker Invisalign®

Since 2005 Chairman of the Stuttgart branch of the Professional Association of German Orthodontists

Since 2006 Appointed visiting professor at the State University Sevilla

Since 2008 Founding member and vice president of the German Association for Aligner Orthodontics e.V. (DGAO)

Since 2009 Private and court-appointed expert of the regional dentist chamber Stuttgart, KZV expert for the KZV-BW and deputy member of the expert commission for questions pertaining to dental liability for the regional dentist chamber BW

Pascal Schumacher, Köln (Germany)

Positioning precision of CAD/CAM-manufactured Nitinol® lingual retainers

Friday, 21. November 2014, 17.10 hrs

Permanent retention is presently the means of choice to stabilise orthodontic treatment and to prevent undesired movement of teeth. The demand for permanent retention is becoming increasingly popular to prevent post-therapeutic changes in the aesthetically sensitive area of anterior teeth. With increasing dwell times of lingual retainers in the patient's mouth and as retainers are also necessary in the maxilla despite space restrictions, the demands on accuracy are increasing.

The speaker has developed a computer-guided positioning and fabrication method for lingual retainers which meets maximum requirements for precision and allows the use of Nitinol® as material.

The aim of this study was to examine to which degree this method assures the precise transfer of the position of a lingual retainer as calculated for the fabrication process to the intra-oral situation of the patient.

Dr. med. dent. P. Schumacher studied dentistry at the Rheinische Friedrich-Wilhelms-University Bonn and certified in 2009. He graduated in 2010 with his thesis: "A comparison of digital direct flat detector and analogue film foil technique in the representation of normal anatomical structures of the female breast". In 2009 he started further orthodontic training in the practices Drs. Hahn, Hamburg and Dr. Wüllenweber, Aachen. In 2012 he continued his training at the Polyclinic for Orthodontics at the RWTH Aachen (Com. Director: Prof. Dr. U. Fritz). In 2013 he was appointed as an orthodontic specialist.

Rainer-Reginald Miethke, Berlin (Germany)

How effective is treatment with the Invisalign® System according to the PAR index?

Saturday, 22. November 2014, 09.00 hrs

42 pairs of study models (initial and final models) of consecutive patients from a practice of experienced Invisalign® users were analysed using the PAR index.

The mean initial PAR value was 20. The mean end PAR value was 5. Thus the PAR index was reduced significantly on average by 15 points. The initial PAR value was decreased by an average of 66%. Worsening was not observed in a single instance. 28/42 patients were assessed as being "improved", 10/42 were classified as "greatly improved" and 4/42 as "worse/no different".

Treatment with the Invisalign® system on 42 non-selected Invisalign® patients resulted in an average reduction of the initial PAR value of 66%. With an initial PAR value of 20, malocclusions tended toward the lower severity scale. The initial findings did not worsen in any of the patients.

1969 university graduation, 1972 awarded a doctorate degree, 1973 accreditation as specialist in orthodontics; then Assistant Professor, Tenure Professor. 1978 Habilitation, 1978 to 1979 Louisiana State University, 1983 Head of the Department of Orthodontics and Paediatric Dentistry, Free University Berlin; 1992 to 1993 visiting professorship Royal Dental College/Århus. 1994 to 2009 Head of the Department of Orthodontics merged Charité. 2009 to 2013 Chairman and Senior Consultant in Orthodontics, Hamad Medical Corporation, Qatar.

1986 to 2008 Editor of the orthodontics publication "Praktische Kieferorthopädie", later published as "Kieferorthopädie" followed by Editor-In-Chief "World Journal of Orthodontics". 1987 and 1992 President of the annual conferences of the German Society for Orthodontics, 2006 President of the European Orthodontic Society. Honorary member of the Lebanese and Thai Orthodontic Society and the Orthodontic Society of Berlin and Brandenburg and Honourable Consultant of the Macao Orthodontic Society. More than 170 publications as well as 250 German and international lectures.

Julia Haubrich, Cologne (Germany)

Clinical evaluation examples using the PAR index

Saturday, 22. November 2014, 09.20 hrs

The PAR index is accepted internationally in orthodontics as a meaningful option for evaluating the success of orthodontic treatment. The study presented by Prof. R. R. Miethke is specifically based on the evaluation of 42 non-selected treatments with the Invisalign® system using the PAR index. The treatment results of this study were examined according to clinical functional parameters and compared with evaluated PAR index.

1996 - 2001 Degree in dentistry at the Albert-Ludwig-University Freiburg im Breisgau

2002 - 2003 General dentistry in a dental practice in Munich and Karlsruhe

2002 Awarded a doctorate degree ("Dr. med. dent.") at the orthodontic department of the Albert-Ludwig-University in Freiburg under Prof. Dr. Irmtrud Jonas

2003 - 2005 Postgraduate student in Orthodontics in the private practice of Dr. Werner Schupp

2006 Postgraduate student in Orthodontics at the Universtiy of Berlin (Charité Universität), department of orthodontics under director Mr Prof. Dr. R. R. Miethke

2007 Accreditation as "Kieferorthopädin" at the Chamber of Dentistry Northrhine-Westfalia

2007 Collaboration in the orthodontic pivate practice of Dr. Werner Schupp, Dr. Bahareh Talebloo and Dr. Julia Haubrich in Cologne- Rodenkirchen

Certified user of the Invisalign® treatment method and international speaker for the Clinical Education Council of of Align Technology in Europe and Asia

Board and founding member as well as conference chairwoman of the German Association for Aligner Orthodontics (DGAO)

Assistant lecturer at Innsbruck University

Numerous publications in national and international journals and various poster publications.

SPEAKERS

Wajeeh Khan, Hamm (Germany)

Treatment with Orthocaps®:
New impulses, new opportunities

Saturday, 22. November 2014, 09.30 hrs

The advances in aligner therapy through better scanning methods, the use of "auxiliaries", new attachment variants and "Treatment Evaluation" will continue to provide major changes in treatment.

Examples are presented to give some concrete ideas and to demonstrate which solutions are already available via the orthocaps® system.

1980 - 1984 Degree in dentistry at the University of Punjab - Lahore

1986 - 1989 Research associate at the clinic and polyclinic for oral and maxillofacial surgery at the University of Munster (WWU)

1989 Doctor of dentistry

1993 - 1996 Clinical and university residency as an orthodontic specialist at the polyclinic for orthodontics of the University of Munster (WWU).

