

INNOVATION ECOSYSTEM

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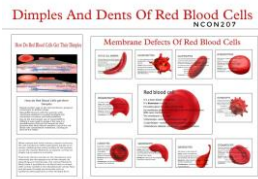
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DEPARTMENT OF PERIODONTOLOGY

Periodontitis is the inflammation of hard and soft tissues of periodontal structures, if untreated leads to tooth loss. Replacement of the missing tooth with implant gained immense popularity in last few decades. Presently, implants are placed with the aim of attaining osseointegration meaning implants are functionally ankylosed to the bone without giving consideration to the regeneration of periodontium around the implant. Despite good success rates of osseointegrated implants there is a biomechanical challenge due to the differential support and mobility provided by the implant and the tooth, which leads to failures and complications. So, the focus has changed from merely obtaining osseointegration to preservation and prevention of peri-implant hard and soft tissue loss. This is achieved by ligaplants, which is combination of implant biomaterial along with periodontal ligament cells. The periodontal ligament fibers act as prime structures involving in tooth anchoring, proprioception, peri-implant tissue modeling, defensive capacity, osseoperception and also provide shock absorption and cushioning effect to the teeth in response to the forces. The possibility of the future clinical use of such implant would revolutionize implant dentistry and will be favoured by patients. This poster details the advantages of using ligaplants over osseointegrated implants and procedures for obtaining ligaplants.

Pdl dissipates forces which causes bone loss through the compression and redistribution of its fluid elements, as well as through its fiber system and hence provides shock absorption and cushioning effect to the teeth in response to these forces. sensitive proprioceptive mechanism. Hence the osseointegrated implants not only become a part of the body but also of the mind and this mental acceptance named as osseoperception. successfully place implants in patients undergoing craniofacial/skeletal growth process, but also to move them orthodontically. periodontal ligament around implants would not only provide better defensive capacity, but also enhance repair and regeneration of bone defects in their vicinity due to reservoir of undifferentiated mesenchymal cells.

Furthermore, considering the use of osseointegrated implants in growing patients and the influence of maxillary and mandibular skeletal and dental growth on the stability of these implants, it is recommended to wait for the completion of dental and skeletal growth[15] since, the osseointegrated implants behave as an ankylosed element and don't follow the growth and evolution of the jawbones and certainly not of the alveolar process and hence, may disturb a normal development of the jawbones, leading to unesthetic situations, especially in the anterior region (e.g., resulting in "relative" infraocclusion or labioversion).[16]

. Apart from tooth anchorage periodontal ligament dispenses progenitor cells for the formation of alveolar bone and remodeling.

Periodontal disease along with tissue breakdown and inflammation causes resorption and alveolar bone loss. Problems can be evaded, if there could be a development of a implant with surrounding


Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.

periodontal ligament. This is achieved by ligaplasts; it is nothing but a combination of implant biomaterial along with pdl cell

Hence, the focus of implant dentistry has changed from merely obtaining osseointegration to the preservation and prevention of peri-implant hard and soft tissue loss. [4] Currently, lost teeth are being replaced by implants made of inert biomaterial, which are directly inserted into the alveolar bone to achieve osseointegration without considering the regeneration of periodontium. The field of oral and periodontal regenerative medicine has recently undergone significant advancements in restoring.

Currently, development of a periodontal ligament (PDL) attachment around dental implants has now become an important new therapeutic tool to replace lost teeth. PDL houses various vital cells that are all important in the dynamic relationship between the tooth and the bone. Thus, ligaplasts are now an available option to improve the biological performance and to prolong the life of the prosthesis.



Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.

REORGANIZE AND INNOVATE DENTAL PRACTICE TO CONTINUE DENTAL CARE WITH MINIMAL RISK DURING THIS PANDEMIC – A MOBILE APP.

Introduction

Tele dentistry can be incorporated into routine dental practice due to its wide range of applications in remote triaging of the COVID-19 patients for dental treatment and decreasing visits to dental clinics during hospitalization or isolation.

Objective

The study was to assess the patient's satisfaction, acceptance and perceptions regarding dental concerns with Mobile App during COVID-19 an online survey.

Materials and Methods

- 85 Covid positive patients were selected randomly from Navodaya Medical College, Raichur and details collected by telephone.
- Online questionnaire and mobile app was sent to their respective numbers and patients were instructed to install the app.
- The app reminded the patients to brush twice daily, use of mouth rinse and helped the patient to know their oral hygiene status, first clinical appointment, improving dental care, Home monitoring and follow-up.

Result

70% of patients strongly agreed for audio and 75.7% strongly agreed that they were comfortable. 80% of patients stated that they would recommend extreme benefit with the App. 5% found difficulty in usage of App.

Conclusion

Our study showed that the mobile App appears to meet the expectations and needs of our patients.

Unique Identification Code
PP-PO-056

Presented By:
Dr Lambe Neeruja Mahesh


Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.



