

2019

Venkateshbabu Nagendrababu

## **Personal Statement**

I completed my Bachelor's degree in 2005 and my further interest in the subject of Endodontology led to completion of my Master's degree in 2008. My continuing research interest in Endodontics, culminated in me pursuing PhD in the use of nanotechnology for root canal disinfection. I am an ardent and focused clinician, but a strong interest in teaching and research led to me choosing an academic career path. In 2008, I joined as a full-time faculty in Sri Ramachandra University, India and in 2014 moved to International Medical University, Malaysia. My academic experience covers more than 11 years of interaction in a range of academic capacities within dentistry. In my current position, I hold several duties including Head of the Dental Skill Center, Coordinator for the Restorative Dentistry module, and also the Head for Systematic Review research cluster. I am also involved in setting standards for university level examination questions, and the development and assessment of Restorative dentistry and Endodontics curriculum. My teaching duties include supervision of students in pre-clinical and clinical sessions, delivering small group discussions including Problem Based Learning (PBL), Case Based Learning (CBL), as well as preparing questions and didactic lectures.

My interest in research resulted in 73 publications in respected journals and 18 research grants totaling approximately 47,000 USD. My primary research interest is on strategies to combat root canal biofilms and I have several international peer-reviewed publications on this topic. Currently, I have developed interest in evidence based dentistry and have published several systematic reviews with using latest statistical tools including meta-analysis, network meta-analysis and trail sequential analysis. In addition to this, I have evaluated the quality of systematic reviews published in the field of Endodontics as well as Pediatric Dentistry. This project has offered recommendations to authors on the most appropriate manner to publish high quality reviews. Recently, I have become one of the project leader for developing the guidelines for reporting various study designs in Endodontics (PRIDE – Preferred Reporting Items for study Designs in Endodontics, <http://pride-endodonticguidelines.org/>). Strong research interests, good communication skill and an ethos of hard work, have provided me the ability to proactively collaborate with many experienced Endodontists across the globe. I am fastidious in keeping abreast of developments in the clinical field of Endodontics. I regularly attend to patients requiring endodontic treatment. I am interested in managing unusual root canal anatomy, retreatment, instrument retrieval, management of perforations etc.

## **CURRICULUM VITAE**

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## 1. Personal Information

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Subramaniyapuram  
Trichy – 20  
Tamilnadu, India



## 2. Academic qualifications

Bachelor of Dental Surgery (B.D.S)  
Rajah Muthiah Dental College  
Annamalai University, Tamilnadu, India  
February 2005

Master of Dental Surgery (M.D.S) (Conservative Dentistry and Endodontics).  
Meenakshmai Ammal Dental College  
MAHER University, Tamilnadu, India  
March 2008

Doctor of Philosophy (PhD) (Endodontics)  
Broad area: Nanoparticles in root canal disinfection.  
Faculty of Dental Sciences  
Sri Ramachandra University and Research Institute, Tamilnadu, India  
March 2015

Membership of the Faculty of Dental Surgery (MFDS RCPS)  
Royal College of Physicians and Surgeons of Glasgow  
April 2018

### 3. Working experience

May 2008 to September 2012	Senior Lecturer Department of Conservative dentistry and Endodontics, Faculty of Dental Sciences, Sri Ramachandra University and Research Institute, Tamilnadu, India.
October 2012 to November 2014	Reader Department of Conservative dentistry and Endodontics, Faculty of Dental Sciences, Sri Ramachandra University and Research Institute, Tamilnadu, India.
November 2014 to till date	Senior Lecturer Division of Clinical Dentistry, School of Dentistry, International Medical University, Kuala lumpur, Malaysia.
February 2019 to till date	Head, Dental Skill Centre, School of Dentistry, International Medical University, Kuala lumpur, Malaysia

### 4. Research

#### 4.1. Publications (Total number- 73, H index -14, Google scholar Citations – 1032)

1. Hemamalathi S, **Nagendrababu V**, Kandaswamy D. Intra-radicular rehabilitation and management of fractured teeth -A case report. Journal of Conservative Dentistry, Oct – Dec 2006, Vol 9, Issue 6, 119 -122.
2. Vishnu S, Sowmya G, Kandaswamy D, **Nagendrababu V**. Fourier Transform Infrared Spectroscopic Evaluation - Degree of Conversion of a Packable, Hybrid, Flowable composite resin cured using a light transmitting post. Journal of Conservative Dentistry, Jan – Mar 2007, Vol 10, Issue 1, 38 -42.
3. Hemamalathi S, **Nagendrababu V**, Kandaswamy D. A Single step apexification and Intra-radicular rehabilitation of fractured tooth - A Case Report. Journal of Conservative Dentistry, April – June 2007, Vol 10, Issue 2, 48 -52.
4. **Nagendrababu V**, Velmurugan N, Roy A, Kandaswamy D. Evaluation of the pulp chamber morphological measurements in maxillary first premolar in Indian population. Journal of Conservative Dentistry, Oct – Dec2007, Vol 10, Issue 4, 119-121.

