



CHILDREN'S EDUCATION SOCIETY (Regd.)

**THE OXFORD DENTAL COLLEGE**

(Recognized by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences,  
Karnataka & Recognised by Dental Council of India, New Delhi)

Bommanahalli, Hosur Road, Bangalore - 560 068.

Ph: 080-61754680 Fax : 080 - 61754693E-mail:deandirectortodc@gmail.com

Website: www.theoxford.edu

**Geotaged photos of the Facilities and Innovation Made**

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TODC provides quality dental education to students from their enrolment to completion of course. It advises and assists its alumni to establish themselves as successful quality health care providers of the society by providing a favourable ecosystem for research and technology driven innovation to materialize their ideas. Accordingly College has established an Incubation Centre in the year 2010 with a tag line "Dream. Create. Inspire"

College has undertaken various initiatives for creation and transfer of innovations and knowledge and establishment of required infrastructure. It was the first institution to establish Research and Publication Department on the campus.

The roles of the Incubation centre are categorised into

**Academic and Research related issues:**

1. Programs/ Seminars for freshers/ new students to provide basic information and scope of dentistry.
2. Incubation program to induct students into clinical practice.
3. Provision of basic infrastructure and facilities to undertake quality dental treatment.
4. Encouragement to students to undertake innovative research projects.
5. To provide seed money for novel research projects from funding agencies or from the host Institution.
6. Student and faculty exchange programs to broaden the vision of students.
7. Conducting Awareness programs on Intellectual property rights
8. Establishing collaborations with funding agencies to procure grants for novel research projects with premiere universities, institutions and laboratories of the country.
9. In association with the research department, training undertaken for students of other institutions on advanced techniques.
10. It has registered institutional ethical committee comprising a wide range of eminent members who are best in their field of expertise.

**Practice related roles of the Incubation centre include**

1. Development of good communication and soft skills for outgoing students.
  2. To undertake training programs for clinical skill development.
  3. Programs on team building, confidence building and management in clinical practice.
  4. Networking with higher premiere education resources/ laboratories and facilities.
  5. Awareness programs conducted on private practice set-up and patient management skills.
  6. Assistance with legal issues such as medical negligence, medico-legal issues etc.
- The Incubation Centre, in association with the Research Department has undertaken enrichment and professional development programs with the purpose of knowledge transfer. The College conducts induction program for all fresh students every year, (both PG and UG ) in order to give insight into the field of specialty and dentistry.

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Incubation Centre has organized programmes such "Introduction to clinics", "Intellectual property rights" and "Research and Publication – Their importance in academics". The target audience were the Interns to enable them to handle all clinical scenarios and also highlight the significance of academics and knowledge for effective clinical practice.

College has enabled conducting of many projects. 263 projects are completed and 274 still ongoing in the last five years. Many of the projects have huge potential to convert in to successful dental ventures with huge societal benefits to be run commercially.

Students are enabled to master all procedures and also innovate and create newer techniques, approaches and modify conventional procedures.

The following are the Research Equipments present in the 1800 square feet Central Research Lab, namely;

1. Stereo Microscope
2. Fluorescent and Research Microscope
3. Laser Unit
4. Periotron
5. 2 sets of Apex Locators – Root Zx Mini, Propex II
6. T Scan
7. Hydrosolder
8. Electro Polisher
9. Sialography kit
10. Intra oral camera
11. Trans Electric Nerve Stimulation kit
12. Vernier Calipers
13. Endomotor
14. Pulp Vitality Tester
15. Micromotor
16. Typhodont Jaw Set