Since November 1996 Own practice in Hamm.

Since January 2006 Director of OrthoCaps GmbH.

Member of the German Society of Orthodontics (DGKFO)

Member of the German Society of Lingual Orthodontics

Fellow of the World Federation of Orthodontics

Member of the American Association of Orthodontics

SPEAKERS

Knut Thedens, Bremen (Germany)

Cl. III treatment – opportunities and limitations

Saturday, 22. November 2014, 10.00 hrs

Using aligner systems as part of state-of-the-art orthodontics today allows achieving treatment outcomes which were previously only obtainable with multibands. The decisive criteria include profound orthodontic diagnostic procedures as well as excellent analogue or digital planning methods.

The CA® CLEAR ALIGNER treatment system by Firma SCHEU DENTAL GmbH has proven itself in daily practice routines. Next to the own laboratory-supported CA LAB® system, the external laboratory CA DIGITAL® system has become increasingly established since 2012, whereby fabrication of the actual splints remains in the own laboratory for value creation purposes.

As part of this presentation, the Cl. III treatments are presented together with the opportunities and limitations of CA® CLEAR ALIGNER in daily practice routine. The basic idea, diagnostics, planning and implementation are presented in a descriptive manner here, together with a critical assessment of the treatment results.

Dr. Knut Thedens, born 1967, studied dentistry at the RWTH Aachen (1987 - 1993), where he graduated under Prof. Dr. Dr. P. Diedrich (1995). Following 2 years as dentist in his father's practice in Wolfsburg, he commenced further training at Dr. D. Laupheimer in Laupheim (1995 - 1998). After completion of his clinical year at the LMU in Munich under Prof. Dr. I. Rudzki-Janson (1998 - 1999) he settled in Bremen (1999). There he was co-founder of the SternKlinik (2007) and runs Bremen's largest orthodontic practice at two locations with three colleagues.*

Since 1997, Dr. Thedens has increasingly held lectures, whereby his focus points are on interdisciplinary questions, orthodontic diagnostics as well as self, time and practice management in addition to his two professional mainstays (DAMON & CA® CLEAR-ALIGNER).

Tommaso Castroflorio, Turin (Italy)

Class II corrections in non growing patients with Invisalign®: dento-skeletal effects

Saturday, 22. November 2014, 10.30 hrs

The distalization of maxillary molars is frequently required in Class II non-extraction patients.

A retrospective case-control study have been conducted in non-growing subjects requiring an orthodontic Class II correction. Invisalign® aligners and class II elastics were used to achieve a full molar and canine class I relationship. The aim of the study was to evaluate the dental and skeletal effect of the molar distalization obtained with Invisalign® aligners and to assess its influence on the vertical dimension. Results demonstrated a bodily distalization movement of upper molars without any change related to the skeletal vertical dimension. Thus Invisalign® treatment could represent a reliable orthodontic technique in those cases requiring a class II correction without effects on the posterior vertical dimension.

Graduated in Dentistry at the University of Turin, Italy, in 1998, he obtained the Specialization Degree in Orthodontics from the same University in 2001. In 2007 he reached the PhD degree in Human Morphology from the University of Milan, Italy. He is Visiting Professor of the Specialization School of Orthodontics of the Lingotto Dental School of the University of Turin, Italy. Research fields are represented by the biology and biomechanics of the orthodontic tooth movement with clear aligners. He has published more than 90 scientific papers and has lectured in Italy and abroad.

He is an active member of the Italian Society of Orthodontics, he is member of the European Orthodontic Society and of the American Association of Orthodontists.

Beatriz Solano Mendoza, Sevilla (Spain)

A retrospective clinical study evaluating the efficacy of expansion with Invisalign®

Saturday, 22. November 2014, 11.30 hrs

The aim of the present research is to give sound scientific evidence about the extent of expansion movement and determine the predictability of such movements with aligners. The study sample included 109 patients treated with expansion with Invisalign®. Upper arch width at intermolar, interpremolar and intercanine position, maxillary arch depth, maxillary arch perimeter, molar rotation and molar tipping, were measured in the 3D casts as well as in the ClinCheck at T1 and T2. The amount of tooth movement predicted (ClinCheck T2) was compared with the amount achieved after treatment (virtual model T2). For each patient virtual cast and ClinCheck at T1 were assessed to determine accuracy of the ClinCheck simulation.

Master in Orthodontics and Dentofacial Orthopedics. 2009-2012.

Master in Dental Science, 2009-2010. University of Seville.

Thesis presented in June 2010, University of Seville. Title: "Treatment of Class II Malocclusion Mandibular source with appliances based intermaxillary bone anchor". Score 9.0/10.

Residency with Dr Sonnenberg for "Invisalign® Technique". November 2012

Professor at the Master of Orthodontics and Dentofacial Or-thopedics of the University of Seville. September 2012/ Present

Professor at the Master of Odontopediatry of the University of Seville. September 2012/ Present

Professor at the Master of Invisalign® Science at IDEO. September 2014/ Present

Orthodontist at COINSOL S.L dental clinic. July 2012/ Present

Several publications in high impact journals.

Isabelle Schaefer, Cologne (Germany)

Patient-Reported Outcomes (PROs) for Invisalign® patients over a 5-year period

Saturday, 22. November 2014, 11.50 hrs

The objective of this prospective study was to evaluate Patient-Reported Outcomes in an Invisalign® patient cohort from 2008 to 2013. Questionnaires were answered by the patients during and after orthodontic treatment with Invisalign® (OHIP-G 14 and additional questions). The measured PROs showed excellent long-term levels during the course of treatment. For future investigations, PROs should be combined with objective (i.e. occlusal) outcome assessments in order to evaluate the effectiveness of orthodontic treatment.

Dr. med. dent. Isabelle Schaefer started her orthodontic career at the private practice of Dr. Jörg Schwarze, Cologne, as well as at the department of orthodontics of the University of Cologne. There she graduated with distinction under supervision of Univ.-Prof. Dr. Bert Braumann and in cooperation with Dr. Jörg Schwarze on the topic "Halitosis, oral health and quality of life during the Invisalign® treatment and the effect of a chlorhexidine mouth rinse solution". In her job as an associate professor and as a scholarship holder of the University of Cologne, scientific work is one of her main tasks. Since March 2014, she has been coordinating health service research in the field of german orthodontics on behalf of the German Society of Orthodontics (DGKFO e.V.).

