



*Distance Learning*  
**Advanced Minimum  
Intervention Dentistry MSc**

# No.1

RANKED NUMBER ONE IN THE UK AND No.2  
IN THE WORLD FOR DENTISTRY QS WORLD  
UNIVERSITY RANKINGS 2018

# Top 20

GLOBAL TOP 20 FOR CLINICAL,  
PRE-CLINICAL AND HEALTH  
(INCLUDING DENTISTRY)  
TIMES HIGHER EDUCATION WORLD  
UNIVERSITY RANKINGS 2018

*'Five days in and I'm  
already a better dentist!'*

STUDENT COMMENT AFTER THE FIRST RESIDENTIAL COURSE: PS, 2014

## *Distance Learning* **Advanced Minimum Intervention Dentistry (AMID) MSc**

The world's first and only master's (MSc) programme in Minimum Intervention (MI) restorative dentistry from King's College London.

This innovative three-year programme is the first of its kind in the world to be offered as a postgraduate qualification for practising dentists and dental therapists from the world-renowned British Russell Group university, King's College London.



A team of experts under the directorship of Professor Avijit Banerjee has been brought together at King's College London Dental Institute, King's Health Partners, London, UK.

The course is designed to help you develop an ethical, sustainable and socially responsible business model – enriching the wellbeing of your oral healthcare team and community – whilst at the same time providing year-on-year growth within your dental practice.

#### You will learn:

How to diagnose dental problems at their earliest stages and how to manage your patients by risk assessment of their future oral healthcare needs

Contemporary minimally invasive aesthetic dentistry, how to preserve the beauty of the natural tooth and when it is appropriate to intervene operatively

Modern minimally invasive aesthetic operative skills required for tooth preparation and restoration

How MI dentistry can be applied to all aspects of restorative dentistry using oral healthcare team business management skills

How to put these concepts into real-life practice from day one of the course, with a comprehensive programme of new and enhanced existing skills.

#### Distinctive course features

This course is designed to fit into the schedule of even the busiest clinician. Study part-time (approximately 10 hours per week average during term time) from anywhere in the world with internet access, whilst maintaining your day-to-day work commitments. What you learn today, you can implement tomorrow...

Residential courses are held on King's College London campuses, at Guy's Dental Hospital, and at our specialised training facility at Waterloo. The practical course in years one and two of the programme is held within a state-of-the-art hands-on facility.

The masters programme is supported by major global dental industry partners with the latest materials and competitive scholarships available.

An international team of expert teachers, including programme director Professor Avijit Banerjee, Professor Hien Ngo, as well as MI practicing dentists such as Michael Thomas, Louis Mackenzie and Len D'Cruz (medico-legal expertise).

Latest concepts in clinical detection and diagnosis of dental disease, including:

- Advanced clinical photography
- Risk assessment
- Care planning
- MI preventive management strategies

Practice management of your team, facilities, business and marketing.

Using social media to enhance the patient experience (ethical advertising, educating, business management and the legal pitfalls).

Cutting-edge minimally invasive aesthetic skills in caries management, including:

- Air-abrasion and chemo-mechanical techniques
- Contemporary dental materials
- Minimally invasive aesthetic restoration placement
- MI principles for the management of children, the elderly, prosthodontics, and other aspects of restorative dental care.

RESIDENTIAL COURSES ARE HELD ON CAMPUS, BOTH AT GUY'S DENTAL HOSPITAL AND IN A SPECIALISED TRAINING FACILITY IN WATERLOO.