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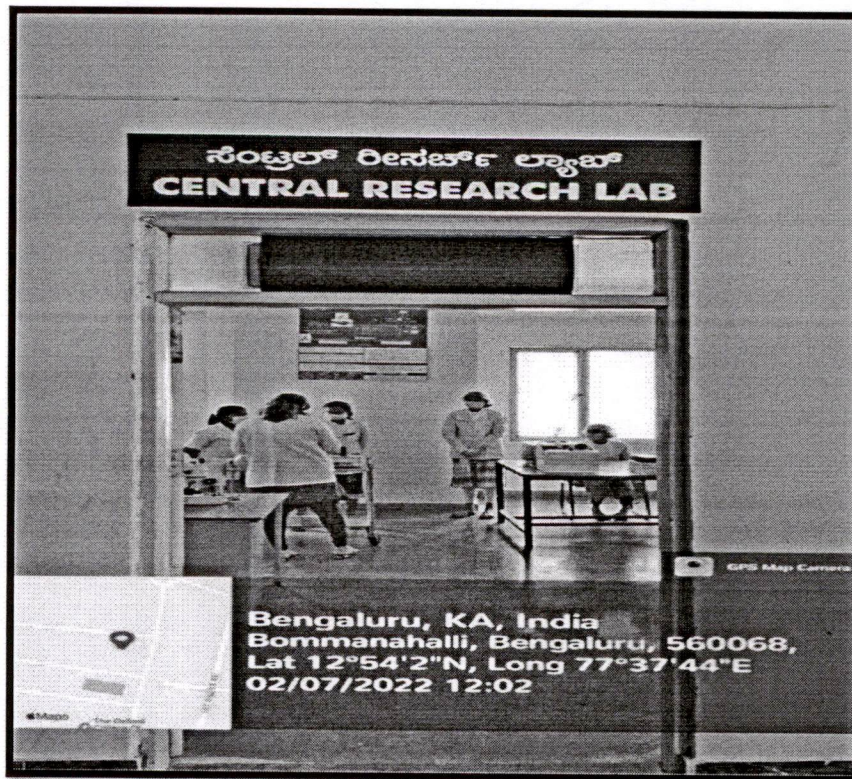
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**Geotagged Photograph of Central Research Lab/Incubation Centre**



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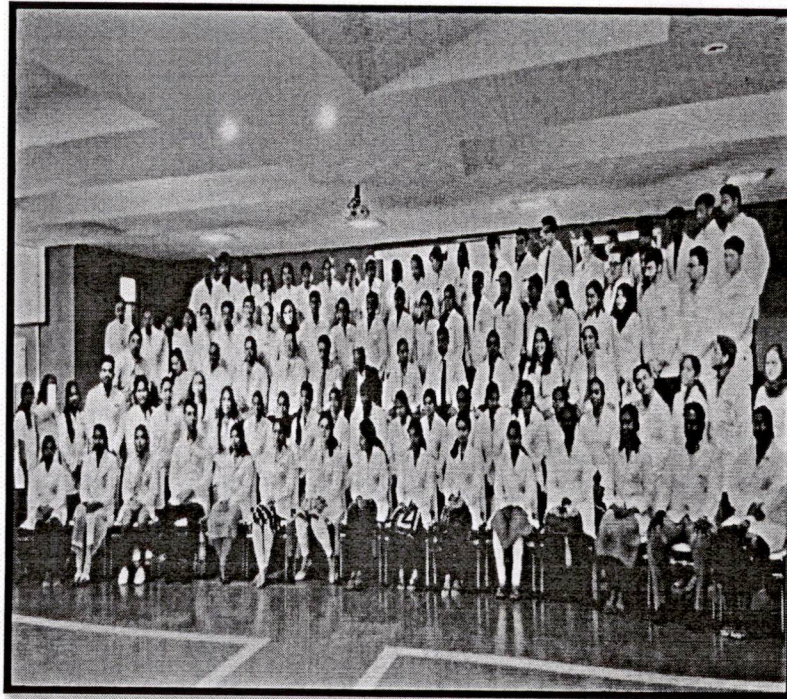
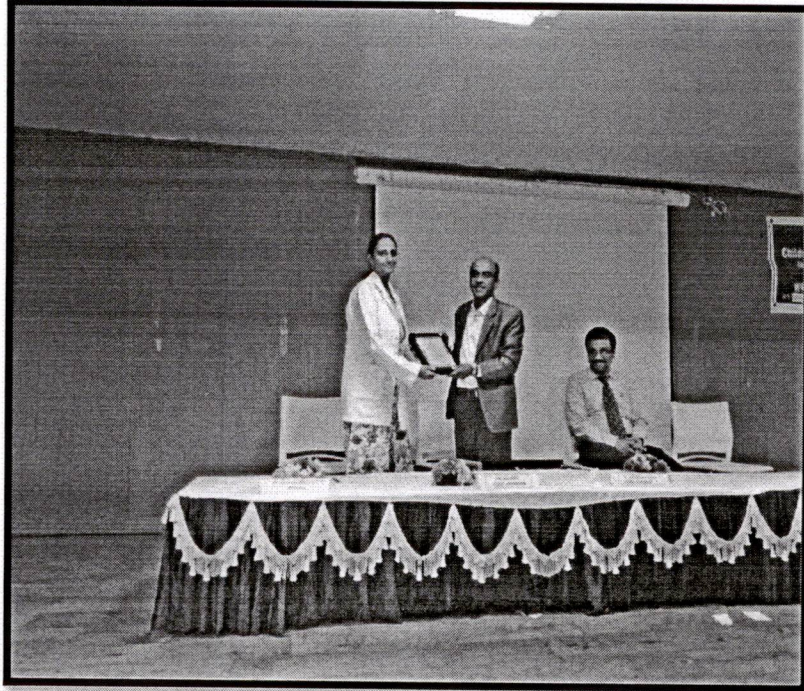
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**III BDS "Clinical Orientation Day" Was Conducted.**

