

Curriculum Vitae

PERSONAL DETAILS

Surname: Thiruvenkatachari

Forename: Badri

Department: Sree Balaji Dental Institute, BIHER

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EDUCATION

1996-2001	Bachelor of Dental Surgery (BDS), Annamalai University, India.
2001-2004	Specialist Trainee in Orthodontics (MDS), Annamalai University, India
2005-2009	PhD in Orthodontics, University of Manchester.
2009	MOrth RCS Edinburgh.
2010	MFDS RCS Edinburgh.
2015	FDS (Orth) RCS London
2015	Intercollegiate Speciality Fellowship (ISFE)
2017	FDS (Orth) RCS Glasgow
2018	Diplomat in the Indian Board of Orthodontics (DIBO)
2018	Fellow of Higher Education Academy, UK (FHEA)

APPOINTMENTS HELD

01.11.2019- current	Professor in Orthodontics/Director, Dental Research, Sree Balaji Dental College, BIHER
01.01.2018-current	Hon.Senior Lecturer in Orthodontics, University of Manchester
01.10.2015- current	Consultant Orthodontist, Stepping Hill Hospital, UK
01.08.2018-30.09.2019	Professor, Saveetha Dental College, Chennai
01.01.2018-01.07.2018	Senior Lecturer in orthodontics, University of manchester
01.10.2015-31.12.2017	Clinical Lecturer in Orthodontics, University of Manchester
01.10.2012-01.10.2015	NIHR Academic Clinical Lecturer/FTTA, University of Manchester
01.05.2009-30.09.2012	Clinical Lecturer in Orthodontics, University of Manchester
01.09.2005-30.04.2009	Clinical Teaching Fellow in Orthodontics, University of Manchester
01.10.2004-30.08.2005	Associate specialist Orthodontist, ADC, India
01.06.2001-30.09.2004	Specialist Trainee in Orthodontics, Annamalai University, India
01.07.2001-01.07.2002	General Dental Practitioner, ADC, India
01.07.2000-31.06.2001	House officer (VT), annamalai University, India

AWARDS

1. B.F. and Helen E. Dewel Award for Clinical Research for the highest rated clinical research published in the American Journal of Orthodontics and Dentofacial Orthopedics (2010)
2. David L. Turpin Award for the best research published in the American Journal of Orthodontics and Dentofacial Orthopedics. Awarded by the American Orthodontic Association in San Francisco (2015).
3. Chapman Prize for best journal paper published in orthodontic journal for the year 2010.
4. Rising star award by the British Orthodontic Society for the most outstanding research carried out in the UK (2010).

5. B.F. and Helen E. Dewel Award for Clinical Research for the highest rated clinical research published in the American Journal of Orthodontics and Dentofacial Orthopedics (2010).
6. ORS scholarship and Faculty funding for a clinical PhD on a Randomised Controlled Trial on the effectiveness of the Dynamax and Twinblock appliance measured by three dimensional laser scanner (£23,600).
7. Sponsorship from DENTOS Company, South Korea (www.dentos.co.kr), for a clinical trial on ANSO-ANCHOR Orthodontic Micro-Implants (£5000).

RESEARCH CONTRIBUTIONS

Journal Publications

2021

1. Sebastian B, Bhuvaraghan A, Thiruvenkatachari B. Orthodontic space closure in sliding mechanics: a systematic review and meta-analysis. European Journal of Orthodontics. 2021
2. Meyhar L, Sandler J, Thiruvenkatachari B. Does observational study on the effectiveness of the Twin Blocks overestimate or underestimate the results? A comparative analysis of retrospective samples versus randomised controlled trial. J of World Fed Orthodontists. 2021 Jun;10(2):43-48
3. Narayan P, Thiruvenkatachari B, DiBiase A. Role of GDP in managing the risks of orthodontic treatment. British Dental Journal. 2021.
4. Chaturvedula BB, Muthukrishnan A, Bhuvaraghan A, Sandler J, Thiruevnkatachari B. Dens Invaginatus: a review and orthodontic implications. British Dental Journal. 2021 march; 230: 6: 345-50

2020

5. Macey R, Thiruvenkatachari B, O'Brien K, Batista KBSL. Authors response, Do malocclusion and orthodontic treatment impact on oral health?. Am J Orthod Dentofacial Orthop. 2020 Nov;158(5):631.
6. Richard Macey, Badri Thiruvenkatachari, Klaus Batista, Kevin O'Brien. Do malocclusion and orthodontic treatment impact on oral health? A systematic review and meta-analysis in Am J Orthod Dentofacial Orthop. 2020 Jun;157(6):738-744.e10