Bärbel Reistenhofer, Vienna (Austria)

Ski races are decided in the summer

Saturday, 22. November 2014, 12.00 hrs

Medical excellence is not the sole factor for the success of a dental practice. Next to professional competence and a pleasant atmosphere, patients expect service-oriented behaviour and state-of-the-art professional care. Maybe you can find suggestions and ideas in this presentation that you may want to incorporate into your daily practice routines for your patients and your staff.

Dr. Bärbel Reistenhofer graduated in human medicine and dentistry at the universities of Graz and Vienna.

She wrote her thesis at the University Clinic for Dentistry, Oral and Orthodontic Medicine Vienna in the Department for Prosthetics under Prof. Slavicek.

She practiced for seven years at the orthodontic department of the University Dental Clinic Vienna under Prof. Bantleon.

Dr. Bärbel Reistenhofer is a founding member of ALOS (Austrian Lingual Orthodontic Society) an completed a one-year course in lingual orthodontics under Dr. Fillion in Paris, France. She completed numerous courses for lingual brackets in Takimoto, Japan and is an Active Member of the "European Lingual Society" and Active Member of the "World Lingual Society".

Dr. Reistenhofer has been a certified Invisalign® specialist for 12 years and received the first "Invisalign® Platinum Dentist" award in Austria. She has already received the Invisalign® Platinum professional award and in 2012 the Invisalign® Platinum Elite professional award. In 2013, she was awarded the Invisalign® Diamond Professional status.

Since the winter semester 2009/10, Dr. Reistenhofer heads an Invisalign® Postgraduate Study Club at the Bernhard Gottlieb University Dentistry Clinic in Vienna.

She has been a Clinical Speaker for Invisalign® for 4 years and is a Member of the Clinical Councils and Advisory Boards.

The following publications have been published on the topic of Invisalign®:

- *two articles in IOK - Informationen aus Orthodontie & Kieferorthopädie, September 2009, Thieme (Orthodontic Information Bulletin)*
- *Article in IOK - Informationen aus Orthodontie & Kieferorthopädie, December 2013, Thieme (Orthodontic Information Bulletin)*

SPEAKERS

Hisham Hammad, Dortmund (Germany)

Aligner systems in daily practice routines

Saturday, 22. November 2014, 12.20 hrs

Both orthodontists and patients are becoming increasingly confronted with different aligner systems.

This practice-oriented report which is based on own experience with Invisalign®, CA, and Twin Aligner among others, is to serve as orientation and decision aid for practitioners and patients.

20 own patients each were treated with these systems.

From a practical point of view, the comparison was based on the following criteria:

- material used
- fabrication process
- comfort and invisibility
- precision of the required treatment goal
- efficiency
- duration of treatment
- costs

This makes decision making easier from case to case as well as increasing the chances for success of invisible and qualitative treatment.

DDS, Orthodontic specialist since 1987

Orthodontist in general practice in Dortmund

Member of the WFO

Member of the German Association for Aligner Orthodontics

Member of the international team of experts for CA/Scheu

CA speaker in the Near East and Gulf region

Speaker at national and international conferences (incl. Frankfurt, Cologne, University of Dusseldorf, Amsterdam, New Delhi, Beirut, Kuwait, Tunis, Amman, Casablanca and Cairo)

Benedict Wilmes, Dusseldorf (Germany)

Aligners and mini implants, a good team?

Saturday, 22. November 2014, 14.00 hrs

Sagittal or transversal bodily movement can often only be performed in a restricted manner with aligners. The maxilla offers the opportunity of using the palate as insertion site for skeletally supported mini orthodontic appliances, with which bodily tooth movements can be performed prior to aligner therapy. The advantage is, that mini-implants in the anterior palate don`t hinder the movement of teeth. This allows compliance-independent distalisation, mesialisation or also expansion and then using the aligners for finishing. Mini-implants can also support aligner therapy as part of molar uprighting and intrusion and thus considerably increase the spectrum to treatment options with aligners.

1990 - 1996 Degree in dentistry at Dentistry at the University of Munster (WWU)

1996 - 2000 Residency in oral surgery in the department of oral and maxillofacial surgery at the University of Munster (WWU)

2000 Specialist in oral surgery

2000 - 2004 Residency in orthodontics at the polyclinic for orthodontics of the University of Dusseldorf (HHU)

2004 Orthodontic specialist

2004 Senior registrar at the polyclinic for orthodontics of the University of Dusseldorf (HHU)

2006 Deputy director of the polyclinic for orthodontics at the University of Dusseldorf (HHU)

2010 Habilitation (post-doctoral accreditation as a university lecturer)

2010 Visiting Associate Professor, University of Alabama at Birmingham, USA

2011 Nomination as chair of the department of orthodontics at the University of Witten / Herdecke

2013 Appointed supernumerary professor by University of Dusseldorf (HHU)

SPEAKERS

Kenji Ojima, Tokyo (Japan)

4 premolar treatment of extraction cases with Invisalign®

Saturday, 22. November 2014, 14.20 hrs

In recent years, application limit of the orthodontic treatment with Invisalign® system is expanded to a large extraction cases the amount of movement of the teeth highest difficulty level is not limited to the orthodontic treatment less amount of movement of the teeth. I will report and show you three extraction cases.

Case (1) 14, 24, 34 and 44 ext case.
Case (2) 13, 23, 34 and 44 ext case.
Case (3) 15, 25 ext case then class II finish.

and we report made to shorten the treatment period, to use in combination with the Acceledent® and Invisalign® system.

Studies of Dentistry at the University of Showa(Tokyo-JAPAN).

Postgraduate student in Orthodontics at the University of Showa.

Own private practice as a specialist for orthodontics in Tokyo.-Hongo since 2007 with Dr.Dan and Dr.Nishiyama.

American Academy of Cosmetic Orthodontics Asian Chapter president.

Ortho Accele company Speaker in Japan, Italia and United States.

Chair man of Frontier Invisalign JAPAN study group.