Navodaya Education Trust
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Raichur



DEPARTMENT OF PERIODONTOLOGY

CERTIFICATE OF
PRESENTATION



19th ISP
PG CONVENTION

28th May - 30th May, 2021

Presented to

Dr. Rittikraj Sandilya Katak

for the scientific presentation at

19th ISP PG CONVENTION

from 28th - 30th May, 2021

Dr. Nympha Pandit
President, ISP

Dr. Harpreet Singh Grover
Hon. Secretary, ISP

Dr. Ashish Jain
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Dr. Anil Melath
Organizing Secretary

Dr. Abhay Kolte
Scientific Chairman

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Convention Secretary

Dr. Siby T. Chennankara
Joint Secretary

Dr. Subash Chandra Raj
Treasurer

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PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.



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Navodaya Dental College
Raichur



DEPARTMENT OF PERIODONTOLOGY

TOPIC : PERIODONTIO-INTEGRATED IMPLANTS

**CERTIFICATE OF
PRESENTATION**



19th ISP

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Dr. Abighna Mannepalli

for the scientific presentation at

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Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.



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Navodaya Dental College
Raichur



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**CERTIFICATE OF
ATTENDANCE**



ISP 2021

**45th ISP NATIONAL
CONFERENCE (VIRTUAL) 2021 PUNE**

Presented to
Dr. Abighna Mannepalli
for attending the

45th ISP National Conference (Virtual) 2021, Pune
from 21st - 23rd October, 2021

Credited with 18 CDE Points (Ref. No. MSDE/CDE/692/2021 dtd 12/10/2021)

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Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.



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Navodaya Dental College
Raichur



DEPARTMENT OF PERIODONTOLOGY

Title: ENHANCING PERI-IMPLANT BONE STABILITY

Abstract :

In current Dentistry, Dental implants play a major role in rehabilitation of missing tooth. For any successful implant therapy osseointegration, alveolar bone support and the procedure for implant placement determines the prognosis of the whole procedure. The most common factors leading to the failure of the implant therapy are peri-implantitis, loss of alveolar bone height in maxillary posteriors as well as in extraction socket defect. The methods by which the peri-implant bone stability can be achieved are either by implantoplasty, Osseodensification in cases of maxillary posterior, bone graft procedure or bone augmentation procedure either in buccal bone loss or extraction socket defect and photobiomodulation can be done in cases of mandibular bone loss. This poster, details the techniques for achieving Peri-implant bone stability.

Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.



Navodaya Education Trust @
Navodaya Dental College
Raichur



DEPARTMENT OF PERIODONTOLOGY

ABSTRACT

Title

Assessment of knowledge and acceptance to the era of uncertainty (Covid-19) among exposed undergraduate and postgraduate dental students. A Questionnaire-based Investigation.

Introduction

Dental students are facing complex problems during the COVID-19. So, it is important to assess their knowledge, risk perception, attitude, vaccination, measures taken for prevention by the dental students.

Objective:

Assess awareness, attitude and risk perception among dental students, COVID 19 scenario.

Methodology

A questionnaire-based survey is drawn in an online form, comprising of 19- variable, structured, multiple choice questions, and respondents are under graduate and post graduate dental students. Data were analyzed using SPSS software version 20.0.

Results:

Total 105 responses, 45% under graduate, 55% post graduate students. More than 50% responded, dentists are more exposed than other health professionals, at high risk for infection. 45% are aware of all COVID-19 symptoms. 44.4% worried to return for dental clinical activities. 74.7% took preventive measures in clinicals. 64% received general information about biosafety measures to COVID-19 without any practice. 50% agreed treating vaccinated patients reduced risk for transmission and 70%, dentists play major role in educating patients.

