

ADI

Association
of Dental
Implantology

ADI Focus Meeting

Focus on Digital Implant Dentistry:
The Present - The Future

Friday 14 November 2014
155 Bishopsgate, London



PRESIDENT'S WELCOME



Philip Friel

Philip Friel, ADI President

Continuing our series of ADI Focus Meetings, where an area of particular relevance in the practice of implant dentistry is investigated and discussed, I have pleasure in announcing our latest event, 'Focus on Digital Implant Dentistry: The Present - The Future'.

Implant dentistry has involved digital technology to varying degrees for many years. More recently, this area has advanced and enjoyed exponential growth with many and varied new technologies, interactions, techniques and processes being unveiled with consistent regularity. Such is the advancement in this field that digital technology can be seen to be involved in potentially all aspects of implant treatment, including diagnosis, special investigation, treatment planning, surgical implant placement, impression taking, laboratory stages and restoration of dental implants.

For this purpose, five world class speakers have accepted our invitation to share the platform, with each presenting a different aspect of digital implant dentistry according to their area of expertise.

This ADI Focus Meeting will be of specific interest to general dental practitioners, clinicians involved with both the surgical and restorative aspects of implant dentistry, and specialists, dentists and their staff who have a particular interest in digital technology in dentistry.

Delegates will be able to absorb the evidence presented by these masters and raise their own questions for discussion with professional colleagues thereby enhancing their knowledge of this extremely important and ever advancing subject matter, improving the treatment of their implant patients.

From feedback received at the ADI Team Congress 2013 and other ADI Focus Meetings, this ADI Focus Meeting on Digital Implant Dentistry will, without doubt, prove to be a sought-after event. Please register early to take advantage of the early bird fee and to ensure a place on the day.

I look forward to seeing you at the event.

SPEAKER INFORMATION



Andrew Dawood

Current Digital Planning Strategies in Implant Dentistry

SPEAKER: Andrew Dawood
MRD RCS MSc BDS Specialist in Periodontics and Prosthodontics

SYNOPSIS: In the last decade, advances in digital technologies have been so disruptive that the practice of dentistry has been radically altered; and the pace of change continues to accelerate. Developments in 3D imaging, notably Cone Beam Computed Tomography (CBCT) have been central to this transformative revolution, and are impacting on every aspect of implant and restorative dentistry, permitting more insightful diagnosis and providing faster and less intrusive treatments with more predictable results. An understanding of the strengths and weaknesses of available 3D imaging modalities, and access to these modalities, opens up a wealth of possibilities, making it possible to safely carry out implant treatments in anatomically constrained situations.

Technological advances in imaging have been accompanied by synergistic advances in implant planning software and in CAD/CAM, and in 3D printing and manufacturing technologies. The ability to export image data for use in planning software and CAD/CAM systems has strengthened the link between the surgical plan and the achieved surgical and prosthetic outcome, transforming the reconstructive process.

This presentation will explore some of the benefits, limitations and opportunities that may stem from an integrated approach to 3D imaging and planning.



Tim Joda

Implant Impressions - How Many Bits and Bytes are Necessary?

SPEAKER: Dr med. dent. Tim Joda MSc
Master of Science in Prosthetic Dentistry (University of Greifswald)
Specialist in Prosthodontics (DGPro)
Specialist in Implant Dentistry (DGI)
Specialist in Periodontology (DGP)

SYNOPSIS: Digital media has become an integral part of daily life. In the same way, virtual-mediated applications play an essential role in the development of implant dental medicine. Digital technologies offer additional treatment options, starting with diagnostic imaging, computer-assisted implant planning and guided placement, and extending to intraoral scanning as well as laboratory manufacturing.

In this context, the established conventional implant workflow can be combined and added by selected digital applications; or even a complete virtually based workflow is feasible for the entire treatment sequence today. The key factor for the realisation of a streamlined workflow is the scanning technology embedded in the field of computer-assisted dental processing.