2019

7. Yiwen Chen, Fang Hua, Yan Mei, Badri Thiruvenkatachari, Phil Riley, Hong He. The Characteristics and Level of Evidence of Clinical Studies Published in Five Leading Orthodontic Journals. Journal of Evidence Based Dental Practice. In Press
8. Batista, K, Thiruvenkatachari B, O'Brien, KD. Intention-to-treat analysis: Are we managing dropouts and missing data properly in research on orthodontic treatment? A systematic review. Am J Orthod Dentofacial Orthop. Am J Orthod Dentofacial Orthop. Am J Orthod Dentofacial Orthop. Am J Orthod Dentofacial Orthop. 2019 Jan;155(1):19-27

2018

9. Batista, K, **Thiruvenkatachari B**, Harrison JE, Worthington HV. O'Brien KD. Orthodontic treatment for prominent upper front teeth in children. Cochrane Database Syst Rev. 2018 March. Issue 3. Art. No.: CD003452.

2017

10. **Thiruvenkatachari B**, Javidi H, Griffiths S, Shah A, Sandler J. Extraction of maxillary canines - esthetic perception of patient smiles among dental professionals and lay people. *Am J Orthod Dentofacial Orthop*. 2017 Oct;152(4):509-515.
11. C. Lindner, D. Waring, B. **Thiruvenkatachari**, K. O'Brien, and T.F. Cootes. Adaptable landmark localisation: applying model transfer learning to a shape model matching system. *Medical Image Computing and Computer Aided Intervention (MICCAI) 2017*, pp.144-151.
12. Sandler J, **Thiruvenkatachari B**, Gutierrez R. Measuring molar movement: A reliable technique. *APOS Trends Orthod* 2017;7:63-8
13. Woon SC, **Thiruvenkatachari B**. Early orthodontic treatment for Class III malocclusion: A systematic review and meta-analysis. *Am J Orthod Dentofacial Orthop*. 2017 Jan;151(1):28-52

2015

14. Hidalgo Rivas JA, Horner K, **Thiruvenkatachari B**, Davies J, Theodorakou C. Development of a low-dose protocol for cone beam CT examinations of the anterior maxilla in children. *Br J Radiol*. 2015 Oct;88(1054)
15. **Thiruvenkatachari B**, Harrison JE, Worthington HV, O'Brien KD. Early orthodontic treatment for Class II malocclusion reduces the chance of incisal trauma: The results of a Cochrane Systematic Review. *Am J Orthod Dentofacial Orthop*. 2015 Jul;148(1):47-59.

2014

16. Mittal M, **Thiruvenkatachari B**, Sandler PJ, Benson PE. A three-dimensional comparison of torque achieved with a preadjusted edgewise appliance using a Roth or MBT prescription. *Angle Orthod*. 2014 Jun 30.
17. Sandler J, Murray A, **Thiruvenkatachari B**, Guitierrez R, Speight P, O'Brien K. Effectiveness of 3 methods of anchorage reinforcement for maximum anchorage in adolescents: A 3-arm multicenter randomized clinical trial. *Am J Orthod Dentofacial Orthop*, 2014. Jul;146(1):10-20

2013

18. **Thiruvenkatachari B**, Harrison JE, Worthington HV, O'Brien KD. Orthodontic treatment for prominent upper front teeth in children. *Cochrane Database Syst Rev*. 2013 Nov 13;11:CD003452
19. Jambi S, **Thiruvenkatachari B**, O'Brien KD, Walsh T. Orthodontic treatment for distalising upper first molars in children and adolescents. *Cochrane Database Syst Rev*. 2013 Oct 23;10:CD008375.

2012

20. Book review "New horizons in orthodontics, volume I: Advances in fixed appliance technique". *Am J Orthod Dentofacial Orthop*, 2012. 141(4); 522.

2010

21. **Thiruvenkatachari B**, Sandler J, Murray A, Walsh T, O'Brien K. (2010). Comparison of Twin-block and Dynamax appliances for the treatment of Class II malocclusion in adolescents: a randomized controlled trial. *Am J Orthod Dentofacial Orthop*, 138(2), 144.e1-9; discussion 144-5.

22. **Thiruvenkatachari B**, O'Brien KD, Walsh T. Orthodontic treatment for distalising upper first molars (protocol). Jambai S, The Cochrane Library, 2010 Issue 2.

2009

23. **Thiruvenkatachari B**, AL-Abdallah M, Akram NC, O'Brien K. A method of measuring three dimensional tooth movement using 3D Surface Laser Scanner. Am J Orthod Dentofacial Orthop. 2009 Apr;135(4):480-5.
24. O'Brien....., **Thiruvenkatachari B**, Walsh T, Turbill E. Early treatment for Class II Division 1 malocclusion with the Twin-block appliance: a multi-center, randomized, controlled trial. Am J Orthod Dentofacial Orthop. 2009 May;135(5):573-9.
25. O'Brien....., **Thiruvenkatachari B**, Walsh T, Turbill E. Prospective, multi-center study of the effectiveness of orthodontic/orthognathic surgery care in the United Kingdom. Am J Orthod Dentofacial Orthop. 2009 Jun;135(6):709-14.

