

4.2.3. Average number of students per year exposed to learning resource such as Laboratories, Animal House & Herbal Garden (in house OR hired) during the last five years.



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Detailed report of activities and list of students benefitted due to exposure to learning resource

In Department of Conservative Dentistry and Endodontics, preclinical lab is equipped with 60 mannequins in 2500 square feet. The students are trained in preclinical works like Class I and Class II Cavity preparation exercises in plaster model and in typhodont teeth.

In Conservative-Dental materials lab, students are trained for dental amalgam trituration, manipulation of zinc phosphate cement, zinc oxide eugenol cement, type I and II glass ionomer cement.

The Lab available for Oral and Maxillofacial Surgery Department, the students are taught in intermaxillary fixation using Erich's Arch Bar, Ivy – Eyelet Wiring and also trained for suturing like simple interrupted, simple continuous, locking continuous, vertical mattress, horizontal mattress and figure of 8 sutures.

In Orthodontics Department, the preclinical lab is sprawled over 1500 sq. ft. Students are trained in basic wire bending, clasps, labial bows, springs, retractors, Hawley's appliances, inclined plane, activator, oral screen and lip bumpers.

In Department of Pedodontics and Preventive Dentistry, preclinical lab is sprawled over 1500 sq. ft. The students are taught in basic wire bending, space maintainer, upper Hawley's appliance with palatal crib, lower inclined plane, oral screen and in cavity preparations.

In Prosthodontics Department, preclinical lab is sprawled over 3500 square feet with 60 mannequins. Students are trained to do cubes in dental plaster and stone, maxillary and mandibular edentulous models, to draw anatomical landmarks in maxillary and mandibular cast, special tray in acrylic resin, denture base, shellac – base plate of maxilla and mandible, occlusal rim, teeth setting, RPD- Kennedy's classification (from class I – class IV) model, acrylization of complete denture and repair work of maxillary or mandibular denture.

In Prosthodontics-Dental Materials lab, the students are taught for manipulations of alginate, resin, Zinc oxide eugenol, Dental stone, plaster of paris, impression compound and impressions on model.

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In Department of Oral and Maxillofacial Pathology and Oral Microbiology, the students are trained to do wax carving of cube, pyramid and cylinder. Also, they are taught to carve permanent tooth in wax block in natural tooth size, trained to do age assessment in mixed dentition cast and also view & draw oral histology slides.

All the above laboratory practices and training help the students to improve their skills and to gain confidence and stability in clinical work.

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DETAILS OF LABORATORIES: ORAL MEDICINE AND RADIOLOGY

1. Dental chairs
2. RVG with intra oral radiography machine (FDA Approved)
3. Extra oral radiography machine
4. Panoramic radiography machine with cephalometric & TMJ attachment with printer
5. Pulp tester
6. Pulp tester
7. Autoclave
8. Punch biopsy tool and biopsy equipment
9. Surgical trolley and Emergency medicines kit
10. Extra oral cassettes with intensifying screens (Conventional and rare earth)
11. Lead screens, Lead aprons and Lead gloves
12. Radiographic filters (Conventional and rare earth)
13. Dark room with safe light facility
14. Automatic radiographic film processors
15. Radiographic film storage lead containers
16. Thyroid collars
17. Digital sphygmomanometer
18. Digital blood glucose tester
19. Digital camera
20. X-ray viewer boxes
21. Illuminated mouth mirror and probe
22. Computer, LCD projector, Refrigerator

ORAL & MAXILLOFACIAL SURGERY

1. Dental Chairs and Units
2. Autoclave
3. Fumigators

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4. Oscillating saw
5. Surgical instrument kit
6. Distraction osteogenesis kit
7. Piezoelectric unit
8. Magnifying loops
9. Dermatomes
10. Needle destroyer
11. Ultrasonic Cleaner capacity 3.5 lts
12. Formalin chamber
13. Pulse oxymeter
14. Ventilator
15. Life support equipments
16. Fiber optic light
17. in-patient beds
18. Fiber optic laryngoscope
19. Computer, LCD projector and Refrigerator

ORAL AND MAXILLOFACIAL PATHOLOGY

DENTAL ANATOMY, EMBRYOLOGY AND ORAL HISTOLOGY LABORATORY

1. Microscopes

ORAL PATHOLOGY FOR HISTOPATHOLOGY

1. Dental chairs
2. Surgical kit for biopsy and Biopsy processing equipment
3. Tissue embedding cassettes
4. Wax bath
5. Leuckhart pieces