Boarding member of Strategic Aligner Orthodontics JAPAN.

Studied in Dr.W Schupp. More than 50 times visited to Dr.Schupp and Dr.Julia office in Cologne.

TaeWeon Kim, Seoul (Korea)

eCligner® Treatment (3D digital Clear Aligner)

Saturday, 22. November 2014, 14.40 hrs

eCligner® is an esthetic and transparent removable orthodontic appliance, easy to apply, low cost and efficient tooth movement. Utilizing the sophisticated 3D software program, digital set-up datas are completed through 3D CAD CAM system. To make it to a successful treatment outcome, the eCligner® viewer program provides facial simulation functions for 3D diagnosis and treatment planning.

Results: One of the key advantages of using eCligner® is an efficient, time saving and seamless treatment process. eCligner® also offers clinically proven benefits in orthodontic movement fields for all stakeholders; expansion, intrusion and extrusion, aligning and retention, even finishing and detailing case.

(1) Crowding and spacing
(2) Relapse treatment
(3) Treatment of open-bite
(4) Treatment of children(Growing patient)
(5) Extraction treatment(bicuspid)

Presenters will show how to start with eCligner® and various clinical cases.

Clinical Professor an der YonSei University Korea, Clinical Professor an der Korea University, Clinical Professor an der KyungHee University Korea, Clinical Professor am Binzou Med. College China, Privatpraxis in Seoul; Hauptarbeitsgebiete: ClearAligner, Microimplantate, eCligner-System, President eCligner International

Andrea Bazzucchi, Rome (Italy)
Antonello Pavone, Rome (Italy)

Esthetic Management of interdisciplinary and complex cases with Invisalign®

Saturday, 22. November 2014, 15.10 hrs

A team approach that includes the clinicians, the technician, and the patient is essential to achieve the desired results. When treatment planning, clinicians should take into consideration aesthetic objectives and treatments in addition to function, structure and biology. Interdisciplinary cooperation with clinical excellence in these cases transforms patients with unattractive dentitions into persons with attractive and aesthetic smiles. The presentation will cover a definition of aesthetics, how aesthetic point of view has has changed over the years, and how orthodontic treatment can help to achieve good aesthetic treatments with discussion on the importance of the beautiful alignment of beautiful teeth. A variety of interdisciplinary cases in details covering topics such as multidisciplinary ortho restoratives and implant site preparation treatments, in addition will be shown the Virtual Set up as an interdisciplinary plan to design final tooth position related to different dental cosmetic treatments and achieving a beautiful smile.

Andrea Bazzucchi

Dr. Andrea Bazzucchi in 1992 received his Doctorate of Dental Surgery from Università Cattolica del Sacro Cuore, Rome. In 1996 he received his Master of Science in Dentistry in Orthodontics at Case Western Reserve University, Cleveland, Ohio, U.S.A and in 1999 received his second master in Orthodontis at the University of Naples, Facoltà di medicina e Chirurgia I Policlinico. Dr. Bazzucchi is International Speaker on Invisalign® therapy at Case Western Reserve University, Cleveland, Ohio. (USA), he is also instructor at the University of Ferrara in the Invisalign® Master course. Dr. Bazzucchi has published national and international articles. Dr. Bazzucchi works in his five practice in Rome specialized in multidisciplinary treatment as an Invisalign® Platinum provider and continues to act as international clinical consultant to Align Technology, lecturing and consulting world-wide.

Antonello Pavone

Graduated with honours in 1995 at the University of Tor Vergata, Rome. Obtained his LMD from the University of Geneva in 2000. Subsequently collaborated with Prof Belser and Prof Wiskott as research assistant in the Fixed Prosthodontics Department and with Prof. Pascal Magne as a clinical operator in esthetic dentistry. Was employed as a contracted professor at the University of Aquila from 2001 to 2003. Is author of scientific articles and both national and international presentations, and in his private practice is purely dedicated to prosthodontics and restorative dentistry.

Benjamin Kamuf, Munster (Germany)

"Friction Pads": an alternative to attachments in aligner therapy?

Saturday, 22. November 2014, 15.30 hrs

This paper describes a new type of inconspicuous attachments called "friction pads" which are to increase the friction between aligners and teeth and improve mechanical transduction. A "friction pad" is a flat surface structure which is applied to the tooth surface. The maximum pull-off forces of aligner plastic models were measured using various aligner materials and "friction pads". Statistically significant increases in pull-off forces were observed when using friction pads. There are a number of possible reasons for the increase in maximum pull-off forces, for example, an increase in static and kinetic friction between tooth and aligner.

From 2001 to 2007 Degree of dentistry, oral and orthodontic medicine at the Westfalia Wilhelms University, Munster. 2007 to 2008 scientific employee at the Institute for Physiology I, Munster. Preparation assistant in general dental practice from 2008 to 2010. Graduation to Dr. med. dent. at the Westfalia Wilhelms University Munster in 2010. From 2011 to 2012, employed as dentist in orthodontic dental practice. Since 06/2012, residency as an orthodontic specialist in the dental practice Dr. W. Khan, Hamm. Since 01/2014, residency as an orthodontic specialist at the University Witten-Herdecke under Prof. Dr. G. Danesh.

Paul-Georg Jost-Brinkmann, Berlin (Germany)

Approximal enamel reduction (AER): requirements, implementation, accuracy

Saturday, 22. November 2014, 16.30 hrs

Approximal enamel reduction (AER) is an elegant method for creating the space required on-site in crowded regions. In as far as the treating professional has not performed approximal enamel reduction prior to impression taking, the set-up process is used to determine where how much enamel needs to be removed so that the aligners can reach the planned shaping of the dental arches. Instructions to the treating professional indicate which teeth need to be reduced in their mesiodistal expansion by how many tenths of a millimetre prior to placing which splint. In addition to tips on the practical procedure, this presentation also looks at the precision of the manufacturers' instructions to arrive at methodical errors, where the treating professional is well advised as to not apply these uncritically. In addition, attention is paid to the design of the approximal surfaces to avoid that although the mesiodistal expansion of a tooth following AER complies with the manufacturers' instructions, the splints simply do not fit because the curvature of the tooth is not compatible with the shape of the splint.