**The Speakers Were Dr. Suresh on "Patient Management"**

**Dr. Manjunath on "Sterilization and Disinfection Protocols"**

**Dr. Srikanth on "Discipline In Students".**

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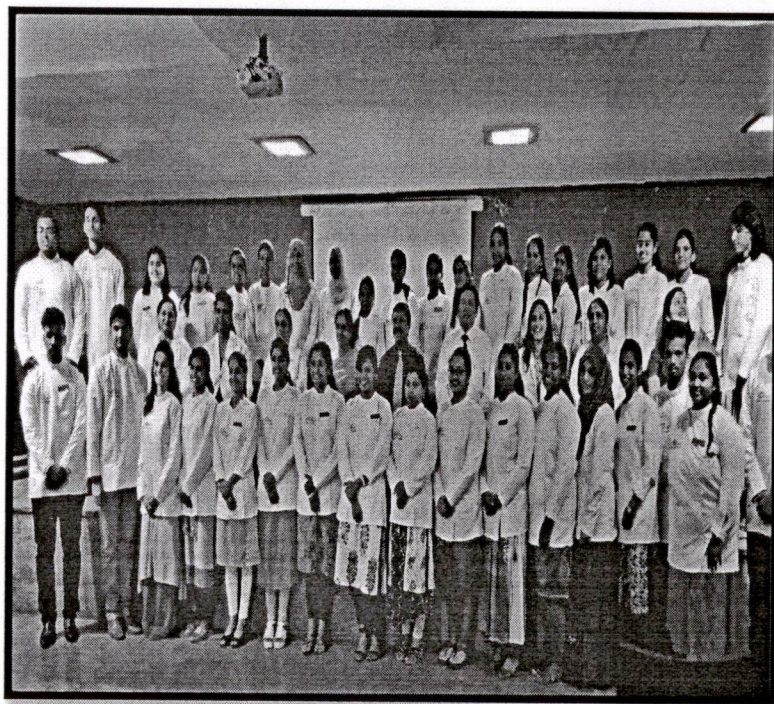
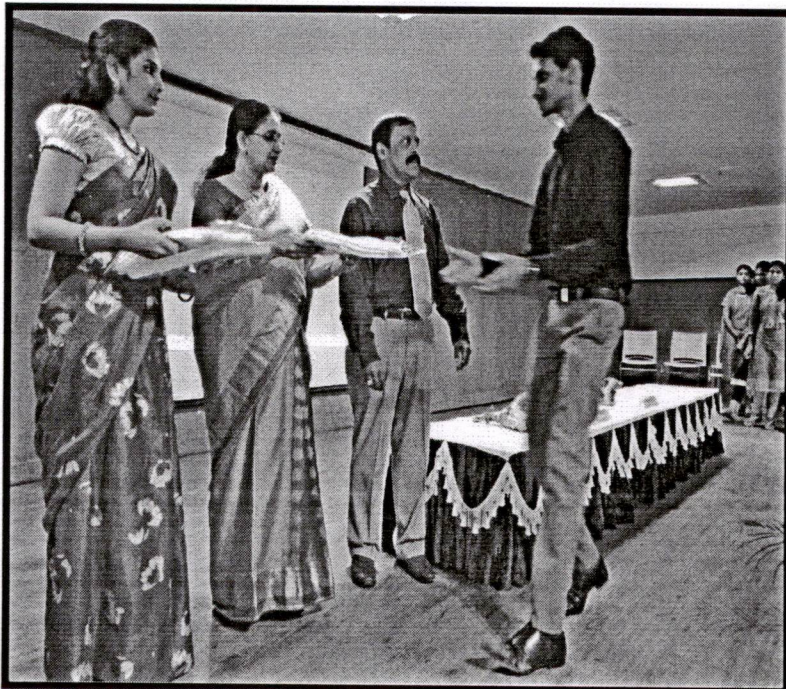
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**"White Coat Ceremony" Held for the III BDS Students**

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**Innovations - 2020-21**

### Department of Oral Medicine & Radiology

#### Types of intra oral film holders

**Staff Incharge:** Dr. Shivu M. E

**Student Name:** 1. Raina Raju

2. Reena Moirangthem

3. Rituraj Gautom

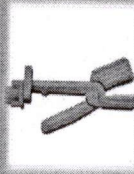
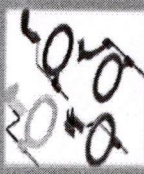



4. Shivani Singh

5. Shweta Singh

6. Mamatha Sompalli

**Abstract:** Intra oral x-rays are the most common type of dental x-ray taken. These x-rays provide a lot of detail and allow dentist to find cavities, check the health of the tooth root and bone surrounding the tooth, check the status of developing teeth, and monitor the general health of your teeth and jawbone.