5. Ballal S, **Nagendrababu V**, Nandini S, Kandaswamy D. An in vitro study to assess the setting and surface crazing of conventional Glass-ionomer cement when layered over partially set mineral trioxide aggregate. *Journal of Endodontics* 2008; 34:478–480
6. Velmurugan N, **Nagendrababu V**, Abarajithan M, Kandaswamy D. Evaluation of the Pulp Chamber Morphological Measurements in Maxillary First Premolar in Indian population — In Vitro study - *Indian Journal of Dental Research*, April – June 2008; Vol 19, Issue 2, 92 - 94.
7. Kandaswamy D, **Nagendrababu V\***, Porkodi I, Pradeep G Canal centering ability: an Endodontic Challenge– Literature review. *Journal of Conservative Dentistry*, Jan-Mar 2009, Vol 12 , Issue 1, 3 – 9.
8. Kandaswamy D, **Nagendrababu V \***, Krishna RG, Hannah R, Arathi G, Roohi R. Comparison of Laterally Compacted Gutta- Percha, Vertically Compacted Thermoplasticized Gutta-Percha and Cold Free- Flow Gutta – Percha Obturations – A Volumetric Analysis using Spiral CT-An In Vitro Study. *Journal of Conservative Dentistry* 12:145 :2009
9. Gopikrishna V, Pradeep G, **Nagendrababu V**. Assessment of pulp vitality: a review. *Int J Paediatr Dent*. 2009 Jan;19(1):3-15.
10. Kandaswamy D, **Nagendrababu V**. Root canal irrigants: A review. *Journal of Conservative Dentistry*, Oct – Dec2010, Vol 13, Issue 4, 256-264.
11. Kandaswamy D, **Nagendrababu V \***, Gogulnath D, Kindo AJ. Dentinal tubule disinfection with 2% Chlorhexidine gel, propolis, morinda citrifolia juice, 2% povidone iodine, and calcium hydroxide. *International Endodontic Journal*, 2010 May;43(5):419-23.
12. Kandaswamy D, **Nagendrababu V\***, Arathi G, Roohi R, Anand S : Effect of various final irrigants on the shear bond strength of sealers to dentin. *Journal of Conservative Dentistry* 2011 Jan;14(1):40-2.
13. Gopikrishna V, **Nagendrababu V**, Datta K, Kandaswamy D. Evaluation of the effect of MTAD in comparison with EDTA when employed as the final rinse on the shear bond strength of three endodontic sealers to dentin- *Australian Endodontic Journal* 2011 Apr;37(1):12-7.
14. Kandaswamy D, **Nagendrababu V**. Clinical steps in reducing polymerisation shrinkage. *Journal of Conservative and Endodontic Society of Kerala*. Apr 2011 1(1):7-9.
15. Vaghela DJ, Kandaswamy D, **Nagendrababu V**, Jamini N, Ganesh A. Disinfection of dentinal tubules with two different formulations of calcium hydroxide as compared to 2% chlorhexidine: As intracanal medicaments against *Enterococcus faecalis* and *Candida albicans*: An in vitro study. *J Conserv Dent*. 2011 Apr;14(1): 27-31

16. Kandaswamy D, Jeyavel Rajan, **Nagendrababu V \***, Porkodi I. Shear bond strength evaluation of resin composite bonded to GIC using self etching bonding agents with different Ph – in vitro study. *J Conserv Dent.* 2012 Jan – Marc 15(1):182-6.
17. **Nagendrababu V \***, Emmanuel S, Santosh GK, Kandaswamy D. Comparison of the canal centring ability of K3, Liberator and EZ Fill Safesiders by using spiral computed tomography. *Aust Endod J.* 2012 Aug;38(2):55-9.
18. Pradeep M, **Nagendrababu V**, Emmanuel S, Kandaswamy D. Efficacy of F file compared to ultrasonic techniques using scanning electron microscopy. *Newyork state Dental Journal* 2012 Aug-Sep;78(5):54-7.
19. Eswar K, **Nagendrababu V**, Rajeswari K, Kandaswamy D. Dentinal tubule disinfection with 2% chlorhexidine, garlic extract, and calcium hydroxide against *Enterococcus faecalis* by using real-time polymerase chain reaction: In vitro study. *J Conserv Dent.* 2013 May;16(3):194-8
20. Ganesh A, **Nagendrababu V**, John A, Deenadhayalan G, Kandaswamy D. Fracture resistance of endodontically treated teeth and retreated teeth by using spiral CT. *J Conserv Dent.* 2014 Jan;17(1):61-4
21. Sofi Beaula W, Gowri M, Panda JJ, Rajeswari K, **Nagendrababu V**, Mohanapriya CD, Kandaswamy D, Cauhan VS, Ganesh V. Antimicrobial Activity of cationic peptides in endodontic procedures. *European Journal of Dentistry*, Vol 8 / Issue 2 / Apr-Jun 2014, 254-260.
22. **Nagendrababu V**, Meiyazhagan Gowri, Subramanian Balakumar, Chandrasekar Ashokraja, Deivanayagam kandaswamy, and Venkatraman Ganesh. Disinfection of Dentinal Tubules with Silver Nanoparticles and 2% Chlorhexidine Against *Enterococcus faecalis*. *Journal of Bionanoscience*, Volume 9, Number 1, February 2015, 63-67.
23. Arathi. G, **Nagendrababu V**, Deepthi. Jayaleelashri. J, Saranya V, Kandaswamy. D. In-vitro antimicrobial efficacy of aqueous extract of Areca nut against *Enterococcus faecalis*. *Indian Journal of Research in Pharmacy and Biotechnology* 2015 March-April 3(2), 147-150.
24. Meiyazhagan G, Raju R, Winfred SB, Mannivanan B, Bhoopalan H, Shankar V, Sekar S, Venkatachalam DP, Pitani R, **Nagendrababu V**, Thaiman M, Devivanayagam K, Jayaraman J, Ragavachary R, Venkatraman G. Bioactivity Studies of  $\beta$ -Lactam Derived Polycyclic Fused Pyrroli-Dine/Pyrrolizidine Derivatives in Dentistry: In Vitro, In Vivo and In Silico Studies. *PLoS One.* 2015 Jul 17;10(7):e0131433.
25. Ganesh A, **Nagendrababu V**, John A, Deivanayagam K. The Effect of Addition of an EPS Degrading Enzyme with and without Detergent to 2% Chlorhexidine on Disruption of *Enterococcus faecalis* Biofilm: A Confocal Laser Scanning Microscopic Study. *J Clin Diagn Res.* 2015 Nov;9 (11):ZC61-5.

