

**3.5.2 Total number of functional MoUs/linkages with institutions/industries in India and abroad for academics, clinical training, internship, on the job training, project work, student/faculty exchange, collaborative research programmes, etc. during the last five years.**



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**RESEARCH COLLABORATION REPORT - 28.6.2023**

As a part of research collaboration, Dr. V. Vasanth Ayswarya, Priyadarshini dental college and hospital had collaborated work of a research topic titled "EVALUATION OF TEMPERATURE IN DIFFERENT INTRA-ORAL SITES" with Vellore Institute of Technology, Chennai. The project had collaborative efforts from both institutions, fostering research culture and exposure to varied set up in research. The study was proposed by Dr. B. Sivapathasundharam, and the Department Of Periodontics, Priyadarshini Dental College And Hospital. The study had the following aim and methodology. Thermal camera was utilized from Vellore Institute of Technology, Chennai.

**OBJECTIVES:**

To determine the oral temperature in various intra-oral sites using thermal camera, assess its correlation with body temperature, and evaluate the association of temperature with inflammation in the oral cavity.

**MATERIALS AND METHODS:**

A total of systemically healthy 25 subjects were recruited from the outpatient department of periodontology, Priyadarshini dental college and hospital for the study. Subjects were assessed for the temperature using thermal imaging camera in different intraoral sites - Floor of the mouth, buccal mucosa, hard palate, soft palate, gingival sulcus and attached gingiva. The collected data were statistically analyzed.

**RESULTS:**

The coldest site is teeth while the hottest site is carious teeth. Attached gingiva shows temperature in Periodontitis(P) > Gingivitis(G) > Healthy(H) periodontium attributing to the fact increased inflammation leads to rise in temperature. It was also seen that body temperature has no significant difference between any intra oral site. Gingival inflammation showed significant difference between H & G, H & P.

**CONCLUSION:**

Thermal camera is a reliable instrument to assess intraoral temperature. Intra oral temperature assessment is a reliable method to assess body temperature. Attached gingiva and carious tooth has inflammation that may show variation of increase in temperature from the other sites.

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**RESEARCH COLLABORATION REPORT – 30.6.2023**

A research collaboration was done between Priyadarshini dental college and hospital and Vpet Genetic lab, Chennai. A research project titled “ASSESSMENT OF CYTOGENIC DAMAGE IN CHRONIC PERIODONTITIS AND TYPE 2 DIABETES MELLITUS SUBJECTS THROUGH MICRONUCLEUS TEST” was done by Dr. V. Vasanth Ayswarya, Dr. Paavai, Ms. Akshaya. M, Department of Periodontics at the Vpet Genetic lab. It is an ongoing study since March 2023 with the following study details.

**OBJECTIVE**

1. To assess the cytogenic damage (through micronuclear frequency - MNF), in gingival cells of health, periodontitis and diabetes subjects
2. To evaluate the correlation of cytogenic damage in periodontitis and type 2 diabetes mellitus.

**METHODOLOGY**

The study evaluated the cytogenic damage (MNF) in chronic periodontitis subjects and its correlation with diabetes. A total of 20 subjects was categorized to four groups, from the outpatient department of periodontics in Priyadarshini dental college and hospital, Thiruvallur district shall be included in the study. A thorough case history shall be taken and their complete periodontal examination, a sample of 2ml venous blood was collected from each subject to evaluate the glycated haemoglobin levels (HbA1C) and random plasma glucose levels (FPG). Swab of epithelial cells from mucosa and gingiva were collected and evaluated for cytogenic damage after staining the slide. Genetic evaluation was done in Vpet Genetic lab.



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Date: 29.6.23

**Vpet Genetic Lab and PDCH Collaboration - Student Observership Report**

Interns of PDCH (65 interns) had the opportunity to visit Vpet Genetic Lab through the PDCH Interdisciplinary student externship program on 27-06-2023. They were heartily welcomed and guided by the senior scientist at the Vpet Genetic Lab and they were assembled in the seminar hall where they were given an insight on genomics. The co-scientists introduced the students to a unique ground breaking application of genomics being used to improve the health of people wildlife or the environment. The field trip served as an active learning platform allowing the students to ask questions engage in discussions with experts and foster passion for the details of molecular genetics. The students delved into the world of chromosomal analysis. Witnessing the particular examination of chromosomes under high power microscopes provided invaluable insights into the identification of genetic abnormalities and the role they play in various disorders. The ambience and the experience of witnessing such vast variety of instruments and techniques used in the lab was overwhelming.

The Geneticists were humble in sharing their expertise in the field of genomics and patient enough to provide knowledge about the handling of the instruments.

They were also able to provide an insight on the use of genomics in the field of dentistry.

They also taught the students about the wide application of genomics in the field of forensic odontology and its scope in the future.

This invaluable experience will undoubtedly shape the future careers of the students.

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Date: 29/6/2023

### Frontier lifeline hospital and PDCH Collaboration – Student observership Report

With the great initiative of Dr. B. Sivapathasundharam, Principal and with the support of Dr. Paavai, Chairperson, Research Committee of PDCH, a MOU was signed between Priyadarshini Dental College and Hospital and Frontier Lifeline Hospital, the renowned tertiary cardiac centre in India. As a part of MOU, the Observership for the year 2022-23 has commenced. This consists of one week posting in Frontier lifeline hospital for CRIs and faculty members (9 members).

A delightful welcome and brief Orientation was given by eminent cardiac surgeon, Dr. Sanjay Cherian, Vice President, Dr. K.M. Cherian frontier lifeline hospital who propelled the students excitement to the next level. The posted members were provided with scrub and temporary identity card and directed to attend various departments.



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They were engaged in OPD, Echo, ECG department, Treadmill, Blood bank, Dept of Biochemistry, Dept of Microbiology, CSSD, Museum, General Wards, AICU, CCU, Catheterization Lab and OT and allowed to interact with some of the medical professionals including Doctors, Nurses, Senior technicians and Students, who patiently answered all their questions and equipped them with great learning experience.

Dr. Paavai, Professor and Head, Dental Department at Frontier Lifeline detailed on the case sheet of cardiac patients and also provided them an opportunity to do dental treatment for the cardiac patients with appropriate prophylaxis. Spectacular and enlightening opportunity to view cardiac surgery at sophisticated operation theatre with Dr. Sanjay Cherian, Cardiologists, Physician assistants, Anaesthetists, Nurses and few other health care professionals were provided.



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Dr. Sanjay Cherian, briefed us about patient care and communication. Further our CRIs and faculty members had a golden opportunity to meet the founder of Frontier Lifeline Hospital, Padmashri Dr. Cherian, who performed India's first coronary artery bypass surgery and first heart transplant.

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Date: 16/6/2023

### **Maaya Multispeciality Hospital and PDCH Student Observership Report**

With the great initiative of Dr. B. Sivapathasundharam, Principal and with the support of Dr. Paavai, Chairperson, Research Committee of PDCH a MOU was signed between Priyadarshini .Dental College and Hospital and MAAYA SPECIALITY Hospital. As part of this collaboration, an Observership Program was initiated for the academic year 2022-2023 The program aimed at providing valuable exposure and learning opportunities for CRIs and faculty members from PDCH.

