



JSS
ACADEMY
OF HIGHER
EDUCATION
& RESEARCH
MYSURU
(DEEMED TO BE UNIVERSITY)

Special Interest Group



On

Dental Cariology

An Initiative
of

Research Division

JSS AHER, Mysuru-15.



Team Lead
Dr. B Nandlal

Professor, Dept of Pedodontics
& Preventive Dentistry,
JSS DCH

NOTIFICATION

Sub: Reconstitution of Special Interest Group in "Dental Cariology".
Ref: JSS AHER earlier Notification No. REG/ACA/SIG/225/2016-17 dated 30.05.2016.

Special Interest Group (SIG) – "Dental Cariology"

In exercise of powers conferred under Section 50 (xxii) and 12 [xi (a)] of the MoA/Rules of JSS Academy of Higher Education & Research as per UGC Regulations 2016, the Special Interest Group (SIG) in the area of "Dental Cariology" has been reconstituted for focusing on basic and applied research in the area of Dental Cariology with the following members:

Sl.No.	Name of the member	Remarks
1	Dr.B. Nandlal Professor & Head Dept. of Paedodontics & Preventive Dentistry JSS Dental College & Hospital.	Group Leader
2	Dr. M. N Sumana Professor Dept. of Microbiology JSS Medical College.	Member
3	Dr. Paras Mull J Reader Dept. of Conservative Dentistry and Endodontics JSS Dental College & Hospital.	Member
4	Dr. Raghavendra Shanbhog Reader, Dept. of Paedodontics and Preventive Dentistry JSS Dental College & Hospital.	Member
5	Dr. Prathibha S Reader Dept. of Periodontology JSS Dental College & Hospital.	Member
6	Dr. Balasubramanian S Director (Research) JSS AHER.	Ex- Officio Member

The SIG "Dental Cariology" shall function for a period of three years from the date of Notification.

The SIG shall submit their report once in six months to the JSS AHER. The budget for the functioning shall be submitted by the Group leader of the SIG and approval shall be obtained from the JSS AHER for carrying out their various activities.

Guidelines for the formation of Special Interest Groups:

Objective: To promote research in specific area by a group of individuals working in the constituent colleges of the JSS AHER, who are desirous of promoting research in a specific area through

- Continuous dialogue
- Conducting Group meetings
- Submitting research projects
- Development of new ideas in research in the identified area and translating the same into research proposals to external funding agencies and research publications in indexed journals.
- Translating research findings into the clinical applications
- Organizing seminars related to objectives of the Group.

The SIG should categorize their objectives as short term and long-term objectives and while submitting the progress reports, highlight their achievements under the same.

Structure: The SIG shall consist of 5-7 members with a group leader. They shall meet periodically and submit the report annually of the group activities and achievements.

The Special Interest Group shall function for a period of 3 years from the date of notification, which can be extended further, based on the outcomes and reviewed by the Board of Management of the JSSAHER.

Budget: The budget required for functioning of the SIG shall be allocated from Research and Development fund of the JSS AHER based on the budget prepared and submitted by them annually.

The budget shall be provided for following aspects.

- Meeting expenses of the Group.
- Short travels within India for the purpose of group objectives.
- Secretarial assistance as required by the Group.
- Preparation of research project proposals/reports.

The JSS AHER shall provide in its budget for the expenditure proposed by the Special Interest Group and make the funds available to the respective group.

Evaluation of outcomes: The JSS AHER shall evaluate the SIG periodically in respect to their group objective examining the follows.

- Progress in the proposed research projects.
- Publication of research findings in periodicals and presentations
- Reports.


REGISTRAR

To,

All the above members,

Copy to:

1. The Pro Chancellor, JSS AHER.
2. The Vice Chancellor, JSS AHER.
3. The Controller of Examinations, JSS AHER.
4. The Director (Academics), JSS AHER.
5. The Director (Research), JSS AHER.
6. The Dy. Registrar (Senior Grade), JSS AHER.
7. The Dy. Director (Academics), JSS AHER.
8. The Dy. Director (Authorities), JSS AHER.
9. The Associate Director (Research), JSS AHER.
10. The IQAC Coordinator, JSS AHER.
11. The Asst. Director (Academics), JSS AHER.
12. The Asst. Director (Research), JSS AHER.
13. The Principal, JSS Medical College.
14. The Principal, JSS Dental College & Hospital.
15. The Principal, JSS College of Pharmacy, Mysuru.
16. The Principal, JSS College of Pharmacy, Ooty.
17. The Head, Dept. of Water & Health (FLS), JSS AHER.
18. The Coordinator, Dept. of Health System Management Studies, JSS AHER.
19. Office Copy.

Name of the SIG:Dental Cariology

Approval Reference: Ref No. REG/ACA/SIG/225/2010
– 11/2447 dt. 09/03/2011)

Name of the Team Leader: Dr.B Nandlal

Members

Sl. No.	Name of the members	Role
1.	Dr.B Nandlal Professor, Dept of Pedodontics & Preventive Dentistry, JSS DCH	Team Lead
2.	Dr.M N Sumana Member Professor & Head Dept of Microbiology, JSS Medical College, Mysuru JSS MCH	Member
3.	Dr Paras Mull Gehlot. Reader, Department of Conservative Dentistry and Endodontics JSS Dental College and Hospital. JSS Academy of Higher Education and Research. Mysore,Karnataka, India	Member
4.	Dr RaghavendraShanbhog Reader, Department of Pedodontics and Preventive Dentistry JSS Dental College and Hospital. JSS Academy of Higher Education and Research. Mysore, Karnataka, India	Member

5.	<p>Dr PratibaShashikumar Reader, Department of Periodontics JSS Dental College and Hospital. JSS Academy of Higher Education and Research. Mysore. Karnataka. India</p>	<p>Member Secretary</p>
6.	<p>Dr Subba V Madhunapantula. Professor, Dept of Biochemistry JSS Medical College. JSS Academy of Higher Education and Research. Mysore. Karnataka. India</p>	<p>Member Secretary</p>
7.	<p>Dr Asha Srinivasan Assistant Professor ,Division of Nano science & Technology, Faculty of Life Sciences, JSS Academy of Higher Education and Research. Mysore. Karnataka. India</p>	<p>Member Secretary</p>
8.	<p>Dr K Gowthamarajan Professor & Head, Department of Pharmaceutics, JSS college of Pharmacy JSS Academy of Higher Education and Research. Mysore. Karnataka, India</p>	<p>Member Secretary</p>
9.	<p>Dr Kaushik Mukherjee University of Minnesota, School of Dentistry</p>	<p>Internal Member</p>



