The 3D Revolution in Endodontics

A hands-on course teaching practical ways of using recent endodontic advances to help you to improve patient outcomes

presented by
Professor James Prichard, Dr Justin Dinley,
Dr Dani Mancuso, Dr James Aquilina,
Dr Fadi Jarad, Dr Anish Khatri or Dr Mark Hunter

with 3 hours verifiable cpd
The 3D Revolution in Endodontics

A hands-on course teaching practical ways of using recent endodontic advances to help you to improve patient outcomes

These busy and fast moving courses will teach delegates how to use recent advances in endodontic treatment to improve their patients’ clinical outcomes. They will be limited to 12 dentists each to ensure close supervision and opportunities to address dentists questions and concerns.

The presenters will take the delegates through the principles and objectives of successful endodontic treatment, including the biological principles of canal preparation and its link to current thinking on irrigation and disinfection.

You will see the limitations of previous thinking in endodontics, which assumed that canals were round and that their preparations should also be. You will learn how recent advances in NiTi metallurgy for the first time allow dentists to shape, finish and clean canals according to their true 3 Dimensional morphology. You will see how you can not only clean far more of the canal system without sacrificing root dentine, but also obturate with groundbreaking new Bioceramics. All of the course presenters are strong believers in four handed dentistry, and see their nurses active involvement as critical to the success of their endodontic treatments. We would therefore encourage delegates to attend the course with their nurses, with a fee of £30 for the first accompanying nurse.

Aims, Objectives & Anticipated Outcomes

- Understanding the biological principles and objectives of successful endodontic treatment.
- Understanding why 3 Dimensional cleaning and filling of the canal can improve your clinical success rate.
- Learning about the new technologies behind the XP-endo range. Understanding how a single XP-endo Shaper file can instrument more of the canal more efficiently, generate less debris in the apical third and yet be less aggressive than traditional NiTi files.
- Learning about the clinical uses and outcomes with XP-endo Shapers and Finishers.
- Intensive hands-on training to help delegates successfully apply new technologies in practice.
- Understand how the new TotalFill Bioceramic materials change the philosophies of obturation and dealing with root repairs.
## The Programme

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<th>Thursday late afternoon:</th>
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<td>15 30</td>
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<td>Registration &amp; light refreshments.</td>
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<td>Introduction to the course.</td>
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<td><strong>Lecture 1:</strong> Principles and objectives of successful endodontic treatment. Biological principles of canal preparation and how this links to current thinking on irrigation and disinfection.</td>
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<td><strong>Lecture 2:</strong> New advances in endodontic instrumentation. Using developments in metallurgy and file design to improve endodontics. Practical tips on Glide Path management and demonstration of the new XP-endo Shaper, followed by demonstration.</td>
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<td><strong>Hands-On 1:</strong> Participants prepare a glide path and instrument an endo block using XP-endo Shaper.</td>
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<td><strong>Lecture 3:</strong> Three-Dimensional finishing and obturation using XP-endo Finisher and Bioceramics followed by demonstration.</td>
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<td><strong>Hands-On 2:</strong> Using True Teeth participants prepare a glide path instrument with XP-endo Shaper, finish with XP-endo Finisher and obturate using bio ceramics.</td>
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<td>Course Ends.</td>
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MaxWire Technology

XP-endo Shaper
3D preparation from a single rotary file
The Presenters

**Professor James W Prichard**

BDS (ULond); MSc (ULond); LDSRCS (Eng); MF GDP (UK); FIADFE (USA); FHEA (UK); FBARD (UK).

Visiting Professor & Programme Leader, MClinDent in Endodontology at BPP University working with the City of London Dental School.

James is a renowned teacher in Endodontics, delivering hands on courses, lectures and seminars throughout the UK and overseas. He has held the posts of Associate Clinical Teacher, Clinical Teaching Fellow and Clinical Supervisor in Endodontics on the Masters Programme at The University of Warwick prior to joining BPP University in London as Visiting Professor and Programme leader for the MClinDent in Endodontology.

He has supervised postgraduate students in Endodontics including several dissertations and theses. He has published in the scientific journals including the International Endodontic Journal, The British Dental Journal.

