



DR. MS MUTHU

HEAD

Centre for Early Childhood Caries Research (CECCRe),
Department of Pediatric and Preventive Dentistry,
Sri Ramachandra Faculty of Dental Sciences,
Sri Ramachandra Institute of Higher Education and Research,
Porur, Chennai,
India - 600116

ADJUNCT RESEARCH ASSOCIATE

Centre of Medical and Bio-Allied Health Sciences Research,
Ajman University,
United Arab Emirates

OTHER ROLES

General Secretary - Indian Society of Dental Traumatology
Joint Secretary - Indian Society of Pedodontics and Preventive Dentistry
Founder Director - Pedo Planet Health Care Pvt Ltd
Chair - Global Task Force on "Cleft Without Caries"
Executive Committee Member - Indian Society of Cleft lip, Palate and Craniofacial Anomalies

MAJOR ACHIEVEMENTS

Research Grants

S.No	Funding Agency - Type	Year	Name of the funding agency/ Scheme	Area of research	Collaborating Institution	Amount of Grant
1	Extramural National	2017	BIRAC - Bio Technology Industry Research Assistance Council	Development of Wipes/ Infant Table	University Innovation Cluster - Anna University	12 lakhs (16000 USD)
2	Extramural International	2018	Wellcome Trust - DBT India Alliance	Early Childhood Caries	SRIHER	102 lakhs (136000 USD)
3	Intramural	2018	SRIHER	Early Childhood Caries	SRIHER	0.69 lakhs (920 USD)
4	Extramural National	2019	MHRD - SPARC - Scheme for Promotion of Academic and Research Collaboration	Eye tracking Technology	University of Western Australia, Perth	49 lakhs (65333 USD)
5	Extramural	2019	ICMR - Indian Council of Medical Research	Travel Grant	NA	1.35 lakhs (1800 USD)
6	Extramural	2020	ICMR - Indian Council of Medical Research	Early Childhood Caries - Systematic Review	Dr MGR Medical University	9.92 lakhs (13226 USD)
7	Extramural	2020	Smile Train	Systematic Review	FDI/ Smile Train	2.56 lakhs (3600 USD)
8	Extramural	2020	BIRAC - BioNest	Setting up a Bio-Incubator at the University	NA	449.72 lakhs (599626 USD)

Books and Classifications

Authored two books for Reed Elsevier India Pvt Ltd
Classification Multiple Choice Questions In Pediatric Dentistry - 2011 (2nd Edition)
Principles and Practice - Pediatric Dentistry - 2011 (2nd Edition) (3rd Edition in progress)
Proposed new classification called "OXIS classification of Interproximal contacts of primary molars. *Pediatr Dent* 2020; 42 (3): 197-202.
iModified the existing "Talon Cusp's Classification". *Pediatr Dent* 2005; 27(4) :303-6.
Formulated a new classification for "Dens Evaginatus". *J Dent Child* 2011; 78:71-75.

Chapters

For 'Differential Diagnosis in Pediatrics by Indian Academy of Pediatrics
1.Traumatic Injuries to teeth 2. Dental Emergencies 3. Early Childhood Caries/ Dental Caries 4. Gingival hypertrophy and discoloration of teeth

CONTACT

Email: muthumurugan@sriramachandra.edu.in
Ph - 91-9444045094,
91-44-24765512, Ext 8294

ORCID ID: 0000-0002-5847-9662
SCOPUS ID: 9747082200
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Publications (As of May 2021)

Web of Science - 20; PubMed - 65; Systematic Reviews 10 (Cochrane 3, Non Cochrane - 7)

Position

National/ University/ External University Nominee - National Innovation and Start-Up Policy (NISP) - Since Aug 2020
Member - Research Development and Monitoring Board - Since 2019 - Sri Ramachandra Institute of Higher Education and Research
Founder Member and General Secretary - Since 2017 - Indian Society of Dental Traumatology
Joint Secretary - Since 2018 - Indian Society of Pedodontics and Preventive Dentistry
Executive Committee Member - Since 2018 - Indian Society of Cleft lip, palate and Craniofacial Anomalies
Chair - Since 2018 - Global Task Force on "Cleft Without Caries"
Publication Oversight Committee - Sri Ramachandra University, Chennai.
Member - 2018 till date - Academic Council and Research Development and Monitoring Board - Sri Ramachandra University, Chennai.
Member - 2014 till date - Research and Innovation Council - MS Ramaiah University of Applied Sciences
Founder Director (Since 2004) - Pedo Planet Health Care Pvt Ltd - India's First Network of Pediatric Dental Centres
Co-Founder (Since 2016) - Ignobilis Terrain LLP