Dr B Nandlal
Professor & Head
Department of Pedodontics
& Preventive Dentistry
JSSDCH, JSSAHER



**Dr Raghavendra
Shanbhog**
Reader
Department of
Pedodontics &
Preventive Dentistry
JSSDCH, JSSAHER



Dr Paras Mull Gehlot
Reader
Department of
Conservative Dentistry &
Endodontics
JSSDCH, JSSAHER



Dr Pratibha Shashikumar
Reader
Department of Periodontics
JSS Dental College
JSS Academy of Higher
Education and Research
Mysore. Karnataka. India



Dr Subba V Madhunapantula
Professor, Dept of
Biochemistry
JSS Medical College.
JSS Academy of Higher
Education and Research.
Mysore. Karnataka. India



Dr Balasubramaniam
Director Research
JSS Academy of Higher
Education & Research
Ex-Officio Member ,SIG
Dental Cariology



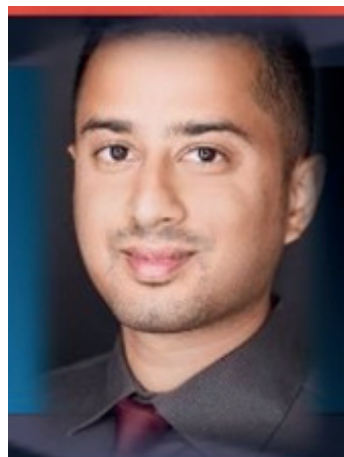
Dr K Gowthamarajan
Professor & Head,
Department of
Pharmaceutics,
JSS college of Pharmacy
JSS Academy of Higher
Education and Research.
Mysore. Karnataka, India



**Dr Subba V
Madhunapantula.**
Professor, Dept of
Biochemistry
JSS Medical College.
JSS Academy of Higher
Education and Research.
Mysore. Karnataka. India



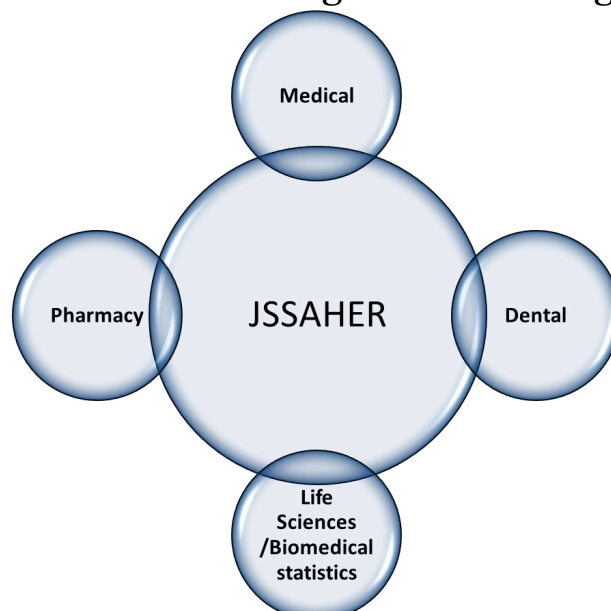
Dr Asha Srinivasan
Assistant Professor
,Division of Nano science
& Technology, Faculty of
Life Sciences,
JSS Academy of Higher
Education and Research.
Mysore. Karnataka.
India



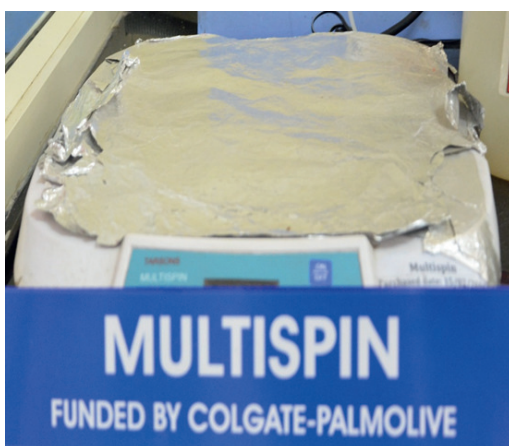
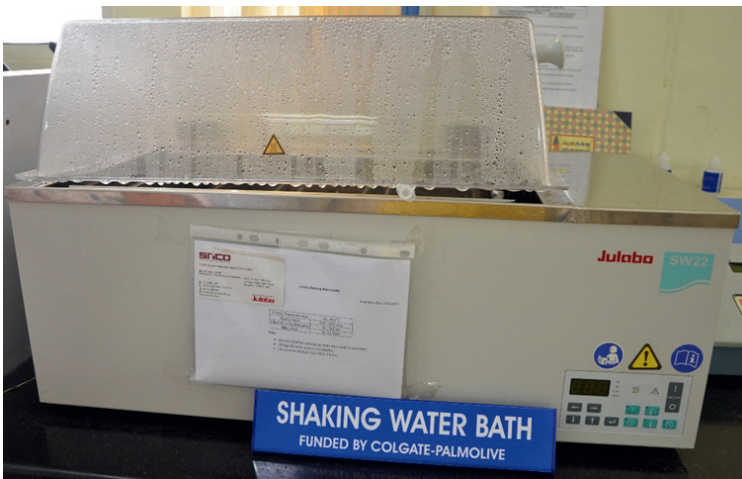
Dr Kaushik Mukherjee
University of Minnesota,
School of Dentistry

Objectives

- Assimilation of knowledge on foundations & dynamics of dental cariology
- Evidence based approach to understanding the pathophysiology and occurrence of dental caries
- Developing patient centered innovative novel techniques of prevention and interception of the carious process along with the thorough evaluation of the hitherto known techniques.
- Dental plaque related research including the immunologic basis of cariology
- Develop natural products that can, at a affordable cost, provide every person the basic protection against dental caries as well as assure good level of oral hygiene.
- Application of regenerative biology in dental cariology.
- Developing and evaluating non invasive diagnostic tools.
- To organize upgradation programs to keep in par with the recent advancements related to dental cariology
- To collaborate with other similar organization to meet the cause of excellence in research relating dental cariology







Manpower to manager and promote the consultancy services

DST	ICMR	Pharma
2 SRF 2015 -2018	1 2017-2019 1 2023-2024	Biochemist Clinical trainee 2 2015-2018 2 2023-2024

Activities Conducted



15 JULY
At 2 PM

International Webinar on
Pathways to CarioInnova
SIG Dental Cariology, JSS Dental College & Hospital