The Observership Program officially commenced on 14th June 2023. 56 Participants, including CRIs and faculty members, were provided with necessary resources such as scrubs and temporary identity card and directed to attend various departments. They were engaged in General ward, Gynaecology ward, CT, X-ray, causality ward, Paediatric ward, OPD, ICU, Blood bank, Dept of Biochemistry, Dept of Microbiology, CSSD, AICU, CCU, and OT and had a chance to interact with some of the medical professionals including Doctors, Nurses and Senior technicians. The participants exposure to various medical departments, coupled with interactions with experienced professionals, created a holistic learning experience. Throughout the observership Program, participants had the chance to pose questions and engage in meaningful discussions with medical professionals. Participants interacted with patients in the OPD, refining their skills in history-taking, clinical examination, and patient communication. Practical experiences in the blood bank included understanding blood donation, storage, and transfusion procedures, emphasizing the importance of blood safety. Participants were involved in the practical aspects of intravenous (IV) transfusion, learning about the administration of blood and other intravenous fluids. By providing a platform for hands-on learning and interaction with healthcare professionals, this initiative provides overall development of participants.

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This dynamic exchange of knowledge enriched their understanding of health science and research. The collaborative initiative facilitated a valuable learning experience for CRIs and faculty members, deeper appreciation for the challenges and advancements in the field. This endeavour reflects the commitment of both institutions to advancing knowledge and expertise in the field of health sciences.

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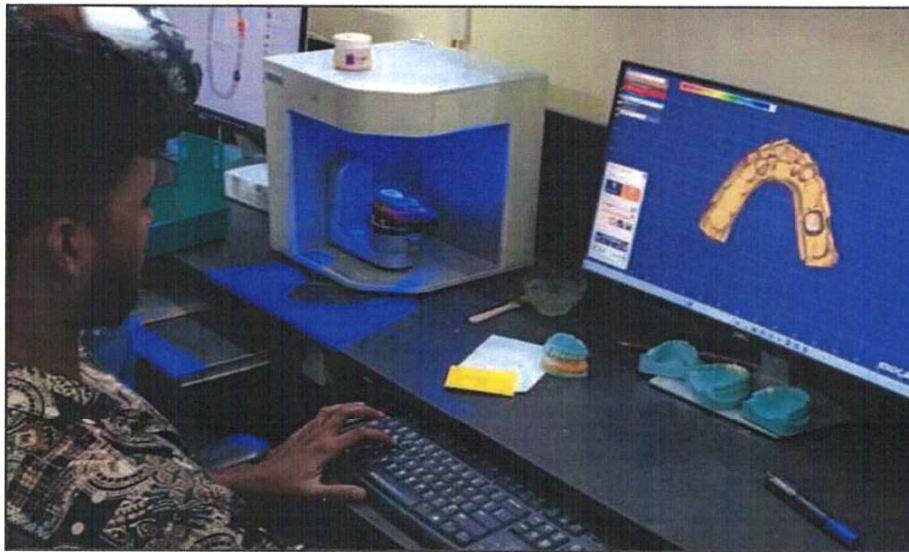
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Date: 23/05/2023

### Blossom dental lab and PDCH collaboration - Industry Internship Report

Interns of Priyadarshini Dental College and Hospitals (64 interns) had the opportunity to visit BLOSSOM LAB through the PDCH Interdisciplinary student externship program on 20-05-2023.

The Interns were heartily welcomed and guided by the teaching team members at the Blossom lab and they were assembled in the seminar hall where they were given an insight on the safety precautions and equipments. Students have been shown the importance of applications used to improve the health of people. The industry internship was served as an active learning platform allowing the students to ask questions engage in discussions with experts and foster passion for the details further. The students delved into the world of laboratory equipment and the methods. The ambience and the experience of witnessing such vast variety of instruments and techniques used in the lab was overwhelming.



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Students have got to receive the knowledge about the handling of the instruments and cultural

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methods used widely to diagnose a disease and for proper treatment.

They were also able to provide an insight on the use of new technologies. They also taught the students about the wide application of lab techniques and its scope in the future.

This invaluable experience will undoubtedly shape the future careers of the students.

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**SHARMILA'S HOSPITAL AND PDCH STUDENT OBSERVERSHIP**  
**REPORT – 23.05.2023**

A student observership program was initiated for the academic year 2022-23. The program aimed at providing valuable exposure and learning opportunities for CRIs from PDCH. 61 interns participated and were provided with necessary resources such as scrubs and observe various OPD and interacted with some of the medical professionals including Doctors, Nurses and senior technicians. Students had the opportunity to observe how dental care integrates with other medical specialties within the hospital setting. This included interactions with physicians, nurses, and allied healthcare professionals during patient consultations and treatment planning sessions. They observed the patient care process from initial assessment to follow-up appointments. This included learning about patient history taking, diagnostic procedures, treatment planning, and post-treatment care instructions. They had posting in ICU and Casualty for clinical observation. Throughout the observership program, participants engaged in meaningful discussions with medical professionals. By providing a platform for interaction with healthcare professionals, the initiative provided holistic approach to patients. This dynamic exchange of knowledge enriched their understanding of health science and research. The program reflected the commitment of both institutions in advancing knowledge and expertise in the field of health sciences.

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**GOWRI HOSPITAL AND PDCH STUDENT OBSERVERSHIP REPORT**  
– 23.05.2023

A student observership program was initiated for the academic year 2022-23. The program aimed at providing valuable exposure and learning opportunities for CRIs from PDCH. 61 interns participated and were provided with necessary resources such as scrubs and observe various OPD and interacted with some of the medical professionals including Doctors, Nurses and senior technicians. Throughout the observership program, participants engaged in meaningful discussions with medical professionals. Participants interacted with patients in the OPD, exposed to sterilization protocols, hospital management, history-taking, clinical examination, and waste management. Participants were involved in the practical aspects of intravenous (IV) transfusion, learning about the administration of blood and other intravenous fluids. They had a great exposure in ICU and casualty department in patient care observation. By providing a platform for hands-on learning and interaction with healthcare professionals, this initiative provides overall development of participants. This dynamic exchange of knowledge enriched their understanding of health science and research. The collaborative initiative facilitated a valuable learning experience for CRIs and exposure to advancements in the field. This endeavour reflects the commitment of both institutions to advance knowledge and expertise in the field of health sciences.

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**SIVAM HOSPITAL AND PDCH STUDENT OBSERVERSHIP REPORT**  
– 23.05.2023

This report aims to provide a comprehensive overview of the two-day posting (December 2022 to May 2023) for interns from Priyadarshini Dental College at Sivam Hospital. The posting was designed to offer interns a practical exposure to various departments including Intensive Care Unit and casualty within the hospital, thereby enhancing their clinical skills, understanding of interdisciplinary patient care, and overall professional development.

The two-day posting familiarized PDCH interns with the operational dynamics and clinical practices of a multispecialty hospital. It provided them with hands-on experience in patient care across different medical specialties. Furthermore, it facilitated interdisciplinary learning and collaboration among interns and healthcare professionals. They were also able to assess their clinical competencies and identify areas for further improvement.

To summarise, the two-day posting at Sivam Hospital provided interns from Priyadarshini Dental College with a valuable opportunity to expand their clinical knowledge, skills, and professional networks in a hospital-based setting. By actively engaging in patient care across various specialties, interns gained practical insights into interdisciplinary healthcare delivery and furthered their preparation for future dental practice.

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**NAADI MUTISPECIALITY HOSPITAL AND PDCH STUDENT  
OBSERVERSHIP REPORT – 23.05.2023**

This report is to give a thorough account of the two days (December 2022 to May 2023) that Priyadarshini Dental College interns spent at Naadi Multispeciality Hospital. The purpose of the posting was to provide interns with a hands-on experience in various hospital departments, including as the ICU and casualty, to improve their clinical skills, comprehension of interdisciplinary patient care, and overall professional growth.

PDCH interns were introduced to the operational procedures and clinical practices of a multispecialty hospital during their two-day posting. It offered students with hands-on experience in patient care across diverse medical disciplines. Furthermore, it allowed multidisciplinary learning and collaboration among interns and healthcare professionals. Additionally, they were able to evaluate their clinical competencies and pinpoint areas in need of development.