Awards

National/ University/ External
American Academy of Pediatric Dentistry 2020 American Academy of Pediatric Dentistry's Paul P Taylor Award for the best publication of 2020 - First Indian to receive this award
Sri Ramachandra Institute of Higher Education and Research Dr. Lakshmanan - Gold Medal for the High Impact factor Publication from the Faculty of Dental Sciences - for the year 2015, 2017 and 2018
Famdent Awards - Selected as the "Outstanding Dentist of the Year - 2016"

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Summer Institute University of Washington, Seattle

Finished the Summer Institute on "Dental Clinical Research Methods" at University of Washington, Seattle, USA - June 2007 to August 2007.

Cochrane Collaboration (Cochrane Oral Health Group)
Systematic Review Completed - 3
Systematic Review in progress - 1

Membership of the Royal College of Physicians and Surgeons (Glasgow)

PhD conferred with the Membership of the Faculty of Dental Sciences of the Royal College of Physicians and Surgeons of Glasgow (MFDSRCPS - Glasgow) - In Dec 2016

Doctorate of Philosophy (Ph.D.)

Meenakshi University - Oct 2005 to Nov 2010 - Fourth Pediatric Dentist in the Country to have doctorate degree.

Areas of Interest

Primary Areas of Research

Early Childhood Caries, Dental Traumatology, Dental Education and Teaching Methodologies

Presentations Lectures/Invited talks/Oral Presentations International -

FDI - New Delhi (2004), IAPD - Hong Kong (2007), IADR - Toronto, Canada (2008), IAPD - Munich, Germany (2009), SDA - Sri Lanka (2012), IAPD - Seoul (2013), Pedia Expert Opinion Meet - Nepal (2014), IAPD - Glasgow (2015), SriLanka (2016), IAPD, Chile (2017), PDAA Beijing, China (2018), IAPD, Mexico (2019), UWA, Perth, Australia (2019), Zurich (2019).

National & International - Oral Presentations - 12

Invited talks/ Guest Lectures - 180 (as of August 2020).

International - 15 (SriLanka, Nepal, South Korea, Beijing, Australia, Zurich), Webinars - 20.

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Executive Committee Member - Indian Society of Cleft lip, Palate and Craniofacial Anomalies

Life Memberships

Indian Society of Dental Research (Since 2004)
Indian Society of Pedodontics and Preventive Dentistry (Since 2005)
Indian Dental Association (Since 2006)
Indian Association of Forensic Odontology (Since 2009)
Indian Academy of Aesthetic and Cosmetic Dentistry (Since 2008)
Indian Society of Cleft lip, palate and Craniofacial Anomalies (Since 2012)

Annual Memberships

International Association of Pediatric Dentistry (Since 2006)
International Association of Dental Research (2008, 2009, & Since 2014)
International Association of Dental Traumatology (Since 2016)
American Academy of Pediatric Dentistry (Since 2018)
Guideline International Network (Since 2021)
European Organization for Caries Research (ORCA) (Since 2020)

Professional Experience

Professor & Head - Since Sep 2012; Centre for Early Childhood Caries Research (CECCRe - Since 2018) Dept of Pediatric Dentistry, Faculty of Dental Sciences, SRIHER, Chennai, Tamil Nadu
Professor & Head - Since July 2010 - Aug 2012 - Dept of Pediatric Dentistry, Saveetha Dental College, Chennai, Tamilnadu
Professor - Nov 2007 - June 2010 - Dept of Pediatric Dentistry, Meenakshi Ammal Dental College, Chennai, Tamilnadu
Associate Prof - Nov 2005 - Oct 2007 - Dept of Pediatric Dentistry, Meenakshi Ammal Dental College, Chennai, Tamilnadu
Reader - Mar 2004 - Oct 2005 - Dept of Pediatric Dentistry, Meenakshi Ammal Dental College, Chennai, Tamilnadu
Reader - Nov 2002 - Feb 2004 - Dept of Pediatric Dentistry, Oxford Dental College, Bangalore, Karnataka
Asst Professor - Nov 1999 - Oct 2002 - Dept of Pediatric Dentistry, Sri Ramachandra Dental College, Chennai, Tamilnadu