Dr Elbert de Josselin de Jong
Dr Kaushik Mukherjee
Dr Prem Sreenivasan
Dr Stefanie Russell

[REGISTER NOW](#)



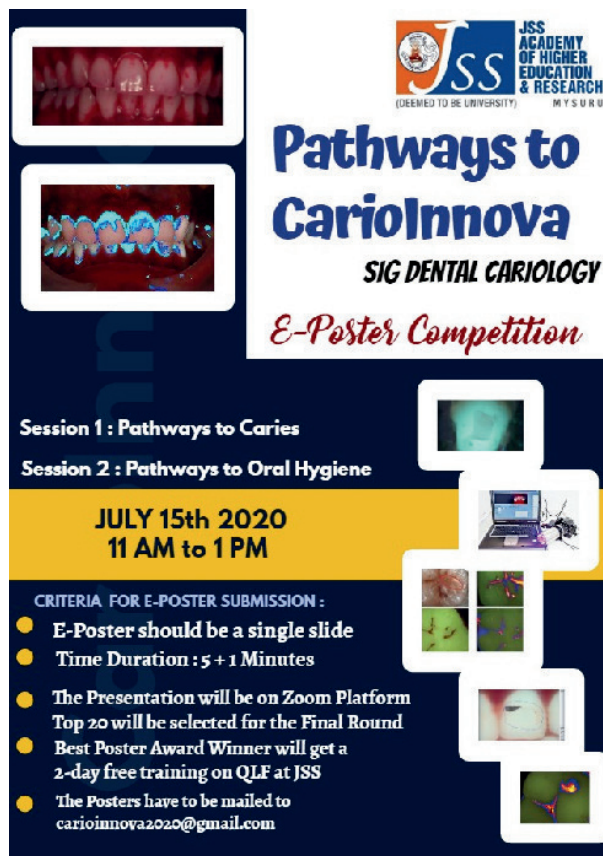
JSS DENTAL COLLEGE & HOSPITAL
SIG DENTAL CARIOLOGY

Dr Elbert de Josselin de Jong
QLF Inspektor
Netherlands
"AI in Dental Imaging"

Dr Kaushik Mukherjee
Research Assistant
University of Minnesota, School of Dentistry
"Enamel Biomineralization & Biomimetics"

Dr Prem Sreenivasan
Adjunct Faculty
Rutgers University
"Pathways of Research in Oral Hygiene"

Dr Stefanie Russell
Associate Professor
Department of Epidemiology & Health Promotion
NYU College of Dentistry
"Pathways to Oral Hygiene in Pregnancy"



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Pathways to CarioInnova
SIG DENTAL CARIOLOGY
E-Poster Competition

Session 1 : Pathways to Caries
Session 2 : Pathways to Oral Hygiene

JULY 15th 2020
11 AM to 1 PM

CRITERIA FOR E-POSTER SUBMISSION :

- E-Poster should be a single slide
- Time Duration : 5 + 1 Minutes
- The Presentation will be on Zoom Platform
- Top 20 will be selected for the Final Round
- Best Poster Award Winner will get a 2-day free training on QLF at JSS
- The Posters have to be mailed to carioinnova2020@gmail.com



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**JSS Dental College & Hospital
Special Interest Group - Dental Cariology**

**RESOURCE FACULTY
DR. NORMAN TINANOFF**
Professor
Dept. of Pediatric Dentistry
School of Dentistry
University of Maryland

WEBINAR ON
**Care Pathways for Caries Management in
Children : Global Perspective**

Dr. Dhakshaini M R
Principal
JSS Dental College & Hospital

Dr. Nandlal Bhojraj
Group Leader
SIG - Dental Cariology

Dr. Raghavendra Shanbhog
Program Co-ordinator &
Member
SIG - Dental Cariology

Dr. Paras Mull J
Program Moderator &
Member
SIG - Dental Cariology

Dr. Chanchala H P
Program Moderator &
Member
SIG - Dental Cariology

14th February 2023 **Tuesday** **5:00 PM IST**

International webinar

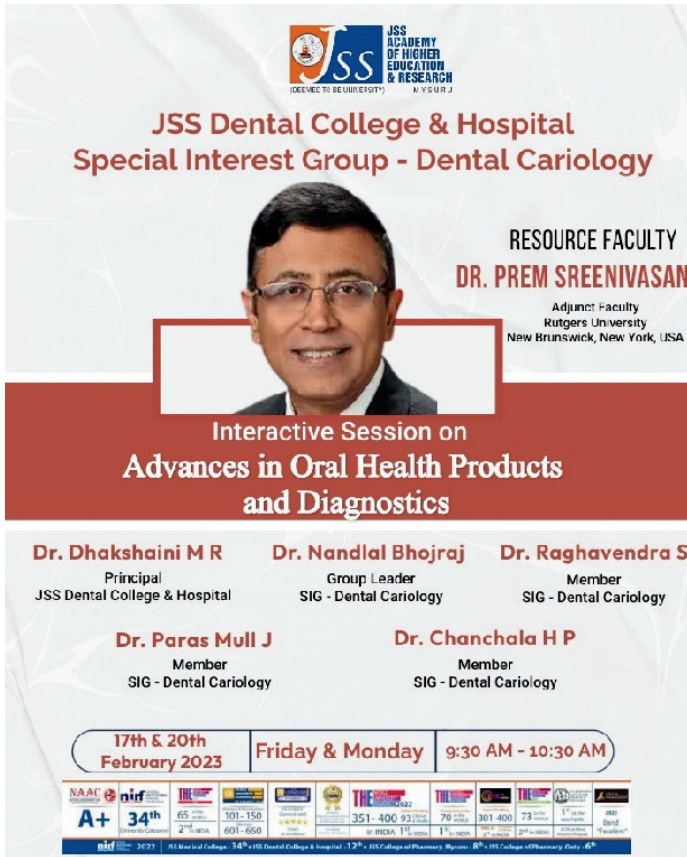
Dr. Norman Tinanoff
University of Maryland, USA
14 Feb 2023

He received his dental degree from the University of Maryland in 1971. After receiving his certificate and master's degree in pediatric dentistry at the University of Iowa, he spent another year at the V.A. Hospital in Iowa City in a research fellowship.

Dr. Tinanoff's two-year military service was at the Army Institute of Dental Research at Walter Reed Army Medical Center. For 23 years, he was at the University of Connecticut Health Center, where he was director of the Pediatric Dentistry Graduate Program for 16 years. In 1999, he became chairman of the Department of Pediatric Dentistry at the University of Maryland School of Dentistry.