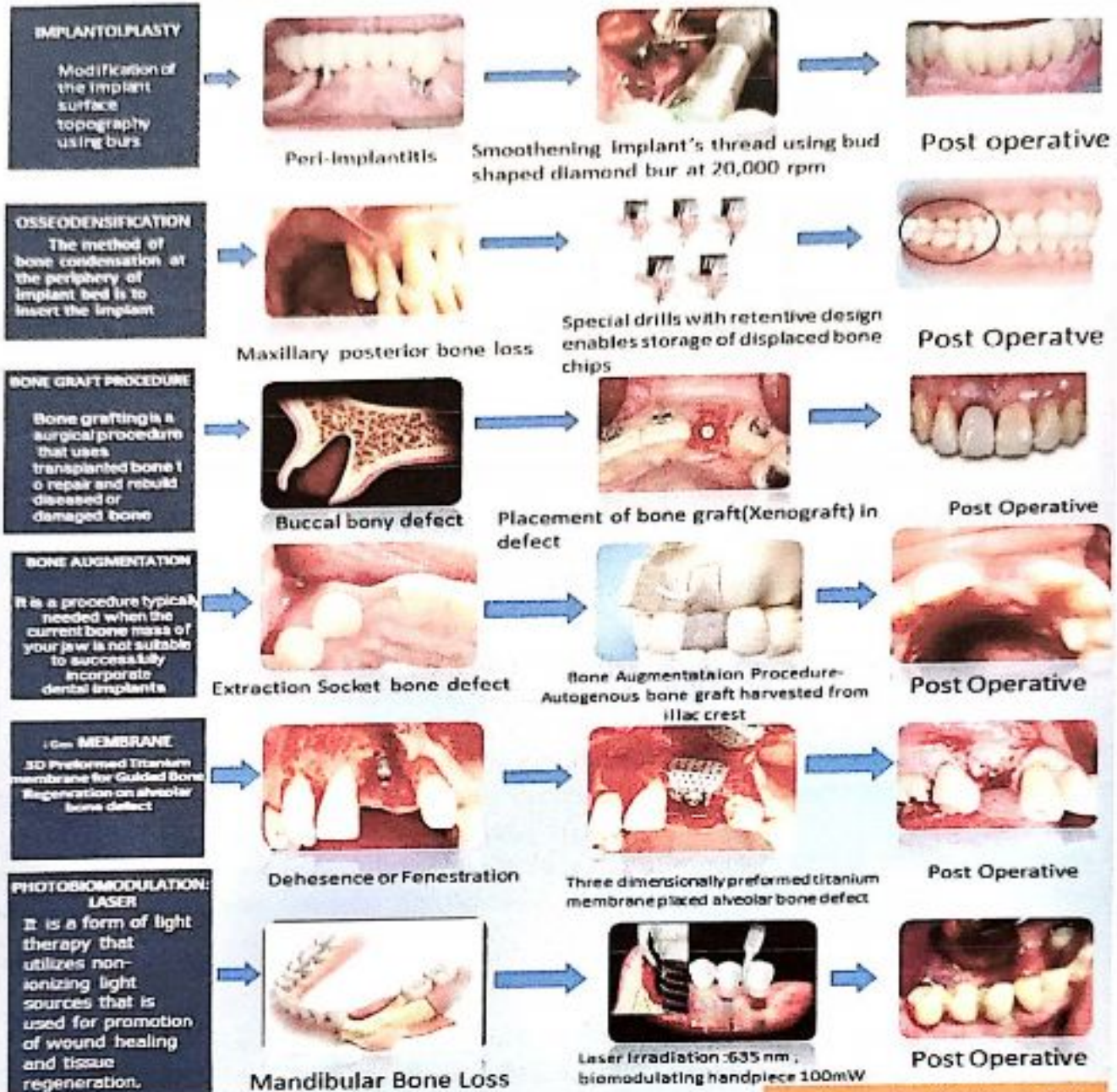
Conclusion

Dental students revealed good knowledge regarding COVID-19, they accepted this uncertainty by taking all the measures to prevent being infected.

Isp registration number: 4093/19
Conference registration number:384


DR. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.

ENHANCING PERI-IMPLANT BONE STABILITY



Poster ID-147-82

Author- Dr Rittikraj S K


Dr. GIRISH KATTI M.D.S.
 PRINCIPAL
 NAVODAYA DENTAL COLLEGE
 RAICHUR-584 103.



Navodaya Education Trust
Navodaya Dental College
Raichur



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Title: REORGANIZE AND INNOVATE DENTAL PRACTICE TO CONTINUE DENTAL CARE WITH MINIMAL RISK DURING THIS PANDEMIC – A MOBILE APP.

Introduction:

Tele dentistry can be incorporated into routine dental practice due to its wide range of applications in remote triaging of the COVID-19 patients for dental treatment and decreasing visits to dental clinics during hospitalization or isolation.

Objective:

The study was to assess the patient's satisfaction, acceptance and perceptions regarding dental concerns with Mobile App during COVID-19 an online survey.

Methodology:

85 Covid positive patients were selected randomly from Navodaya Medical College, Raichur and details collected by telephone. Online questionnaire and mobile app was sent to their respective numbers and patients were instructed to install the app.

The app reminded the patients to brush twice daily, use of mouth rinse and helped the patient to know their oral hygiene status, first clinical appointment, improving dental care, Home monitoring and follow-up.

Result:

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Conclusion:

Our study showed that the mobile App appears to meet the expectations and needs of our patients.

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Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.



Research Article

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Assessment of knowledge and acceptance to the era of uncertainty (Covid-19) among exposed undergraduate and postgraduate dental students- A Questionnaire-based Investigation

Sudhara H¹, Anitha Manjunath², Radhaji³, Sneha Ravanani⁴

¹ Reader, Department of Periodontology, Navodaya Dental College, Raichur, Karnataka, India

² Final Year, Post Graduate, Department of Periodontology, Navodaya Dental College, Raichur, Karnataka, India

³ Intern, Navodaya Dental College, Raichur, Karnataka, India

Abstract

Introduction: Dental students are facing complex problems during the COVID-19. So, it is important to assess their knowledge, risk perception, attitude, vaccination, measures taken for prevention by the dental students. **Objective:** Assess awareness, attitude and risk perception among dental students, COVID-19 scenario. **Methodology:** A questionnaire-based survey is drawn in an online form, comprising of 19-variable, structured, multiple choice questions, and respondents are undergraduate and post graduate dental students. Data were analyzed using SPSS software version 20.0. **Results:** Total 105 responses, 45% undergraduate, 55% post graduate students. More than 50% responded, dentists are more exposed than other health professionals, at high risk for infection. 45% are aware of all COVID-19 symptoms. 64.8% worried to return for dental clinical activities, 74.7% took preventive measures in clinical. 64% received general information about bio-safety measures to COVID-19 without any practice. 50% agreed treating vaccinated patients reduced risk for transmission and 70% dentists play major role in educating patients. **Conclusion:** Dental students revealed good knowledge regarding COVID-19, they accepted this uncertainty by taking all the measures to prevent being infected.