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6. Block holders
7. Microscopes
8. Microtome
9. Hot air oven
10. Hot water bath
11. Slide warming table and steel racks for staining
12. Computer, LCD, Refrigerator
13. Tissue processing unit

DEPARTMENT OF PROSTHODONTICS AND CROWN & BRIDGE
PRE CLINICAL PROSTHODONTIC AND CROWN & BRIDGE LABORATORY

1. Dry lab – Bunsen burner with gas and lathe
2. Wet lab – Acryliser or Dewaxing unit, model trimmer, lathe, vibrator

EQUIPMENTS IN THE DEPARTMENT INCLUDING CASTING AND CERAMIC LABORATORY

1. Electrical Dental Chairs and Units
2. Articulators – semi adjustable/ adjustable with face bow
3. Micromotor
4. Ultrasonic scaler
5. Light cures
6. Hot air oven
7. Autoclave (front loading)
8. Surveyor
9. X-ray viewer
10. Pneumatic, Crown bridge remover
11. Needle destroyer


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12. Intraoral camera and digital SLR camera
13. Computer, LCD projector and Refrigerator
14. Plaster dispenser
15. Model trimmer with carborandum Disc
16. Model trimmer with diamond disc
17. High speed lathe
18. Vibrator
19. Acrylizer
20. Dewaxing unit
21. Hydraulic press
22. Mechanical press
23. Vacuum mixing machine
24. Micro motor lab type
25. Curing pressure pot
26. Pressure molding machine
27. Chrome-cobalt lab equipment
28. Ceramic lab equipment
29. Implant equipment

DEPARTMENT OF PEDIATRIC AND PREVENTIVE DENTISTRY

1. Dental chair and units
2. Extraction forceps, pliers
3. Radiovisiography (RVG)
4. Apex Locator
5. Digital Pulp Tester
6. Autoclave
7. Ultrasonic cleaner
8. Needle destroyer


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9. Formalin chamber
10. X-ray viewer
11. Amalgamator
12. Rubber dam kit pedo
13. Typhodonts
14. Endomotor
15. Magnifying loupes
16. Conscious sedation unit
17. Pulse oximeter
18. phantom head table with attached light, airotor and micromotor
19. Injectable gutta percha
20. Endodontic pressure syringe
21. Glass bead sterilizer
22. Intraoral camera
23. Automatic developer
24. Computer, LCD projector and refrigerator
25. Plaster dispenser
26. Model trimmer with diamond disc and carborundum disc
27. Spot Welder with soldering attachments
28. Soldering unit
29. Vibrator
30. Acryliser
31. Lab micromotor
32. Dental lathe
33. Model trimmer
34. Steam cleaner
35. Pressure moulding machine
36. Carborundum disc and diamond disc

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DEPARTMENT OF CONSERVATIVE DENTISTRY & ENDODONTICS

PRE-CLINICAL CONSERVATIVE DENTISTRY LABORATORY

1. The preclinical phantom lab is equipped with 110 phantom models with airtor and micromotor facilities.

EQUIPMENTS IN THE DEPARTMENT INCLUDING CASTING AND CERMIC LABORATORY

1. Dental Chairs and Units
2. Endodontic handpieces – Micro endosonic Tips, retro treatment
3. Mechanized rotary instruments including hand pieces (speed and torque control) and hand instruments various systems
4. Rubber dam kit
5. Autoclaves for bulk instrument sterilization vacuum (Front loading)
6. Autoclaves for hand piece sterilization
7. Apex locators
8. Pulp tester
9. Multiple Sets of hand cutting instruments
10. Sterilizer trays for autoclave
11. Ultrasonic cleaner capacity 3.5 lts
12. Variable Intensity polymerization equipments - VLC units
13. Conventional VLC units
14. Needle destroyer
15. Magnifying loupes
16. LCD projector
17. Composite kits with different shades and polishing kits
18. Amalgam finishing kits
19. RVG with x-ray machine developing kit
20. Chair side micro abrasion


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21. Bleaching unit
22. Lathe
23. Anatomical articulator, Free Plane Articulators, Hinge Articulators

DEPARTMENT OF PERIODONTICS

1. Dental Chairs and Units
2. AutoClave
3. Steel bin
4. UV chamber
5. Formalin chamber
6. WHO Probe, Nabers Probe, Williams Probe, Newman's Probe, GoldManFoxProbe, Marquiscolor coded Probe, pressure sensitive probe
7. Supragingival scalers and Subgingival scalers
8. Arkansas stone
9. Surgical Instrument kit – Electrosurgery unit and laser
10. Special Surgical Instruments
11. Surgery Trolleys
12. Implant instruments