Dr. Tinanoff has authored or co-authored over 160 publications, primarily on fluoride mechanisms, antimicrobials, caries risk factors, early childhood caries and prevention. His Recent books/monographs include: "The Oral Cavity" in Nelson Textbook of Pediatrics and "Use of Fluorides", in Early Childhood Oral Health. His current interests are concerned with preventing dental caries and oral health access for underserved child populations.

- The resource person was Dr. Norman Tinanoff , a renowned professor in the field of paediatric dentistry , School of Dentistry , University of Maryland.
- Dr. Norman touched upon the most important skills in assessment and treatment of a carious tooth and the patient as a whole. Professor explained various fundamental risk assessment protocols using evidence based studies , and emphasised the need for active surveillance and prompt treatment on the part of the caregiver and the dentist.
- He explained the categorisation of patients into low, medium and high risk and the corresponding follow-up protocols. Conferring upon materials and methods , he discussed the usage of fluoride varnishes, fluoridated toothpastes and other preventative measures in order to ensure a caries-free mouth according to the risk assessments with followup visits annually or 6 monthly or 3 monthly as the recommendation as per low risk to high risk cases .
- The session concluded with an interactive Question and Answer round. The students and staff alike were grateful to be a part of this webinar module and gained valuable insight into the recent advancement of treatment and follow-up protocols for management of dental caries .
- The take home message was the persistent need for early detection and regular check-ups , highlighting the quality of these services provided at JSS dental college and hospital.



JSS ACADEMY OF HIGHER EDUCATION & RESEARCH (DEEMED TO BE UNIVERSITY) MYSURU

**JSS Dental College & Hospital
Special Interest Group - Dental Cariology**

**RESOURCE FACULTY
DR. PREM SREENIVASAN**
Adjunct Faculty
Rutgers University
New Brunswick, New York, USA

**Interactive Session on
Advances in Oral Health Products
and Diagnostics**

Dr. Dhakshaini M R
Principal
JSS Dental College & Hospital

Dr. Nandlal Bhojraj
Group Leader
SIG - Dental Cariology

Dr. Raghavendra S
Member
SIG - Dental Cariology

Dr. Paras Mull J
Member
SIG - Dental Cariology

Dr. Chanchala H P
Member
SIG - Dental Cariology

**17th & 20th
February 2023** **Friday & Monday** **9:30 AM - 10:30 AM**

NAAC A+ 34th, NIF 65, 101-150, 601-650, 351-400, 93, 70, 301-400, 73, 200 Band, 2021

**Dr Prem Sreenivasan,
Professor, Rutgers
University, New York USA
an Adjunct Faculty to JSS
AHER. Formerly at Colgate
International, NJ, USA.**



- In the first session Dr Prem from this vast experiences in research with Colgate International ,NJ gave a talk to the post graduate students from various departments and enlightened them on the recent advances in the diagnostic technologies and revisited into the most often used medications and its significance in the systemic alterations in particular among those Hypertensive. He also emphasized on the proper protocol and regime to be used for the said medicaments.
- The second session a lecture was presented by Dr Prem on the advances in oral health products and diagnostics to the interns, it was more like an interactive session and an eye opener to the young professionals helping them to channelize to the right path in terms of oral health product prescription.
- On the 20.2.23 interactive session with research group members of the SIG –Dental Cariology was held. The opportunity was utilised by various faculties of the JSS Dental College and Dept of Life sciences to collaborate in writing joint scientific review papers and also submit research proposal on newer challenges on preventive oral care. Had one to one meetings with on future collaborative research outcomes.
- The session concluded with an interactive Question and Answer round. The students and staff alike were grateful to be a part of this session and gained valuable insight into the recent advancement of diagnostic technologies.



Resource Faculty

Dr. SubbaRao V. Madhunapantula
Guest lecture on Fundamentals of Cell Culture
10.3.23

- Dr. SubbaRao V. Madhunapantula received his Ph.D. in the year 2004 from University of Mysore for his work conducted in CSIR-CFTRI. Dr. SubbaRao did his post doctoral research from Penn State Hershey College of Medicine, Hershey, Pennsylvania, USA from 2002 till 2011. He has joined the department of Biochemistry in the year 2011 to setup a research laboratory in JSS Medical College. He has guided 9 students for their Ph.D. and 8 more are currently pursuing their research. To date, Dr. SubbaRao has published 150 articles and is involved as one of the co-inventors in 7 patents. His research papers have received close to 5000 citations. His H-index is 38 and i10 index is 74. Dr. SubbaRao is the recipient of (a) Career Development grant from Melanoma Research Foundation, USA., (b) Scholar-in-training Award from American Association of Cancer Research, USA., (c) Best-Guide Award from Project Council of India, Government of India; and (d) Best-Poster Award from Royal Society of Chemistry. In addition to these Dr. SubbaRao has received several in-house awards and recognitions for his contributions to various research activities in JSS AHER. Under his guidance many students have received best-poster and presentation awards in various national and international conferences. Dr. SubbaRao's research is currently focusing on developing pharmacological agents for the better treatment of breast and colorectal carcinomas. In addition, his team is also working on identifying potential factors that are responsible for cervical cancer pathogenesis.

Dr Subbarao spoke on the topic Fundamentals of Cell Culture- Culturing of cells is one of the most important steps in the discovery of drugs and elucidation of signaling mechanisms. Culturing cells without contamination requires expertise and in-depth knowledge of cells that are being cultured. Contaminated cultures, if not controlled properly, can cause potential problems not only to the effected ones but also to the entire laboratory cultures. Therefore, it is important that one must follow the stipulated protocol very strictly while handling cell lines in the laboratory. In this presentation, I will be covering aspects related to the fundamentals of cell cultures, the culturing procedures and most common contaminants and the protocols to avoid contaminations in the cultures.



Dr. Kimon Divaris

UNC
SCHOOL OF DENTISTRY
4TH APRIL 2023

Education

Certificate, Pediatric Dentistry, University of North Carolina at Chapel Hill, 2011 PhD, Epidemiology, University of North Carolina at Chapel Hill, 2011 Certificate, Global Health, University of North Carolina at Chapel Hill, 2011 DDS, National & Kapodistrian University of Athens School of Dentistry, 2005

Research Interests

Pediatric dentistry, dental caries, public health, genomics, inflammation, microbiome, behavioral sciences, dental education

Research Summary

Diverse research portfolio interrogating both proximal and distal determinants of oral health and disease, ranging from genomics of oral health traits and behavioral sciences to health disparities and dental education.