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Education

MFDS RCPS - July 2016 - Royal College of Physicians and Surgeons of Glasgow
PhD - Oct 2005 - Nov 2010 - Meenakshi Academy of Higher Education & Research
MDS (Pediatric Dentistry) - June 1997 - Oct 1999 - Nair Hospital Dental College, Mumbai, Mumbai University
BDS - Oct 1990 - Nov 1995 - Tamilnadu Govt Dental College & Hospital, Chennai, Tamilnadu, Dr.MGR Medical University

Publications (Last 10 years - Since 2010)

- I. Publications related to Early Childhood Caries (ECC) and Primary teeth
 - a) Original Research
 - 1.Mohan Anusha, Muthu MS*, Ramachandran P, Ramanan PV, Haridoss S, Swaminathan K, Natesh S. Impact of Pediatric Dentistry Residents Posted in Pediatrics Departemnt: Retrospective Assessment of 6 years.
 - 2.Kirthiga M, Kayalvizhi G, Mathur VP. OXIS Classification of Interproximal Contacts of Primary Molars and Its Prevalence in Three-to Four-Year-Olds. *Pediatr Dent.* 2020;42(3):197-202. PMID: 32
 - 3.Bhavyaa R, Sujitha P, Muthu MS, Kirthiga M. Prevalence of Cusp of Carabelli and its caries susceptibility - an ambidirectional cohort study. *Aust Dent J.* 2020 ;65(4):294-301. doi: 10.1111/adj.12795. Epub 2020 Oct 15. PMID: 32975841.
 3. Muthu MS*, Ganesh A, Padmanabhan R, Nuvvula S, Mohanraj R. Development and validation of a scale to assess Feeding at Sleep Time (FeAST) among infants and toddlers. *Community Dent Oral Epidemiol.* 2020(6):471-479. doi: 10.1111/cdoe.12558. Epub 2020 Jul 16. PMID: 32673445.
 4. Kirthiga M, Muthu MS, Lee JJC, Kayalvizhi G, Mathur VP, Song JS, Shin K, Praveen R. Prevalence and correlation of OXIS contacts using Cone Beam Computed Tomography (CBCT) images and photographs. *Int J Paediatr Dent.* 2021 Jul;31(4):520-527. doi: 10.1111/ipd.12687. Epub 2020 Jul 20. PMID: 32621346.5
 5. Vignesh KC, Kandaswamy E, Muthu MS. A comparative evaluation of fracture toughness of composite resin vs Protemp 4 for use in Strip crowns: An In Vitro Study. *Int J Clin Paediatr Dent.* 2020; 13 (1): 57-60. doi: 10.5005/jp-journals-10005-1711. PMID: 32581481
 6. Muthu MS*, Kirthiga M, Kayalvizhi G, Mathur VP. OXIS classification of Interproximal Contacts of Primary molars and Its Prevalence in Three to Four-Year-Olds. *Paediatr Dent.* 2020; 15; 42 (3): 197-202. PMID: 32522322