In summary, interns from Priyadarshini Dental College had a great opportunity to broaden their clinical knowledge, skill set, and professional networks in a hospital setting during their two-day posting at Naadi Multispeciality Hospital. Interns furthered their preparation for future dental practice by actively participating in patient care across specialties, where they received practical insights into interdisciplinary healthcare delivery.

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**MAAYA WOMEN'S CARE HOSPITAL AND PDCH STUDENT  
OBSERVERSHIP REPORT 23.05.2023**

The interns of Priyadarshini Dental College has been posted for two days (December 2022 to May 2023) observership program at Maaya Women's Care Hospital. They were exposed to the specialized field of women's healthcare, enhance their understanding of oral health in relation to women's health issues, and provided with hands-on experience in a hospital setting.

Interns were divided into groups and rotated through key departments of the hospital, including Obstetrics and Gynecology, Maternity Ward, Neonatal Care, and Dental Clinic. Each rotation provided interns with insights into the comprehensive care provided to women throughout various stages of their lives.

Interns participated in educational sessions and workshops focusing on the importance of oral health during pregnancy and its impact on maternal and foetal health. They learned about common oral health issues experienced by pregnant women and strategies for promoting oral hygiene and preventive care. They also had the opportunity to observe and assist in dental consultations and treatments for pregnant and postpartum women. They learned to conduct oral health assessments, provide dental hygiene instructions, and address common dental concerns such as gingivitis and dental caries in this specific patient population. They collaborated with obstetricians, gynaecologists, midwives, and other healthcare professionals in interdisciplinary team meetings and case discussions. They gained an understanding of the importance of coordinated care and communication in addressing the holistic healthcare needs of women. Finally, Interns were engaged in patient counselling sessions, where they provided information and guidance to pregnant women on maintaining good oral hygiene habits, seeking dental care during pregnancy, and addressing oral health concerns for themselves and their infants.

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**MAAYA CHILD CARE HOSPITAL AND PDCH STUDENT  
OBSERVERSHIP REPORT – 23.05.2023**

This report outlines and briefs the two days (December 2022 to May 2023) observership program of interns from Priyadarshini Dental College and Hospital at Maaya Child care Hospital. The primary aim of this posting was to familiarize dental interns with pediatric healthcare practices, provide exposure to dental care for children, and enhance their understanding of oral health issues in pediatric patients.

PDCH interns were familiarized to the specialized field of pediatric healthcare and dentistry. They were provided with practical experience in assessing, diagnosing, and managing oral health conditions in children. They developed a collaboration with the healthcare professionals specializing in pediatric medicine and dentistry. It also helped to assess their own clinical competencies and communication skills in the context of pediatric patient care.

This observer ship program increased awareness of the unique challenges and considerations in providing dental care to pediatric patients. It also communication skills in interacting with children and their families in a healthcare setting. The interns of PDCH understood the holistic approach to pediatric healthcare and the importance of interdisciplinary collaboration. They furthermore developed a keen interest in pursuing further education or specialization in pediatric dentistry or related fields.

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**PDCH AND SMILE DENTAL CLINIC OBSERVER SHIP REPORT -**  
**1/12/2022**

This report provides an overview and evaluation of the 15 days evening posting attended by interns from Priyadarshini Dental College at Smile Dental Clinic from August to November 2022. The evening posting was designed to offer interns practical exposure to real-world dental practice, enhance their clinical skills, and provide opportunities for professional growth outside of regular daytime hours.

This posting provided them with hands-on experience in dental clinics, including patient consultations, examinations, and treatments. It enhanced interns' clinical skills and confidence in managing a variety of dental cases under supervision. It also exposed the interns to the operational dynamics of private dental practice, including patient scheduling, record-keeping, and clinic management.

Interns gained insights into the day-to-day operations of dental clinics, including appointment scheduling, patient billing, inventory management, and infection control protocols. They observed how dental teams coordinate and collaborate to ensure efficient clinic workflow and quality patient care. Additionally, Interns had the opportunity to interact with experienced dentists and dental staff, seeking guidance, feedback, and mentorship to enhance their clinical skills and professional development.

Through active participation in patient care, clinic operations, and professional development activities, interns gained valuable skills and knowledge that will contribute to their growth as dental professionals.

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**PDCH AND RKS DENTAL CLINIC OBSERVER SHIP REPORT -**  
**1/12/2022**

The interns of Priyadarshini Dental College and Hospital were posted in RKS dental clinic for 15 days between 5PM and 8PM from August 2022 to November 2022. The purpose of this evening posting was to provide interns a hands-on experience in a genuine dental practice, improve their clinical skills, and give them opportunities for professional development outside of regular college hours.

Interns actively participated in patient consultations, where they conducted oral examinations, obtained medical histories, and discussed treatment options with patients under the guidance of supervising dentists. They gained practical experience in diagnosing dental conditions and developing treatment plans tailored to individual patient needs. They also assisted in a wide range of clinical procedures, including dental cleanings, fillings, extractions, and minor oral surgeries. They learned to perform basic dental procedures under supervision, focusing on patient comfort, safety, and effective treatment delivery.

Additionally, Interns engaged in patient education sessions, where they provided guidance on oral hygiene practices, preventive care, and post-treatment instructions to patients. They learned to communicate effectively with patients and address their concerns in a clear and empathetic manner.

Thus, this posting helped them to increase their confidence in performing clinical procedures and interacting with patients. It also enhanced understanding of the practical aspects of dental practice management and clinic operations.

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**ANNAI TERASA DENTAL CLINIC AND PDCH STUDENT  
OBSERVERSHIP REPORT – 1.12.2022**

61 interns of PDCH participated in student observership program at Annai Terasa dental clinic. The program aimed to provide practical exposure and insights into various aspects of dental practice. Throughout the observership, students actively participated in clinical observations, patient management and hands-on experiences.

Under the supervision of experienced dental staff, students assisted in minor dental procedures such as extractions, root canal treatment, flap surgeries. This hands-on experience helped to consolidate theoretical knowledge and develop practical skills. Additionally, observing the patient care process from assessment to follow-up appointments emphasized the significance of patient-centered care and professional etiquette.

Despite challenges such as time constraints and adaptation to the clinic environment, students successfully navigated through the program with guidance from clinic staff. Overall, the observership provided a valuable opportunity for students to bridge the gap between theory and practice, reinforcing their commitment to excellence in dental care and inspiring future contributions to the healthcare community.

*Jasvi*

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**RELYNE DENTAL CLINIC AND PDCH STUDENT OBSERVERSHIP  
REPORT – 1.12.2022**

61 interns of PDCH participated in student observership program for two days batchwise at Relyne dental clinic for August to November 2022. The program aimed to provide practical exposure and insights into various aspects of dental practice. Throughout the observership, students observed sterilisation protocol, patient appointment, management and hands-on experiences.

Under the supervision of experienced dental staff, students assisted in dental procedures such as extractions, implant placement, flap surgeries. This hands-on experience helped to consolidate theoretical knowledge and develop practical skills.

They also observed the usage of various advanced instruments such as LASER and bleaching techniques. They also observed oral hygiene reinforcement and preventive dental care being emphasized to patients. Overall, the observership provided a valuable opportunity for students to bridge the gap between theory and clinical practice, reinforcing their commitment to excellence in dental care and inspiring future contributions to the healthcare community.