After studying dentistry at the Free University Berlin, this was initially followed by employment in a free dental practice in 1985, and then a move to the department for dental prosthetics at the Free University Berlin. After graduation in 1986, scientific assistant in the department of orthodontics at the Free University. From 1990 to 1991, one-year research assignment at the Kyushu University in Fukuoka (Japan). Orthodontic specialist since 1991. Habilitation (post-doctoral accreditation as a university lecturer) in 1997 at the Humboldt University in Berlin. In 2004, nomination as professor for orthodontics at the Charité – University Medical Facility Berlin; since 2009 Director of the Department for Orthodontics and Paediatric Dentistry; in 2010, appointment as Scientific Director of the Charité Centre for Dentistry and Orthodontics Centre for Dental and Craniofacial Sciences. (Co) author of over 160 papers and book contributions as well as two books.

Andreas Hellak, Marburg (Germany)

Effect of treating croweded teeth with Invisalign® and IPR on interradicular bone

Saturday, 22. November 2014, 16.50 hrs

Objective:
The aim of the study was to determine the correlations between the treatment of crowded teeth with Invisalign® and interpoximal enamel reduction (IPR) and the interradicular amount of bone changes with set's of 3-dimensional (3D) data.

Materials and methods:
60 digital cone beam thomographs (CBCT's) of 30 patients (28 f, 2m, 36.03yr ± 9.7yr) were examined retrospectively at 720 measuring points. DVT 1 (T0) was conducted prior to and DVT 2 (T1) after resolving the crowding. The analysis was performed with Mimics 15.0. and SPSS.

Results:
Highly significant changes (p=.000) were observed between T1 vs. T0 in maxilla and mandible. Bone gain was observed in the mandible (0.4 mm + -0.62 mm). If a critical interradicular distance of <0.8 mm was present, the bone volume increases highly significant (0.6 mm + -0.54 mm). The IPR demonstrated no recognisable effect.w

From 2001 to 2007 degree of dentistry at the Westfalia Wilhelms University, Munster

2007 graduation at the University Clinic Munster, Clinic & Polyclinic for Orthodontics, "Surface quality of enamel following inter-proximal stripping (IPP) taking caries activity into account".

2007 Residency as an orthodontic specialist

2009 Scientific assistant at the University Marburg, Department of Orthodontics under Prof. Pancherz and Prof. Dr. H. Korbmacher-Steiner

2011 Orthodontic specialist

2013 Senior registrar at the Department for Orthodontics at University Clinic Marburg (part-time)

2014 Establishment of own dental practice in Lüdinghausen (part-time)

With a focus on: adverse effects of orthodontic treatment, pursuant 3D diagnostics (matching, density analyses, volume comparisons)

SPEAKERS

Mareike Simon, Freiburg (Germany)

Opportunities and limitations of aligner therapy

Saturday, 22. November 2014, 17.10 hrs

Aligner therapy is establishing itself as an alternative treatment method for conventional multi-bracket appliances. However, to date there are few evidence-based studies with regard to indications, contraindications and the success of treatment with Invisalign®. This poses the question: what is the current status of aligner therapy, what are the opportunities, what are the limitations?

2004 - 2006 Degree in dentistry at the University of Cologne

2006 - 2010 Degree in dentistry at the Heinrich-Heine University Dusseldorf

2010 - 2012 Training assistant at Dr. J. Schwarze, Cologne

2011 - 2012 Research associate in the laboratory for technology in oral medicine and experimental orthodontics University of Bonn

Since 2013, research associate at the Alberts-Ludwigs University Freiburg im Breisgau

2014 Accreditation as an orthodontic specialist

04/2014 Internship abroad: UCLA School of Dentistry, Department of Orthodontics, University of Los Angeles, USA

Awards

2011 Clear Aligner Research Award

2012 Clear Aligner Research Award

2012 DGAO Research Award

2013 First prize for the best scientific poster demonstration, DGKFO 2013, Saarbrücken

Sherif Kandil, Dortmund (Germany)

The next big thing in Clear Aligner therapy!

Saturday, 22. November 2014, 17.30 hrs

Recently Clear Aligners and invisible orthodontics have been a prime focus for many patients and practitioners. Many advances have been always implemented to change the way we practice orthodontics, and accordingly in the Clear Aligner field which is no less than researches been done on fixed orthodontic appliances.

Our team of research and development in K Line Europe have managed to reach new ideas that could change the future of Clear aligners and the way we treat our clear aligners treated cases on daily basis.

1. recent methods reached in Clear aligner treatment.
2. Methodology of Clear Aligner treatment in the Middle East, difference comparing to Europe and the USA.
3. What is the next big thing in Clear Aligners?
    - my young Passion to innovate
    - A new technique for direct 3D printing aligners rather than models
    - Using CBCT in data collection for Clear aligner manufacturing solved many problems in the past that seemed impossible.
    - How can virtual reality change the methods companies manufacture and orthodontists treat their patients?
    - How can the dimension of time change everything?

Graduated from Ain Shams university, Cairo, Egypt in 2006.
Orthodontic post grad studies in Donau university, Bonn Germany

Many awards and certificates have been received, especially in the Clear Aligner field.
Lecturing experience: Over 50 lectures have been conducted in several countries.

My experience was involved in clinical and business sides, clinical as I have my own practice, specialized in only clear aligners, which I have been only focusing on since 2006 graduation. Business, as I have founded an agency for K Line Europe and joined their team to further expand Worldwide.

Many research activities have been done in K Line Europe to enhance and develop new techniques in Clear Aligner manufacturing or data acquisition, as direct 3D printing aligners and using 3D cone beam rather than impressions in data collection for clear aligners.

SPEAKERS

Jörg Schwarze, Cologne (Germany)

Deep bite correction with Invisalign®

Saturday, 22. November 2014, 17.40 hrs

Many of our patients show an increased overbite, often in combination with other dysgnathias. Deep bite correction makes sense, not only from a functional, but also from an aesthetic point of view, and is often a necessity for correcting the posterior occlusion. With G5, Invisalign® offers comprehensive improvements for accelerating the often long treatment times and to improve the outcomes.