Intra oral film holders are devices used for intraoral radiographs. This poster will give information about different types of intra oral film holders used in dentistry

TYPES OF INTRA ORAL FILM HOLDERS				
				
<b>SNAP-A-RAY HOLDER</b>	<b>RIN XCP HOLDER</b>	<b>PRECISION FILM HOLDER</b>	<b>BITE-BLOCK FILM HOLDER</b>	<b>ARTRY FORCEPS</b>
Takes quick and precise anterior and posterior bisecting angle radiographs and eliminates manual retention of the film by the patient/operator.	Designed for patient's comfort and practitioner's ease of use, in paralleling technique. For precise anterior, posterior bitewing and endodontic radiographs.	Minimizes patient exposure to ionizing radiation and reduces scatter radiation, producing sharper images due to the collimation.	Held by patient between the teeth for taking bitewing radiographs to provide a clear image of the interproximal surfaces of the teeth and allowing detection of interproximal caries.	Can be used as a unconventional film holder when conventional film holders are not available.
By 4 <sup>th</sup> year BDS: Raina Raju, Reena Moirangthem, Rituraj Gautom, Shivani Singh, Shweta Singh, Mamatha Sompalli				
Guided By DR. SHIVU M. E				

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**Department of Conservative Dentistry & Endodontics**

**Diagnosis for shade selection in esthetic restorations vita classical shade guide and  
vita easyshade (digital shade guide)**

**Objectives:**

- Used in the measurement of surface colour of teeth and restorations
- Crowns fabricated using a spectrophotometer showed a significant better colour match and a lower rate of rejection due to shade mismatching.

**How Is It Used?**

We can use the device to measure the shade in the central tooth area (base shade determination), distributed over the entire tooth at several points (averaged shade determination) or the neck, central and incisal areas (tooth area shade determination).

**How Is The Treatment Compromised If This Device Is Not Used?**

Matching the shade of natural teeth using a spectrophotometric device is more accurate than a conventional method using a shade guide as it influences the esthetic values of dental restorations. However, knowledge and training on colour science and shade selection significantly affects the results.