26. Anand S, Rajan M, **Nagendrababu V**, Kandaswamy D, Shrivya Y, Rajeswari K. Evaluation of the Antibacterial Efficacy of Azadirachta Indica, Commiphora Myrrha, Glycyrrhiza Glabra Against Enterococcus Faecalis using Real Time PCR. Open Dent J. 2016 May 11;10:160-5.
27. **Nagendrababu V \***, Suresh Anand, Mohan Abarajithan, Sultan Omer Sheriff, Pulikkotil Shaju Jacob, Nath Sonia. Natural Therapeutic Options in Endodontics– A Review. Open Dent J. 2016 May 11;10:214-26
28. **Nagendrababu V\***, Gutmann JL. Factors associated with postobturation pain following single-visit nonsurgical root canal treatment: A systematic review. Quintessence Int. 2017;48(3):193-208.
29. **Nagendrababu V\***, Meiyazhagan G, Beaula WS, Kalaiselvam R, Subramanian B, Chandrasekar A, Lakshmikanthanbharathi L, Kandaswamy D, Venkatraman G. Comparison of the Antibacterial Efficacy of Silver Nanoparticles with Chlorhexidine against Enterococcus faecalis Biofilm—An In Vitro Study. Journal of Nanoscience and Nanotechnology 2017, 17(7), 4613–4617.
30. Varadan P, Ganesh A, Konindala R, **Nagendrababu V**, Ashok R, Deivanayagam K. Comparison of the Antibacterial Efficacy of Alexidine and Chlorhexidine Against Enterococcus Faecalis: An in Vitro Study. Cureus 2017; 9(10): e1805. doi:10.7759/cureus.1805
31. **Nagendrababu V\***, Sultan OS, Kannathasan S, Patel AS, Chitra E, Neelakantan P, Davamani F. Root canal irrigants influence the hydrophobicity and adherence of Staphylococcus epidermidis to root canal dentin: an in vitro study. Restor Dent Endod. 2018;43:e1.
32. **Nagendrababu V\***, Jayaraman J, Suresh A, Kalyanasundaram S, Neelakantan P. Effectiveness of Ultrasonically Activated Irrigation on Root Canal Disinfection: A Systematic Review of in Vitro Studies. Clin Oral Investig. 2018 Mar;22(2):655-670.
33. SJ Pulikkotil, **V Nagendrababu**, SK Veetil, P Jinatongthai, FC Setzer. Effect of oral premedication on the anaesthetic efficacy of inferior alveolar nerve block in patients with irreversible pulpitis– A systematic review and network meta-analysis of randomized controlled trials. Int Endod J. 2018 Sep;51(9):989-1004.
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35. **Nagendrababu V**, Pulikkotil SJ, Veetil SK, Teerawattanapong N, Setzer FC. Effect of NSAID as an oral premedication on the anesthetic success of Inferior Alveolar Nerve Block in treatment of irreversible pulpitis: A systematic review with meta-analysis and trial sequential analysis. J Endod 2018 Jun;44(6):914-922.



36. Jayaraman J, **Nagendrababu V**, Pulikkotil SJ, Innes NP. Critical appraisal of methodological quality of Systematic Reviews and Meta-analysis in Paediatric Dentistry journals. *Int J Paediatr Dent*. 2018 Nov;28(6):548-560
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38. Ramar N, Sheriff OS, Pulikkotil SJ, **Nagendrababu V**, Neelakantan P, Amalraj FD. Effect of root canal debridement on inflammatory cytokine levels. *Aust Endod J*. 2018 Sep 19.
39. **V Nagendrababu\***, SJ Pulikkotil, OS Sultan, J Jayaraman, JA Soh, PMH Dummer. Effectiveness of technology-enhanced learning in Endodontic education: a systematic review and meta-analysis. *Int Endod J* 2019 Feb;52(2):181-192..
40. **Nagendrababu V\***, BS Chong, P McCabe, PK Shah, E Priya, J Jayaraman, SJ Pulikkotil, PMH Dummer. Guidelines for reporting the quality of clinical case reports in Endodontics: a development protocol. *Int Endod J*. 2019 Jun;52(6):775-778.
41. **Nagendrababu V\***, Pulikkotil SJ, Suresh A, Veettil SK, Bhatia S, Setzer FC. Efficacy of local anaesthetic solutions on the success of inferior alveolar nerve block in patients with irreversible pulpitis - a systematic review and network meta-analysis of randomized clinical trials. *Int Endod J*. 2019 Jun;52(6):779-789.
42. **V Nagendrababu\***, HF Duncan, L Bjørndal, T Kvist, E Priya, SJ Pulikkotil, J Jayaraman, PMH Dummer. Preferred Reporting Items for RAndomized Trials in Endodontics (PRIRATE) guidelines: a development protocol. *Int Endod J*. 2019 Jul;52(7):974-978.
43. **V Nagendrababu\***, Pulikkotil SJ, Jinatongthai P, Veettil SK, Teerawattanapong N, Gutmann JL. Efficacy and safety of oral premedication on pain following non-surgical root canal treatment – A systematic review and network meta-analysis of randomized controlled trials. *J Endod*. 2019 Apr;45(4):364-371.
44. **Nagendrababu V\***, Ahmed HMA. Shaping properties and outcomes of nickel titanium rotary and reciprocation systems using micro-computed tomography – A systematic review. *Quint Int* 2019;50(3):186-195.
45. Decurcio DA, Rossi-Fedele G, Estrela C, Pulikkotil SJ, **Nagendrababu V**. Machine-assisted irrigant agitation techniques reduce postoperative pain following root canal treatment: a systematic review and meta-analysis from randomized clinical trials. *J Endod*. 2019 Apr;45(4):387-393.
46. Pulikkotil SJ, Jayaraman J, **Nagendrababu V**. Quality of abstract of systematic reviews and meta-analyses in paediatric dentistry journals. *Eur Arch Paediatr Dent*. 2019 Mar 18. doi: 10.1007/s40368-019-00432-w.