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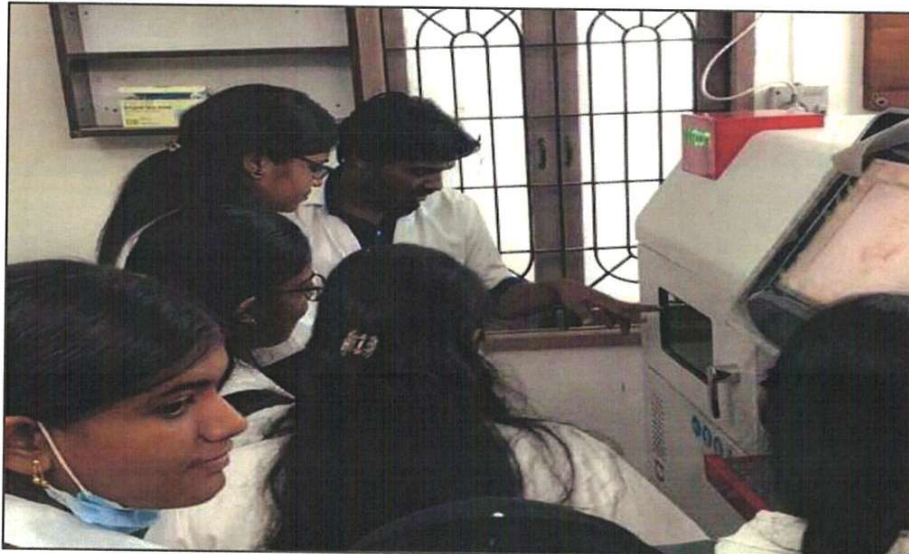
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Date: 18/10/2022

### **Blossom dental lab and PDCH collaboration - Industry Internship Report**

Interns of Priyadarshini Dental College and Hospital (65 participants) had the opportunity to visit BLOSSOM LAB through the PDCH Interdisciplinary student externship program on 14-10-2022. The Interns were heartily welcomed and guided by the teaching team members at the Blossom lab and they were assembled in the seminar hall where they were given an insight on the safety precautions and equipment. Students have been shown the importance of applications used to improve the health of people. The industry internship was served as an active learning platform allowing the students to ask questions engage in discussions with experts and faster passion for the details further. The students delved into the world of laboratory equipment and the methods. The ambience and the experience of witnessing such vast variety of instruments and techniques used in the lab was overwhelming.



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Students have got to receive the knowledge about the handling of the instruments and cultural methods used widely to diagnose a disease and for proper treatment.

They were also able to provide an insight on the use of new technologies. They also taught the students about the wide application of lab techniques and its scope in the future.

This invaluable experience will undoubtedly shape the future careers of the students.

*Paavai*

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## BLS TRAINING 2022-23

### REPORT

Department of Oral and Maxillofacial Surgery in Priyadarshini Dental College in association with TACT Academy has organized a course titled "Basic Life Support" from September 21<sup>st</sup> to 23<sup>rd</sup> 2022. The program had a series of lectures followed by hands-on and courses. The event started with invocation, by 8.30 A.M. Dr. G. Vijayalakshmi, Senior Lecturer commenced the event, welcoming all the attendees. This was followed by the inauguration and felicitation of the resource team. Interns and final-year students attended the program. Our Principal, Dr. B. Sivapathasundharam addressed the gathering. Dr. S. Loganathan, Professor, Department of Oral and Maxillofacial Surgery introduced the three guest speakers Dr. Kiruthika, Dr. Santhosh Isaac and Mr. Jabez. Principal Dr. B. Sivapathasundharam and Dr. S. Loganathan, Head of the Department, Oral and Maxillofacial Surgery honored the guest speaker Dr. Kiruthika, Dr. Santhosh Isaac and Mr. Jabez.

On each day the course commenced with the lecture on Importance of knowledge on Basic Life Support, AHA Guidelines and Chain of survival followed by series of discussion sessions. The lectures conveyed the various clinical scenarios, recent concepts and various techniques used in the Basic Life Support. The session was followed by panel discussion and questions from the participants which was answered by our guest speakers. At the end of various lectures and hands on, course assessment was conducted. Principal Dr. B. Sivapathasundharam and Dr. S. Loganathan presented the certificate of appreciation and memento to the guest speakers. A vote of thanks was delivered by Dr. Rajasekaran, Senior Lecturer, Department of Oral and Maxillo Facial Surgery. The program ended with the National Anthem. A feedback link was posted to all the participants and e-certificates were generated.

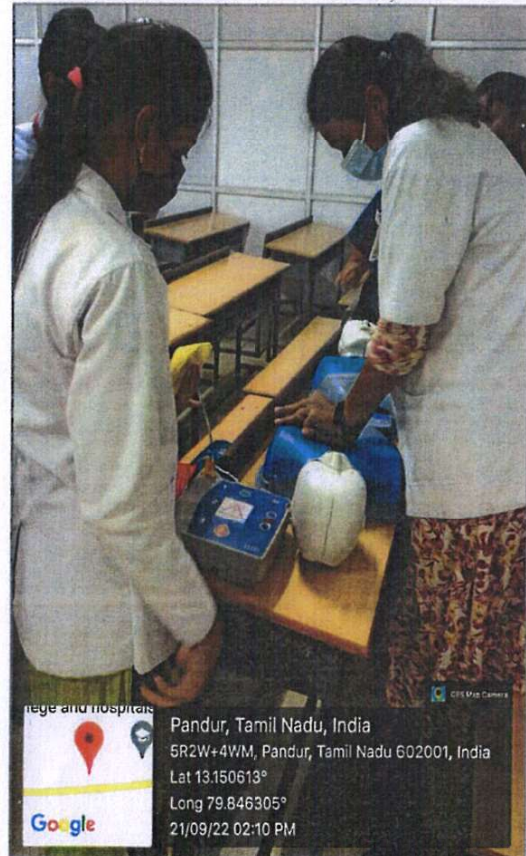
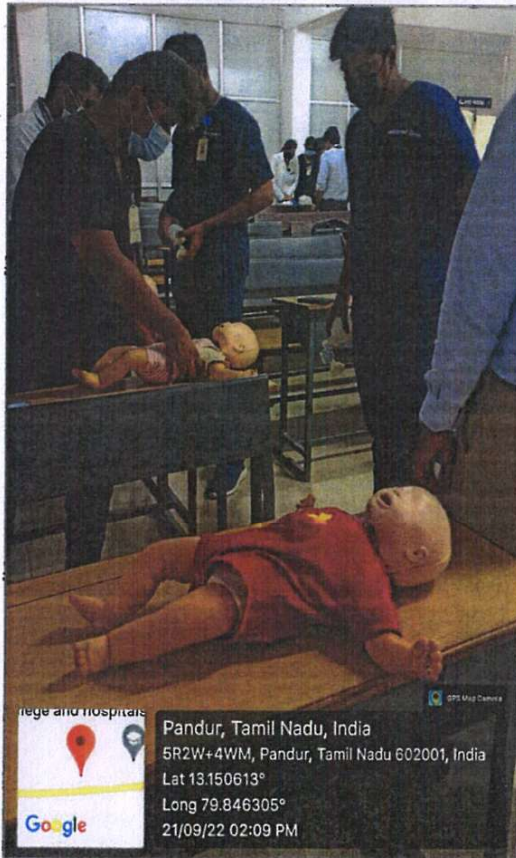


  
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Resource person explaining BLS



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Students practising BLS

*#v.v. to H...*





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Date: 16/8/2022

### **Payperad Advertisement agency and PDCH - Student Observership Report**

Interns of PDCH (64 participants) had the opportunity to visit an advertisement agency, PAPER AD PVT. LTD as a part of PDCH INTERDISCIPLINARY STUDENT EXTERNSHIP PROGRAM On 11.8.2022. They observed and understood the daily operations and workflow of the agency. The interaction with professionals in the field helped them gain insights into current industry practices. They assure to look forward to apply theoretical knowledge acquired in academic settings to practical scenarios. They had an opportunity to closely observe the day-to-day activities and engage with professionals. These interactions were invaluable, allowing them to learn about their roles, responsibilities, and the challenges they face in the field. The professionals generously disclosed all their routine and methodology grabbing people's attention which the student could apply in the field of dentistry. Their organizational structure was well planned and the level of communication and its effectiveness with the customer was commendable. Briefing followed by problem identification, then consumer insight followed solution then execution which is completed by evaluation

To summarize, the observership was a valuable experience that significantly contributed to the students' professional development. The exposure to real-world scenarios, interactions with professional, and the application of academic knowledge have equipped them with a deeper understanding of the agency. The confidence that the skills and insights gained during this observership will positively influence their academic and career pursuits.