Digital implant impressions symbolise the link between the interface of implant surgery and prosthodontics. Therefore, intraoral scanning constitutes a major role in the development of a full digital implant workflow. The correct 3D detection of the implant platform position and the transfer of the supra-implant mucosa architecture are crucial for a successful treatment with predictable outcomes. Moreover, patient-centered outcomes are gaining importance in dental therapy concepts: clinical success of the overall treatment is assumed as self-evident; convenience-oriented strategies are in the focus of the patients with their growing claims.

In addition, the development in dental imaging provides new opportunities to use scanning STL-data in combination with cone-beam computed tomography DICOM-files in a virtual environment. The superimposition technique of medical 3D media types offers the possibility to create a virtual dental patient.

However, how many bits and bytes are necessary to fulfil the dentist's and patient's expectations satisfying clinical and technical requirements in routine practice? The implementation of digital workflows strongly depends upon personal attitudes and interests; yet today, the implementation of virtual implant technology is not a question of if, but more of when, to jump on...



Julian Osorio

Achieving Ideal Aesthetics and Function with Patient-Specific Abutments

SPEAKER: Julian Osorio DMD MScD

SYNOPSIS: In the early days of implant dentistry, the focus was on osseointegration of the implant to the bone structure. As implant therapy continues to evolve and increase, it is now recognised that implants must be placed and restored with the shape and position of the final restoration in mind. In other words, thinking from the tooth down and not from the implant up is necessary for achieving the best functional and aesthetics outcomes possible.

As a trained Prosthodontist and having worked as a Laboratory Technician, Dr Osorio realised that the restorative components available in the marketplace, although functional, were not ideal for achieving optimal aesthetic and biological results. Many components that claimed to make treatment "simple" disregarded aesthetic and biological considerations.

With this in mind he began to work with the help of a team of engineers to create a computerised design process by which the best possible patient-specific restorative components could be fabricated.

This programme will present on how this process has helped to revise the standards of success in implant dentistry to not only consider osseointegration, but also aesthetics and biologically sound outcomes. These outcomes became more and more predictable when using implants and abutments designed with sound biological and biomechanical principles in mind and confirmation of this will be presented with extensive clinical and radiographic evidence.

At the completion of this course, participants will be able to:

- Recognise the options available for the replacement of a single tooth or multiple teeth predictably and aesthetically.
- Simplify implant treatment protocols while providing optimal aesthetics results and increasing profitability.
- Integrate patient-specific abutments into any implant protocol.
- Improve the clinical outcome of even the most complicated implant cases.



Stephen E B Jones

The Role of CAD/CAM in Contemporary Fixed and Removable Beam and Bar Prostheses

SPEAKERS: Stephen E B Jones
BDS MSc MGDSRCS MRD Specialist in Restorative
Dentistry
and Steve Campbell RDT

SYNOPSIS: Reliable single crowns and two to four unit bridgework have been made using implant-supported substructures or copings made by CAD/CAM for more than ten years, with high success rates.

However, when all teeth in an arch are missing the diagnostic and aesthetic issues become much more complicated and the prosthodontic options increase. Larger fixed and removable prostheses are now possible with substructures made from various metals, zirconia and resin/fibre materials, all of which can all be milled using CAD/CAM. These substructures need to be compatible with porcelain, acrylic or resin veneering materials and need to have a good appearance and a good life expectancy. Several designs for the fixed full arch maxillary prosthesis - the most complicated dental implant restoration - will be discussed as well as the need for its easy removal when required. Not all CAD/CAM is the same. Evidence supporting various techniques and combinations of materials will be presented. A patient's expectations may rise with the cost of the prosthesis and the amount of chair time required. Patient satisfaction is at the core of GDC guidance protocols and this presentation will consider the various issues that affect prosthetic success.

Oral hygiene issues will also be discussed, as will parafunctional patients and 'Teeth in a Day' full arch protocols. This presentation will also briefly look at the traditional concepts behind the traditional implant-supported overdenture, and will give some evidence-based recommendations regarding modern retentive elements.