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7. Muthu MS*, Saikia A, Aishwarya HJ, Balamurugan A. Surface-specific Correlation Between Extrinsic Stains and Early Childhood Caries. *Oral Health Prev Dent.* 2019 Mar 14;1-.. doi: 10.3290/j.ohpd.a42205. [Epub ahead of print] PubMed PMID: 30874254.
8. Kirthiga M, Muthu MS*, Kayalvizhi G, Krithika C. Proposed classification for interproximal contacts of primary molars using CBCT: a pilot study. Version 2. *Wellcome Open Res.* 2018 Sep 27 [revised 2018 Jan 1];3:98. doi: .12688/wellcomeopenres.14713.2. eCollection 2018. PubMed PMID: 30345384; PubMed Central PMCID: PMC6171554.
9. Henry JA, Muthu MS*, Saikia A, Asaithambi B, Swaminathan K. Prevalence and pattern of early childhood caries in a rural South Indian population evaluated by ICDAS with suggestions for enhancement of ICDAS software tool. *Int J Paediatr Dent.* 2017 May;27(3):191-200. doi: 10.1111/ipd.12251. Epub 2016 Jul 20. PMID: 2743834.
10. Niviethitha S, Muthu MS*, Kavitha S. In Vitro Assessment of Enamel Permeability in Primary Teeth with and without Early Childhood Caries Using Laser Scanning Confocal Microscope. *J Clin Pediatr Dent.* 2016;40(3):215-20. doi: 10.17796/1053-4628-40.3.215. PubMed PMID: 27472569.
11. Das B, Muthu MS*, Farzan JM. Comparison of the chemical composition of normal enamel from exfoliated primary teeth and teeth affected with early childhood caries: an in vitro study. *Int J Paediatr Dent.* 2016 Jan;26(1):20-5. doi: 10.1111/ipd.12153. Epub 2015 Jan 21. PubMed PMID: 25604081.
12. Narrenthran JS*, Muthu MS, Renugalakshmi A. In vivo scanning electron microscope assessment of enamel permeability in primary teeth with and without early childhood caries. *Caries Res.* 2015;49(3):209-15. doi: 10.1159/000367602. Epub 2015 Feb 7. PubMed PMID: 25677114.
13. Mahesh R* , Muthu MS, Rodrigues SJ. Risk factors for early childhood caries: a case-control study. *Eur Arch Paediatr Dent.* 2013 Oct;14(5):331-7. doi:10.1007/s40368-013-0089-5. Epub 2013 Sep 27. PubMed PMID: 24072424.
14. Muthu MS*, Farzan JM, Prathibha KM. A new and simple infant assessment table. *Indian J Dent Res.* 2013 Jul-Aug;24(4):515-7. doi: 10.4103/0970-9290.118380. PubMed PMID: 24047850.
15. Meera R*, Shieh J, Muthu MS. In vivo evaluation of the color of anterior primary teeth. *J Dent Child (Chic).* 2011 Sep-Dec;78(3):154-8. PubMed PMID: 22126928.

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16. Koora K, Sriram CH, Muthu MS, Chandrasekhar Rao, Sivakumar N. Morphological characteristics of primary dentition in children of Chennai and Hyderabad. *J Indian Soc Pedod Prev Dent.* 2010 Apr-Jun;28(2):60-7. doi: 10.4103/0970-4388.66736. PMID: 20660969

b) Systematic Reviews (Cochrane and Non Cochrane)

1. Riggs E, Kilpatrick N, Slack-Smith L, Chadwick B, Yelland J, Muthu MS*, Gomersall JC. Interventions with pregnant women, new mothers and other primary caregivers for preventing early childhood caries. *Cochrane Database Syst Rev.* 2019 Nov 20;2019(11). doi: 10.1002/14651858.CD012155.pub2. PubMed PMID: 31745970; PubMed Central PMCID: PMC6864402.
2. Kirthiga M, Murugan M*, Saikia A, Kirubakaran R. Risk Factors for Early Childhood Caries: A Systematic Review and Meta-Analysis of Case Control and Cohort Studies. *Pediatr Dent.* 2019 Mar 15;41(2):95-112. PubMed PMID: 30992106.
3. Akila Ganesh, Muthu MS*, Mohan A, Kirubakaran R. Prevalence of Early Childhood Caries in India - A Systematic Review. *Indian J Pediatr.* 2018 Oct 3. doi: 10.1007/s12098-018-2793-y. [Epub ahead of print]
4. Henry JA, Muthu MS*, Swaminathan K, Kirubakaran R. Do Oral Health Educational Programmes for Expectant Mothers Prevent Early Childhood Caries? - Systematic Review. *Oral Health Prev Dent.* 2017;15(3):215-221. doi: 10.3290/j.ohpd.a38522. Review. PubMed PMID: 28674702.
5. Muthu MS*, Ankita S, Renugalakshmi A, Richard K. Impact of Pharmacological Interventions in Expectant Mothers Resulting in Altered Mutans Streptococci Levels in their Children. *Pediatr Dent.* 2015 Sep-Oct;37(5):422-8. Review. PubMed PMID: 26531084.
6. Aarathi J*, Muthu MS, Sujatha S. Cariogenic potential of milk and infant formulas: a systematic review. *Eur Arch Paediatr Dent.* 2013 Oct;14(5):289-300. doi: 10.1007/s40368-013-0088-6. Epub 2013 Oct 9. Review. PubMed PMID: 24105652.