1985 - 1990 Degree in dentistry at the University of Bonn, licensed to practice in 1990

1991 - 1994 Residency as an orthodontic specialist at the polyclinic for orthodontics of the University of Bonn

1994 Accreditation as an orthodontic specialist

1997 Awarded a doctorate degree (graduated with distinction)

1997 Established a practice in Cologne, in private practice since 2004

2001 Certified as an Invisalign® practitioner, over 1,500 patients treated with Invisalign® to date

Since 2002 National and international speaking engagements, visiting professor at the University of Ferrara, Italy

Since 2008 Founding member and general secretary of the German Association for Aligner Orthodontics e.V. (DGAO)

Since its foundation: member of the Invisalign® European Clinical Education Council, the EU Advisory Board and the International Product Steering Board

Scientific cooperation with the universities Bonn, Cologne, Freiburg and Ferrara

Developer of the "Gun I", "Gun II" and "Slot Machine" pliers

Award winner of the German Society for Orthodontics 1992, 2009 and 2013

International Clear Aligner Award 2011, 2012 and 2014

DGAO Research Award 2012

Kay F. Weltersbach, Bonn (Germany)

Perfect patient reception, patient loyalty through appreciative communication, trouble-shooting

Friday, 21. November 2014, 13.30 hrs
Saturday, 22. November 2014, 09.30 hrs, 11.30 hrs and 15.00 hrs

Perfect patient reception: practice atmosphere and marketing

- "Well-feel factors", atmosphere, representation, style, etiquette
- How practice staff can make a significant contributions to the success of a dental practice through attitudes and behaviour
- Patient reception and patient guidance as part of smooth practice workflows
- Profiling of additional practice services through systematic impulses and personal commitment

Patient loyalty through appreciative communication

- For a better mutual understanding: eight rhetoric rules for perfect understanding and optimal communication
- Recognise needs and communication levels and convert these into appreciative behaviour
- The combination of sympathy, trust and conviction as the most efficient method of patient guidance
- Seven psychological measures for patient loyalty

Trouble-shooting: professional problem and conflict management (avoiding and overcoming problems)

- Proactive behaviour: be proactive, not reactive!
- Stress-free and smooth handling of high patient frequency, stress situations, time pressure and trouble situations
- Methods for people management, conflict rhetoric and asserting interests
- Useful behavioural rules for managing complaints, attacks and aggression

After studying business administration and several years in a responsible position in publishing and as managing director of a consultancy firm, Kay F. Weltersbach has now been active for over 20 years as seminar speaker with a focus on training self-employed professionals (doctors, dentists, accountants, lawyers and their staff). He is specialised in the fields of quality management, communication, personnel management and business administration, where Kay F. Weltersbach is active as seminar leader, author and occasionally as consultant.

He is also managing director of the Ärzte-Wirtschafts-Institut GmbH in Munich, the market leader in training physicians, which includes the Zahnärzte-Wirtschafts-Institut (for dentists). At the same time he works as study leader for the IFU Institute for Business Management based in Bonn.

Stephan Höfer, Cologne (Germany)

Bleaching: clean and bright teeth are motivating Patient and practice team

Friday, 21. November 2014, 15.30 hrs

Tooth whitening is an integral part of state-of-the-art aesthetic and prophylaxis-oriented dentistry.

Following bleaching, patients pay more attention to their brighter teeth and increasingly ask for more demanding aesthetic and prophylactic treatments. Both sides enjoy treatment with no risks and problems.

The presentation describes how different bleaching methods can be integrated successfully into daily practice routines and thus help give the dental practice a more aesthetic-prophylactic orientation. A key position in implementing this orientation is held by the committed prophylaxis employee, and the presentation includes a report of their daily routine.

Born 1966, state exams 1991

After completion of his assistant period, he spent a year as postgraduate student/assistant at the Loma Linda University (California, USA) in the department for restorative and aesthetic dentistry and conducted own investigations in the department for biomaterial sciences. Several visits and clinical internships in various practices in the USA also allowed him to gain extensive insight into the area of "Aesthetic Dentistry".

Since 1995 he has been operating in his own practice in Cologne and has held regular presentations in Germany and neighbouring countries.

Rainer-Reginald Miethke, Berlin (Germany)

Patient photography - doing it right

Saturday, 22. November 2014, 14.00 hrs

A picture says more than a thousand words

and rightly so. What better way to illustrate successful orthodontics and its strong relationship to aesthetics? But a perfect treatment result also requires a perfect photo. Of significance here is not so much the camera (the hardware), but the person behind it. And that is you!

This presentation is to give you the basics for excellent photography. This relates to both extra and intra-oral photography, but also to the minimum accessories required.

Will you be taking perfect photos after this lecture? At the very least, you are en route to perfection.

Even if the topic of clinical photography is covered in the presentation, the speaker looks forward to your questions and critical participation in the discussions.

1969 state exams, 1972 awarded a doctorate degree, 1973 accreditation as a specialist; then assistant and C3 professorship. 1978 Habilitation (post-doctoral accreditation as a university lecturer), 1978 to 1979 Louisiana State University, 1983 Head of the department of orthodontics and paediatric dentistry, Free University Berlin; 1992 to 1993 visiting professorship Royal Dental College/Århus. 1994 to 2009 Head of the department of orthodontics merged Charité. 2009 to 2013 Chairman and Senior Consultant in Orthodontics, Hamad Medical Corporation, Qatar.

1986 to 2008 Editor of the orthodontics publication "Praktische Kieferorthopädie", later published as "Kieferorthopädie" followed by Editor-In-Chief "World Journal of Orthodontics". 1987 and 1992 President of the annual conferences of the German Society for Orthodontics, 2006 President of the European Orthodontic Society. Honorary member of the Lebanese and Thai Orthodontic Society and the Orthodontic Society of Berlin and Brandenburg and Honourable Consultant of the Macao Orthodontic Society. More than 170 publications as well as 250 German and international lectures.