Keywords: Dental students, COVID-19, Awareness, Attitude, Clinical Risk perception.

INTRODUCTION

An unexpected pandemic respiratory disease that is caused by a novel corona virus has rapidly spread worldwide affecting large population across the globe.

COVID-19 is highly contagious and has a long incubation period. COVID-19 displays several symptoms like high fever, cough, nausea, vomiting, diarrhoea, muscle-joint pain and in advanced cases, respiratory distress^[1], but in an asymptomatic person. When a person is infected with pathogens but shows no signs or symptoms, the disease might progress^[2].

The SARS-CoV-2 virus, which is abundant in nasopharyngeal and salivary secretions^[3] of covid patients, is thought to be disseminated through aerosolized respiratory droplets^[4].


Hence the Dentists are taken into consideration at excessive threat of being infected and additionally an excessive threat in spreading the infection to their families and other healthy individuals.

Dealing with current situations is a challenge for dental practitioners as well as dental students, who are continually exposed. During the pandemic, dental care treatments included excruciating pain from pulpal inflammation, dental trauma, and enamel fracture, but today dental institutions and clinical postings have reopened^[5].

Although dental colleges and hospitals offer good enough education on infection control and safety, suboptimal adherence to these protocols can also additionally have an effect on students' self belief in treating patients with infectious disease and this could be manifested in the current pandemic situation^[6].

Till date, there aren't any confirmed vaccines or efficient therapeutic interventions in opposition to the virus. The present scientific control consists of infection prevention and control, symptoms-particular

*Corresponding author:
Dr. Sudhara H
Reader, Department of
Periodontology, Navodaya
Dental College, Raichur,
Karnataka, India
Email: sudhara@gnail.com


Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.

DEPARTMENT OF PERIODONTOLOGY

RESEARCH WORK CARRIED OUT BY POSTGRADUATE STUDENTS AT CENTRAL RESEARCH LAB

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Original Article

Urease Activity in Saliva and Plaque as Endogenous Protection against Dental Caries in Institutionalized Blind Children

Vinod Kumar, Anisha Nanda, K. Harish Bhat, Pallavi Ashrit¹, Aleena Babu, M. K. Shakir

Department of Pedodontics and Preventive Dentistry, Navodaya Dental College and Hospital, ¹Department of Biochemistry, Navodaya Medical College and Hospital, Raichur, Karnataka, India

Abstract

Background: Urease activity has been proposed to have a significant effect on dental caries, showing reduced caries activity with increased urease levels. Thus, the aim of the study was to evaluate the ureolytic activities of saliva and plaque in caries-active and caries-free institutionalized blind children. **Materials and Methods:** Fifty-two institutionalized blind children were divided into two equal groups using decayed, missing, and filled Teeth index as Group A – caries free and Group B – caries active. Urease activity was measured by collecting saliva and plaque samples from them. Children were refrained from any oral hygiene procedures during the 12 h preceding the sample collection. Urease enzyme activity was obtained by carrying out biochemical procedures. Mann-Whitney test was used to determine the statistical significance of the data. **Results:** In saliva, caries-free group had higher mean urease levels of 1.82 ± 0.497 as compared to caries-active group which had mean urease levels of 0.445 ± 0.304 . In plaque, caries-active group had lower mean urease levels of 0.877 ± 0.942 as compared to caries-free group which had mean urease levels of 1.570 ± 0.918 . The specific urease activity in saliva and plaque was significantly higher in individuals with low caries rates. **Conclusion:** Caries-free children had a higher ammonia generation activity by urease for both saliva and plaque samples than low caries-active children. High levels of alkali production in the oral environment were related to caries-free children.

Keywords: Alkali, ammonia, caries, urease

INTRODUCTION

For years, caries disease has been studied for its acidogenic nature, and only in the last decades, it has been proposed the increase in alkali production as a strategy to reach oral pH homeostasis and prevent dental caries.^[1] A new approach in caries research is focused on the fact that alkali generation from salivary substrates, such as urea, plays an important role in biofilm pH, in inhibiting dental caries. The production of alkali in mouth is associated with the hydrolysis of urea by urease enzyme.^[2] The increased levels of ammonia from urease activity can produce a significant increase in neutralizing pH of the oral environment.^[3] These are the reasons that determined the hypothesis that the activity of urease is associated with a decrease in caries activity. In recent years, alkali production in biofilm and saliva has been studied, showing a positive relation between alkali generation, expressed as high levels of urease activity, and caries resistance in caries-free patients compared to caries-active patients.^[4]

Maintenance of oral health is challenging in children with special needs. Visual impairment is an important disability affecting a substantial proportion of people globally. It is estimated that over 1–4 million children worldwide are living with visual impairment.^[5] Lack of hand-eye coordination, inadequate parental supervision, and lack of input from peers may have a negative impact on oral health.^[6]

The aim of this cross-sectional and randomized study was to assess urease activity in saliva and plaque as endogenous protection against dental caries in institutionalized blind children. We hypothesized that children with higher levels

Address for correspondence: Dr. Anisha Nanda,
Department of Pedodontics and Preventive Dentistry, Navodaya
Dental College and Hospital, Raichur - 584 103, Karnataka, India.
E-mail: anishananda444@gmail.com

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Principal

Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.