2008

26. **Thiruvenkatachari B**, Pavithranand, Rajasigamani. Comparison of rate of canine retraction between conventional molar anchorage and titanium microimplant anchorage. Am J Orthod Dentofacial Orthop. 2008 Jul; 134(1):30-5.
27. Sandler J, Benson PE, Doyle P, Majumder A, O'Dwyer J, Speight P, **Thiruvenkatachari B**, Tinsley D. Palatal implants are a good alternative to headgear: a randomized trial. Am J Orthod Dentofacial Orthop. 2008 Jan; 133(1):51-7.

2007

28. Banks P, **Thiruvenkatachari B**. Long-term clinical evaluation of bracket failure with a self-etching primer: a randomized controlled trial. J Orthod. 2007 Dec; 34(4):243-51.

2006

29. **Thiruvenkatachari B**, Pavithranand, Rajasigamani and Hee Moon Kyung. Molar anchorage loss with and without the use of implant anchorage during canine retraction. Am J Orthod Dentofacial Orthop.2006; 129: 551-554.

Book Chapters

1. **Thiruvenkatachari B** et al. Class II malocclusion. Evidence-Based Orthodontics. John Wiley & Sons
2. **Thiruvenkatachari B** et al. Class III malocclusion. Evidence-Based Orthodontics. John Wiley & Sons
3. **Thiruvenkatachari B** et al. Distalizing upper first molars. Evidence-Based Orthodontics. John Wiley & Sons

FUNDED PROJECTS INVOLVED

1. Reducing the burden of care for children with clefts: Evaluating the effectiveness of **NA**soalveolar **M**oulding in complete **U**nilateral non-syndromic **C**left patients (**NAMUC** Study). India Alliance. Wellcome Trust Senior Fellowship/DBT India. Rs Rs. 56.7 Million (5.67 Crores). PI: Badri Thiruvenkatachari. Start: Sep 2021. End: August 2026.
2. Reducing the burden of Orthodontic Care for children with Clefts: Evaluating the effectiveness of Pre-alveolar Bone Graft Orthodontics in unilateral non-syndromic Cleft patients (PABO Study). Science and Engineering Research Board, Core Research grant, Rs. 43,91,200. Principal Investigator: Badri Thiruvenkatachari Start 01.01.2020- end 01.11.2023

3. UKIERI. Cleft Care India Study. £14,000. Principal Investigator: Badri Thiruvengkatachari
01.07.2019- end 01.07.2021
4. Evaluation of cleft care outcomes of non-syndromic unilateral cleft lip and palate (UCLP) patients at ages 5,12 and 20 across India: The Cleft Care India Study. Rs.39,96,000. Principal Investigator: Panchali Batra, Badri Thiruvengkatachari
01.07.2019- end 01.07.2021
5. MRC funded project on Class II malocclusion (£2 million). Investigators: Kevin O'Brien (PI), Badri Thiruvengkatachari et al.
01.04.1992 to 01.04.2009
6. A randomised controlled trial to evaluate the effectiveness of Invisalign appliance (£75000) Investigators: Jonathan Sandler (PI), Steve Chadwick, Badri Thiruvengkatachari.
01.08.2017 to ongoing
7. A randomised clinical trial to compare the effectiveness of TAD, Nance button and headgear (£30000). Investigators: Jonathan Sandler (PI), Badri Thiruvengkatachari et al.,
01.06.2009 to 01.06.2015
9. National Institute of Health Research CL grant for research on orthodontic and cleft related projects (£27000). Investigator: Badri Thiruvengkatachari
01.10.2012 to 01.10.2015
10. ORS scholarship and Faculty funding for a project on Randomised Controlled Trial on the effectiveness of the Dynamax and Twinblock appliance measured by three dimensional laser scanner (£23,600). Investigator: Badri Thiruvengkatachari
01.09.2006 to 01.10.2008

EXAMINERSHIP:

2017-current:	Examiner for Membership in Orthodontics (MOrth), RCS England
2014- current:	Examiner for Licence in Dental Surgery (LDS), RCS England
2014- current:	Examiner for Membership of the Faculty of Dental Surgery (MFDS), RCS Edinburgh
2014- 2017:	Examiner in Manchester orthodontic therapist course
2009- 2018:	Examiner for Year 3, year 4 and year 5 (final year) BDS
2010- 2017:	Examiner for MSc research, University of Manchester

PROFESSIONAL ACTIVITIES

Editor-In-Chief – eJournal of dentistry.