INTERPRETERS

C. Naomi Osorio-Kupferblum, Vienna (Austria)

1989 Masters, training as interpreter (English, Spanish), University Vienna, 2007 B.A. hons., philosophy, politics & economics (PPE), University Oxford, since 1989, conference interpreter, translator and proof reader (languages: A: German, B: English, C: Spanish, French), since 2008 lecturer at the Centre for Translation Sciences, University Vienna

My specialty is medicine. Dental conferences where I have acted as interpreter, include: several conferences of the Austrian Society for Dentistry and Orthodontics "Dental technology and medical problems", Laxenburg near Vienna; "Maxillo-facial surgery", AKH Vienna; conference in honour of Prof Slavicek, AKH Vienna; "GLZ Laser Symposium", Hotel Penta, Vienna; "Investigators' Meeting", Hotel Marriott, Vienna; "MSD Metaforum" Vienna Stock Exchange; "1st ECRP Conference - Reconstruction of the Periodontally Diseased Patient" Vienna Hofburg 2004; Damon Meeting, Vienna 2009; "Competence in Esthetics" Austria Centre Vienna, November 2011

I am often called upon as personal interpreter for the Austrian Minister of Health.

Andrea Burziwal, Vienna (Austria)

1989 interpreter training at the Institute for Translators and Interpreters, University Vienna, graduation (Masters in philosophy), languages: German (A), English (B), Spanish (C), 1985 - 1990 SPIDI – language institute of industry in Vienna, teaching (English courses for various companies), 1985 - 1988 INFOTERM, Information Centre for Terminology, free-lancer, development of terminology data bases, since 1989 self-employed conference interpreter and interpreter for various EU and international organisations, as well as the private market

Special fields: medicine (focus: oncology, dentistry, orthodontics), technology, ICT, social sciences

DGAO RESEARCH AWARD

The German Society for Aligner Orthodontics e.V. (DGAO) awards a sponsorship prize every two years to the amount of 14,000 Euros in total for one or more scientific studies/research projects in the filed of aligner orthodontics. This prize is in each case awarded at the scientific DGAO conferences.

1. The DGAO sponsorship prize is awarded even for partially not yet published scientific studies/research projects in the field of aligner orthodontics. The award can be divided over several prize winners.
2. All licensed dentists can apply for the DGAO sponsorship prize, either alone or together with others as a research group.
3. If members of the awards committee apply, they will forfeit the prize money in case of an award.
4. If a research group applies, then the group will be awarded as prize winner. The entire prize money is paid to the speaker of the group, all members of the group will, however, receive a sponsorship award certificate.
5. The money is to be used exclusively for the submitted research project. The DGAO retains the right to check the use of the monies.
6. It is mandatory for the award-winning work/award-winning research projects to be presented at the next scientific meeting of the DGAO after completion and to be published in form of an article on the Internet homepage of the DGAO. In addition, publication in advance or thereafter in a trade journal is expressly wished.
7. Any patent claims or registered designs remain the property of the award winner/award-winning group under all circumstances.
8. All studies/project descriptions must be submitted anonymously, but with a code, to the DGAO offices in German or English. In addition, an envelope should be enclosed which contains the code and all the contact data of the applicant.
9. The study/research project should be the intellectual property of the applicant(s), and an appropriate declaration is to submitted with the application.
10. The deadline for submissions is the 30. September of the year in which a scientific conference for aligner orthodontics is held.
11. The award committee consists of the entire board of the DGAO and an external scientific specialist designated by the entire board. The decision of the committee is made to the best of their knowledge and is binding.
12. Should the submitted studies/research projects not meet the general usual scientific quality criteria, then no award will be made.
13. Submissions not receiving an award will be returned to their senders.

GALA EVENING

Wartesaal am Dom

Friday, 21. November 2014, 19.30 hrs

Look forward to a very special evening with a unique atmosphere in the legendary Wartesaal am Dom. This hall was erected in art nouveau style in 1915 and is located directly underneath Cologne cathedral.

Exclusive dining, music and dancing will provide you with a lasting memory of this enchanting evening.

Location

Wartesaal am Dom
Johannisstrasse 11
50668 Cologne, Germany
www.wartesaalconnection.de

Costs

€ 95.- per person

Registration at conference office

DGAO E.V.

Deutsche Gesellschaft für Aligner Orthodontie
dgao

German Association for Aligner Orthodontics e.V.

The DGAO is the first scientific association in the field of treatment using clear plastic aligners. Through teaching and research, the Association aims to demonstrate and promote the benefits of the increasingly popular wire-free orthodontic systems.

The DGAO thus provides the ideal vendor-independent platform for technical information and continuing education. Members enjoy direct access to the latest information about aligner technology – analysed and evaluated by experts. This allows you to document your technical competence to patients and colleagues.

So if you too would like to benefit from the further promotion and development of aligner orthodontics, become of a member of the DGAO today.

HEADQUARTERS

Deutsche Gesellschaft für
Aligner Orthodontie e.V. (DGAO)

Lindenspürstrasse 29c
70176 Stuttgart, Germany

Tel.: +49 (0) 711 27395591
Fax: +49 (0) 711 6550481

E-mail: info@dgao.com
www.dgao.com

Membership application

for the German Association for Aligner Orthodontics (DGAO) e.V.

PERSONAL DATA

☐ Ms ☐ Mr

Title, First name, Surname

Practice/Company

Address

Postal code/City/Country

Telephone/Fax

E-mail/Website

MEMBERSHIP

☐ Ordinary Member[1]	Annual contribution € 200.-
☐ Ordinary Member discounted[2]	Annual contribution € 100.-
☐ Sponsoring Member	Annual contribution € 200.-

[1] for orthodontic specialists. Evidence required.

[2] for assistants training in orthodontics. Evidence required.

I request membership to the German Association for Aligner Orthodontics (DGAO) e.V.
(the board decides on membership acceptance)

Date, Signature, Stamp

GENERAL INFORMATION

ORGANISER

Deutsche Gesellschaft für
Aligner Orthodontie (DGAO) e.V.
c/o Dr. Boris Sonnenberg
Bolzstraße 3
70173 Stuttgart, Germany

Tel. 0711-27395591
Fax 0711-6550481

info@dgao.com
www.dgao.com

CONFERENCE VENUE

Gürzenich Köln
Martinistraße 29-37
50667 Köln, Germany
www.koelnkongress.de

DATE

21. November 2014, 09:00 to approx. 18:00
22. November 2014, 09:00 to approx. 18:15

EDUCATIONAL CREDITS

1. Day: 6 + 2 (pre-conference meeting)
2. Day: 8

CONFERENCE OFFICE

Schwarze Konzept
(in the lobby)
Stephanie Schwarze
Tel. 0221-2848940
dgao@schwarze-konzept.de