Girish
Principal

Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.

**RESEARCH WORK CARRIED OUT BY POSTGRADUATE STUDENTS AT CENTRAL
RESEARCH LAB**

Original Article

Correlations of Oral Bacterial Urea Catabolism with Caries Experience in Normal-Weight Children and Underweight Children

Vinod Kumar, Aleena Babu, K. Harish Bhat*, Pallavi Ashrit¹, Anisha Nanda, M. K. Shakir

Department of Pedodontics and Preventive Dentistry, Navodaya Dental College and Hospital, ¹Department of Biochemistry, Navodaya Medical College and Hospital, Raichur, Karnataka, India

Abstract

Background: Alkali generation by oral bacteria plays a key role in plaque pH homeostasis and may be inhibitory to the initiation and progression of dental caries. A substantial body of evidence is beginning to accumulate, which indicates that the modulation of the Alkali generating potential of dental biofilms may be a promising strategy for caries control. **Aim:** The aim of the study was to determine the capacity of oral samples to produce ammonia from urea and its relation to caries experience in normal-weight children and underweight children. **Materials and Methods:** Urease activity was measured in the saliva and plaque of 25 caries-active (CA) individuals who have normal weight and 25 CA individuals who are underweight. Urease activity was obtained from the ammonia produced by the incubation of plaque and salivary samples in urea. Independent sample *t*-test and Pearson's correlation were used to compare the differences and to correlate the urease levels and caries experience between groups. **Results:** The results showed that the mean urease levels in saliva were higher in All as positive value-1.2192±1.012 as compared to that of underweight children-0.78-0.676. The mean urease levels in plaque were lower in normal-weight children-0.1120-0.12206 as compared to that of underweight children-0.4824-0.5215. **Conclusion:** In underweight children, the caries activity was higher along with increased urease activity in saliva and lower urease activity in plaque, whereas in normal-weight children, the caries activity was lower with increased urease activity in saliva and lower urease activity in plaque.

Keywords: Alkali, ammonia, urease

INTRODUCTION

The focus on an oral environment with a low pH has been dominant when teaching or researching in dental caries. The acidification of oral biofilm permits the appearance of a microflora that generates acid and is capable to resist this condition, lowering the pH to a level that can lead to tooth demineralization.^[1]

The emphasis of dental research has shifted from the causes of dental diseases to how dental diseases affect general health. Current research in dental medicine trends toward identifying the link between oral health and various systemic diseases. Despite the change in emphasis, the growing evidence on the probable effects of untreated dental caries on growth and health has been ignored.^[2] A new approach in caries research is focused on the fact that ammonia production from the metabolism of urea by urease enzymes of oral bacteria

moderates biofilm pH and homeostasis and may inhibit dental caries. The hydrolysis of urea by bacterial urease enzymes generates ammonia and CO₂, and it is considered a major pathway for alkali production in the oral cavity.^[1]

Dental caries and weight disorders are two diseases which share several predisposing factors such as diet, lifestyle, genetics, socioeconomic status, and other environmental factors. In order to study the association between weight disorders and dental

Address for correspondence: Dr. Aleena Babu,
Department of Pedodontics and Preventive Dentistry, Navodaya
Dental College and Hospital, Raichur - 584 103, Karnataka, India.
E-mail: 123aleenababu@gmail.com

Submitted: 30-Apr-2020

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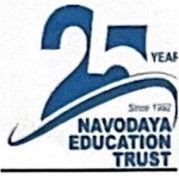
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Principal

Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.



**RESEARCH WORK CARRIED OUT BY POSTGRADUATE STUDENTS AT CENTRAL
RESEARCH LAB**

Dr. Abighna Mannepalli.
Post Graduate Student,
Department Of Periodontology,
Navodaya Dental College And Hospital, Raichur-584103, Karnataka

Title

“Comparitive Evaluation Of Clinical Periodontal Measurements And Plasma Clusterin Levels In Obese And Non Obese Individuals. A Comparitive Study”.

Aim:

To assess relation between chronic periodontitis and obesity by evaluating the plasma levels of clusterin in obese and non obese individuals.

Objectives:

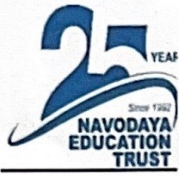
The objectives of the study are:

1. To assess clinical periodontal parameters in obese individuals.
2. To assess clinical periodontal parameters in non obese individuals.
3. To assess plasma clusterin level in obese individuals.
4. To assess plasma clusterin level in non obese individuals.
5. To compare plasma clusterin levels and clinical periodontal measurements in individuals with obesity and without obesity

Source of data


Principal

Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.



The subjects for the study will be selected from those reporting to outpatient department of Navodaya Dental College and Hospital, Navodaya Medical College and Hospital, Raichur to take part in this study

Method of collection of data:

A total of 46 obese and non obese patients in the age group of 35 to 65 years will be recruited and matched with age and sex. They will be divided into two groups.