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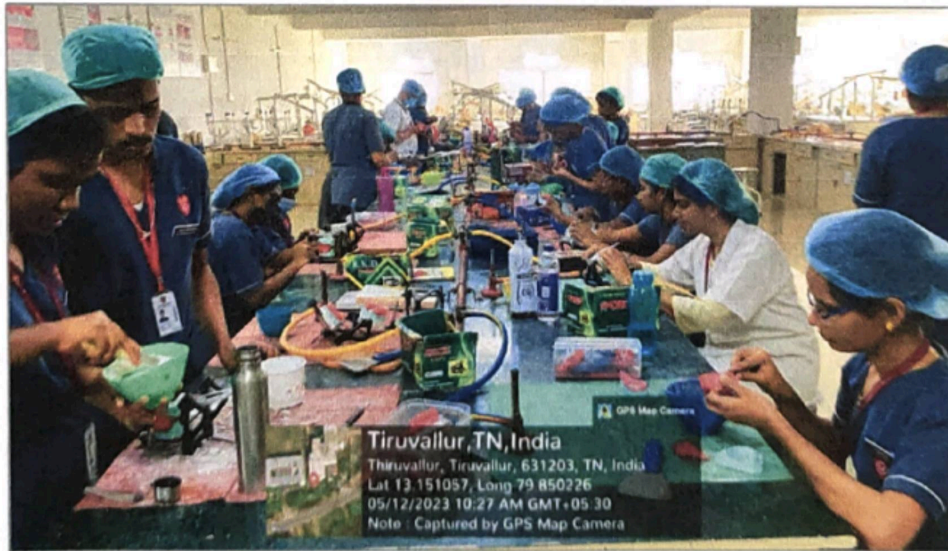
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LABORATORY	YEAR OF STUDY
PRECLINICAL PROSTHODONTICS AND CONSERVATIVE DENTISTRY	BDS & MDS



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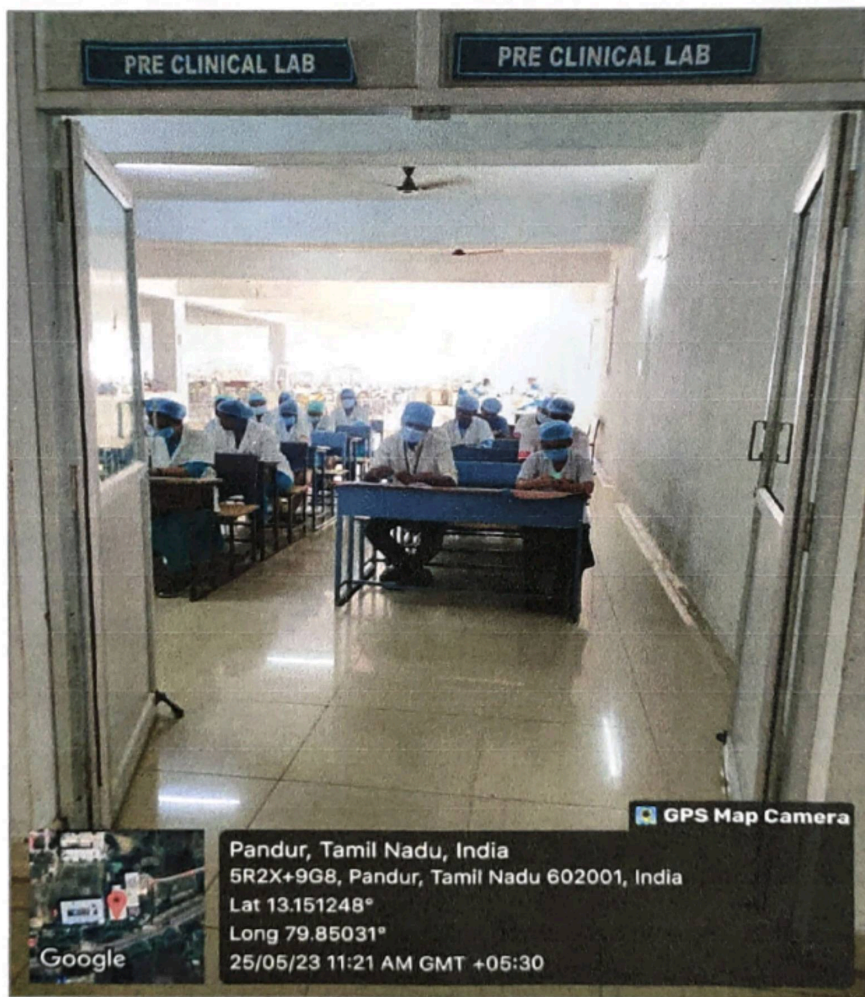
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LABORATORY	YEAR OF STUDY
PRECLINICAL PEDODONTICS & ORTHODONTICS	BDS & MDS