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I. Publications on topics other than ECC

a) Original Research

1. Mohan A, Agarwal T, Cherian TS, Muthu MS*, Balasubramanian S, Subbalekshmi N, Saikia A, Goswami M, Sharma A, Subramanian P, Johar S, Bazaz N. Diagnostic ability of a smart phone app (injured tooth) in diagnosing traumatic injuries to the teeth - a multicentre analysis. *Int J Paediatr Dent*. 2018 Jul 11. doi: 10.1111/ipd.12411.
2. Pramila R*, Muthu MS, Deepa G, Farzan JM, Rodrigues SJ. Pulpectomies in primary mandibular molars: a comparison of outcomes using three root filling materials. *Int Endod J*. 2016 May;49(5):413-21. doi: 10.1111/iej.12478. Epub 2015 Jul 4. PubMed PMID: 26059708.
3. Priya M*, Muthu MS, Amarlal D, Thomas E. Continuous assessment of undergraduate students at a dental college in India. *J Dent Educ*. 2012 Apr;76(4):501-8. PubMed PMID: 22473563.
4. Asokan S*, Muthu MS, Sivakumar N. Oral findings of Down syndrome children in Chennai city, India. *Indian J Dent Res*. 2008 Jul-Sep;19(3):230-5. PubMed PMID: 18797100.
5. Asokan S*, Rathan J, Muthu MS, Rathna PV, Emmadi P; Raghuraman; Chamundeswari. Effect of oil pulling on Streptococcus mutans count in plaque and saliva using Dentocult SM Strip mutans test: a randomized, controlled, triple-blind study. *J Indian Soc Pedod Prev Dent*. 2008 Mar;26(1):12-7. PubMed PMID: 18408265.
6. Asokan S, Muthu MS*, Sivakumar N. Dental caries prevalence and treatment needs of Down syndrome children in Chennai, India. *Indian J Dent Res*. 2008 Jul-Sep;19(3):224-9. PubMed PMID: 18797099.
7. Jeevarathan J*, Deepthi A, Muthu MS*, Rathna Prabhu V, Chamundeswari GS. Effect of fluoride varnish on Streptococcus mutans counts in plaque of caries-free children using Dentocult SM strip mutans test: a randomized controlled triple blind study. *J Indian Soc Pedod Prev Dent*. 2007 Oct-Dec;25(4):157-63. PubMed PMID: 18007100.
8. Amarlal D*, Rayen R, Muthu MS. Macroabrasion in pediatric dentistry. *J Clin Pediatr Dent*. 2006 Fall;31(1):9-13. PubMed PMID: 17091649.
9. Nirmal L, Muthu MS, Prasad M. Use of Puzzles as an Effective Teaching-Learning Method for Dental Undergraduates. *Int J Clin Pediatr Dent*. 2020 Nov-Dec;13(6):606-610. doi: 10.5005/jp-journals-10005-1834. PMID: 33976483; PMCID: PMC8060935.

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b) Systematic Reviews (Cochrane and Non Cochrane)

1. Saikia A, Muthu MS*, Orenuga OO, Mossey P, Ousehal L, Yan S, Campodonico M, England R, Taylor S, Sheeran P. Systematic Review of Clinical Practice Guidelines for Oral Health in Children With Cleft Lip and Palate. *Cleft Palate Craniofac J.* 2021 Jun 23;10556656211025189. doi: 10.1177/10556656211025189. Epub ahead of print. PMID: 34159833.
2. Kumbargere Nagraj S*, Prashanti E, Aggarwal H, Lingappa A, Muthu MS, Kiran Kumar Krishanappa S, Hassan H. Interventions for treating post-extraction bleeding. *Cochrane Database Syst Rev.* 2018 Mar 4;3:CD011930. doi: 10.1002/14651858.CD011930.pub3. Review. PubMed PMID: 29502332.
3. Sumanth KN*, Prashanti E, Aggarwal H, Kumar P, Lingappa A, Muthu MS, Kiran Kumar Krishanappa S. Interventions for treating post-extraction bleeding. *Cochrane Database Syst Rev.* 2016 Jun 10; (6):CD011930. doi: 10.1002/14651858.CD011930.pub2. Review. Update in: *Cochrane Database Syst Rev.* 2018 Mar 04;3:CD011930. PubMed PMID: 27285450.
4. Das B, Muthu MS*. Surgical extrusion as a treatment option for crown-root fracture in permanent anterior teeth: a systematic review. *Dent Traumatol.* 2013 Dec;29(6):423-31. doi: 10.1111/edt.12054. Epub 2013 Jun 26. Review. PubMed PMID: 23802693.
5. Pramila R, Muthu M*. Regeneration potential of pulp-dentin complex: Systematic review. *J Conserv Dent.* 2012 Apr;15(2):97-103. doi: 10.4103/0972-0707.94571. PubMed PMID: 22557803; PubMed Central PMCID: PMC3339021.