47. **Nagendrababu V\***, Duncan HF, Tsesis I, Sathorn C, Pulikkotil SJ, Dharmarajan L, Dummer PMH. PRISMA for abstracts: best practice for reporting abstracts of systematic reviews in Endodontology. *Int Endod J.* 2019 Mar 19;1096-1107.
48. **Nagendrababu V\***, Murray PE, Ordinola-Zapata R, Peters OA, Rôças IN, Siqueira JF Jr, Dummer PMH. Improving the design, execution, reporting and clinical translation of laboratory-based studies in Endodontology. *Int Endod J.* 2019 Aug;52(8):1089
49. **Nagendrababu V\***, Murray PE, Ordinola-Zapata R, Peters OA, Rôças IN, Siqueira JF Jr, Priya E, Jayaraman J, Pulikkotil SJ, Dummer P. A protocol for developing reporting guidelines for laboratory studies in Endodontology *Int Endod J.* 2019 Aug;52(8):1090-1095.
50. Decurcio DA, Lim E, Chaves GS, **Nagendrababu V**, Estrela C, Rossi-Fedele G. Pre-clinical endodontic education outcomes between artificial versus extracted natural teeth: a systematic review. *Int Endod J.* 2019 Aug;52(8):1153-1161
51. **Nagendrababu V**, Murray PE, Kishen A, Nekoofar MH, de Figueiredo JAP, Dummer PMH. Animal testing: a re-evaluation of what it means to Endodontology. *Int Endod J.* 2019 Sep;52(9):1253-1254.
52. **Nagendrababu V\***, Kishen A, Murray PE, Nekoofar MH, de Figueiredo J, Priya E, Jayaraman J, Pulikkotil SJ, Dummer PMH. Preferred Reporting Items for Animal studies in Endodontics (PRIASE): a development protocol. *Int Endod J.* 2019 Sep;52(9):1290-1296.
53. Decurcio DA, Lim E, **Nagendrababu V**, Estrela C, Rossi-Fedele G. Difficulty levels of extracted human teeth used for pre-clinical training in endodontics in an Australian dental school. *Aust Endod J.* 2019 Jul 2.
54. Ooi HY, Tee WY, Davamani F, **Nagendrababu V\***. Comparing the antimicrobial efficacy of pediocin with chlorhexidine and calcium hydroxide as intracanal medicaments against persistent root canal infections. *J Conserv Dent.* 2019 May-Jun;22(3):241-244.
55. Jayaraman J, Dhar V, Donly KJ, Priya E, Innes NP, Clarkson J, Raggio DP, Childers N, Wright T, King N, **Nagendrababu V**, Clarke M. Reporting standards for research in Pediatric Dentistry (RAPID): a development protocol. *Int J Paediatr Dent.* 2020 Jan;30(1):96-103.
56. Ordinola-Zapata R, Peters O, **Nagendrababu V**, Azevedo B, Dummer P, Neelakantan P. What is of interest in Endodontology? A bibliometric review of research published in the International Endodontic Journal and the Journal of Endodontics from 1980 to 2019. *Int Endod J.* 2019 Aug 27.
57. **Nagendrababu V\***, Duncan HF, Whitworth J, Nekoofar MH, Pulikkotil SJ, Veetil SK, Dummer P. Comparing the anaesthetic efficacy of articaine with lidocaine in patients with irreversible pulpitis: An umbrella review. *Int Endod J.* 2020 Feb;53(2):200-213.