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HERBAL GARDEN ACTIVITIES

The Green Committee of Priyadarshini Dental College has developed and maintained a Herbal Garden with necessary herbal plants (**Basil:** *Ocimum sanctum*, **Turmeric:** *Curcuma longum*, **Aloe Vera:** *Aloe barbadensis*, **Nem:** *Azadirachta indica*, **Ginger:** *Zingiber officinale*). This herbal garden not only adds aesthetic appeal to our surroundings but also provides a plethora of benefits. Herbal garden contributes to conservation efforts by preserving endangered or rare plant species, ensuring their survival for future research endeavors.

Overall, these green spaces provide a dynamic and holistic platform for interdisciplinary research. The institutional herbal garden is well maintained and upgraded on a regular basis with new varieties. Frequent competitions are organized pertaining to herbal gardening to instill interest among students. This provides an opportunity for the students and staff members to carry out more research works.

The students of second year learn how to use plants with medicinal purposes for the making of dentrifices in the pharmacology laboratory. The CRI students along with staffs members are benefitted by herbal garden for conducting various research activities.

The following research papers were published by the students and staff members of PDCH in the field of herbal dentistry:

1. Ramamurthy S, Thiagarajan K, Varghese S, Kumar R, Karthick BP, Varadarajan S, Balaji TM. Assessing the In Vitro Antioxidant and Anti-inflammatory Activity of Moringa oleifera Crude Extract. J Contemp Dent Pract. 2022 Apr 1;23(4):437-442. PMID: 35945838.
2. Senthilnathan K, Ilango P, Abirami T, Vummidi VA, Mahalingam AP, Reddy VK. Evaluation of antibacterial activity of Nigella sativa seed extract against Porphyromonas gingivalis and Prevotella intermedia. Journal of Interdisciplinary Dentistry. 2020 May 1;10(2):51-5.
3. Senthilnathan K, Ilango P, Abirami T, Vummidi VA, Mahalingam AP, Reddy VK.

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- Evaluation of antibacterial activity of *Nigella sativa* seed extract against *Porphyromonas gingivalis* and *Prevotella intermedia*. *Journal of Interdisciplinary Dentistry*. 2020 May 1;10(2):51-5.
4. Rudhra K, Ilango P, Chandran V, Abirami T, Vummidi AV, Mahalingam A. An in vitro evaluation of curcumin oral gel antimicrobial efficacy against *Porphyromonas gingivalis* and *Prevotella intermedia*. *Drug Invention Today*. 2020 Jan 1;13(1).
 5. Ilango P, Suresh V, Vummidi AV, Ravel V, Chandran V, Mahalingam A, Reddy VK. Evaluation of antibacterial activity of lemongrass oil against oral clinical isolates—an in vitro study. *Pharmacognosy Journal*. 2019;11(5).


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PHOTOGRAPHS OF HERBAL GARDEN ACTIVITIES



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PHOTOGRAPHS OF HERBAL GARDEN ACTIVITIES



Principals
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PHOTOGRAPHS OF HERBAL GARDEN ACTIVITIES



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ANIMAL HOUSE FACILITY

An institutional animal house facility serves as a crucial hub for scientific research involving animals. These facilities adhere to strict regulations and ethical standards to ensure the well-being of the animals housed within them. The primary purpose of an animal house is to provide a controlled environment where researchers can study various aspects of animal biology, behavior, and physiology.

These facilities typically feature specialized areas tailored to the specific needs of different species. This includes climate-controlled rooms, cages or enclosures designed to mimic natural habitats, and veterinary care units staffed by trained professionals. Animal house facilities also prioritize hygiene and cleanliness to prevent the spread of disease and maintain the health of the animals.

Institutional animal house facilities play a vital role in advancing scientific knowledge and medical breakthroughs. Through careful management and ethical oversight, these facilities strive to minimize harm to animals while maximizing the potential benefits of research for both human and animal health.

PDCH has a collaboration activity with **Tamil Nadu Veterinary and Animal Sciences University (TANVAS)** and Memorandum of Agreement with **Saveetha Dental College and Hospitals**. The students of PDCH undergo rigorous training on animal handling and welfare practices in the above-mentioned institutions.