**No. of hours of training:** 1 Day (4 Hours)

**No. of Students Trained:** 24

**Mode of Learning:**

**Day 1:** Training on extracted tooth, confirmation of learning with questionnaire followed by training on patients.

**Number of students trained:** 24.

**Mode of evaluation:** Chair Side Evaluation

**Teaching:**

**Staff incharge:** Dr. Lekha

**Trainees:** Dr. Varsha, Dr. Supritha

**Students Trained:** UG Students, I MDS, II MDS, III MDS Students.

  
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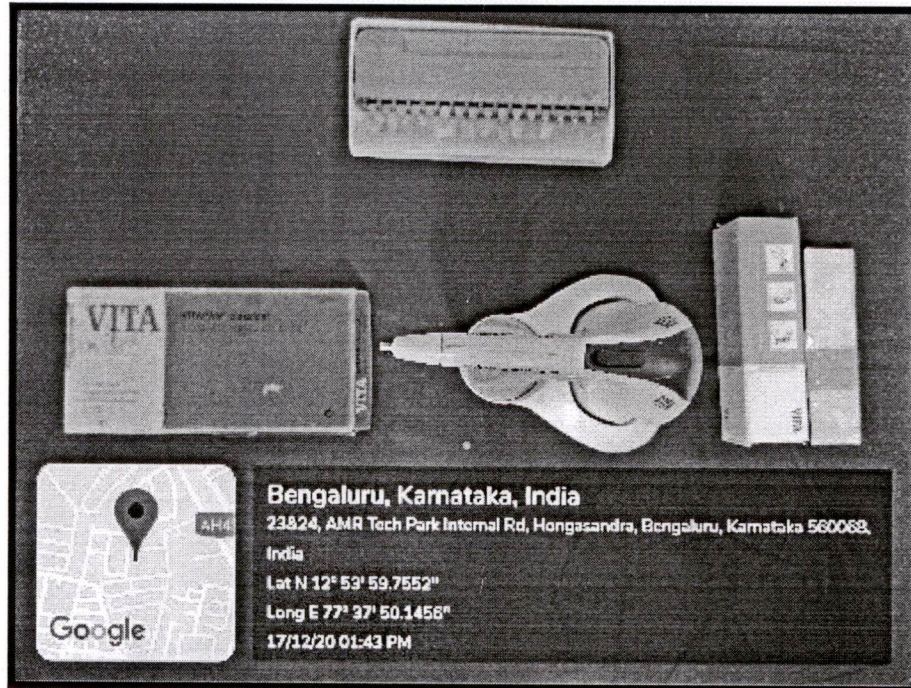
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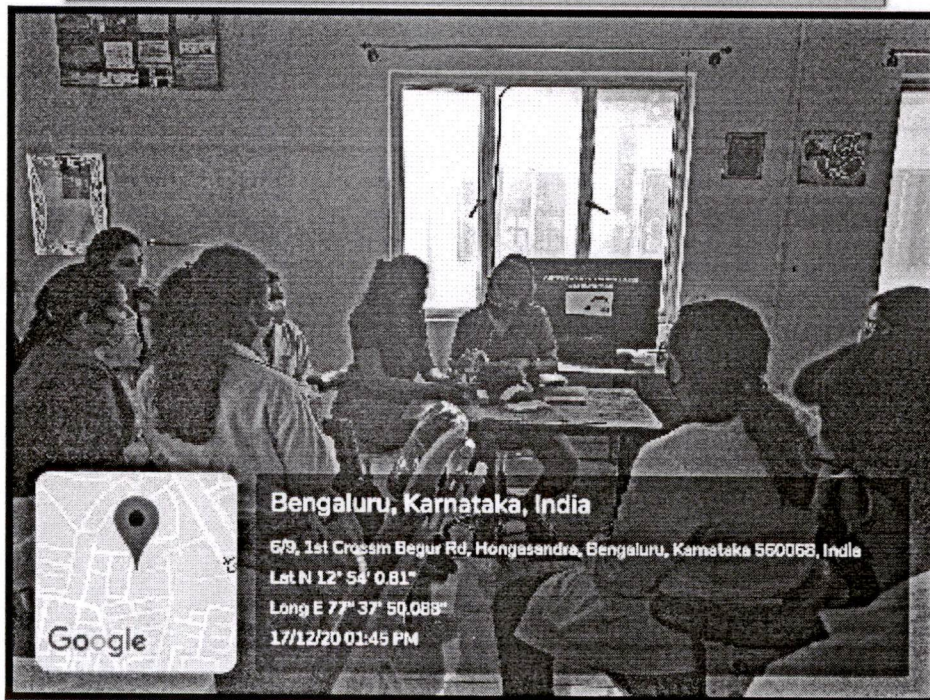
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Vita classical shade guide and VITA EASYSHADE

(Digital Shade Guide)



Demonstration of shade determination

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**Florida Probe**

The software was developed by florida probe corporation and released for the first time in 1987. It was created as a project for the university of florida.

The florida probe® (florida probe corp, gainesville, fl) was devised by gibbs et al in 1988 consisting of a probe hand piece and sleeve, a displacement transducer, a foot switch, and a computer interface/personal computer. The hemispheric probe tip has a diameter of .45 mm and the sleeve has a diameter of .97 mm. Constant probing pressure of 15 g is provided by coil springs inside the handpiece. The edge of the sleeve is the reference from which measurements are made and the probe has williams' markings, however actual measurement of the pocket depth is made electronically and transferred automatically to the computer when the foot switch is pressed.

The use of constant pressure probes has advantages over the use of manual probe. The constant pressure probe provide a constant probing force which may serve to limit some of the errors associated with probe penetration. Constant pressure probes have the capacity for electronic data collection eliminating transcription errors with higher resolution than the manual probes. The resolution is the finest increment the probe can be read to. The resolution of a manual probe is generally 1 mm and is limited by 1 mm markings on the probe where as the resolution of the florida probe is .1 mm and is determined by its electronics. The resolution does not necessarily relate to the reproducibility or accuracy of the electronic probe. The reproducibility is how a probe could give the same measurement every time; therefore being highly reproducible.

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**Department of Prosthodontics**

**An innovative technique to characterize denture bases during covid-19 pandemic.**

**Staff**

Dr. Malathi Dayalan

**Students**

Dr. Rahath

Dr. Alaikya

Esthetics is a matter of personal perception influenced by the society in which we live. Characterization of denture bases is more apt to suit the skin complexion and is of utmost importance. Hence, this paper aims in customizing polymethyl methacrylate resins to closely match the skin colour.