FOR MORE INFORMATION:  
[WWW.KCL.AC.UK/MIDENTISTRY](http://WWW.KCL.AC.UK/MIDENTISTRY)

## Q&A



**Professor Avijit Banerjee**  
BDS MSc PhD (Lond) LDS FDS (Rest Dent)  
FDS RCS (Eng) FHEA

Chair in Cariology & Operative Dentistry

Honorary Consultant/Clinical Lead,  
Restorative Dentistry (Guy's and St Thomas'  
NHS Foundation Trust)

Head, Conservative & MI Dentistry

Associate Director of Education (UG)

Programme Director, MSc Advanced  
Minimum Intervention Dentistry

Editor-in-chief, Oral Health & Preventive  
Dentistry

Author, *Pickard's Guide to MI Operative  
Dentistry, 10th ed (OUP, 2015)*

#### What inspired you to develop this pioneering distance-learning MSc?

My genuine passion and belief that Minimum Intervention Dentistry (MID) is the oral healthcare philosophy that has the patients' best and long-term interests at its heart.

It forces the profession out of the dark ages in terms of the business, care and treatments provided. Having researched, practiced and educated MID for many years, I felt it was time to develop both undergraduate (UG) and postgraduate (PG) curricula in dental education to reflect this paradigm shift in the delivery of dental care.

As there are many business/logistical barriers to the practical implementation of MI globally, and a dearth of postgraduate education in this area, there's a real market need.

#### What key aspects make this master's programme unique?

Most PG qualifications in dentistry train clinicians to improve their procedural skills to allow them to provide more effective and efficient treatments, ultimately increasing itemized practice revenue.

The AMID programme is unique in that it educates the dentist and dental therapist (and consequently their teams) to change completely the delivery of care they provide and the framework they provide it in.

It includes practice management, team development, use of digital media to ethically advertise/educate patients. It teaches specialist skills in practical aesthetic operative dentistry (detection, minimally invasive technologies, dental materials etc). The course is designed around general dental practice, for team practitioners.

It has major support from the dental industry, with deals from several major companies to help subsidise practice costs during the programme.

By using this MI strategy, patient numbers increase, staff-patient contentment increases, productivity increases with less stress, and so revenue increases. Opportunities for funded practice-based research become available also in many countries around the world.

#### The programme is delivered in a flexible learning format; how does the course structure complement this delivery method?

This is one of the major achievements of this new programme. This is a master's programme dedicated to oral healthcare team. As such, the units and modules of the course have been designed to seamlessly integrate with daily practice. What is learned one day can be put into practice the very next!

Assignments for the masters are tailored to be of benefit not only with regard to the academic content, but also useful for real practice development.

#### Can you summarise the lecturers/presenters who are involved in the programme?

I have been very fortunate to recruit a high quality and passionate teaching team, all of whom are firm advocates of MI Dentistry. Notable clinical academics include Professor Hien Ngo, an MI specialist with international repute as well as other senior lecturers from King's College London Dental Institute.

I have also included well-respected, wet-fingered MI practitioners from the UK, including Louis Mackenzie, Charles Szentesi, Michael Thomas and Bhupinder Dawett, who have all been practising MI Dentistry successfully for many years in the NHS and private practice. Another renowned expert, Len D'Cruz has written and teaches the MI medico-legal/ethics unit, so talent is spread far and wide!

#### The course content includes units ranging from clinical cariology to e-marketing for dental practices – can you explain the reasoning behind all the topics included in the programme?

When developing the programme, I wanted to create a logical storyboard for the delegate so they could appreciate why subjects have been included. There is a critical mix of clinical, academic and business related subjects, which collectively build the structure of MI dental practice/practise. These are integrated to allow those on the course to develop their approach to dental care as they work through the programme, rather than the more traditional approach of completing a qualification and then finding application for this.



# Advanced Minimum Intervention Dentistry MSc

## Course overview

*‘I genuinely believe that this is the future of disease management. I have no regrets whatsoever in taking on this MSc, and I did consider a few others.*

*You have assembled a great team which is making me look at the journey I will take my practice.*

*I say journey, because from what I have learned so far, I know that I want to learn more and practice evidence based dentistry (EBD), and if the evidence says I should do it another way, then I am open to it.*

*Thank you again for getting this thinking MSc together.’*

DUVIE RAJU, PRACTICE OWNER AND MSC AMID STUDENT.