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Date: 29/6/2022

**SRM DENTAL COLLEGE & HOSPITAL AND PDCH RESEARCH COLLABORATION  
REPORT**

As a part of research collaboration, Dr. I. Paavai, Professor and Head Department of Periodontics, Priyadarshini dental college and hospital had collaborated work of a research topic titled "Evaluation of serum and salivary PCSK9 and IL6 and its association with periodontal inflammation and atherosclerotic cardiovascular diseases" with SRM dental college and Hospital. The project had collaborative efforts from both institutions fostering research culture and exposure to varied set up in research. The procedure and evaluation were done SRM dental college and Hospital, Ramapuram. The study was done in the period of 2021-2022. The study was proposed by Dr. I. Paavai, Professor and Head, Department of Periodontics, Priyadarshini Dental College and Hospital, and collaborated with Dr. Roshan, Dr. Priyanka, Dr. Victor, Dr. Sanjay and Dr. Anupama.

The study had the following aim, methodology, results and conclusion.

**Aim:** The aim of this study was to assess, compare and correlate the ability of PCSK9 and IL6 as potential common serum and salivary biomarkers for stage III/IV periodontitis and the risk of developing atherosclerotic cardiovascular disease.

**Methods:** 76 patients were allotted into 4 groups consisting of subjects with clinically healthy periodontium and stage III/IV periodontitis with and without ACVD. Clinical parameters - PD, CAL, number of teeth, PI, mSBI, TC, Tg, HDL and LDL were recorded. Serum and saliva samples were obtained and subjected to ELISA for quantifying the biomarker levels.

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**Results:** The level of these biomarkers was found to be the lowest (IL6 Serum:  $21.92 \pm 14.54$ , IL6 Saliva:  $12.34 \pm 7.72$ , PCSK9 Serum:  $178.82 \pm 35.07$ , PCSK9 Saliva:  $80.82 \pm 25.43$ ) in group I and highest in group IV (IL6 Serum:  $73.4 \pm 24.86$ , IL6 Saliva:  $37.66 \pm 15.77$ , PCSK9 Serum:  $346.54 \pm 45.11$ , PCSK9 Saliva:  $157.72 \pm 43.28$ ). The clinical parameters PI, mSBI, PPD, CAL, total number of teeth, TC, HDL and LDL showed a significant correlation with biomarkers PCSK9 and IL6.

**Conclusion:** This study features the elevation of serum and salivary PCSK9 and IL6 in periodontitis and ACVD. A triad of serum and salivary PCSK9 and IL6 along with the clinical markers of periodontal disease can relatively predict the future risk of developing ACV.

*Paavai*

*\*Siv. P. K. S.*

*\*Siv. P. K. S.*  
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Date: 28/6/2022

**FRONTIER LIFELINE HOSPITAL AND PDCH RESEARCH COLLABORATION  
REPORT**

As a part of research collaboration, Dr. I. Paavai, Professor and Head, Department of Periodontics, Priyadarshini dental college and hospital had worked on a research topic titled "Evaluation of serum and salivary PCSK9 and IL6 and its association with periodontal inflammation and atherosclerotic cardiovascular diseases" with Frontier Lifeline Hospital. The project had collaborative efforts from both institution and Frontier Lifeline Hospital, fostering research culture and exposure to varied set up in research. The sample collection was done in Frontier Lifeline Hospital. The study was done in the period of 2021-2022. The study was proposed by Dr. I. Paavai, Professor and Head, Department of Periodontics, Priyadarshini Dental College and Hospital, and collaborated with Dr. Roshan, Dr. Priyanka, Dr. Victor, Dr. Sanjay and Dr. Anupama.

The aim of this study was to assess, compare and correlate the ability of PCSK9 and IL6 as potential common serum and salivary biomarkers for stage III/IV periodontitis and the risk of developing atherosclerotic cardiovascular disease. 76 patients were allotted into 4 groups consisting of subjects with clinically healthy periodontium and stage III/IV periodontitis with and without ACVD. Clinical parameters - PD, CAL, number of teeth, PI, mSBI, TC, Tg, HDL and LDL were recorded. Serum and saliva samples were obtained and subjected to ELISA for quantifying the biomarker levels. The level of these biomarkers was found to be the lowest (IL6 Serum:  $21.92 \pm 14.54$ , IL6 Saliva:  $12.34 \pm 7.72$ , PCSK9 Serum:  $178.82 \pm 35.07$ , PCSK9 Saliva:  $80.82 \pm 25.43$ ) in group I and highest in group IV (IL6 Serum:  $73.4 \pm 24.86$ , IL6 Saliva:  $37.66 \pm 15.77$ , PCSK9 Serum:  $346.54 \pm 45.11$ , PCSK9 Saliva:  $157.72 \pm 43.28$ ). The clinical parameters

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PI, mSBI, PPD, CAL, total number of teeth, TC, HDL and LDL showed a significant correlation with biomarkers PCSK9 and IL6. Thus, this study features the elevation of serum and salivary PCSK9 and IL6 in periodontitis and ACVD. A triad of serum and salivary PCSK9 and IL6 along with the clinical markers of periodontal disease can relatively predict the future risk of developing ACV.

*Paavai*

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Date: 27.6.22

### FRONTIER LIFELINE HOSPITAL AND PDCH RESEARCH COLLABORATION REPORT

As a part of research collaboration, Dr. I. Paavai, Professor and Head, Department of Periodontics, Priyadarshini dental college and hospital had collaborated work of a research topic titled "Expression of trefoil factor 2 and 3 and adrenomedullin in chronic periodontitis subjects with coronary heart disease" with Frontier Lifeline Hospital. The project had collaborative efforts from both institution and Hospital fostering research culture and exposure to varied set up in research. The procedure and evaluation were done in Frontier Lifeline Hospital. The study was done in the period of 2021-2022. The study was proposed by Dr. I. Paavai, Professor and Head, Department of Periodontics, Priyadarshini Dental College and Hospital, and collaborated with Dr. Jaideep Mahendra, Dr. Sruthi Srinivasan, Dr. Anilkumar, Dr. Nalini, Dr. Ambalavanan, Dr. Little Mahendra, Dr. Janani and Dr. Sanjay M Cherian.

The study was done to determine the expression of trefoil factor 2 (TFF2), trefoil factor 3 (TFF3), and adrenomedullin (ADM) in salivary samples of periodontitis patients with and without coronary heart disease (CHD). A total of 75 patients were selected based on the inclusion and exclusion criteria and divided into three groups of 25 patients each: generalized periodontitis (GP) only; GP+CHD; and CHD only. Demographic, periodontal, and cardiac parameters were recorded, and unstimulated saliva samples were collected and analyzed for the expression of TFF2, TFF3, and ADM. Among the demographic variables, the means for age, weight, and body mass index were significantly different between the groups on statistical analysis. Plaque index, bleeding on probing, probing pocket depth, clinical attachment level, and the expression of TFF2 were highest in the GP+CHD group, and ADM was highest in the CHD group, with P values of  $< 0.01$  as compared to the other groups. TFF2, TFF3, and ADM were also correlated with the demographic and periodontal

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parameters. The study demonstrates significantly elevated levels of TFF2 in CHD and GP patients, and a higher expression of ADM in CHD patients only, suggesting the possibility of an underlying inflammatory mechanism.