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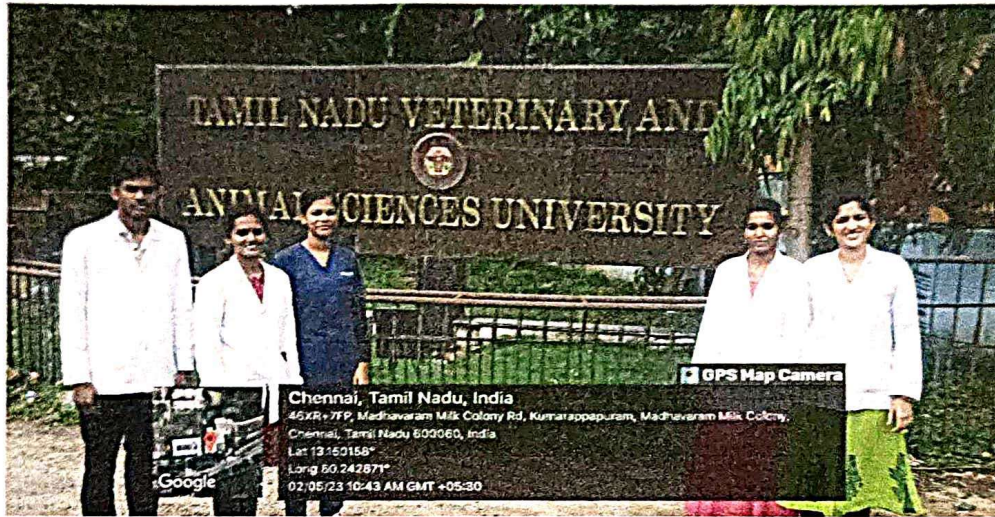
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ANIMAL HOUSE ACTIVITIES



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(Approved by Dental Council of India, New Delhi & Affiliated to The Tamilnadu Dr. M.G.R Medical University, Chennai - 32.)

ANIMAL HOUSE ACTIVITIES



[Signature]
PRINCIPAL
PRIYADARSHINI DENTAL COLLEGE AND HOSPITAL,
PANDUR - 631 203.
THIRUVALLUR TK & DIST, TAMIL NADU.

Managed by Indira Education and Charitable Trust

Redg Off: No. 19, Govindan street, Ayyavoo colony, Aminjikarai, Chennai - 600029.
Tel: 044 2374 1616/1717/1818/1919

Campus Off: No.1, V.G.R Gardens, V.G.R Nagar, Pandur - 631203. Thiruvallur.
Tel: 044-2765 0160 / 16 Mobile: 98417 35858. PDCH.IN

Priyadarshini Dental College & Hospital

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

ANIMAL HOUSE COLLABORATION REPORT - 5.6.2018

This collaboration report highlights the successful partnership between Priyadarshini Dental College and Hospital, Thiruvallur and Tamil Nadu Veterinary and Animal Sciences University (TANUVAS), Chennai which is aimed at providing Animal House facility for the research purpose. The collaboration commenced from 5th June 2018 focus on joint research projects, knowledge exchange, and community engagement.

Objectives:

1. To provide animal house exposure to the students of Priyadarshini Dental College and Hospital, Thiruvallur.
2. To provide research opportunities to the students of Priyadarshini Dental College and Hospital, Thiruvallur.
3. To provide shared laboratory facilities and equipment for comprehensive studies.
4. To conduct joint workshops on cutting-edge research methodologies relates to clinical trial.

Conclusion:

The collaboration between Tamil Nadu Veterinary and Animal Sciences University (TANUVAS), Chennai and Priyadarshini Dental College and Hospital, Thiruvallur has resulted in significant advancements in research, impactful community engagement, and mutual growth. The successful outcomes underscore the potential for sustained collaboration in the future.