58. **Nagendrababu V\***, Dilokthornsakul P, Jinatongthai P, Veettil SK, Pulikkotil SJ, Duncan HF, Dummer PMH. Glossary for systematic reviews and meta-analyses. *Int Endod J.* 2020 Feb;53(2):232-249.
59. **Nagendrababu V\***, Aly Ahmed HM, Pulikkotil SJ, Veettil SK, Dharmarajan L, Setzer FC. Anesthetic Efficacy of Gow-Gates, Vazirani-Akinosi, and Mental Incisive Nerve Blocks for Treatment of Symptomatic Irreversible Pulpitis: A Systematic Review and Meta-analysis with Trial Sequential Analysis. *J Endod.* 2019 Oct;45(10):1175-1183.
60. Nguyen D, **Nagendrababu V**, Pulikkotil SJ, Rossi-Fedele G. Effect of occlusal reduction on postendodontic pain: A systematic review and meta-analysis of randomised clinical trials. *Aust Endod J.* 2019 Oct 22. doi: 10.1111/aej.12380. [Epub ahead of print]
61. **Nagendrababu V\***, Segura-Egea JJ, Fouad AF, Pulikkotil SJ, Dummer P. Association between diabetes and the outcome of root canal treatment in adults: An umbrella review. *Int Endod J.* 2020 Apr;53(4):455-466.
62. Jayaraman J, **Nagendrababu V**, Pulikkotil SJ, Veettil SK, Dhar V. Effectiveness of formocresol and ferric sulfate as pulpotomy material in primary molars: a systematic review and meta-analysis with trial sequential analysis of randomized clinical trials. *Quintessence Int.* 2020;51(1):38-48.
63. Keong JY, Low LW, Chong JM, Ong YY, Pulikkotil SJ, Singh G, **Nagendrababu V**, Banavar SR, Khoo SP. Effect of lipopolysaccharide on cell proliferation and vascular endothelial growth factor secretion of periodontal ligament stem cells. *The Saudi Dental Journal.* 2020 Mar;32(3):148-154.
64. Rossi-Fedele G, Kahler B, **Nagendrababu V**. Limited Evidence Suggests Benefits of Single Visit Revascularization Endodontic Procedures - A Systematic Review. *Braz. Dent. J.* 2019, Nov/Dec 30 (6), 527-35.
65. Ahmed HMA, Adura Z, Azami NH, Farook M, Khan AA, Noor NSM, Ayoub AA, Imran ZA, Halim MS, Pai AR, Kacharaju K, Mohammad N, **Nagendrababu V**, Nabhan MS, Dummer PMH. Application of a new system for classifying root canal morphology in undergraduate teaching and clinical practice: A national survey in Malaysia. *Int Endod J.* 2020 Jan 31. doi: 10.1111/iej.13271.
66. **Nagendrababu V\***, Chong BS, McCabe P, Shah PK, Priya E, Jayaraman J, Pulikkotil SJ, Setzer FC, Sunde PT, Dummer P. PRICE 2020 Guidelines for reporting case reports in Endodontics: A consensus-based development. *Int Endod J.* 2020 May;53(5):619-626.
67. **Nagendrababu V**, Duncan HF, Dummer PMH. Research that matters: systematic reviews and meta-analyses. *Int Endod J.* 2020 Apr;53(4):437-439.
68. **Nagendrababu V**, Kishen A, Chong BS, Priya E, Duncan HF, Rôças IN, Jayaraman J, de Figueiredo JAP, Siqueira JF Jr, Bjørndal L, Nekoofar MH, Peters OA, McCabe P, Murray PE, Shah PK, Ordinola-Zapata R, Pulikkotil SJ, Kvist T, Dummer PMH. Preferred Reporting Items

for Study Designs in Endodontology (PRIDE): Guiding Authors to Identify and Correct Reporting Deficiencies in Their Manuscripts Prior to Peer Review. *Int Endod J* 2020 May 53 (5), 589-590.

69. **Nagendrababu V\***, Duncan HF, Bjørndal L, Kvist T, Priya E, Jayaraman J, Pulikkotil SJ, Pigg M, Rechenberg DK, Vaeth M, Dummer P. PRIRATE 2020 guidelines for reporting randomized trials in Endodontics: a consensus-based development. *Int Endod J*. 2020 Mar 20.

70. **Nagendrababu V\***, Chong BS, McCabe P, Shah PK, Priya E, Jayaraman J, Pulikkotil SJ, Dummer P. PRICE 2020 Guidelines for reporting case reports in Endodontics: Explanation and elaboration. *Int Endod J*. 2020 Mar 28.

71. **Nagendrababu V\***, Duncan HF, Bjørndal L, Kvist T, Priya E, Jayaraman J, Pulikkotil SJ, Dummer P. PRIRATE 2020 guidelines for reporting randomized trials in Endodontics: Explanation and Elaboration. *Int Endod J*. 2020 Apr 8.

72. Plotino G, **Nagendrababu V**, Bukiet F, Grande NM, Veetil SK, De-Deus G, Aly Ahmed HM. Influence of Negotiation, Glide Path, and Preflaring Procedures on Root Canal Shaping-Terminology, Basic Concepts, and a Systematic Review. *J Endod*. 2020 Apr 22.

73. **Nagendrababu V\***, Duncan HF, Fouad AF, Kirkevang LL, Parashos P, Pigg M, Vaeth M, Jayaraman J, Dummer P. Preferred Reporting items for OBServational studies in Endodontics (PROBE): a development protocol. *Int Endod J*. 2020 May 4.

#### 4.2. Chapter in Text book

E Kandaswamy, **V Nagendrababu**, K Deivanayagam. Antimicrobial effect of nanoparticles in Endodontics. In: Alexandru Mihai Grumezescu, ed. *Nanobiomaterials in dentistry*, Elsevier Inc, 2016, 161-187.