Currently NIH-funded research is supported by grants ZOE 2.0 study, “Genome-wide association study of early childhood caries” and Pediatric HIV/AIDS Cohort Study (PHACS); Dental Caries Outcomes. He highlighted in his talk on Genomics of periodontal Diseases and tooth morbidity



**QLF TM Fluorescent Imaging in Oral Diagnostics Monitor
what you see**



Faculty

Dr. Elbert de Josselin de Jong

Elbert de Josselin de Jong graduated in Physics in 1981. In 1986 he was awarded his PhD from the State University of Groningen, The Netherlands for his comparison of mineral quantification methods to assess the mineral content in tooth enamel and dentine with incipient caries lesions. In 1987 he was co-founder and became Director of the company Inspektor Research Systems in Amsterdam. In 2002 he co-founded the company Inspektor Dental Care which aimed at marketing and selling diagnostic products for use in the dental practice. He was appointed as an Honorary Research Fellow in Professor Higham's laboratories in the School of Dental Sciences at The University of Liverpool, UK in 2006. The first product sold by Inspektor Research Systems was Transverse Micro Radiography (TMR) which became a gold standard in the field of Caries Research. As chief research officer he invented and developed the method called Quantitative Light-Induced Fluorescence (QLFTM). QLFTM became the internationally recognised standard to assess incipient caries lesions in vivo. It also is a promising technique to assess the presence of bacterial activity on and in the oral tissues and many researchers are currently investigating these issues. In 2002 the Inspektor Pro device based on QLFTM technology was introduced for clinical use and sold world wide.



**DIRECT SYSTEM
PEDIATRIC CROWN**

edelweiss dentistry in collaboration with SIG Dental Cariology, JSS Dental College

LECTURE AND HANDS-ON WORKSHOP

SIG Dental Cariology, JSS Dental College and Hospital
Mysore, India

DATE: 17th of August 2023 from 09:00 am to 03:00 pm

Registration:
Phone: 91 821 2545349 | mobile: 9880567890
dr_nandla@yahoo.com



edelweiss
DENTISTRY

Full Coverage Crowns: Restorations for Deciduous and Permanent Teeth in the Developing Dentition

ABSTRACT

Over the years, many types of crowns have been developed and advanced to aid the clinician in rehabilitating deciduous teeth. This lecture and hands-on workshop discuss the various options that are available for full coverage restorations for the primary dentition.

The advantages and disadvantages of each approach will be discussed. This lecture goes through the procedures from Stainless Steel Pediatric crowns to Zirconia crowns to Laser Sintered Hybrid Glass crowns when restoring the deciduous tooth.

A step-by-step procedure that provides a simplistic approach when restoring the deciduous tooth will be taught through the use of minimally invasive aesthetic edelweiss PEDIATRIC CROWNS.

LECTURE LEARNING OUTCOMES

- Following the lecture, delegates will be able to understand the various treatment options available for restoring deciduous teeth. They will be able to transfer this knowledge to the clinical situation and be able to place pediatric crowns on the child patient.
- To identify and fulfill unmet patient's needs to boost treatment options within the office and optimize the practice by applying the state-of-the-art biomimetic materials and techniques that is time and cost saving.
- Reach a high level of competence in the placement of pediatric crowns, from the planning to the realization of the treatment during our hands-on sessions.

HANDS-ON WORKSHOP LEARNING OUTCOMES

- Delegates will have the opportunity to work firsthand with edelweiss PEDIATRIC CROWNS under the expert guidance of Dr. Lampl and Dr. Moodley. All delegates will be given materials and the edelweiss PEDIATRIC CROWNS to place on plaster cast models.

MODERATOR



Bhojan Nandial
Prof. & Vice Proctor & Preventive Dentistry
JSS Dental College Mysore

COORDINATOR



Ravendra Shanbhog
Pediatric & Preventive Dentistry
JSS Dental College Mysore

LECTURERS

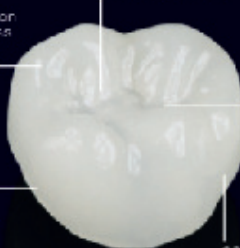


Stephan Lampl
D.D.S., M.D.S., D.A.A.
CEO & founder edelweiss dentistry

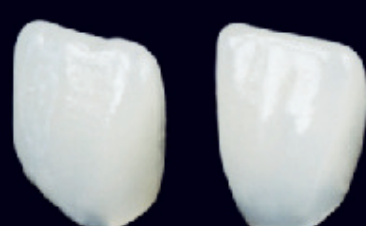


Devisgar Moodley
Ph.D., Msc.Dent., FDD Aesthetic, R.D.S.
Chief Esthetic Officer

PEDIATRIC CROWN



PEDIATRIC VENEER



edelweiss PEDIATRIC VENEER

Co-Founder:
Prof. Dr. Deepa Gurunathan, Saveetha College

Report on Lecture and Hands-On Workshop on Full Coverage Crowns: Restorations for Deciduous and Permanent Teeth in Developing Dentition

SIG Dental Cariology, JSS Dental College and Hospital in collaboration with Edelweiss Dentistry organized an informative and interactive lecture along with a hands-on workshop on the topic of Direct System Pediatric Crown "Full Coverage Crowns: Restorations for Deciduous and Permanent Teeth in Developing Dentition." On 17th August 2023 at Gowrishankar auditorium JSS Dental collage and Hospital Mysuru. The workshop aimed to enhance the knowledge and skills of dental professionals in the restoration and treatment of deciduous and permanent teeth in young patients.

The lecture was delivered by Dr. Desigar Moodley, Chief Scientist at Edelweiss Dentistry. Dr. Moodley is a distinguished expert in the field of dental restorations and brought a wealth of knowledge to the event. His lecture covered various aspects of full coverage crowns, focusing on their application and benefits for deciduous and permanent teeth in the developing dentition. The attendees gained valuable insights into the latest advancements in restorative dentistry techniques. The hands-on workshop was conducted by Dr. Stephan Lampi, CEO, and Founder of Edelweiss Dentistry. Dr. Lampi is an industry leader with extensive experience in developing innovative dental solutions. During the workshop, participants had the opportunity to engage in practical exercises involving the placement of full coverage crowns. The workshop provided a platform for attendees to enhance their clinical skills and gain a deeper understanding of the techniques demonstrated.

The workshop was attended by faculty and Post graduate students of Department of pediatric and Preventive Dentistry, Conservative dentistry and Endodontics along with House surgeons. Dr. B Nandlal B, (moderator) and Dr. Raghavendra Shanbhog, (coordinator) actively contributed to the planning and execution of the workshop.