Steve Campbell

Full speaker biographies are available on our website.

SCHEDULE

| | |
|---------------|--|
| 08:30 - 09:15 | Delegate Registration, Tea/Coffee & Exhibition |
| 09:15 - 09:30 | Welcome |
| 09:30 - 10:45 | Andrew Dawood Current Digital Planning Strategies in Implant Dentistry |
| 10:45 - 11:15 | Tea/Coffee & Exhibition |
| 11:15 - 12:30 | Tim Joda Implant Impressions - How Many Bits and Bytes are Necessary? |
| 12:30 - 13:30 | Buffet Lunch & Exhibition |
| 13:30 - 14:00 | AGM |
| 14:00 - 15:15 | Julian Osorio Achieving Ideal Aesthetics and Function with Patient-Specific Abutments |
| 15:15 - 15:45 | Tea/Coffee & Exhibition |
| 15:45 - 17:00 | Stephen E B Jones and Steve Campbell The Role of CAD/CAM in Contemporary Fixed and Removable Beam and Bar Prostheses |
| 17:00 - 17:30 | Panel Discussion |
| 17:30 | President's Closing Remarks |



REGISTRATION FORM:

ADI Focus Meeting - 14 November 2014

To reserve your place please visit www.adi.org.uk/focus2014 or complete the form below.

Title: Prof / Dr / Mr / Mrs / Ms / Miss (circle as applicable)

First name: _____ Surname: _____

Address: _____

Postcode: _____

Tel: _____ Email: _____

CATEGORY (please tick)

Early Bird Delegate Rates for applications received by 15 September 2014

- | | | |
|---|------|--------------------------|
| Member Clinician | £295 | <input type="checkbox"/> |
| Member Technician | £245 | <input type="checkbox"/> |
| Member Hygienist, Therapist, Nurse, Practice Manager, Student, First Five Years | £150 | <input type="checkbox"/> |
| Non-Member Clinician | £395 | <input type="checkbox"/> |
| Non-Member Technician | £345 | <input type="checkbox"/> |
| Non-Member Hygienist, Therapist, Nurse, Practice Manager, Student | £250 | <input type="checkbox"/> |

Delegate Rates for applications received after 15 September 2014

- | | | |
|---|------|--------------------------|
| Member Clinician | £395 | <input type="checkbox"/> |
| Member Technician | £345 | <input type="checkbox"/> |
| Member Hygienist, Therapist, Nurse, Practice Manager, Student, First Five Years | £250 | <input type="checkbox"/> |
| Non-Member Clinician | £495 | <input type="checkbox"/> |
| Non-Member Technician | £445 | <input type="checkbox"/> |
| Non-Member Hygienist, Therapist, Nurse, Practice Manager, Student | £350 | <input type="checkbox"/> |

METHOD OF PAYMENT (please tick)

CHEQUE CARD I enclose a cheque made payable to "ADI" for £

or please debit credit card: VISA / MASTERCARD / SWITCH / MAESTRO (AMEX not accepted)

Card Number

Expiry Date / 3-digit security code

Amount to be debited £

Signature: _____ Date: _____

GENERAL INFORMATION

- Venue:** 155 Bishopsgate, Liverpool Street, London, EC2M 3YD.
- Timings:** Registration will open at 08:30 and the event will close at 17:30.
- Registration:** Places must be pre-booked and paid for prior to the meeting. The registration fee includes coffee, tea and hot buffet lunch.
- Cancellation:** Cancellations will be accepted in writing until Friday 31 October 2014 and are subject to an administrative charge of £30. After this date no refunds can be guaranteed.
- Accreditation:** This event will attract 5.5 hours of verifiable CPD and a certificate of attendance will be available to download after the event.
- Exhibition:** A small exhibition showcasing the latest trends in the implant market will be accessible during registration and the catering breaks.
- Further Details:** For more information, including speaker biographies, please visit **www.adi.org.uk/focus2014**



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For further details on the ADI Focus Meeting or to book online visit **www.adi.org.uk/focus2014**