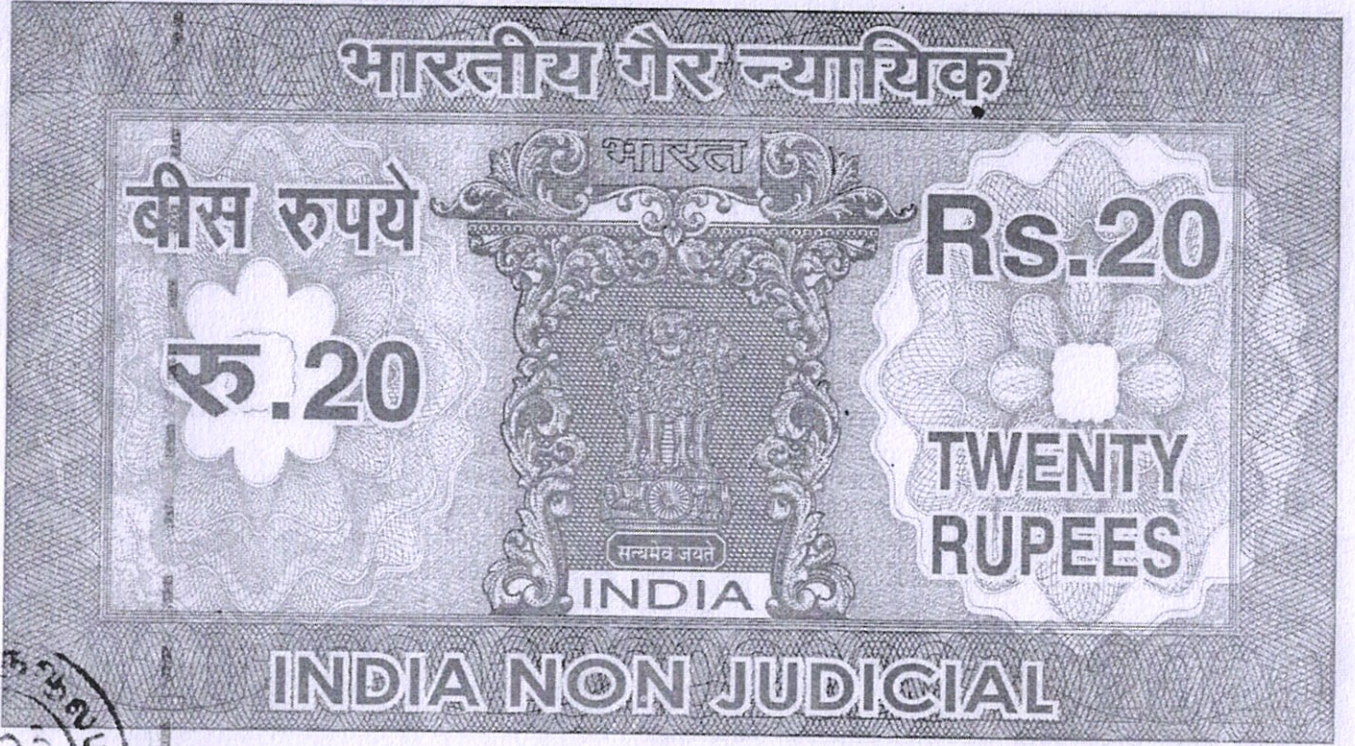
**DIRECTOR OF RESEARCH,
TAMIL NADU VETERINARY AND
ANIMAL SCIENCES UNIVERSITY
(TANUVAS),
CHENNAI- 600051**

**PRINCIPAL,
PRIYADARSHINI DENTAL COLLEGE
AND HOSPITAL,
PANDUR- 631203**

**PRINCIPAL
PRIYADARSHINI DENTAL COLLEGE & HOSPITAL,
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TAMIL NADU**

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INDIA NON JUDICIAL

தமிழ்நாடு தமில்நாடு TAMIL NADU 16 JUN 2023 24AC 131619

MEMORANDUM OF UNDERSTANDING
ON ACADEMIC
AND
RESEARCH COOPERATION

C. Thirumohan
STAMP VENDOR
L. No. 109/B4/88-9
HIGH COURT CAMPUS
CHENNAI-600 10

BETWEEN
PRIYADARSHINI DENTAL COLLEGE AND HOSPITALS, PDCH, INDIA
AND
SAVEETHA DENTAL COLLEGE AND HOSPITALS, SIMATS, INDIA

Priyadarshini Dental College and Hospitals hereinafter referred to as PDCH and, Saveetha Dental College and Hospitals hereinafter referred to as SIMATS considering their common interest in promoting the mutual cooperation in the area of education and research wish to expand the basis for friendship and cooperative educational exchange, agreed the following Memorandum of Agreement (MOU):

Article I: Purpose

The purpose of this MOU is to develop strong Collaboration in Academics and Research between two institutions.

C. Thirumohan

C. Thirumohan
PRINCIPAL
PRIYADARSHINI DENTAL COLLEGE & HOSPITAL,
PANDUR - 631 203,
THIRUVALLUR TK & DIST. TAMIL NADU

[Signature]

Article II: Scope of the Cooperation

Both parties undertake to promote and develop academic cooperation as follows:

1. Exchange of academic and administrative staff and students.
2. Extension of students' learning opportunities.
3. Cooperation in research and the presentation of its results.
4. Exchange of academic materials, publications and other scientific information.
5. Other educational and academic exchanges to which both universities agree.
6. Organize joint symposia, workshops, conferences and short term refresher courses
7. Conduct long term and short term developmental programs on topics of mutual interest.