GETTING THERE

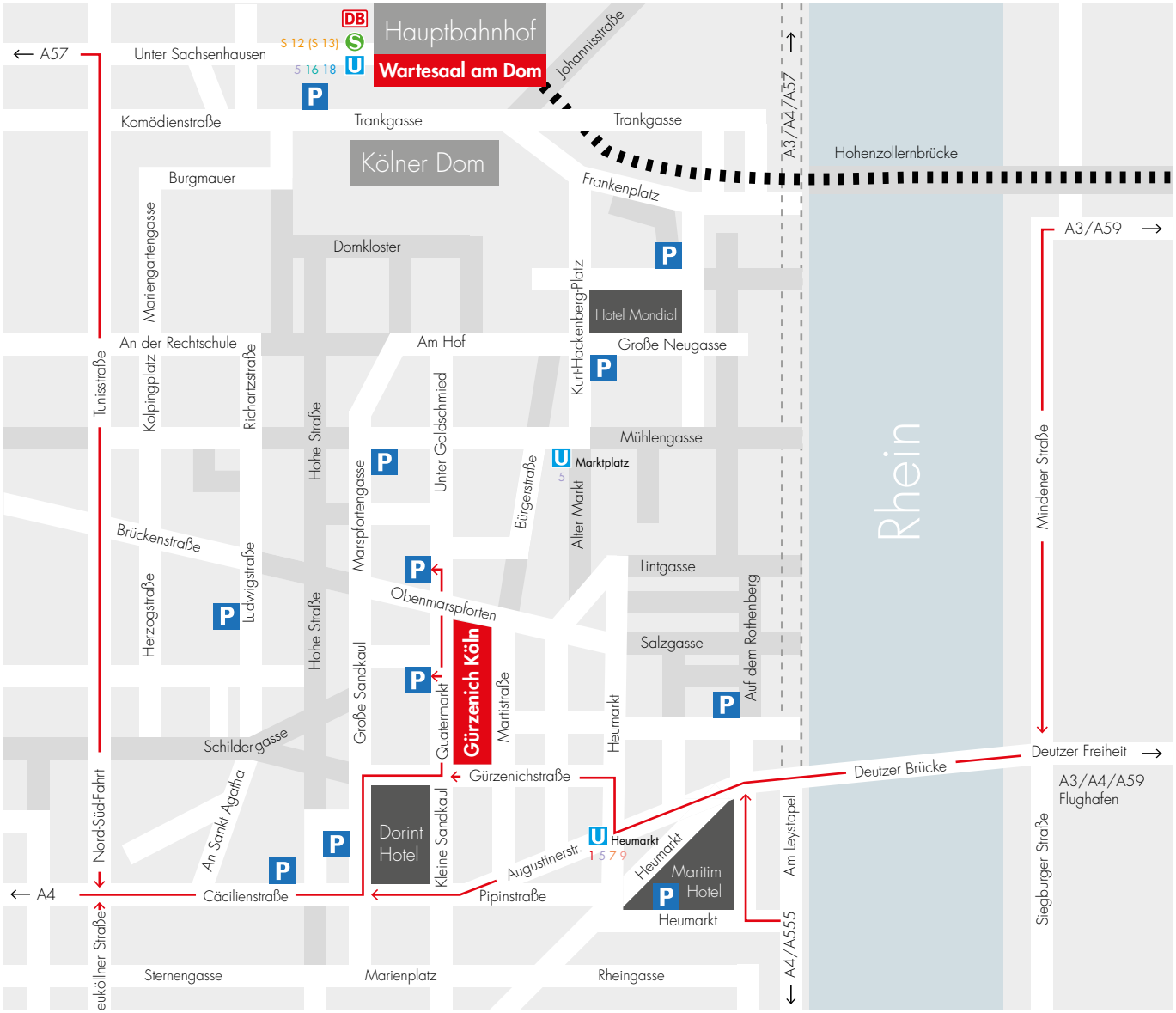
By Car: See the red arrow on the city map. Parking is available in the car parks “Am Gürzenich”, “An Farina” and the multi-storey car park “Heumarkt”. Additional car parks are available in the immediate vicinity.

By rail: Take local train 5 from the Main Station Cologne to the “Heumarkt” station, or go by foot (approx. 10 minutes).

Using public transport: Take the local trains 1, 5, 7 or 9 to “Heumarkt” station.

By air: Take the subway line 13 from the airport Cologne/Bonn to the “Dom/Hauptbahnhof” (Cathedral/Main Station). Then continue with local train 5 to the “Heumarkt” station.

CITY MAP


DB
S 12 (S 13)
5 16 18
Hauptbahnhof
Wartesaal am Dom
Johannisstraße
← A57
Unter Sachsenhausen
Komödienstraße
Trankgasse
Trankgasse
Kölner Dom
A3/A4/A57 →
Hohenzollernbrücke
Burgmauer
Frankenplatz
A3/A59 →
Domkloster
Mariengartengasse
Hotel Mondial
Kurt-Hackenberg-Platz
An der Rechtschule
Am Hof
Große Neugasse
Tunisstraße
Kolpingplatz
Richartzstraße
Hohe Straße
Unter Goldschmied
Mühlengasse
Marktplatz
Bürgerstraße
Alter Markt
Rhein
Mindener Straße
Brückenstraße
Marsporten-gasse
Lintgasse
Obenmarspforten
Herzogstraße
Ludwigstraße
Hohe Straße
Gürzenich Köln
Salzgasse
Auf dem Rothenberg
Große Sandkaul
Quatermarkt
Martinstraße
Heumarkt
Schildergasse
Gürzenichstraße
Deutzer Freiheit →
Deutzer Brücke
A3/A4/A59
Flughafen
An Sankt Agatha
Dorint Hotel
Kleine Sandkaul
Augustinerstr.
Heumarkt
Heumarkt
Maritim Hotel
Heumarkt
Am Leystapel
Siegburger Straße
Nord-Süd-Fahrt
← A4
Cäcilienstraße
Pipinstraße
A4/A555 →
Severinstraße
Sternengasse
Marienplatz
Rheingasse

DENTAL EXHIBITION

Gold

Silver

Bronze

Basic

NOTES

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LEGAL NOTICE

PUBLISHER

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IMAGE SOURCES

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Evening event: © Wartesaal am Dom
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