**Summary:**

One of the primary factors involved in reproducing complete nature-like realism is that, denture bases should be colour tinted to blend with the individual's intra and extra oral pigmentation. The final dimension of colour must be incorporated into the denture base matrix material to reproduce the patient's natural tissue tones in order to achieve the ultimate realistic goal with their skin complexion.

The naturally available antiviral pigments that impart colour to the denture base resins are turmeric, clove, pepper and dry ginger powder, useful during this covid-19 pandemic.

**Conclusion:**

The naturally available antiviral pigments provide a good characterization of the denture base which matches the skin complexion.

Skilful tinting procedures can produce excellent esthetic results to match with the individual's skin complexion.

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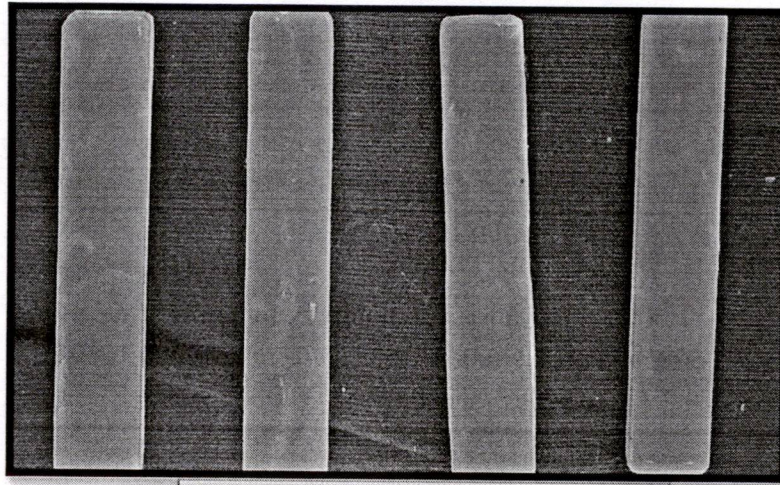
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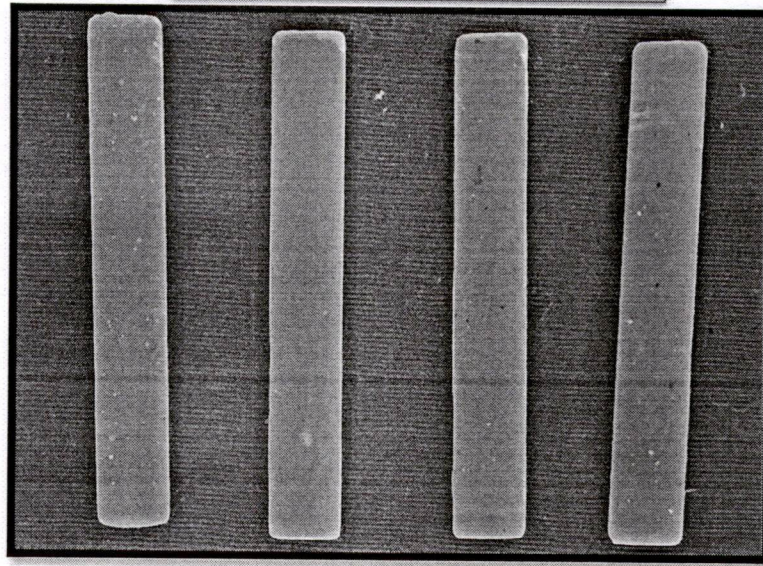
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### Acrylic Resin Shade Tabs



Group-1 (Turmeric Powder)



Group-2 (Dry Ginger Powder)