Article III: Financial Arrangement

1. Both parties agree that all specific arrangements and plans for activities are to be negotiated and are dependent on the availability of funds.
2. Both parties agree to feasibly seek financial support from national and international organizations for the cooperative activities to be undertaken as stated under the terms of this MOU.

Article IV: Agreement of Implementation

A detailed description of the scope of activities shall be defined in the Agreement of implementation, which constitutes an integral part of this MOU

The Agreement of Implementation will include such items as:

1. Elaboration of the responsibilities of each institution for the agreed activities.
2. Schedules for specific activities.
3. Budgets and financial sources for each activity.
4. Any other items deemed necessary for the efficient management of the activities.

Article V: Intellectual Property Rights and Publication

1. The parties will share all data and research findings, and respect patent rights, copyrights, and other intellectual property rights regarding any discoveries, inventions and products resulting from this MOU.
2. Both parties must give written approval for the utilization and publication of the data and research findings.
3. Detailed arrangement of finding and their Intellectual Property Rights and Publication shall be defined in the Agreement of Implementation.

Article VI: Settlement of Differences

The differing viewpoints and interpretations of this MOU shall be settled amicably by mutual consultation or negotiation.

Article VII: Amendments, Duration and Termination

1. Amendments to this MOU can only be made by mutual consent for the two parties.
2. This MOU shall be in effect from the date of its signature and be valid for the duration of five (5) years from that date, and will be automatically renewed on an annual basis thereafter, unless terminated or replaced with a new MOU.
3. This MOU may be terminated by either party by written notice at least six (6) months prior to the termination date. Such notice of termination will not interfere with cooperative programs currently underway. Such programs will be allowed to continue until their conclusion.

Signature

Signature
2
PRINCIPAL
PRIVADARSHINI DENTAL COLLEGE & HOSPITAL,
PANDUR - 631 203.
THIRUVALLUR TK & DIST. TAMIL NADU

Signature

This MOU is prepared in English and in Two (2) copies. Copies shall be deemed as authentic ones, either of which be kept by each party. As witness to their consent this MOU, the appropriate authorities hereto provide their signatures:

Effective Date: _____

In Witness thereof, the parties have caused this MOU to be signed in their respective names as of the date first mentioned above.

Accepted by:

**PRIYADARSHINI DENTAL COLLEGE
AND HOSPITAL**

Accepted by:

**SAVEETHA INSTITUTE OF MEDICAL
AND TECHNICAL SCIENCES**

Dr. B. Sivapathasundharam
Dr. B. SIVAPATHASUNDHARAM

Title: PRINCIPAL

PRINCIPAL
PRIYADARSHINI DENTAL COLLEGE & HOSPITAL,
PANDUR - 631 203.

WITNESSES: THIRUVALLUR TK & DIST. TAMIL NADU.

Dr. Sheeja S. Varghese
Dr. SHEEJA S. VARGHESE

Title: REGISTRAR

Dr. SHEEJA S VARGHESE, M.D.S., Ph.D.,
REGISTRAR (Academics)
SAVEETHA INSTITUTE OF MEDICAL AND
TECHNICAL SCIENCES
(DEEMED TO BE UNIVERSITY)
NO.162, POONAMALLEE HIGH ROAD,
CHENNAI - 600 077.

Dr. S. Aravind Kumar

Dr. S. Aravind Kumar

Dean,
Saveetha Dental College and Hospitals
Saveetha Institute of Medical and Technical Sciences
Chennai - 600 077.

Dr. I. Paavai
(Dr. I. Paavai)

* Prof & HOD, Dept. of Periodontics,
* Research Committee chairperson,
Priyadarshini Dental College &
Hospital).