Referee for the following journals,

American Journal of Orthodontics and Dentofacial Orthopedics (since 2012)
 Angle Orthodontist (since 2010)
 European Journal of Orthodontists (since 2011)
 British Dental Journal (since 2017)
 Journal of Orthodontics (since 2012)
 Orthodontics and Craniofacial research (since 2015)
 Indian Journal of Dental Research (since 2010)
 Journal of Indian Orthodontic Society (since 2014)
 Dental Update - Orthodontic section (since 2008)

Expert judge for the British Orthodontic Society JJ Thompson Award for the best protocol.

Interview panel member for Bachelor of Dental Surgery (BDS) entry examinations for University of Manchester since 2010

KEY INVITED LECTURES FOR NATIONAL/INTERNATIONAL CONFERENCES

1. A randomised clinical trial comparing the effectiveness of two different functional appliance for Class II division adolescent patients- British Orthodontic Conference, Brighton, 2010.
2. Dynamax appliance: the stopped randomised clinical trial and what we learnt- British Orthodontic Conference, Harrogate, 2011.
3. Canine extractions versus premolar extractions- World Orthodontic conference, London, 2015.
4. FORSUS fixed functional appliance- British orthodontic conference, Manchester, 2017
5. Tricks and techniques with FORSUS appliance- British orthodontic conference, Manchester, 2018
6. IOTN for dentists- Manchester Dental Research Conference, Manchester, 2016
7. Occlusal Indices for orthodontists- NUC, Manchester, 2017
8. Art and Science of Class II treatment, Indian Orthodontic Conference, Bhubaneswar 2019
9. How to read a research paper, Indian orthodontic Convention, September, 2019
10. Temporary anchorage devices, Indian Dental Association, Trichy 2019
11. Orthodontics made easy, Indian Dental Association, Kerala, 2018
12. Tips and tricks for FORSUS. British Orthodontic Conference. Manchester, September 2021.

WORKSHOPS

1. Structured research Methodology, Bharath Institute of Higher Education and Research, March 2021
2. Membership in Orthodontics Orientation programme, Bharath Institute of Higher Education and Research, April 2021
3. Cleft Care India Study: Standardisation of data collection. Jamia Millia Islamia University, New Delhi, December 2019
4. Research Methods, University of Manchester, November, 2016-2019
5. Membership in orthodontics orientation programme, Saveetha Dental College, Chennai, 2019
6. Frequent practical hands-on workshop on Damon appliance for specialist orthodontists, orthodontic therapists and specialist trainees in the UK, 2016-2018
7. Frequent practical hands-on workshops on FORSUS appliance, 3M Unitek for specialist orthodontist, UK, 2013-2018
8. Twin Block appliance for specialist orthodontist and trainees, Manchester, 2012, 2013 and 2014
9. Frequent workshops on Invisalign appliances for dentist and specialist orthodontist, UK.
10. Frequent practical hands-on workshop on Photography for specialist orthodontists, orthodontic nurses and specialist trainees, 2009 to 2018

TEACHING CONTRIBUTIONS

Courses organised and given:

Damon appliance- tricks and techniques- for specialist orthodontists (2016, 2017 and 2018)

Occlusal Indices, Northern Universities Consortium, Manchester (2012, 2013, 2014, 2015, 2016, 2017, 2018 & 2019)
Twin Block Course, Northern Universities Consortium, Chesterfield (2007, 2008)
Invisalign appliance- Orthodontic specialists and general dentists, Manchester (2012, 2013, 2014, 2015, 2016, 2017 and 2018)
Clinical photography in Orthodontics, Chesterfield (2008, 2009, 2010)
IOTN for general dentists, Stockport (2012, 2013)
Orthodontic radiography, Stepping Hill Hospital (2013, 2014)
Dolphin imaging, Manchester (2013, 2014, 2015)
Statistics for dummies, Manchester (2009)
Orthognathic Study Day (2015)
Orthognathic quality outcomes, Manchester (2015)

Teaching leadership

Undergraduate orthodontic course lead 2012-2018, School of Dentistry, University of Manchester
Academic and research supervisor for orthodontic specialist/postgraduate trainees at School of Dentistry, 2012-2018, University of Manchester
Clinical supervisor for orthodontic specialist/postgraduate trainees (CCST) and Post-CCST trainees (senior registrars) at School of Dentistry, 2012-2018, University of Manchester
Course director for Northern University Consortium 'Indices course' for postgraduates/specialist trainees across North and North West England.
Research supervisor for undergraduate CAT students
Orthodontic nurses and therapists course lecturer
DENTMAN Global orthodontic course lead

Presentations

Invited speaker for the British orthodontic conference for five years
100+ lectures on regional, national and international meetings
Delivered 50+ one-day course/workshops for Northern University Consortium and others, UK

Professional membership

Member of World Federations of Orthodontics
Member of British Orthodontic Society
Member of British Lingual Orthodontic Society
Member of the Indian Orthodontic Society
Member of Indian Dental Association