*Paavai*

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**Date: 11/2/2022**

**SRI BRAMMA ADS AND PDCH COLLABORATION-STUDENT OBSERVERSHIP  
REPORT**

Interns of PDCH (90 interns) had the opportunity to visit an advertisement agency, SRI BRAMMA ADS as a part of PDCH Interdisciplinary student externship program, on 9.02.2022. They observed and understood the daily operations and workflow of the agency. The interaction with professionals in the field helped them gain insights into current industry practices. They assure to look forward to apply theoretical knowledge acquired in academic settings to practical scenarios. They had an opportunity to closely observe the day-to-day activities and engage with professionals. These interactions were invaluable, allowing them to learn about their roles, responsibilities, and the challenges they face in the field. The professionals generously disclosed all their routine and methodology grabbing people's attention which the student could apply in the field of dentistry. Their organizational structure was well planned and the level of communication and its effectiveness with the customer was commendable. Briefing followed by problem identification, then consumer insight followed solution then execution which is completed by evaluation. To summarize, the observership was a valuable experience that significantly contributed to the students' professional development. The exposure to real-world scenarios, interactions with professional, and the application of academic knowledge have equipped them with a deeper understanding of the agency. The confidence that the skills and insights gained during this observership will positively influence their academic and career pursuits.

*Paavani*

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Date: 12/7/2021

### Maaya multispeciality hospital and PDCH student observership Report

With the great initiative of Dr. S. Balasundaram MDS, Principal and with the support of Dr. Paavai, Chairperson, Research Committee of PDCH a MOU was signed between Priyadarshini Dental College and Hospital and MAAYA SPECIALITY Hospital. As part of this collaboration, an observership Program was initiated for the academic year 2021-22. The program aimed at providing valuable exposure and learning opportunities for CRIs and faculty members from PDCH.

The Observership Program officially commenced on 8th July 2021. 88 Participants, including CRIs and faculty members, were provided with necessary resources such as scrubs and temporary identity card and directed to attend various departments. They were engaged in General ward, Gynaecology ward, CT, X-ray, causality ward, Paediatric ward, OPD, ICU, Blood bank, Dept of Biochemistry, Dept of Microbiology, CSSD, AICU, CCU, and OT and had a chance to interact with some of the medical professionals including Doctors, Nurses and Senior technicians. The participants exposure to various medical departments, coupled with interactions with experienced professionals, created a holistic learning experience. Throughout the Observership Program, participants had the chance to pose questions and engage in meaningful discussions with medical professionals. Participants interacted with patients in the OPD, refining their skills in history-taking, clinical examination, and patient communication. Practical experiences in the blood bank included understanding blood donation, storage, and transfusion procedures, emphasizing the importance of blood safety. Participants were involved in the practical aspects of intravenous (IV) transfusion, learning about the administration of blood and other intravenous fluids. By providing a platform for hands-on learning and interaction with healthcare professionals, this initiative provides overall development of participants.

This dynamic exchange of knowledge enriched their understanding of health science and research. The collaborative initiative facilitated a valuable learning experience for CRIs and faculty members, deeper appreciation for the challenges and advancements in the field. This

*S. Balasundaram*  
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endeavour reflects the commitment of both institutions to advancing knowledge and expertise in the field of health sciences.

*Paavai*

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Date: 28/6/2021

### **FRONTIER LIFELINE HOSPITAL AND PDCH RESEARCH COLLABORATION REPORT**

As a part of research collaboration, Dr. I. Paavai, Professor and Head, Department of Periodontics, Priyadarshini dental college and Hospital worked on a research topic titled “Covid 19 Susceptibility among ABO/RH blood groups in tamilnadu population–A retrospective case control study” with Frontier Lifeline Hospital. The project had collaborative efforts from both institution and hospital fostering research culture and exposure to varied set up in research. The procedure and evaluation were done in Frontier Lifeline Hospital. The study was done in the period of 2020-2021. The study was proposed from the Department of Periodontics, Priyadarshini dental college and hospital under the guidance of Dr. I. Paavai, , Dr.Ayswarya V Vummidi, Dr.Abirami T , and collaborated with Sanjay M Cherian ,Consultant Cardiac Surgeon, Department of Cardiac Surgery, Dr.K.M.Cherian’s Frontier Lifeline Hospital, Chennai, Dr.Arulpari Mahalingam, MDS., Professor, Department of Pedodontics, Thai Moogambigai Dental College and Hospital, Dr.Vineela Katam Reddy, Professor, Department of Periodontology, Indira Gandhi Institute of Dental Sciences.

The study had the aim to analyse the potential susceptibility of Covid - 19 among the blood groups (ABO and Rh type) in Tamil Nadu population. A non-interventional retrospective case control study with 500 patients who tested positive for COVID-19 were taken as the “cases”, while another 500, who tested negative were taken as the “control”. The medical records including the blood group and Rh factor, were collected from Government recognised testing centres (Government medical hospital and Primary health centers, Tiruvallur and Frontier lifeline hospital, Chennai) in Tamil Nadu, whocame for Covid - 19 screening by Reverse Transcriptase Polymerase Chain Reaction (RT-PCR). The data was analysed to associate its correlation with

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different blood groups. The blood group A was shown significantly higher distribution among the cases ( $p = 0.030$ ) and the blood groups O and B were significant among the controls ( $p = 0.026$  and  $0.000$  respectively). Blood group AB did not show any significant differences between the groups ( $p = 0.374$ ). The Odd's ratio for AB, A, O and B group for Rh (positive and negative) were shown to be 0.659, 0.591, 0.472 and 0.262 respectively suggesting increased susceptibility towards Rh positive factor. In the current study, the blood group A was found to be the more susceptible and blood group O to be the least susceptible to Covid - 19 in Tamil Nadu population. Additionally, Rh positive factor showed more inclination towards Covid susceptibility than Rh negative factor. ABO blood group may be considered as a potential non-modifiable and secondary risk factor for Covid - 19 contributing to the disease pathobiology at immunological, biochemical and physiological levels. Still, the intensity of their role and their exact mechanism in its association requires further exploration to validate the current findings.

*Paavai*

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Date: 29/6/2021

**FRONTIER LIFELINE HOSPITAL AND PDCH RESEARCH COLLABORATION  
REPORT**

As a part of research collaboration, Dr. I. Paavai, Professor & Head, Department of Priyadarshini Dental College and Hospital had worked on a research topic titled "ASSOCIATION OF PENTRAXINS IN PERIODONTITIS PATIENTS WITH CARDIOVASCULAR DISEASE" with Frontier Lifeline Hospital, Chennai during 2020-2021. The project had collaborative efforts from both Hospital, promote research culture and exposure to varied set up in research. The study was proposed by Dr. I. Paavai, and collaborated with Ayswarya V Vummidi, Abirami Thanigaimalai, Pavithra H, Little Mahendra., Little Mahendra Sanjay M. Cherian, Jaideep Mahendra, Vasugi Suresh, Arulpari Mahalingam. The study include subgingival and atherosclerotic plaque samples and both the samples were collected only from frontier lifeline hospital.

