

Professor Trevor Burke DDS, MSc, MDS, FDS MGDS RCS (Edin.) FDS RCS, FADM

Professor of Primary Dental Care

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Contact details

Telephone [+44\(0\) 121 466 5477 \(Secretary\) \(tel:+44 121 466 5477\)](tel:+44(0)1214665477)

Fax +44(0) 121 6258815

Email [f.j.t.burke@bham.ac.uk \(mailto:f.j.t.burke@bham.ac.uk\)](mailto:f.j.t.burke@bham.ac.uk)

The School of Dentistry
College of Medical and Dental Sciences
University of Birmingham
St Chad's Queensway
Birmingham
B4 6NN
United Kingdom



About

TrevorBurke is (part time) Professor of Primary Dental Care and Hon Consultant in Restorative Dentistry. His principal activity currently involves being Programme Director of a Masters course in Advanced General Dental Practice, this having been set up 14 years ago and being part time to suit the busy lives of general dental practitioners. A Distance version of the course commenced in Feb.2013.

Trevor is (co-) author of 290 papers published in peer-reviewed journals and four books. His principal interests are in the translation of in vitro research on dental materials into the clinical situation. In this regard, he co-ordinates the work of two practice-based research groups The PREP (**P**roduct **R**esearch and **E**valuation by **P**ractitioners) Panel, with 33 dentists UK-wide and BRIDGE, a West Midlands group with 18 dentists who carry out clinical evaluations of a variety of materials and other practice-based studies.

He has been Chair of the recently established Network for Practice-based Research Network of the IADR.

Trevor is also Editorial Director of Dental Update and was Chair of the Board of Dental Protection for four years until November 2014.

Qualifications

- BDS Queens University Belfast, 1969
- MDS Queens University Belfast, 1972
- DDS University of Manchester 1993.
- MSc, University of Manchester, 1989.
- FADM 2000.

Biography

Trevor Burke graduated at Queens University Belfast, and, following appointments in the School of Dentistry, Belfast, he worked in general dental practice from 1974 to 1992 in Manchester, also working 1.5 days per week in the Unit of Restorative Dentistry at the University of Manchester. Appointed Senior Research Fellow in 1991, Senior Lecturer in Dental Practice, University of Manchester 1992, Professor of Dental Primary Care at University of Glasgow in 1996, moving to his present position as Professor of Primary Dental Care at the University of Birmingham and Hon. Consultant in Restorative Dentistry in 2000. Principal activities include the treatment of patients often referred because of tooth wear, being Course Director of a Masters Course, specifically designed for general dental practitioners (currently with *circa* 60 students), and research (detailed below).

Trevor is (co-) author of 290 papers published in peer-reviewed journals and four books. He has been awarded over 80 research grants.

Teaching

BDS

MSc Advanced General Dental Practice (Campus based and Distance)

Postgraduate supervision

Supervision of one PhD student.

Trevor also supervises the majority of the research projects carried out by the students taking the Masters in Advanced General Dental Practice.

Research

Trevor's research interests include, properties and applications of tooth-coloured restorative materials, clinical evaluation of materials and their performance in general dental practice, the design of an index of oral health for clinical audit and quality control and ill health retirement among dentists.

Trevor's strongest research interests today centre on Practice-based Research, in which Trevor co-ordinates the operation of a nationwide research group, the PREP (Product Research and Evaluation by Practitioners). This group, which Trevor founded in 1993, has conducted over 60 "handling" evaluations of dental materials and presently has clinical evaluations of a variety of materials ongoing, these ranging from 18 months to 5 years. He also helped establish BRIDGE (**B**irmingham **R**esearch **I**n **D**ental **G**eneral practic**E**) a practice based research group in the West Midlands. In this regard, Trevor is a founding member of and was Chair of the Practice-based

His other research interests include reasons for premature retirement of dentists and evaluation of indices used for patient assessment. Along with Dr Steve Lucarotti, formerly Chief Statistician at the Dental Practice Board, Trevor is investigating restoration longevity in England and Wales using a massive data set which includes 10 million restorations at 16 years, the biggest data set ever developed for dental research. A number of research projects are ongoing, using this data set. These include factors influencing the longevity of root canal treatments and survival of restorations of all types.

Other activities

As an Hon Consultant in Restorative Dentistry, Trevor takes referrals from practice, with his principal interest being the minimal invasive treatment of tooth wear using resin composite restorations. Trevor is also an examiner for the Royal College of Surgeons of Edinburgh, Editorial Director of Dental Update and was Chair of the Board of Dental Protection until November 2014.

Publications

Lucarotti PS, Burke FJ. Factors influencing patients' continuing attendance at a given dentist. *Br Dent J.* 2015 Mar 27;218(6):E13. doi: 10.1038/sj.bdj.2015.230.

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Lucarotti PS, Lessani M, Lumley PJ, Burke FJ. Influence of root canal fillings on longevity of direct and indirect restorations placed within the General Dental Services in England and Wales. *Br Dent J.* 2014 Mar;216(6):E14. doi:10.1038/sj.bdj.2014.244. PubMed PMID: 24651365.

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Burke FJ, Crisp RJ, Cowan AJ, Lamb J, Thompson O, Tulloch N. Five-year clinical evaluation of zirconia-based bridges in patients in UK general dental practices. *J Dent.* 2013 Nov;41(11):992-9. doi: 10.1016/j.jdent.2013.08.007. Epub 2013 Aug 15. PubMed PMID: 23954574

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Burke FJ, Mackenzie L, Sands P. Dental materials--what goes where? Class I and II cavities. *Dent Update.* 2013 May;40(4):260-2, 264-6, 269-70 passim. Review. PubMed PMID: 23829006.

Burke FJ, Lucarotti PS. Ten year survival of bridges placed in the General Dental Services in England and Wales. *J Dent.* 2012 Nov;40(11):886-95. doi: 10.1016/j.jdent.2012.07.002. Epub 2012 Aug 3. PubMed PMID: 22864053.

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Everson P, Addison O, Palin WM, Burke FJ. Improved bonding of zirconia substructures to resin using a "glaze-on" technique. *J Dent.* 2012 Apr;40(4):347-51. doi: 10.1016/j.jdent.2011.12.011. Epub 2011 Dec 21. PubMed PMID: 22210451.

Brunton PA, Sharif MO, Creanor S, Burke FJ, Wilson NH. Contemporary dental practice in the UK in 2008: indirect restorations and fixed prosthodontics. *Br Dent J.* 2012 Feb 10;212(3):115-9. doi: 10.1038/sj.bdj.2012.92. PubMed PMID: 22322759.

Burke FJ, Kelleher MG, Wilson N, Bishop K. Introducing the concept of pragmatic esthetics, with special reference to the treatment of tooth wear. *J Esthet Restor Dent.* 2011 Oct;23(5):277-93. doi: 10.1111/j.1708-8240.2011.00462.x. Epub 2011 Aug 31. PubMed PMID: 21977949.