Methodology:

- Subjects will be selected according to inclusion and exclusion criteria and categorised into 2 groups.
 - Group 1 - Obese individuals.
 - Group 2 - Non obese individuals.
- O’Leary plaque index (1972), Ainamo & Bay bleeding index (1975), probing pocket depth (PPD) and Clinical attachment level (CAL), BMI, waist circumference, waist hip ratio will be recorded.
- Plasma clusterin levels will be evaluated.

Blood Collection:

2 ml of blood will be collected from antecubital fossa by venipuncture using 20 –gauge needle in 2 ml syringe and will be sent to laboratory immediately. ELISA test will be carried out according to the manufacturer’s instructions. All the subjects will undergo plasma clusterin level evaluation.

Clinical Parameters To Be Assessed: -


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Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.

- O'Leary plaque index (1972).
- Ainamo & Bay bleeding index (1975).
- Probing pocket depth (PPD).
- Clinical attachment level (CAL).
- Body mass index (BMI).
- Waist circumference (WC).
- Waist hip ratio.

Periodontal Examination :

- Periodontal examination will be carried out using sterile William's calibrated periodontal probe.
- O'Leary plaque index (1972), Ainamo & Bay bleeding index (1975) and probing pocket depth (PPD) and Clinical attachment level (CAL).

Laboratory Parameters: -

- Plasma clusterin levels will be analysed with Human CLU (Clusterin) ELISA KITs per manufacturer's instructions.

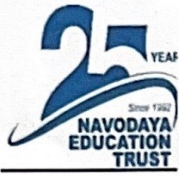
Clinical Procedure:

- Subjects will be explained about the nature of the study, need for assessing plasma clusterin levels and a written consent will be obtained.
- Periodontal status will be assessed using O'Leary plaque index (1972), Ainamo & Bay bleeding index (1975) and probing pocket depth (PPD) and Clinical attachment level (CAL) in all patients.



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Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.



- The body mass index (BMI) will be calculated as $\text{weight}^2/\text{height}^2$ (kg^2/m^2).
- Waist circumference (WC) is measured midpoint between the lowest rib and the iliac crest.
- Hip circumference (HC) is measured around the pelvis at the point of maximal protrusion of the buttocks.

All subjects with obesity and without obesity will undergo plasma clusterin level test.

- Blood sample will be collected from the antecubital vein from obese and non obese subjects.

Duration of the study:

The study will require the duration of one and half year.

Study design:

A comparative study.

Statistical analysis:

- Data will be entered in the excel spread sheet.
- Descriptive statistics of the explanatory and outcome variables will be calculated by mean, standard deviation for quantitative variables, frequency and proportions for qualitative variables.
- Inferential statistics like
 - Unpaired sample t test will be applied to check the statistical difference of plasma clusterin concentrations between the groups
 - The level of significance is set at 5%


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Any other necessary tests found appropriate will be dealt at the time of analysis based on data distribution.



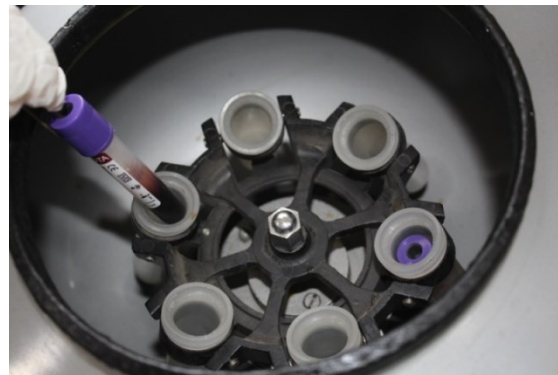
Blood sample collected



ELISA KIT

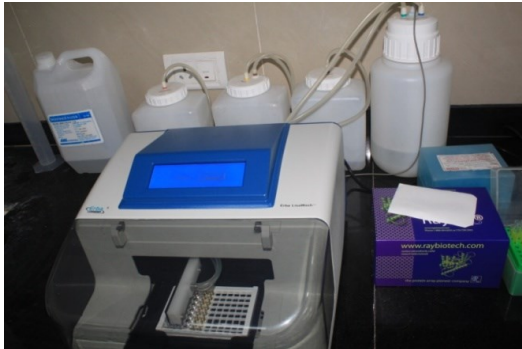


CENTRIFUGING MACHINE




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ELISA READER



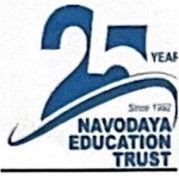
COLLECTION OF PLASMA

SUMMARY

This comparative study enrolled a total of 46 systemically healthy patients. Subjects were divided in two groups i.e. Group - A Obese (n=23) and Group - B Non-obese (n=23), matched with age and gender. The study was carried out over a period of 1 year. The subjects were selected from those reporting to the outpatient department of Periodontology at Navodaya Dental College & Hospital, Raichur. Patients were divided into obese and non obese based on BMI and anthropometric parameters such as waist circumference, hip circumference and waist hip ratio. Periodontal parameters such as O'Leary plaque index (1972), Ainamo & Bay bleeding index (1975), pocket probing depth (PPD), clinical attachment loss (CAL) were measured, plasma


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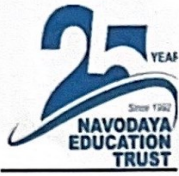


samples were collected and tested for the levels of **CLUSTERIN** in **Central Research Lab** of **Navodaya Educational Trust** using **ELISA TEST**. Clinical periodontal parameters and plasma clusterin levels were compared between the groups.