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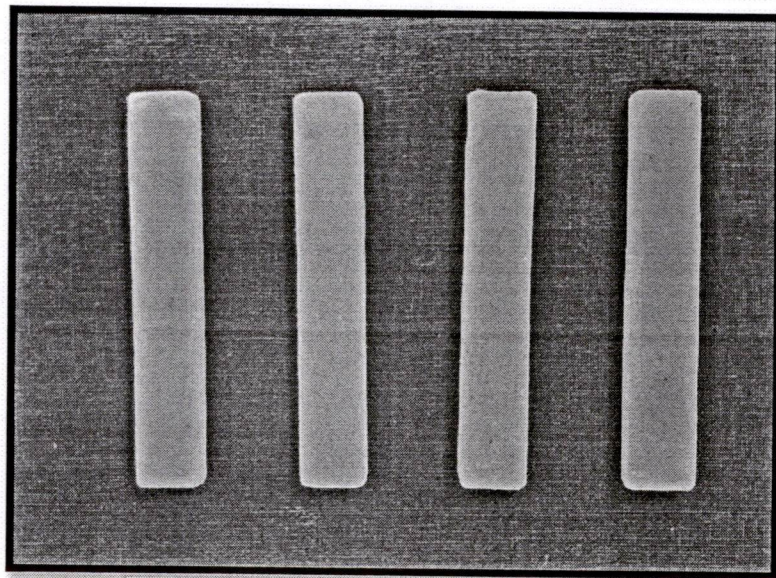
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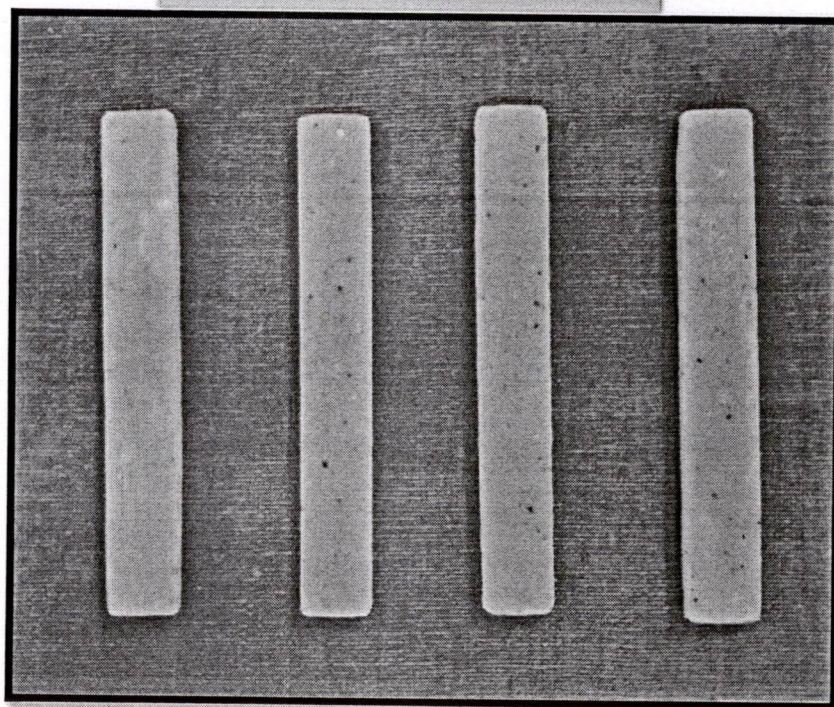
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Group-3 (Clove Powder)



Group-4 (Pepper Powder)

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### Department of Paediatric & Preventive Dentistry

## Demonstration of good oral habits to school children through spin wheel charts

#### Staff:

Dr. Madhusudhan

#### Students

Dr. M.Vinod Kumar

Dr. S.Keerthy

**Background:** A slide chart is a hand-held device, usually of paper, cardboard, or plastic, for conducting simple calculations or looking up information. A circular slide chart is sometimes referred to as a wheel chart.

**Summary:** The ideal wheel is like a mixture of the circle map and the spider map. The center of the chart holds the main topic which is being studied. The purpose of an ideal wheel is to organize information within this chart.

**Conclusion:** Wheel charts are very effective to teach children about good oral habits.



Spin Wheel Charts

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## Innovative technique to teach school children about nutrition through pyramidal models