Outcome and Future Prospects:

The lecture and hands-on workshop received positive feedback from the participants, who praised the content, organization, and the opportunity to learn from esteemed experts. The event marked the beginning of a promising collaboration between JSS Dental College and Hospital and Edelweiss Dentistry, with potential for groundbreaking research and advancements in dental care. The attendees left with enhanced knowledge, improved skills, and a greater enthusiasm for delivering high-quality dental treatment to young patients.

A significant achievement of the event was the signing of a Memorandum of Understanding (MOU) between Dr Daksiyini MR, Principal JSS Dental College and Hospital and Dr. Stephan Lampi, CEO, and Founder of Edelweiss Dentistry, based in Austria.

The course contact persons Dr B Nandlal and Dr Nandita from JSS and Dr Stephan Lampl and Dr Desigar Moodley from edelweiss dentistry.

This significant event was graced by Dr Vishal Kur Gupta Dean Academics, JSSAHER. This MOU solidified a partnership between academia and industry for collaborative research, education, and training in the field of dentistry. This collaboration is expected to contribute significantly to advancements in dental care and technology. The lecture and hands-on workshop on Full Coverage Crowns: Restorations for Deciduous and Permanent Teeth in Developing Dentition, organized in collaboration with Edelweiss Dentistry and SIG Dental Cariology, proved to be a significant educational and professional development opportunity. The event not only provided valuable insights into the latest advancements in dental restoration techniques but also facilitated a promising partnership for future research and education endeavors.



Awareness program on Nutrition and Oral Health 12th June 2023 JSS Balajagath School, Agrahara.

SIG Dental Cariology, JSS Dental College and Hospital in collaboration with the Dept of Nutrition and Dietetics, JSS AHER organised recently an diet and oral health educative program in accordance to WHO Goals

This Awareness program on Nutrition and Oral Health was conducted on 12th June 2023 at JSS Balajagath School, Agrahara.

Team members: Ms. Syeda Farha S (PhD), Assistant Professor, and Dr Veena B M, Assistant Professor Ms. Haniya Tasmia and Ms. Yashaswini, 2nd year MSc students, Dept of Nutrition and Dietetics, JSS AHER conducted an awareness program for school children for Nutrition and Oral health hygiene, where children were educated about healthy eating habits and its impact on the overall oral health. General balanced diet rich in carbohydrate's, proteins, milk and milk products ,vegetables and fruits and fat were brought to the knowledge of the children.

Team Members from JSS Dental College and Hospital, Dr B Nandlal, Prof and Head Dept of Pediatric and Preventive Dentistry and Group Leader of SIG Dental Cariology, JSS AHER, Mr. Mahendra, Dental Hygienist and School oral health Trained Educator.

Achievements

Publications

- Madhagudanahalli S Lakshmi, Kudlapur T Srilatha, Bhojraj Nandlal, Seema Deshmukh - Clinical evaluation of preventive effect of fissure sealants on initial carious lesion of permanent mandibular molars pretreated with and without fluoride varnish by fluorescence camera - International Journal of Clinical Pediatric Dentistry - Mar - Apr 2018;11(2):89-93. ISSN:0974-7052, International
- Ranju M B, Naseemoun Shaik, Raghavendra Shanbhog – Assessment of tooth shade in primary dentition among Indian Paediatric population and its association with skin, lip and gingival colour: An observational study – Journal of Clinical and Diagnostic Research – Jul 2018;12(7):ZC20-ZC23. ISSN: 2249 - 782X, National
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Ongoing/Completed Projects:

Name of the faculty / Department	Name of the project	Amount in Lakhs	Funding Agency
Principal Investigator: Dr Chanchala H P Lecturer Dept. Of Pediatric & Preventive Dentistry Co-investigator Dr B Nandlal, Dr Raghavendra Shanbhog Dept. of Pediatrics & Preventive Dentistry	Evaluation of Oralife- A botanical non alcoholic oral rinse (BOR) on S Mutans in children	1.84	Group Pharmaceuticals Ltd., B'lore
Principal Investigator: Dr B Nandlal, Prof., & HOD Dept. of Pediatrics & Preventive Dentistry Co-Investigator: Prof. Subbarao V JSSMC	An observational study of genomics and sialic acid in oral samples of children receiving multiple blood transfusion and on oral chelators	10.76	ICMR
Co-investigator Dr B Nandlal Dr Raghavendra Shanbhog Dept. of Pediatrics & Preventive Dentistry	ATP evaluation of antibiofilm and antimicrobial efficacy of denture cleanser tablet	3.06	Group Pharmaceuticals Ltd., B'lore
Co-investigator Dr B Nandlal Dr Raghavendra Shanbhog Dept. of Pediatrics & Preventive Dentistry	Fennel Extract Gel for Dental Purpose- Phase-1	1.13	Group Pharmaceuticals Ltd., B'lore
Principal Investigator: Dr Raghavendra Shanbhog, Reader, Dept. of Pediatric & Preventive Dentistry, Co-PI: Dr Mahanada, Dr B Nandlal Dr Chanchala H P	Machine learning based smart mobile application for detecting clinical dental fluorosis	10.00	BIRAC Ref . No. BT/A GCJC0050 /01/22
Principal Investigator: Dr Parasmull J, Reader Dept. of Conservative Dentistry & Endodontics Co-PI: Dr Raghavendra Shanbhog Dr B Nandlal	Evaluation of the remineralisation potential of four toothpastes on artificially induced carious lesion – an in vitro pilot study	1.67	Dabur India Ltd., New Delhi

Ongoing/Completed Projects:

Name of the faculty / Department	Name of the project	Amount in Lakhs	Funding Agency
Principal Investigator:Dr Thippeswamy H MReader, Dept. of Public Health Dentistry Co-investigatorsDr Prashanth S NDr Devanand DDr Raghavendra ShanbhogDr Nandithakumar M	Evaluation & comparison of serum calcium, Magnesium, Phosphate, Alkaline Phosphate, Vitamid-D and Bone Mineral Density in children consuming reverse osmosis (RO), Non RO and High Fluoride drinking water	20.21	ICMR Sanction order no. F.N.5/9/1325/2020-Nut / 12.1.2021
Principal Investigator:Dr Indira M DReader, Dept. of Pedodontics & Preventive DentistryCo-investigators Dr Sushma Neonatologist, Dept of Pediatrics, JSS Hospital	Oral Health Status and Oral Health Related Quality Of Life among Children Born Prem - A Cross-Sectional Study	00.25	Indian Society of Pedodontics and Preventive DentistryFaculty Research Grant 2021
Principal Investigator:Dr Indira M DReader, Dept. of Pedodontics & Preventive DentistryCo-investigators Dr Rajini HS, Dept of Pediatrics Dr Mamatha, HOD , Dept of OBG	Anatomical Variation of Superior Labial Frenum in Neonates and its Impact on Breast Feeding	00.25	Indian Society of Pedodontics and Preventive DentistryFaculty Research Grant 2022