He has lectured at conferences including the British Dental Association annual meeting and the British Academy of Restorative Dentistry. He is a Key Opinion Leader for several endodontic companies and has demonstrated the latest advances in endodontic technology for Schottlander and FKG Dentaire at the Dental Showcases and Dentistry Show in the UK since 2004. He gained his Masters Degree (MSc) in Restorative Dental Practice with distinction for his dissertation which he completed at The Eastman Dental Institute in London.

He is a Fellow of the International Academy of Dental Facial Esthetics in New York, a Fellow of the Higher Education Academy and a Fellow of the British Academy of Restorative Dentistry. He is a member of the British Endodntic Society and the European Society of Endodontics.

**Dr Anish Khatri**

BDS MSc (Endo), PG Cert (Clin Ed)

Anish graduated in 1993 in South Africa and emigrated with his family to the UK in 2002. He is passionate about endodontics and completed an MSc in Endodontics in 2012. He has been a Foundation Dentist Trainer for six years and completed a Post Graduate Certificate in Clinical Education.

He currently lectures the FD's on their Endodontic study days. Anish has been accepting referrals for endodontics since 2007 and is keen on supporting his colleagues with complex endodontic cases and improving their endodontic skills. In October 2016 Anish has been appointed as Honorary Clinical Lecturer in Endodontic Speciality Teaching at the School of Dentistry - University of Birmingham.

**Dr Justin Dinley**

BDS, MSc (Endo), Dip ImpDent, RCS (Eng), DPDS, MF GDP

Justin has over 6 years endodontic referral experience and has recently completed an MSc in Endodontics related to obturation and bioceramics.

Justin has a practice limited to endodontics, he is also a senior lecturer in Endodontics on an MClinDent Programme. He covers all aspects of non-surgical and surgical endodontics as well orofacial pain diagnosis and is an opinion leader in the field of regenerative technologies.
Dr James Aquilina
BDS MSc  - Specialist Endodontist

James qualified from Guy’s Hospital in 1992, where he then undertook House Officer postings in Children’s Dentistry and then Oral Surgery. In 1997 James returned to London where he undertook a part-time MSc in Endodontics at Guy’s Hospital under Prof Pitt Ford. On completing his Masters degree, James remained at Guy’s for a number of years as a part-time member of staff, teaching Undergraduates and supervising Postgraduate students as well as treating patients in his own clinical sessions. James also provided an endodontic referral service in several practices during this period. Since leaving Guy’s James has expanded his Endodontics practices, in Kent and Essex.

James is committed to further education and is a member of the British Endodontic Society, the European Society of Endodontics and American Association of Endodontists. He also lectures nationally and runs endodontic study clubs & courses aimed at general dental practitioners.

Dr Dani Mancuso
BDS MSc PhD  - Specialist Endodontist & Prosthodontist

Dani qualified from the University of Sao Paulo State in 2002, where she was awarded the prestigious Maillefer Honours and Distinction Endodontic Award.

She then enrolled into an extensive postgraduate program receiving her Masters Degree and PhD and became a Specialist Endodontist and Prosthodontist in both Brazil and the UK.

Dani has worked as a Clinical Lecturer at Barts and The London Hospital Dental Institute, as an Associate Clinical Teacher at the University of Warwick and is now an invited Professor at the University of Sao Paulo State in Brazil, supervising postgraduate students. She is member of the editorial advisory board of the Endodontic Practice. Dani also lectures both nationally and internationally and provides postgraduate endodontic courses in her endodontic referral practice in Portsmouth.

Dr Fadi Jarad
BDS, PhD, MFDS RCS(Eng) MRD Endodontics
RCS (Edin), FHEA, FDS Restorative Dentistry
RCS (Edin)

Fadi is a Senior Lecturer and Honorary Consultant in Restorative Dentistry at the University of Liverpool. He is the Director of Professional Doctorate in Dental Sciences (DDSc) postgraduate programme. He is also the lead for the DDSc Endodontic Pathway and a joint teaching lead for Restorative Dentistry (BDS programme).