The results of the present study showed that there was statistically significant difference in plasma clusterin levels between obese and non obese individuals. Severe periodontitis is found more in obese individuals compared to non obese which is statistically significant. Clinical periodontal parameters are more in obese than non obese though statistically non significant. Anthropometric measurements were more in those individuals with more BMI.


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**RESEARCH WORK CARRIED OUT BY POSTGRADUATE STUDENTS AT
CENTRAL RESEARCH LAB**

Dr. Rittikraj Sandilya Katakai,
Post Graduate Student
Department Of Periodontology ,
Navodaya Dental College & Hospital, Raichur-584103,
Karnataka.

Title

“To Evaluate The Efficacy Of Dentifrice Containing Active Oxygen On Plaque And Gingival Status In Patients With Gingivitis: A Clinico-Microbiological Study”

Aim:

The aim of the study will evaluate the anti-plaque and anti-gingivitis effects of a dentifrices containing Active Oxygen compared with a placebo controlled dentifrice in patients with gingivitis.

Objective:

- 1) To establish the anti-gingivitis and anti-plaque effects of a dentifrice containing Active Oxygen.
- 2) To determine the viability of anti-microbial effect on Porphyromonas gingivalis and Aggregatibacter actinomycetemcomitans before and after using Active Oxygen.

Source of Data:

The subjects for the study will be selected from those reporting to outpatient department of Periodontology at Navodaya Dental College & Hospital, Raichur to take part in this experimental study

Material and Methods:

A sample size of 40 subjects of age 18 years to 70 years will be randomly selected and assigned to 2 equally sized groups (n-20).


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Group A (Control):- Toothpaste without Active Oxygen.

Group B (Test Group):- Toothpaste with Active Oxygen.

Methodology:

- 1) The study design is a randomized, double-blinded, controlled clinical trial comparing experimental dentifrice with an active Oxygen (sodium perborate) to a placebo formulation.
- 2) All subjects will be provided with written informed consent for participation in the study.
- 3) The same clinician will perform all therapies.
- 4) Based on inclusion and exclusion criteria subjects will be selected and assigned into Group A and Group B and will be blinded to which group they belong.
- 5) A complete clinical oral assessment of all the subjects will be carried out. Gingival index¹⁶, Plaque index¹⁷ and Bleeding Index¹⁸ will be recorded at baseline for all selected subjects.
- 6) A pooled Supra and Sub gingival plaque will be collected using sterile curettes and subjects will undergo oral prophylaxis after which the subjects will be instructed for brushing with Modified Bass technique and will be given either the test dentifrice or placebo formulation.
- 7) The dentifrices will be packed in plain white tubes (15 g each) labelled only as sample A (without Active Oxygen) and sample B (with Active Oxygen) to insure proper blinding of the product from the subjects and investigator. The study groups will be asked to refrain from all other unassigned forms of oral hygiene, including non study toothpastes, dental floss, chewing gum or oral rinses during the study.
- 8) Subjects will be recalled after 6 weeks and Gingival, Plaque and bleeding status will be evaluated using same indices and plaque sample will be collected by the same investigator.

Microbiology: -

Collection of pooled Supra and Sub gingival plaque will be done using a sterile curette and carried immediately to a transport media which will be stored in refrigerator until sent to microbiological laboratory for evaluation of *Porphyromonasgingivalis* and *Aggregatibacteractinomycetemcomitans* using **Multiplex Polymerase Chain Reaction** at the baseline and after 6 weeks.

Statistical Analysis

- Independent sample t test will be applied to check the statistical difference of gingival index, plaque index and microbiological counts (*Porphyromonasgingivalis* and *Aggregatibacteractinomycetemcomitans*) between the groups.



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- Paired sample t test will be applied to check the statistical difference of gingival index, plaque index and microbiological counts (Porphyromonasgingivalis and Aggregatibacteractinomycetemcomitans) within the groups (before and after)

Chi-square test will be applied for bleeding index to check the association between the groups.

Results

Microbiological Observations :

Prevalence Of PorphyromonasGingivalis

The prevalence of porphyromonasgingivalis in the control group and test group were recorded, respectively at baseline and after 6 weeks. The intragroup comparison at baseline and after 6 weeks, showed a reduction of 55% prevalence of porphyromonasgingivalis in the test group whereas control group showed a reduction of 24% showing highly significant result ($P<0.001$) comparing test group and control group. The intergroup comparison showed highly significant result ($P<0.001$) comparing test group and control group.