c.) Narrative Review

1. Khanna R, Lele G, Anandakrishna L, Deshpande A, Mathur VP, Muthu MS*, Nirmal L, Saha S, Jayakumar P, Marwah N. Development of a Competency-Based Curriculum for undergraduate education in Pediatric Dentistry: A systematic approach. *Med J Armed Forces India.* 2021 Feb;77(Suppl 1):S22-S30. doi: 10.1016/j.mjafi.2020.11.008. Epub 2021 Feb 2. PMID: 33612928; PMCID: PMC7873700.
2. Chen J, Duangthip D, Gao SS, Huang F, Anthonappa R, Oliveira BH, Turton B, Durward C, El Tantawi M, Attia D, Heima M, Muthu MS, Maharani DA, Folayan MO, Phantumvanit P, Sitthisettapong T, Innes N, Crystal YO, Ramos-Gomez F, Medina AC, Lo ECM and Chu CH. Oral Health Policies to Tackle the Burden of Early Childhood Caries: A Review of 14 Countries/Regions. *Front. Oral. Health* 2:670154. doi: 10.3389/froh.2021.670154

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Department of Pediatric and Preventive Dentistry,
Sri Ramachandra Faculty of Dental Sciences,
Sri Ramachandra Institute of Higher Education and Research,
Porur, Chennai,
India - 600116

ADJUNCT RESEARCH ASSOCIATE

Centre of Medical and Bio-Allied Health Sciences Research,
Ajman University,
United Arab Emirates

OTHER ROLES

General Secretary - Indian Society of Dental Traumatology
Joint Secretary - Indian Society of Pedodontics and Preventive Dentistry
Founder Director - Pedo Planet Health Care Pvt Ltd
Chair - Global Task Force on "Cleft Without Caries"
Executive Committee Member - Indian Society of Cleft lip, Palate and Craniofacial Anomalies

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CONTACT

Email: muthumurugan@sriramachandra.edu.in
Ph - 91-9444045094,
91-44-24765512, Ext 8294

ORCID ID: 0000-0002-5847-9662
SCOPUS ID: 9747082200
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DR. MS MUTHU

HEAD

Centre for Early Childhood Caries Research (CECCRe),
Department of Pediatric and Preventive Dentistry,
Sri Ramachandra Faculty of Dental Sciences,
Sri Ramachandra Institute of Higher Education and Research,
Porur, Chennai,
India - 600116

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e.) Letter to the Editor

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Referrals

Dr EM Naidu - Former Vice Chancellor, Meenakshi University, Chennai.
Dr.N.Sivakumar, Professor & Head, Dept of Pediatric Dentistry, Narayana Dental College, Nellore, Andhra Pradesh.
Dr.D.Kandaswamy, Former Dean, Professor & Head, Dept of Conservative Dentistry and Endodontics, Sri Ramachandra Dental College, Sri Ramachandra University, Porur, Chennai, Tamilnadu
Dr.Vijay Prakash Mathur, Professor and Head, Dept of Pediatric Dentistry, Centre for Dental Education and Research, All India Institute of Medical Sciences, New Delhi.
Dr.Steven Rodrigues, Professor & Head, Dept of Pediatric Dentistry, Government Dental College, Goa.

CONTACT

Email: muthumurugan@sriramachandra.edu.in
Ph - 91-9444045094,
91-44-24765512, Ext 8294

ORCID ID: 0000-0002-5847-9662
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