## Year 1

### Module I: AMID Practice Management

Advanced clinical photography

MI Philosophy/Care Planning

The medico-legal ethics of MID

The business/clinical practice management aspects of delivering MID

The use of e-marketing/social media to brand your practice and engage with your patients

By the end of the module students will have accumulated knowledge in the fundamental principles of MID in the areas of care planning, practice management, dento-legal ethics, use of social media to brand the practice and communicate with your patients and techniques for optimising clinical photography.

### Module II: AMID Caries Management

The aetiology of caries, histopathological changes, lesion development, signs and symptoms

Principles of risk assessment at individual and population level.

Examination for lesion detection and activity assessment

International Caries Detection and Assessment System (ICDAS)

Stabilising lesions

Fluoride

Restorative adhesive restorations

Individual patient recall regimes

By the end of the module students will have accumulated knowledge in the fundamental principles of non-operative, tooth preserving, preventive MID in the areas of Cariology, Caries risk assessment, diagnosis and identification, Caries prevention and control and recall.

### Module III: Research Methods

Evaluate papers which appear in scientific literature

Understand the need for a statistical approach in research

Be able to plan and discuss the statistical requirements of project work

Recognise situations requiring more complex tests for which specialist advice is needed

Application of evidence based dentistry in practice

The module covers reasons why research is important and some of the barriers to conducting research in dental settings. It then explores the different types of questions that can be addressed by research, before outlining the methods by which those questions can be answered, including study design, gaining ethical approval, statistical analysis and writing up.

## Year 2

### Module IV: Minimally Invasive Operative Dentistry – applied materials science

The histology of caries affected and infected dentine and handling properties

The use of glass-ionomer and resin based composite materials

Bonding to caries affected and infected dentine

Clinical decision making for caries removal

Clinical decision making for choice of restorative material

Pulpal protection – contemporary concepts and techniques

By the end of the module students will have accumulated knowledge in the fundamental principles of tooth preserving MID in the field of suitable materials and their application in pulpal protection and selection for direct restorations to manage carious lesions.

### Module V: MI Aesthetic Dentistry – clinical skills

Operative methods for caries excavation and cavity preparation

Air-abrasion

Chemo-mechanical preparation

Isolation techniques

Matrix techniques

Material placement techniques

Restoration shaping, finishing and polishing

Restoration longevity

Repair and refurbishment

By the end of the module students will have accumulated knowledge in the fundamental principles of MID in the area of tooth preserving cavity preparation and direct restoration placement.

### Module VI: MI Restorative Dentistry

Periodontology – prevention, detection, diagnosis, management, non-surgical therapy, minimal flap design, adjunctive use of antibiotics.

Prosthodontics – direct restoration aesthetics

Tooth whitening

Prosthodontics – indirect restoration aesthetics, minimal preparation designs.

Oral surgery – bone preservation techniques.

Implantology – expansion techniques, alternate fixture and abutment designs, platform switching concepts.

Paedodontics – prevention, diagnosis, management including minimal operative techniques.

Orthodontics – arch expansion, aesthetic appliances, shortened treatments

Occlusion and toothwear

## Year 3

### Module VII: AMID – Clinical case portfolio

Submit Powerpoint presentations of MI clinical cases. To include treatment options, comparison to more invasive options, risk/benefit analysis, demonstrate thought behind treatment decision, step by step clinical images and radiographs showing equipment, material selection, caries excavation techniques, reflection, prognosis, non-operative caries management that demonstrates delegates understanding of contemporary MI caries theory (smooth surface, pit and fissure, proximal, secondary, root).

*Cases to include:*

Whitening/bleaching

Fissure sealant

PRR

MI amalgam repair/refurbishment

MI Composite Class I and Class II

MI Composite Class III, IV, composite veneer

MI indirect restorations eg adhesive bridgework

At the end of this module, the student will be able to develop advanced clinical skills and presentational skills through clinical practice, maintaining a reflective log book and writing up case reports using written material, photographs and video presentations.