#### 4.3. Grants

Sl. No	Principal investigator /Co Investigator	Title of project	Funding agency	Quantum of funds
1	Co- Investigator	Assessment for preclinical utility of peptide nanostructure in endodontic procedures.	DBT – RGYI	9,30,000.00 INR

2	Principal Investigator	An investigation on the antibacterial efficacy of nanoparticulates for root canal disinfection – An invitro study.	SRMC-Young Faculty Research Grant	65,000.00 INR
3	Co-Investigator	Dentinal tubule disinfection with 2% chlorhexidine, garlic extract, and calcium hydroxide against Enterococcus faecalis by using real-time polymerase chain reaction: In vitro study.	Chancellor Summer Research Fellowship for UGs	10,000 INR
4	Co-investigator	Immunolocalisation of TIMP1 and TIMP2 in root canal treated Dentin – An In vitro Study	Chancellor Summer Research Fellowship for UGs	10,000 INR
5	Co-Investigator	Evaluatuon of matrix metalloproteinase 1 (mmp-1) and tissue inhibitor of metalloproteinase 1 (timp-1) in root dentin before and after root canal cleaning and shaping procedures	Chancellor Summer Research Fellowship for UG	10,000 INR
6	Principal Investigator	Effect of NaOCl, EDTA and Chlorohexidine irrigants on hydrophobicity and adherence of Fusobacterium nucleatum to root dentin – An In Vitro study	IMU Grant	20,000 RM
7	Co-Investigator	Efficacy of nanographene as an antimicrobial agent against enterococcus faecalis and candida albicans in root canal treatment: An ex-vivo study	IMU Grant	10,000 RM
8	Principal Investigator	Comparison of antimicrobial efficacy of bacteriocins peptides, chlorhexidine and calcium hydroxide as intracanal medicament against root canal infections.	IMU Grant	6,000 RM
9	Co-Investigator	Effect of lipopolysaccharides on proliferation and secretion of vascular endothelial growth factor from periodontal stem cells.	IMU Grant	12,000 RM

10	Principal Investigator	Evaluation of the methodological tools used in assessing the quality of studies included in systematic review and meta-analysis in endodontology journals.	IMU Grant	7000 RM
11	Co-Investigator	Micro-computed Tomography Assessment of canal centering ability, transportation and Dentinal Microcrack Formation after different instrumentation techniques: An invitro Study	IMU Grant	19,500 RM
12	Principal Investigator	Antimicrobial efficacy of calcium hydroxide gold nanoparticles suspension against Enterococcus faecalis and Candida albicans.	IMU Grant	6000 RM
13	Co-Investigator	Mechanical and spectroscopic analysis of wave gold file, twisted adaptive file, XP-endo shaper after root canal instrumentation.	IMU Grant	16,500 RM
14	Co-Investigator	Comparing two education methods (technology enhanced learning and traditional) on learning for developing research proposal among undergraduate dental students.	IMU Grant	7000 RM
15	Principal Investigator	Efficacy of silane-based antimicrobial in Endodontic infections.	IMU Grant	12000 RM
16	Co-Investigator	Root canal biofilm analysis: a quaternary ammonium silane (QAS) based intracanal medicament	IMU Grant BDS I-01/2019 (11)	9000 RM
17	Co-Investigator	Cone beam computed tomographic assessment of the C-shape mandibular first and second molars along Malaysian Chinese population	IMU Grant BDS I-01/2019 (05)	6000 RM
18	Co-Investigator	Comparison of apical extrusion of intracanal bacteria and dentinal crack formation among various glide systems: An in vitro	IMU Grant BDS I-01/2019 (17)	6000 RM

#### 4.4. Editorial board and Reviewer panel- journals

Editorial board member – International Endodontic Journal

Reviewer panel - International Endodontic Journal, Journal of Evidence Based Dental Practice, Australian Endodontic Journal, European Endodontic Journal, Endodontology, Journal of Conservative Dentistry and Open Dentistry Journal.

#### 4.5. Awards and Recognitions

- 1) Second Best Paper Award for title "Evaluation of the pulp chamber size of human mandibular first molars in Indian population. - an in vitro study" - 25<sup>th</sup> Tamilnadu state dental conference at Erode, Tamilnadu, 1<sup>st</sup> & 2<sup>nd</sup> December 2007.
  
- 2) Best paper award for “An In Vitro Study to Assess the Setting and Surface Crazing of Conventional Glass Ionomer Cement when Layered over Partially Set Mineral Trioxide Aggregate” – Indian Society of Dental Research at Chennai, Tamilnadu, 15<sup>th</sup> & 16<sup>th</sup> November in 2008.
  
- 3) “Young Achiever award” for dedication and academic contribution in the field of Conservative dentistry and Endodontics from Conservative Dentistry and Endodontics Association of Tamilnadu (CEAT) in 2016.
  
- 4) Editor’s choice article of the Issue: Jayaraman J, **Nagendrababu V**, Pulikkotil SJ, Innes NP. Critical appraisal of methodological quality of Systematic Reviews and Meta-analysis in Paediatric Dentistry journals. Int J Paediatr Dent. 2018 Aug 1. <https://doi.org/10.1111/ipd.12438>.
  
- 5) “Young investigator award – Research & Publication (Individual category)” in 2019 from International Medical University.
  