The study was done to evaluate the association of pentraxin in patients with concomitant periodontitis and CAD. In a case-control study, 240 participants were selected and divided into 4 groups. Non-periodontitis + non-cardiac (NP+NC) = 60 patients, periodontitis + non-cardiac (P+NC) = 60 patients, non-periodontitis + cardiac (NP+C) = 60 patients, periodontitis + cardiac (P+C) = 60 patients. Demographic variables, cardiac and periodontal parameters were recorded. Pentraxin was evaluated in the sub- gingival plaque and atheromatous plaque samples using Real time quantitative polymerase chain reaction (q-PCR) and compared between the groups. The results were statistically analysed. Among the demographic variables, age showed a significant difference between the groups. Systolic and diastolic blood pressure, low density lipoprotein and random blood sugar were significantly higher in NP+C and P+C groups ( $p \leq 0.05$ ). The plaque index, probing pocket depth and clinical attachment loss were significantly higher in P+NC and P+C groups ( $p \leq 0.05$ ). Pentraxin was significantly elevated in P+C group ( $p$ -value=0.000). Pearson's correlation revealed significant correlation between the periodontal parameters and pentraxin in both the cardiac and oral samples. CONCLUSION: PTX3 levels were elevated in coronary artery disease patients with periodontitis suggesting the influence of periodontal inflammation in the progression of CAD. PTX3 may serve as a





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diagnostic and prognostic tool for both periodontitis and CAD. This study could provide an understanding and awareness about the potential role of PTX3 in both periodontitis and CAD.

*Pavani*

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Date: 21/4/21

**Vdent dental lab and PDCH Collaboration-student observership report**

The Interns of Priyadarshini Dental College and Hospitals (25 interns) had a very good opportunity to visit VDENT LAB through the PDCH Interdisciplinary student externship program on 19-04-2021.

The Interns of Priyadarshini Dental College and Hospital were heartily welcomed and guided by the technical team members at the VDENT LAB. Later the students were allowed to have a look into the work where they were given an insight on the procedural steps on rotations. Students have been shown the importance of quality of work and time management to improve the management. Technicians also have direct access to patients rather than just receiving the impressions and paperwork from the dentist. Another benefit is shorter treatment time. Industrial Internship was served as an active learning platform and allowed the students to Improve their knowledge practically and theoritically as well.



Students were engaged actively to ask questions and to clear their due doubts then and there and





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everybody engaged in discussions with experts and faster passion. The ambience and the experience of witnessing such vast variety of instruments and techniques and works used in the lab was absolutely amazing.

Students have got a positive hope and knowledge for further opportunities ahead. V DENT LAB had been a helpful platform to make the Interns know the importance and its scope in the future.

This invaluable experience and knowledge will indubitably shape the future careers and encourage the students to enroll themselves much more.

*Paavai*

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Date: 21/10/20

### Vdent Dental Lab and PDCH Collaboration – Student Observership Report

The Interns of Priyadarshini Dental College and Hospitals (24 interns) had a very good opportunity to visit VDENT LAB through the PDCH Interdisciplinary student externship program on 19-10-2020. The Interns of Priyadarshini Dental College and Hospital were heartily welcomed and guided by the technical team members at the VDENT LAB. Later the students were allowed to have a look into the work where they were given an insight on the procedural steps on rotations. Students have been shown the importance of quality of work and time management to improve the management. Technicians also have direct access to patients rather than just receiving the impressions and paperwork from the dentist. Another benefit is shorter treatment time. Industrial Internship was served as an active learning platform and allowed the students to Improve their knowledge practically and theoretically as well.







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Students were engaged actively to ask questions and to clear their due doubts then and there and everybody engaged in discussions with experts and faster passion. The ambience and the experience of witnessing such vast variety of instruments and techniques and works used in the lab was absolutely amazing.

Students have got a positive hope and knowledge for further opportunities ahead. VDENT LAB had been a helpful platform to make the Interns know the importance and its scope in the future.

This invaluable experience and knowledge will indubitably shape the future careers and encourage the students to enroll themselves much more.

*Paavi*

*Principal*  
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26/6/2020

**FRONTIER LIFELINE HOSPITAL AND PDCH RESEARCH COLLABORATION  
REPORT**

As a part of research collaboration, Dr. I. Paavai, Professor & Head, Department of Priyadarshini Dental College and Hospital had worked on a research topic titled "ASSOCIATION OF PERIODONTAL VIRUSES IN PERIODONTITIS PATIENTS WITH CARDIOVASCULAR DISEASE" with Frontier Lifeline Hospital, Chennai during 2018-2019. The project had collaborative efforts from both Institutions and Hospital, promote research culture and exposure to varied set up in research. The study was proposed by Dr. I. Paavai and collaborated with Sanjay M. Cherian, Jaideep Mahendra, Vasugi Suresh, Arulpari Mahalingam, V. Vinoth Khanna. The sample collection (subgingival and atherosclerotic plaque samples) was completely done in frontier lifeline hospital.

The study had the following objectives, methodology, results and conclusion.

**OBJECTIVES:** Evaluating the prevalence of Epstein-Barr virus (EBV), cytomegalovirus (CMV), and herpes simplex virus (HSV) in periodontitis and/or coronary artery disease (CAD) patients to compare with their healthy controls and insist their significance in the same.

**METHODOLOGY:** 240 patients were divided into 4 groups. Non-periodontitis+non-cardiac (NP+NC), periodontitis+non-cardiac patients (P+NC), non-periodontitis+cardiac patients (NP+C), and periodontitis+cardiac (P+C). Each group 60 patients. Demographic variables, cardiac and periodontal parameters were recorded. EBV, CMV, and HSV were evaluated in the subgingival plaque samples using RT-PCR. Did Student's t-test, Pearson's chi-square, Turkey post hoc analysis, and multiple logistic regression analysis.

**RESULTS:** The demographic variables did not differ significantly between the groups, except for age. SBP, DBP, low-density lipoprotein, and RBS were significantly higher in NP+C and P+C. The PI, PPD, and CAL were significantly higher in P+NC and P+C. EBV and CMV were significantly higher in the two periodontitis groups P+NC and P+C. HSV was significantly higher in the two cardiac groups (NP+C and P+C).

**CONCLUSION:** The study concluded that higher prevalence of EBV and CMV was found in groups with periodontitis patients. This indicates the significant role of the viruses in

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periodontitis as confirmed by association between EBV and CAL. The viruses were said to be highest in periodontitis patients with CAD.

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### TANUVAS and PDCH RESEARCH COLLABORATION REPORT – 19.3.2020

The study titled “Evaluation of pentraxins in periodontitis patients associated with cardiovascular diseases” was done by Dr. Paavai. I, Professor, Department of Periodontics during the period of 2019-20. The molecular analysis of this study was done in Tamilnadu Veterinary and Animal science University, Vepery, Chennai (TANUVAS).

The study included subgingival and atherosclerotic plaque samples (coronary artery bypass graft surgery) which were processed using q-PCR (Real time quantitative polymerase chain reaction) for the detection of Pentraxin-3. Total cellular RNA was extracted from tissue samples using Trizol reagent. Relative levels of pentraxin mRNA were assessed by qPCR employing SYBR green. The primers for pentraxin-3 were designed in genomic position of 5806. (Forward primer: CGAAATAGACAATGGACTCCATCC, Reverse primer: CTCATCTGCGAGTTCTCCAGCA).



  
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This Procedure was done with the help of Mr. Vinodh, who is employed as a senior research fellow in TANUVAS. The complete step by step procedure with a clear explanation was given by the senior research fellow. Hands on experience was also gained in RT-PCR analysis.

Thus, this collaboration helped to expose the faculty and students to new methodologies, perspectives and technologies.

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Date: 16.8.2019

### **Maaya Multispeciality hospital and PDCH collaboration - Industry Internship Report**

The Interns of Priyadarshini Dental College and Hospital (82 interns) had a very good opportunity to visit MAYA HOSPITAL through the PDCH Interdisciplinary student externship program on 13-08-2019.