### Module VIII: AMID – Research Project

Students will be required to carry out an approved project relating to an area within the broad field of MI. The report on this project must include a survey of the relevant literature, and be approximately 10,000 words in length excluding the bibliography, illustrations and appendices.

*At the end of this module, the student will be able to:*

Analyse both scientific and clinical data

Critically review the relevant scientific literature

Plan a research project

Understand how to apply statistical analyses

Carry out a research project

Understand the effect of experimental variables

Use information and communications technology

This module provides students with a rigorous research experience through undertaking a piece of research work and writing a report of the findings including a relevant literature review and appropriate statistical analysis. Students will be encouraged to undertake research projects with clinical relevance to their daily practice, including audits carried out with academic rigour, critical literature reviews and in some cases, funded practice-based clinical research.

# Benefits of AMID and the MSc

## Case study

Dr Bhupinder Dawett is one of the MI clinical experts teaching on the programme. He presents data from his real-life MI practice in the UK since 2011:

- Extra 2,000 patients recruited to the practice, a large waiting list for both NHS and Private patients
- 70 per cent increase in sundry sales profit
- 100 per cent increased practice turnover
- Only two members of staff moved (both dentists leaving to further postgraduate study)
- No loss of any ancillary staff
- Practice meetings/appraisals show increased staff quality of working life
- Indirect benefits from the MI approach such as research awards and industry product support (approximately £200,000 to date)
- Freed up clinician (dentist) time, used in differing ways, such as more private work, research activity and time spent with family.

*'How can I put a monetary figure on the increased time I spend with my kids?'*

**£200k**

£200K RESEARCH AWARDS AND INDUSTRY PRODUCT SUPPORT

**70%**

70% INCREASE IN PROFIT

**2,000**

AN EXTRA 2,000 PATIENTS RECRUITED TO THE PRACTICE

**100%**

100% INCREASED PRACTICE TURNOVER

# Skills training



You will enjoy face-to-face practical courses with delegates from around the world in years 1 & 2 of the programme (five and seven days respectively).

Using state-of-the-art facilities on our London campuses, the latest concepts in clinical detection, diagnosis of dental disease will be covered, with dental industry support, including:

- Advanced digital photography
- Risk assessment
- Care planning
- MI preventive management strategies
- Practice management of your team, facilities and marketing using digital social media.

You will learn cutting-edge aesthetic minimally invasive operative skills in caries management, including:

- Air-abrasion and chemo-mechanical techniques
- Optimal use of contemporary adhesive dental materials
- Aesthetic restoration placement
- MI principles for the management of children, the elderly, prosthodontics.

You will present clinical case portfolios of care that you have provided for your patients to demonstrate your skills in minimum intervention dentistry.



MI AESTHETIC OPERATIVE  
CARRIES MANAGEMENT



DR D RAJU (POSTERIOR LOAD-BEARING GLASS IONOMER RESTORATION)



DR L MACKENZIE (VITAL PULP EXPOSURE RESTORED WITH BIODENTINE™ AND RESIN COMPOSITE)

## Further information

FOR MORE INFORMATION:  
[WWW.KCL.AC.UK/DENTISTRY/  
STUDY/DISTANCE/AMID/  
AMIDSTRUCTURE.ASPX](http://WWW.KCL.AC.UK/DENTISTRY/STUDY/DISTANCE/AMID/AMIDSTRUCTURE.ASPX)



Search 'KCL AMID' or scan the QR code for more info including: programme dates, application process and costs

[www.kcl.ac.uk/distancedentistry](http://www.kcl.ac.uk/distancedentistry)  
[distancedentistry@kcl.ac.uk](mailto:distancedentistry@kcl.ac.uk)

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King's Patricia Santos Memorial Scholarships are available to support your studies on the AMID master's programme, up to the value of £9,000. These are awarded competitively at the end of the second year of the course, having been generously donated from industry sponsors: Denplan UK, Oral B and GC UK.



Other industry-sponsored general scholarships are available from King's. The AMID MSc attracts further added-value benefits from our industry partners globally, including access to latest technology and materials, conference participation and R&D site visits.