- 6) “Decurcio DA, Rossi-Fedele G, Estrela C, Pulikkotil SJ, **Nagendrababu V**. Machine-assisted Agitation Reduces Postoperative Pain during Root Canal Treatment: A

Systematic Review and Meta-analysis from Randomized Clinical Trials. J Endod. 2019 Apr;45(4):387-393” has been selected as an Honorable Mention in the Journal of Endodontics Awards - 2020.

#### 4.6. PhD co-supervisor.

PhD Co-supervisor for Dr Omer, title: Antimicrobial Efficacy, Mechanism of Action and Biocompatibility of  $\alpha$ -Mangostin Nanoemulsion as an Endodontic Irrigant, registered in International Medical University, Malaysia. (Start date: 2018)

### **5. Teaching and learning**

My undergraduate and postgraduate teaching experience would be 10 years and 6 years respectively.

#### 5.1. Undergraduate training

I have been selected as faculty in charge for the dental materials module (1<sup>st</sup> BDS). I have to schedule the theory class pertaining their curriculum, select appropriate faculty members to deliver the lectures, preparing the timetable their lecture and preclinical classes, periodical monitoring their progress, mentoring the slow learners. Preclinical for 2<sup>nd</sup> yr BDS – I need to schedule the theory class pertaining their curriculum, select appropriate faculty members to deliver the lectures and demonstration, exam coordinator to conduct their final exams. I used to give the demonstration in typhodont/ natural teeth, Video demonstrations to improve the hand skills, small group discussion. III, IV and intern students: One-to-one teaching for students who require assisted teaching and updating their knowledge by conducting quiz program.

#### Teaching and learning method

In clinics, I used to help students in chairside, one to one teaching to the students at the end of each patient, small group discussion with students at the end of the clinical session, encourage students to deliver their knowledge in the way of seminars. Clinical



demonstrations- to orient the students in day to day management and in patient management. To provide learning objectives and minimum content for my theory classes and delivering in the story based to make the students understand. At the end of the class, assess the student by asking the question.

#### Research experience

I use to encourage and motivate the undergraduate students to apply for the internal grant and to present paper/poster in national/international conferences. Explaining the importance of publication to students and achieved PubMed indexed publication with the undergraduate student (Eswar K, **Venkateshbabu N**, Rajeswari K, Kandaswamy D. Dentinal tubule disinfection with 2% chlorhexidine, garlic extract, and calcium hydroxide against *Enterococcus faecalis* by using real-time polymerase chain reaction: In vitro study. J Conserv Dent. 2013 May;16(3):194-8.)

#### 5.2. Postgraduate training

Journal discussion: I have been selected as faculty in charge for journal discussion for postgraduates. I need to select the appropriate journal for the PG students to discuss. I have created the evaluation sheet for their discussion which has to be signed by two evaluators. At the end of every year it will be reviewed and end of every session the evaluation sheet has to be discussed with the head of the department.

Seminar discussion: I need to attend the seminar which will be delivered by postgraduate students and need to give my comments and assess their presentation.

Research: Encourage the students to present paper/poster in the national and international conference, published few articles with PGs in PubMed indexed journal (Kandaswamy D, N Venkateshbabu, Gogulnath D, Kindo AJ. Dentinal tubule disinfection with 2% Chlorhexidine gel, propolis, *Morinda citrifolia* juice, 2% povidone-iodine, and calcium hydroxide. International Endodontic Journal, 2010 May;43(5):419-23, Kandaswamy D,

Venkatesh Babu N, Arathi G, Roohi R, Anand S: Effect of various final irrigants on the shear bond strength of sealers to dentin. Journal of Conservative Dentistry 2011 Jan;14(1):40-2).

Chairside demonstration and discussion with students in clinical. At the end of every step/patient, discussion with the students to overcome their mistakes which they underwent in that particular procedure.

Guiding them in their library dissertation and thesis dissertation.

### 5.3. Guest Lectures- 37

- 1) CDE programme on post & core systems for general practitioners – “Dasavatharam in post space preparation” held on 14<sup>th</sup> August 2008.
- 2) CDE programme on posterior composites – A sensitive issue for general practitioners – “Bond with the best – Material aspects” held on 25<sup>th</sup> September 2008.
- 3) “Composite step by step procedure” – Preconference course, state IDA madurai, 26<sup>th</sup> December 2008.
- 4) “My Untold story in cavity preparation” – IDA branch dindigul held on 15<sup>th</sup> march 2009.
- 5) “Compo-sit” - IDA branch dindigul held on 15<sup>th</sup> March 2009.
- 6) “Endodontics” – IDA branch Kumbakonam held on 10<sup>th</sup> May 2009.
- 7) Diagnosis in Endodontics – Dentsply academy held on 13<sup>th</sup> September at Coimbatore.
- 8) Cleaning and Shaping – Dentsply academy held on 13<sup>th</sup> September at Coimbatore.
- 9) “Endodontics” – Chittoor IDA branch held on 22<sup>nd</sup> November 2009 at tirupathi.
- 10) Rotary endodontics – Finish line, feb 2010 at Sri Ramachandra dental college, Chennai.
- 11) Proposal writing – Finish line, Feb 2010 at Sri Ramachandra dental college, Chennai.
- 12) Trouble shooting in endodontics – IDC Chennai, 12<sup>th</sup> to 14<sup>th</sup> February 2010 at Chennai.
- 13) Endo perio relationship – Meenakshi Ammal dental college, Chennai, 31, 1<sup>st</sup> October 2010.