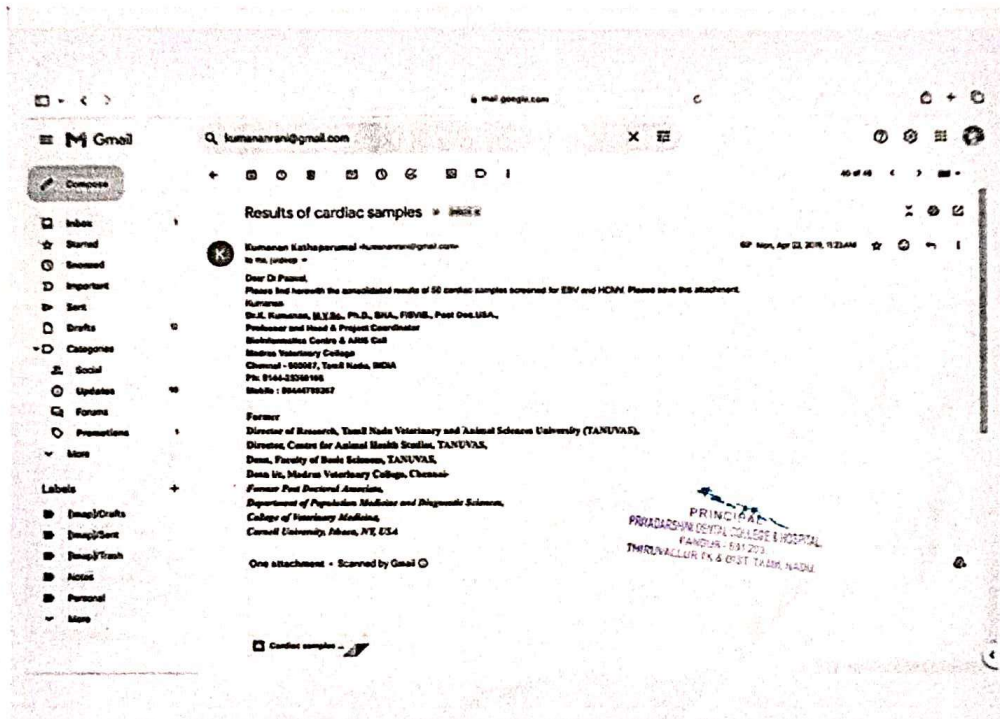
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MAIL COMMUNICATION FOR ANIMAL HOUSE



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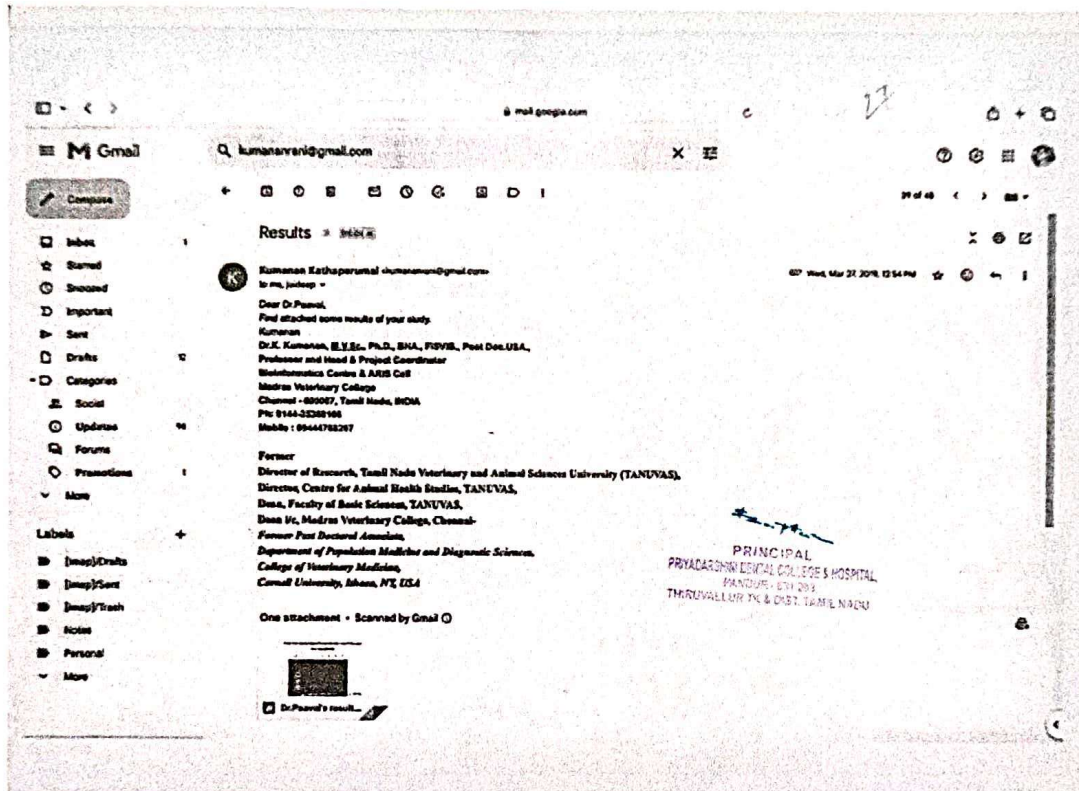
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MAIL COMMUNICATION FOR ANIMAL HOUSE



K. Kumanan
PRINCIPAL
PRIYADARSHINI DENTAL COLLEGE AND HOSPITAL,
PANDUR - 631 203.
THIRUVALLUR TK & DIST, TAMIL NADU.

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