Dr Mark Hunter
BDS MSc  - Specialist Endodontist

Mark works in an exclusively private referral endodontic practice with more than 35 years of clinical experience, qualifying from Manchester in 1979. In addition he has taught part-time within the University of Manchester Dental Hospital since 1989 where he is a Lecturer with Honorary Consultant Status teaching within the department of postgraduate endodontology. He has lectured abroad within the Czech Republic and to dental personnel of Her Majesty’s armed forces in Germany. He is a partner at simplyendo and enjoys teaching in their dedicated state of the art centre for endodontic study in Alltrincham, Cheshire. He is a member of the British Endodontic Society. He has a keen passion for endodontics as a clinician and as a teacher and enjoys sharing this with fellow clinicians.
XP-endo Shaper
3D preparation from a single rotary file

Technology

With the creation of the exclusive MaxWire® alloy, FKG is bringing two fundamental properties to the forefront: superelasticity and shape memory, with the aim of creating a completely new generation of instruments. Unlike other instruments, these are able to react to variations in temperature and to take on a predetermined shape inside the root canal in response to body temperature. They can even be pre-bent to aid access to difficult to reach canals.

Their specific preset shape and their extreme flexibility enables these instruments to contract and expand within the canal itself, and to reach areas which conventional instruments simply cannot access. Furthermore, their small ISO diameter and their narrow taper give them extreme resistance to cyclic fatigue. These factors enable this new technology to provide treatment for extremely complex root canal morphology, simply and efficiently, whilst being able to preserve the canal structure to a remarkable extent.

Two Technologies Combined

The XP-endo Shaper is the latest addition to the XP-endo® range. It is a truly innovative broad spectrum shaping instrument which can be used to radically simplify endodontic sequences.

It results from the combination of two cutting-edge technologies:

- Made with MaxWire® alloy, like the XP-endo Finisher, it offers remarkable flexibility and fatigue resistance, and the ability to progress within the canals with ease and agility, expanding or contracting according to the canal morphology. With an initial taper of .01, the XP-endo Shaper expands once inside the canal, achieving a taper of at least .04.

- Thanks to the Booster Tip (BT), the XP-endo Shaper benefits from a unique geometry, having six cutting edges at the tip. The BT tip respects the trajectory of the canal, whilst removing more material with each pass. It enables the instrument to start shaping an ISO diameter smaller than the one of the instrument. Used with the XP-endo Shaper, the BT tip enables it to start shaping after a glide path of at least ISO 15, and to gradually increase its preparation size to achieve an ISO 30.
Clinical Cases

Case 1

Case of a canal preparation (ex-vivo) for a maxillary right first premolar prepared to 30/.04 with the XP-endo Shaper then filled with TotalFill® BC Sealer™ and TotalFill® BC Points™. We can see that the original shape of the canal has been perfectly preserved and the canal system completely filled.

Radiograph showing the bucco-lingual aspect of the maxillary first premolar.

Cross-section 1mm from the apex.

Cross-section 4mm from the apex.

Cross-section 7mm from the apex.

Radiograph in bucco-lingual direction and cross-sections of the distal canal. © Dr. Hubert Goląbek (Poland) and Dr. Martin Trope (USA). All rights reserved.

Case 2

This case concerns a 62 year old woman presenting a symptomatic pulpitis on the first upper right molar. After preparing a glide path to 15/.02, the canals were instrumented with the XP-endo Shaper to 30/.04 following the instructions for use. The canals were then obturated with TotalFill® BC sealer™ and TotalFill® BC Points™.

Pre-op.

Post-op.

Case 2 - Pulpectomy on an first upper right molar instrumented to 30/.04 with XP-endo Shaper. © Dr. Kleber K.T. Carvalho (Brazil). All rights reserved.
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DENTIST COURSE FEE: £125.00 + VAT per person (£150.00 inc. VAT per person).
NURSE COURSE FEE (1st accompanying nurse): £25.00 + VAT per person (£30.00 inc. VAT per person). Prices includes light refreshments.

2017
Prof James Prichard
EXETER: Thursday 28th Sept
LATE PM
Friday 29th Sept
AM PM

Prof James Prichard
LONDON: Thursday 9th Nov
LATE PM
Friday 10th Nov
AM PM

Dr Fadi Jarad
LIVERPOOL: Thursday 2nd Nov
LATE PM

Dr Mark Hunter
MANCHESTER Thursday 23rd Nov
LATE PM

2018
Dr Dani Mancuso
PORTSMOUTH: Thursday 22nd Feb
LATE PM

Dr Anish Khatri
NORTHAMPTON: Thursday 1st March
LATE PM

Dr Fadi Jarad
CHESTER: Thursday 8th March
LATE PM

Dr James Aquilina
BROMLEY: Thursday 15th March
LATE PM

Dr Justin Dinley
NOTTINGHAM: Thursday 22nd March
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