

Curriculum Vitae

PERSONAL DETAILS

Surname: Thiruvenkatachari

Forename: Badri

Designation: Director, Research and Professor in Orthodontics, Sree Balaji Dental Institute,

University: Bharath Institute of Higher Education and Research (formerly Bharath University)

EDUCATION

Bachelor of Dental Surgery (BDS), Annamalai University, India.

Specialist Trainee in Orthodontics (MDS), Annamalai University, India

PhD in Orthodontics, University of Manchester.

MOrth RCS Edinburgh.

MFDS RCS Edinburgh.

FDS (Orth) RCS London

Speciality Fellowship Examination (ISFE)

FDS (Orth) RCPS Glasgow

Diplomate in the Indian Board of Orthodontics (DIBO)

Fellow of Higher Education Academy, UK (FHEA)

FUNDED PROJECTS

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. 4.67 Crores (£0.5 Million). PI: Badri Thiruvenkatachari. Start: Sep 2021. End: August 2026.
2. Economic evaluation for cleft patients. Sub-study of a multicentric RCT. Transforming Faces, Nederland. PI: Badri Thiruvenkatachari. start 2021-End 2023. Rs. 25,00,000.
3. 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 (£50000). Principal Investigator: Badri Thiruvenkatachari. Start 01.01.2020- end 01.11.2023
4. UKIERI. Cleft Care India Study. £14,000. Principal Investigator: Badri Thiruvenkatachari. Start 01.07.2019- end 01.07.2021
5. 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 (£45000). Principal Investigator: Panchali Batra, Badri Thiruvenkatachari. Start 01.07.2019- end 01.07.2021
6. A randomised clinical trial to compare the effectiveness of TAD, Nance button and headgear (£30000). Investigators: Jonathan Sandler (PI), Badri Thiruvenkatachari et al., start 01.06.2009 to 01.06.2015
7. National Institute of Health Research CL grant for research on orthodontic and cleft related projects (£27000). Investigator: Badri Thiruvenkatachari. Start 01.10.2012 - end 01.10.2015
8. 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 Thiruvenkatachari 01.09.2006 to 01.10.2008

AWARDS

1. India Alliance DBT/Wellcome Trust Senior Fellowship Award: Department of Biotechnology, India and Wellcome Trust UK joint award. September 2021
2. 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 -2021
3. 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).
4. 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)
5. Chapman Prize for best journal paper published in orthodontic journal for the year 2010.
6. Rising star award by the British Orthodontic Society for the most outstanding research carried out in the UK (2010).
7. 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).
8. 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).
9. 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

- Kirtane R, Wiltshire B, Thiruvengkatachari B, Bittencourt P, Shah A, Pinheiro F. Cephalometric effects of Twin-Block and van Beek Headgear-Activator in the correction of Class II malocclusion. Am J Orthod Dentofacial Orthop. In Press
1. Batra, P, Sybil D, Batra P, Arisha A, Thiruvengkatachari B. Standard of Care for Patients with Cleft Lip and Palate in India- A Questionnaire-based Study. Cleft Palate-Craniofacial Journal. 2022 Jan 31. DOI: [10.1177/10556656221074212](https://doi.org/10.1177/10556656221074212)
 2. Thiruvengkatachari B, Hussain SA, Batra P, Vijayakumar C, Prathap C M. 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)- A study protocol for a multicentric randomised controlled trial. Trials. 2021 Aug 28;22(1): 1-8
 3. Sebastian B, Bhuvaraghan A, Thiruvengkatachari B. Orthodontic space closure in sliding mechanics: a systematic review and meta-analysis. European Journal of Orthodontics. 2021; 1-16
 4. Meyhar L, Sandler J, Thiruvengkatachari 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

5. Narayan P, Thiruvengkatachari B, DiBiase A. Role of GDP in managing the risks of orthodontic treatment. *British Dental Journal*. 2021.
6. Chaturvedula BB, Muthukrishnan A, Bhuvanaraghan A, Sandler, J, Thriuevnakatachari B. Dens Invaginatus: a review and orthodontic implications. *British Dental Journal*. 2021 march; 230: 6: 345-50
7. Macey R, Thiruvengkatachari 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.
8. Richard Macey, Badri Thiruvengkatachari, 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
9. Yiwen Chen, Fang Hua, Yan Mei, Badri Thiruvengkatachari, 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
10. Batista, K, Thiruvengkatachari 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
11. Batista, K, **Thiruvengkatachari 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.
12. **Thiruvengkatachari 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*. *Am J Orthod Dentofacial Orthop*. 2017 Oct;152(4):509-515.
13. C. Lindner, D. Waring, B. **Thiruvengkatachari**, 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.
14. Sandler J, **Thiruvengkatachari B**, Gutierrez R. Measuring molar movement: A reliable technique. *APOS Trends Orthod* 2017;7:63-8
15. Woon SC, **Thiruvengkatachari 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
16. Hidalgo Rivas JA, Horner K, **Thiruvengkatachari 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)
17. **Thiruvengkatachari 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.
18. Mittal M, **Thiruvengkatachari 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.
19. Sandler J, Murray A, **Thiruvengkatachari 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

20. **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
21. 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.
22. Book review "New horizons in orthodontics, volume I: Advances in fixed appliance technique". *Am J Orthod Dentofacial Orthop*, 2012. 141(4); 522.
23. **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.
24. **Thiruvenkatachari B**, O'Brien KD, Walsh T. Orthodontic treatment for distalising upper first molars (protocol). Jambi S, The Cochrane Library, 2010 Issue 2.
25. **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.
26. 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.
27. 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.
28. **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.
29. 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.
30. 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.
31. **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

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