Student observerships at Maya Hospital are important as they provide students with a firsthand look into the daily operations of a healthcare facility. Observing professionals in action helps students bridge the gap between theoretical knowledge and practical application. It allows them to witness different medical scenarios, understand the dynamics of patient care, and gain insights into the complexities of the healthcare system. This experience not only enriches their understanding of their chosen field but also helps in developing crucial observational and interpersonal skills essential for their future roles in the healthcare industry. Visiting Maya Hospital for academic learning offers students several benefits. It provides real-world context to theoretical knowledge, helping students apply classroom concepts in a practical setting. Exposure to clinical environments at Maya enhances their understanding of medical practices, patient care, and the challenges faced in healthcare. This recognition serves as a valuable addition to their academic and professional portfolio, enhancing their credibility as emerging healthcare professionals. The interactions foster a collaborative learning environment, allowing students to observe and learn from experienced practitioners. Additionally, engaging with patients during the internship enhances students' communication skills, empathy, and cultural competence. Take advantage of the opportunities for hands-on experience and make the most of this enriching environment for students to further your knowledge and skills.

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## RESEARCH COLLABORATION REPORT – 18.6.2019

As a part of research collaboration, Ms. Vanessa Ravel, CRI, Priyadarshini dental college and hospital had collaborated work of a research topic titled “Evaluation of anti-bacterial activity of lemongrass oil against oral clinical isolates – an invitro study” with Saveetha Dental College and Hospital. The project had collaborative efforts from both institutions, fostering research culture and exposure to varied set up in research. The in-vitro procedure and evaluation were done in Saveetha Dental College and Hospital. The study was done in the period of April to June 2019.

The study was proposed from the Department Of Periodontics, Priyadarshini Dental College And Hospital under the guidance of Dr. I. Paavai, Dr. V. Vasanth Ayswarya, Dr. Veejai Chandran and collaborated with Dr. P. Muralidharan, Professor, Department of Microbiology in Saveetha Dental College And Hospital. The study had the following aim and methodology.

**Aim:** To comparatively evaluate the antibacterial activity of lemongrass essential oil with tetracycline against *Streptococcus mutans*, *Staphylococcus epidermidis* and *Lactobacillus* and to determine the minimal inhibitory concentration of lemongrass essential oil.

**Method:** It is an *in vitro* study done to demonstrate the antimicrobial activity of lemongrass against the oral microbes. Based on their involvement in various clinical conditions Streptococcus mutants, Staphylococcus epidermis and Lactobacillus were selected for the study. These organisms were inoculated to a solid media and incubated overnight aerobically at 37°C to obtain a pure culture. The culture was made as a suspension in sterile saline with the turbidity matching 0.5 Macfarland standard. This is used to make a lawn culture on the Mueller Hinton Agar. Antimicrobial effect of tetracycline was tested using standard disc of doxycycline 30 mcg (Himedia, SD012) and sterile disc was used to prepare lemongrass essential oil which contained 10 µl, 15 µl and 20µl. In each category 5 discs were tested to get a mean zone of inhibition. After 24 hours of incubation the zone of inhibition was measure in mm using a scale. The measured zone size was tabulated and compared among the groups.

**Expected outcome:** The antibacterial activity of lemongrass essential oil may be better than tetracycline against *Streptococcus mutans*, *Staphylococcus epidermidis* and *Lactobacillus*

  
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**Date: 18.6.2019**

**SANKARA NETHRALAYA REFERRAL LABORATORY AND PDCH RESEARCH  
COLLABORATION REPORT**

Priyadarshini Dental College and Hospital was privileged to be in collaboration with Sankara Nethralaya Referral Laboratory for research analysis and experimentation during the period of 2018-19. After a proper permissions and approvals from the concerned authorities including the research director and adherence to strict laboratory safety protocols, viral positive control DNA for cytomegalovirus, Herpes simplex virus and Epstein Barr virus in a appropriate quantity based on the requirements of the research project were collected. Later, the positive control samples were labelled with relevant information, including date, time and any other necessary identifiers to facilitate seamless tracking and identification across collaborating institutions. Standard operating procedures of the lab was explained in detail and ensured a sterile environment during sample collection to prevent contamination.

Elaborate explanation on the importance of documentation was given and the relevant details were recorded and documented the collection data, time, location and other specific observations during the process. The sample was handled carefully to preserve the characteristics for accurate analysis. Different temperature and environmental controls along with its significance in the study was briefed in detail. Thus, the sample collection process was carried out systemically, following established protocols and safety measures.

This report outlines the collaborative effort involved in collecting the positive control from Sankara Nethralaya Referral Laboratory as part of joint research initiative.

The collaborative sample collection process was executed with precision and adherence to standardised protocols. The joint effort enhances the credibility and reliability of the collected sample, providing a productive and synergistic research collaboration between both the organisations.

  
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## Priyadarshini Dental College & Hospital

(Approved by Govt. of India & DCI - New Delhi & Affiliated to the Tamilnadu Dr. MGR Medical University, Chennai - 32)



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**TANUVAS and PDCH research collaboration report – 14.6.2019**

The study titled “Evaluation of periodontal viruses in periodontitis patients associated with cardiovascular diseases” was done by Dr. Paavai. I, Reader, Department of Periodontics during the period of 2018-19. The molecular analysis of this study was done in Tamilnadu Veterinary and Animal science University, Vepery, Chennai (TANUVAS). The study included RT-PCR analysis (Reverse transcriptase polymerase chain reaction) to synthesize cDNA (template) and to detect the presence of periodontal viruses. Total cellular RNA was extracted from tissue samples using Trizol reagent. The cDNA was synthesized from the extracted RNA using a cDNA synthesis kit. Primers for EBV were designed in the BNLF2b gene region (GenBank: AP015016.1) encompassing the genome position from 167796 to 167500 (Forward primer: GAACAAGGCCAAGAAGGA, Reverse primer: CAGGGACAACAGGTCAAA). Primers for CMV were designed in the RL1 gene region (GenBank: AY446894.2) encompassing the genome position from 1367-2299 (Forward primer: GGACCAACACACGTTACC, Reverse primer: CC TCGCCTATGTTGTGAAG). Primers for HSV were designed based on literature evidence. Agarose gel electrophoresis was done and the documentation of the gel image was done.



*Pravali*  
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This Procedure was done with the help of Ms. Nanci, who is employed as a senior research fellow in TANUVAS. The complete step by step procedure with a clear explanation was given by the senior research fellow. Hands on experience was also gained in RT-PCR analysis.

Thus, this collaboration helped to expose the faculty and students to new methodologies, perspectives and technologies.

*Nanci*

*H.K. Venkat Prasad*

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**BLS TRAINING 2018-19**

**REPORT**

To prepare the faculty for emergency, department of Oral and Maxillofacial Surgery of Priyadarshini Dental College and Hospital organised a workshop on 'Basic Life Support' on 12/07/2018. Dr. Eswar, MDS, Reader, Department of Oral and Maxillofacial Surgery, CKS Theja Dental College & Hospital was the resource person. All the teaching faculty attended the workshop. The program was invocated with Tamil Thai vazthu.

Dr. T. Sridhar, Professor and Head, Department of Oral Medicine and Radiology welcomed the gathering and introduced the resource person Dr. Eswar. Dr. M. K. Venkat Prasad, Dean and Dr. H. Srinivasan, professor and Head Department of Oral and Maxillofacial Surgery felicitated the resource person Dr. Eswar.

Later a lecture on "BASIC LIFE SUPPORT" was presented with valuable insights of the resource person followed by demo and training. Faculty were trained on performing adult and paediatric CPR. The resource person clarified all the queries of the faculty and told timely action is most important as every minute counts. Dr. M. K. Venkat Prasad, Dean honoured Dr. Eswar with a memento. Dr. R. Veera kumar, Professor and Head, Department of Pediatric and Preventive Dentistry presented the certificate of appreciation to Dr. Eswar. Dr. Bharathi, Department of Oral and Maxillofacial Surgery, proposed the vote of thanks. The program concluded with National Anthem.

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