- 14) Post and core – 24<sup>th</sup> National conference of Indian society for dental research held at Madurai on 14<sup>th</sup> to 16<sup>th</sup> October 2011.
- 15) MI: III – Tamilnadu state dental conference held at yercard on 18<sup>th</sup> to 20<sup>th</sup> November 2011.
- 16) Single Visit Vs Multiple visit Endodontics: Debate – Tamilnadu state dental conference held at yercard on 18<sup>th</sup> to 20<sup>th</sup> Nov 2011.
- 17) Revascularization Vs Regeneration – Zonal CDE program, held at Khammam on 26<sup>th</sup> November 2011.
- 18) Exam Fever – All India UG convention, held at Chennai on 2<sup>nd</sup> to 4<sup>th</sup> December 2011.
- 19) Revascularization Vs Regeneration - Finish line, Jan 2012 at Sri Ramachandra dental college, Chennai.
- 20) Burs – Sri Ramachandra University, held at Chennai on 20 and 21 February 2012
- 21) Get set go – Sri Ramachandra University held at Chennai on 20 and 21 February 2012.
- 22) My Untold story-Tiruvannamalai IDA branch on 26<sup>th</sup> August 2012.
- 23) Just for laughs – Karaikal IDA branch on 30<sup>th</sup> September 2012
- 24) Trouble shooting – Chittoor IDA branch on 7<sup>th</sup> October 2012
- 25) Rotary Endodontics – Zonal CDE program for PG'S Kurnool branch on 18<sup>th</sup> October 2012.
- 26) Nanodontics – Endoclub in SRM kattangulathur, on 2<sup>nd</sup> November 2012.
- 27) Composites making more beautiful - Thirivalluar IDA branch on 4<sup>th</sup> November 2012.
- 28) Frozen Thoughts – Thaimoogambigai dental college on 21<sup>st</sup> Decmberu 2012.
- 29) Root canal Irrigants - Finish line, January 2013 at Sri Ramachandra dental college, Chennai.
- 30) Rotary Endodontics – Zonal CDE program for NTR university PG'S Vijayawada branch on 7<sup>th</sup> November 2013.
- 31) Disinfection of Dentinal tubules - Finish line, January 2013 at Sri Ramachandra dental college, Chennai.
- 32) Endodontic hand instrument – for UGs, SRM Kattangulathur dental college April 2014.
- 33) Instrumentation Vs Irrigation – which is important? – IDA tanjore branch, Kumbakonam June 2014.

- 34) Secret of success in endodontics – Chennai IDA branch, Hotel Savera, Chennai, July 2014.
- 35) Endodontic Biofilm - Finish line, January 2015 at Sri Ramachandra dental college, Chennai.
- 36) Disinfection of Dentinal tubules - Finish line, January 2017 at Sri Ramachandra dental college, Chennai.
- 37) Conventional and advanced methods - disinfection of Dentinal tubules - Finish line, March 2020 at Sri Ramachandra dental college, Chennai.

#### 5.4. Hands – on

- 1) “COMPOSITES” - Preconference course, State IDA Madurai, 26<sup>th</sup> December 2008.
- 2) “POST AND CORE” - Held in Sri Ramachandra Dental College, Chennai in January for practitioners.
- 3) “ENDODONTICS” (CLEANING AND SHAPING – PROTAPER ROTARY SYSTEM) - Dentsply academy held on 13-9-09 at Coimbatore.
- 4) “ENDODONTICS” (CLEANING AND SHAPING – PROTAPER HAND SYSTEM) – Chittoor IDA branch held on 22<sup>nd</sup> Nov 2009 at tirupathi.
- 5) Post and core – 24<sup>th</sup> National conference of Indian society for dental research held at Madurai on 14<sup>th</sup> to 16<sup>th</sup> October 2011. Preconference course
- 6) Systematic review and Meta-analysis workshop at IMU, Kuala Lumpur, Malaysia.
- 7) Systematic review and Meta-analysis workshop at SRU, Chennai, India for post graduates on 7<sup>th</sup> March 2020.

#### **6. Administrative/Leadership responsibilities**

Head, Dental Skill center, School of Dentistry, International Medical university.

Module coordinator - Restorative Dentistry Module, School of Dentistry, IMU.

Head, Systematic review cluster, School of Dentistry, IMU

My administrative role includes:

- Managing the timely and orderly delivery of the module.
- Draft examination questions and assist in the vetting process.
- Prepare and update the study guide containing relevant information.
- Ensure availability of all teaching and learning materials.
- Monitor students' performance and improving the content of the module.
- Ensure smooth running of selective and restorative module.
- Curriculum development and assessment

### **7. Organizing skills**

S No	Convention/Conference	Position held
1	Finish line – Rapid Review for post graduates in 2012, India	Joint Organizing Secretary
2	Finish line – Rapid Review for post graduates in 2013, India	Joint Organizing Secretary
3	National UG student Convention in 2012, India	Scientific Co convenor
4	Indian Association of Conservative Dentistry and Endodontics – Post Graduate Convention in June 2014, India	Scientific Co chairman
5	"Bio Esthetic and Function in Harmony" 2017 in IMU, Malaysia	Organizing chairman

### **8. Clinical experience**

Totally have clinical experience more than 11 years. More interested and trained in performing endodontic treatment under microscope. I have developed special interest in the following:

Management of tooth with unusual anatomy

Instrument retrieval

Retreatment

Management of preformation