### Staff:

Dr. Madhusudhan

### Students

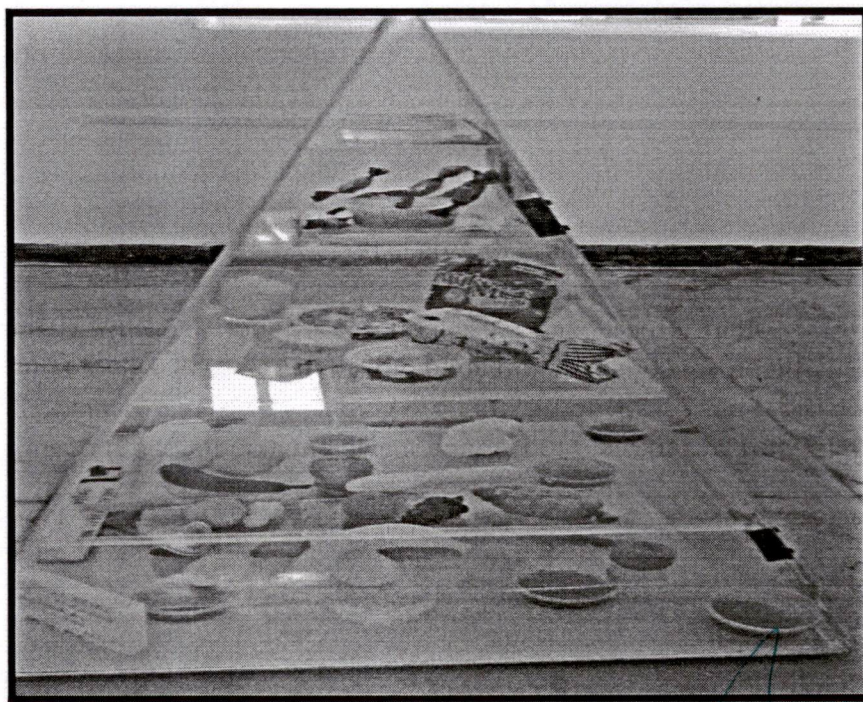
Dr. M.Vinod Kumar

Dr. S.Keerthy

**Background:** food replicas are lifelike models of commonly consumed food or drink items. They come as individual or combination items and our range encompasses food models from each of the core food groups as well as discretionary items, alcoholic and non-alcoholic beverages, and sauces, dressings and condiments. These models help children to choose healthy food from unhealthy junk food.

**Summary:** Mathematical ruminant nutrition models can be used to integrate our knowledge of feed, intake, and digestion and passage rates upon feed energy values, escape of dietary protein, and microbial growth efficiency.

**Conclusion:** Nutritional model is essential as it provides information on vital nutrients for survival, and helps the body function and stay healthy. Food is comprised of macronutrients including protein, carbohydrate and fat that not only offer calories to fuel the body and give it energy but play specific roles in maintaining health.



Pyramidal Nutritional Model

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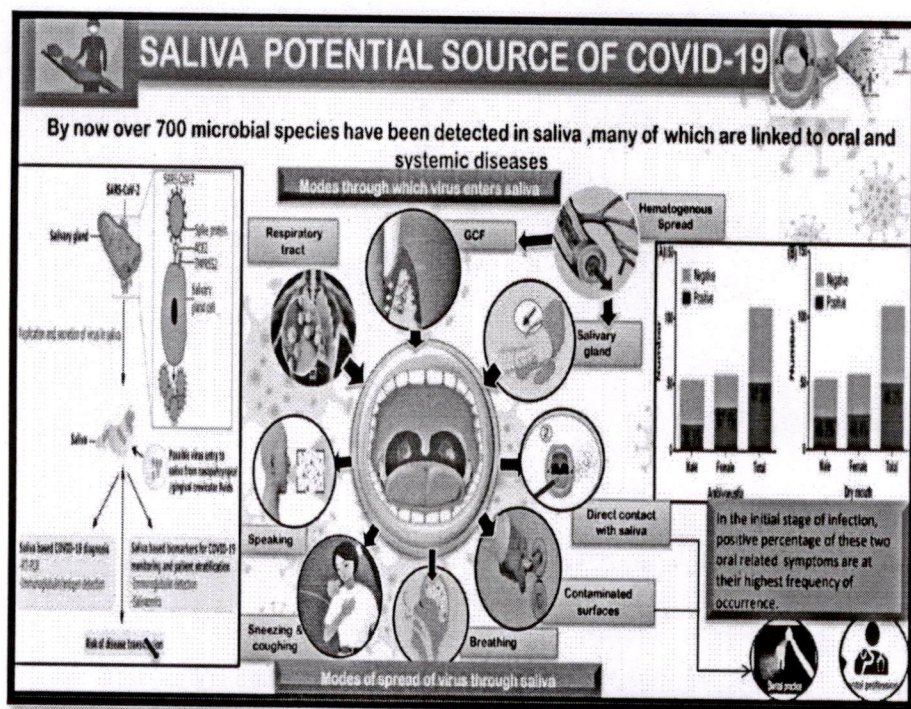


## Saliva A Potential Source of Covid-

**Staff incharge: Dr. Sowbhagya**

**Student Name:** Amogh Sarathi & Abhinaya V

Saliva, a biofluid largely generated from salivary glands in oral cavity, has been reported 2109-ncov nucleic acid positive . Besides lungs, salivary glands and tongue are possibly another hosts of 2019-ncov due to expression of ace 2 receptors. Saliva is hence a potential source for infection for both dental professionals and dental patients given possible transmission routes involving saliva-containing aerosol, splatter or droplets for covid-19.



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