Students Projects : JSS Academy of Higher Education & Research Projects

Sl.No.	Name of the Student / Department	Name of the project	Amount In Lakhs	Period	Status
1	Student: Dr Shalini YurembamPG Guide: Dr Brinda Suhas Godhi Reader, Dept. of Pediatric Dentistry	Assessment of Antimicrobial Activity of Bromelain-Rich Ananas Comosus Stem Extract In Comparison With Chlorhexidine Gluconate Against Oral Pathogens An In Vitro Study	0.25	1.5 yrs.	Ongoing JS SAHER/REG/RES/URG/54/2023-24/11507/2 1.12.2023
2	Dr Jeessica PG Student Guide: Dr B Nandlal Prof., & HOD, Dept.of Pedodontics & Preventive Dentistry	Evaluation of remineralization of demineralized dentin of primary teeth using quantitative light induced fluorescence and scanning electron microscope study: An in vitro study	0.25	1 Year	CompletedS anctioned vide order no. REG/DIR(R)/URG/54/2011-12/5661/Dt 1.10.2021
3	Dr Aiswarya Balakrishna PG Student Guide: Dr B Nandlal HOD, Dept. of Paediatric & Preventive Dentistry	A Comparative Assessment of the efficacy of commercially available low concentration bleaching agents using quantitative light induced fluorescence in removing stains: an in vitro study	0.25	1 Year	CompletedS anctioned vide order no. REG/DIR(R)/URG54/2011-12/5661/Dt 1.10.2021

4	Dr Ashwini K P G Student Guide Dr Raghavendra Shanbhog , Reader, Dept. of Paediatric & Pr eventive Dentist ry	Efficacy of Self assembling pe ptide P 11- 4 in constructing a reminerali zation scaffold on incipient e namel lesions on human ena mel, used in combination wit h calcium phosphate based re mineralization compounds: A n in vitro study.	0.25	2 Years	Completed Sanctioned vide order no.REG/D IR(R)/UR G54/2011 -12/5661/ Dt 1.10.20 21
5	Dr Shiya Alazhar PG Student Guide: Dr Giris h M S, Reader, Dept. of Paediatric & Pr eventive Dentist ry	An invitro evaluation of tooth discolouration and shear bon d strength of Glass Ionomer c ement bonded to tooth surfac e pre- treated with silver Diamine fl uoride and Glutathione bio- molecule	0.25	4 Months	Completed Sanctioned vide order no.REG/D IR(R)/UR G54/2011 -12/5661/ Dt 1.10.20 21
6	Dr Anoop N K PG Student Guide: Dr B Na ndlal Dept. of Pedodo ntics & Preventi ve Dentistry	Evaluation of the efficacy of f ennel seed extract (Foeniculu m vulgare) in inhibition of gr owth of enterococcus faecalis biofilm formed on tooth subs trate; an ex vivo study	0.25	3.5 Months	Completed Sanctioned vide order no.REG/D IR(R)/UR G/542011 -12/6915/ Dt 25.09.2 019

Patents/Prototypes:

TITLE	App licat ion No.	Inventors	Depart ment	Date	Status	Agent
A medicated nano sponge-based finger s ling device and a method of preparation t hereof	2.02 241 E+1 1	Dr Chanchala H P, Lecturer Dr Raghavend ra Shanbhog, JSSDCH Dr Meenakshi S, JSSDCH Dr Riyaz ali O smani, JSSCP M	Pediatric and Pr eventive Dentist ry	17.5.202 4	Publishe d 17.5.202 4 Filed 16.11.20 22	M/s. S PS Ass ociate s, B'lo re
System and M ethod for Dyn amic Translat ion of Speech to Sign Langu age for Oral H ygiene Educat ion	201 841 039 995 Pate nt n o. 4 816 30	Dr B Nandlal Dr Raghavend ra Shanbhog Dr Shreekant h Thotappa Dr Shreepriya Singhanian Dr Bijlani Sa mhita Subhas h Ms. Divya Na ndlal Sahetya	Paediat ric & Pr eventive Dentist ry	13.12.20 23	Renewal done. 23.10.20 24 (7th yr.) Granted 13.12.20 23 Publishe d 24.4.202 0 Filed 23. 10.2018	M/s. ALMT Legal, Advo cates & Soli citors, Bang alore

Patents/Prototypes:

Touchfree UV-C Based Sanitization System (Designed & registered in this name) And published as Ultraviolet Sanitization System	2.02 041E +11	Dr B Nandlal HOD, Prof., Dept. of Pedodontics & Preventive Dentistry Dr Srinivasa Murthy JSS Medical College Dr Ravindra Shivamurthy Principal, JSS DCH Mr Nagendra Ramakrishna Setty, Ideas Unlimited, Mysuru	Dept. of Paediatric & Preventive Dentistry JSSDCH	31.8.2021	Granted 31.8.2021 (Design No. 336133-001) Published 17.6.2022 Filed 10.12.2020	M/s. Innomatra Consulting Pvt., Ltd., Mysore
System and Method for Dynamic Translation of Speech to Sign Language for Oral Hygiene Education	2018 4103 9995 Patent no . 481 630	Dr B Nandlal Dr Raghavendra Shanbhog Dr Shreekanth Thotappa Dr Shreepriya Singhania Dr Bijlani Samhita Subhash Ms. Divya Nandlal Sahetya	Paediatric & Preventive Dentistry	13.12.2023	Renewal done. 23.10.2024 (7th yr.) Granted 13.12.2023 Published 24.4.2020 Filed 23.10.2018	M/s. ALMT Legal, Advocates & Solicitors, Bangalore

Patents/Prototypes:

TITLE	Application No.	Inventors	Department	Date	Status	Agent
A medicated nano sponge-based finger sling device and a method of preparation thereof	2.02241E+11	Dr Chanchala H P Lecturer Dr Raghavendra Shanbhog, JSSDCH Dr Meenakshi S, JSSDCH Dr Riyaz Ali Osmani, JSSCPM	Pediatric and Preventive Dentistry	17.5.2024	Published 17.5.2024 Filed 16.11.2022 Renewal done. 23.10.2024 (7th yr.)	M/s. SPS Associates, B'lore
System and Method for Dynamic Translation of Speech to Sign Language for Oral Hygiene Education	201841039995 Patent no. 481630	Dr B Nandlal Dr Raghavendra Shanbhog Dr Shreekanth Thoappa Dr Shreepriya Singhania Dr Biljani Samhita Subhash Ms. Divya Nandlal Sahetya	Paediatric & Preventive Dentistry	13.12.2023	Granted 13.12.2023 Published 24.4.2020 Filed 23.10.2018	M/s. ALMT Legal, Advocates & Solicitors, Bangalore
Touchfree UV-C Based Sanitization System (Designed registered in this name) And published as Ultraviolet Sanitization System	2.02041E+11	Dr B Nandlal HOD, Prof., Dept. of Pedodontics & Preventive Dentistry Dr Srinivasa Murthy JSS Medical College Dr Ravindra Shivamurthy Principal, JSS DCH Mr Nagendra Ramakrishna Setty, Ideas Unlimited, Mysuru	Dept. of Paediatric & Preventive Dentistry JSSDCH	31.8.2021	Granted 31.8.2021 (Design No. 336133-001) Published 17.6.2022 Filed 10.12.2020	M/s. Innomantra Consulting Pvt., Ltd., Mysore
System and Method for Cleft Speech Training at Home	202041045850 Patent No. 537152	Dr B Nandlal Ms. Divya N Sahetya, SICE Kuhoo Tiwari, SICE Co-inventors: Ms. Meghana P, SICE Ms. Dhanya Ganesh, SICE Mr Kiran V, SICE Mr Abhishek N Ramesh, SICE Ms Kuhoo Tiwari, SICE	Dept. of Paediatric & Preventive Dentistry JSSDCH	07.05.2024	Granted 7.5.2024 Published 22.04.2022 Filed 21.10.2020	M/s. ALMT Legal, Advocates & Solicitors, Bangalore
Soft Tongue Restrainer	201841004643 IP-3636-IN-47181321-PPA-2018	Dr B Nandlal, Prof. & HOD, Dept. of Pediatric and Preventive Dentistry, Dr Anoop Neelankavil Korboush Dr Ragavee Veeramani Dr Amrta Imtiaz	Dept. of Paediatric & Preventive Dentistry JSSDCH	09.8.2019	Published 9.8.2019 Filed 07.02.2018	M/s. ALMT Legal, Advocates & Solicitors, Bangalore

Collaborate With Other Similar Organization To Meet The Cause Of Excellence In Research Relating Dental Cariology.

Academia collaborations for Research Projects

USC, Los Angles -Pilot study MOU Project with Prof Janet AMIST University, Malaysia - Project Proposal Under approval Worklife balance among dental assistants and nurses with PI Dr Siva

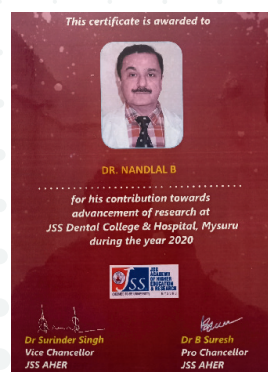
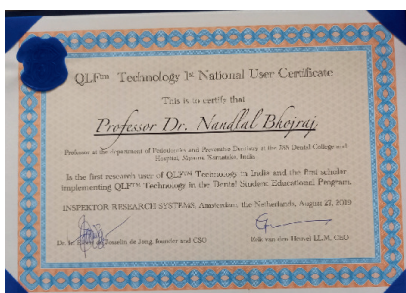
Pharma Industries collaborations for Basic research and clinical trials :

Colgate Palmolive, India -MOU (Oral Health Products)

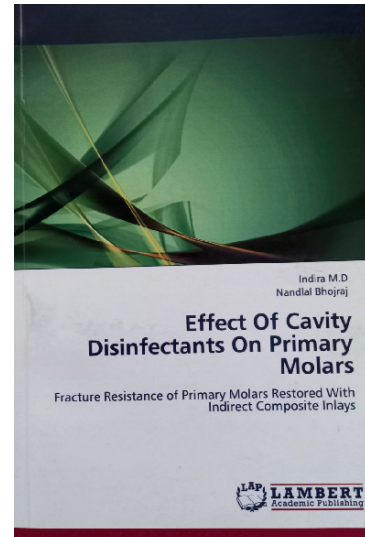
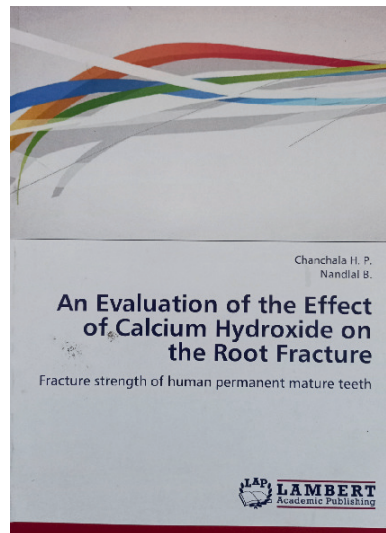
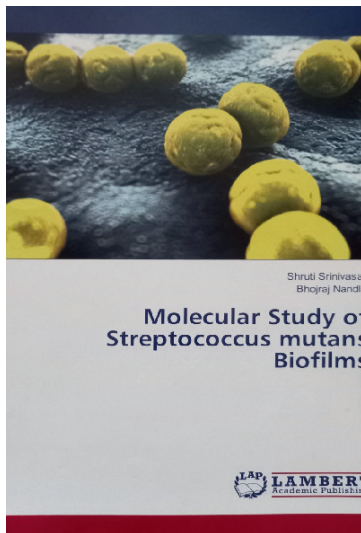
Group Pharma, Bangalore- MOU (Densive denture Tablet, Oralife Mouthwash)

Swastify Foundations – MOU (Remote site assessment of dental caries and referral using the Imaging)

Cvek Tooth powder Nanjungud - MOU (Clinical trial)



Books published



6. Future Plans

Upcoming Events:

- Workshop on QLF and applications in dental clinical research
- Understanding genomics of dental biofilms and dental caries
- Long-Term Goals: Centre of excellence in Dental Cariology
- QLF based evaluation of dental caries development and hygiene monitoring in health and disease.
- QLF based Evaluation of efficacy of oral care preventive products