Prevalence Of AggregatibacterActinomycetemcomitans

The prevalence of aggregatibacteractinomycetemcomitans in the control group and test group, respectively at baseline and after 6 weeks. The intragroup comparison at baseline and after 6 weeks, showed a reduction of 40 % prevalence of aggregatibacteractinomycetemcomitans in the test group whereas control group showed a reduction of 15% showing highly significant result ($P<0.001$) comparing test group and control group. The intergroup comparison showed highly significant result ($P<0.003$) comparing test group and control group.



Toothpaste study samples coded Transport media for plaque samples sample A and B


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Supra and Sub gingival plaque collected with sterile curette



Plaque sample transferred to transport media



Sampling done


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Biosafety Cabinet



Micropipette



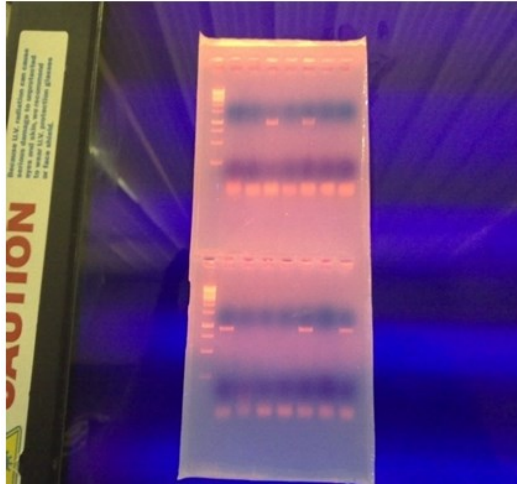
PCR Thermocycler



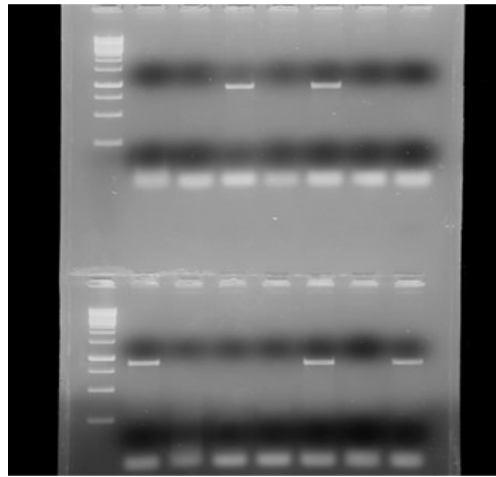
Electrophoresis apparatus


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Gel image on UV transilluminator



Gel documentation



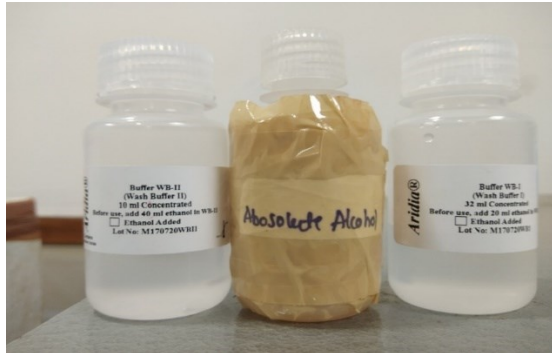
Centrifugal machine



Sample kept for Centrifugation


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Wash Buffer I, Wash Buffer II, Absolute alcohol



Vortexex

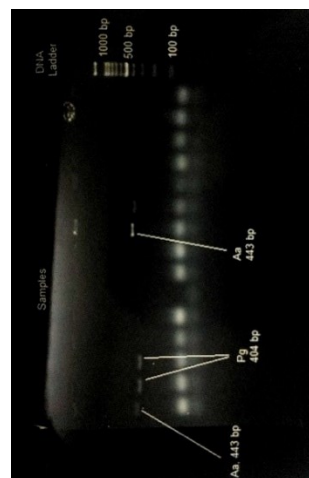
DNA Extraction procedure


Principal

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NAVODAYA DENTAL COLLEGE
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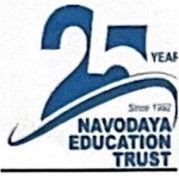
Incubator



A representative result of polymerase chain reaction analysis for the detection of *P. gingivalis* and *A. actinomycetemcomitans*


Principal

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SUMMARY

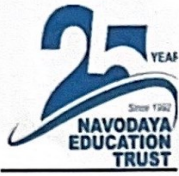
The Clinico-microbiological study was designed and conducted in Department of Periodontics ,Navodaya Dental College and Hospital ,Raichur, Karnataka, to evaluate the anti-plaque and anti-gingivitis effects of a dentifrice containing active oxygen compared with a dentifrice without the active ingredient in the patients with gingivitis.

Study included 40 subjects with age group of 18-70 years including both genders. The study was carried out for duration of 1 year , in which each subject was assessed for a period of 6 weeks where clinical and microbiological parameters were recorded at baseline and 6 weeks. The clinical parameters -Plaque index-Silness and Loe(1964) , Gingival index-Loe and Silness (1963) and Bleeding Index -Ainamo and Bay (1975) were recorded in this study. The presence of Porphyromonasgingivalis and Aggregatibacteractinomycetecomitans were assessed using Multiplex Polymerase Chain Reaction at the baseline and 6 weeks at Central Research Laboratory ,Raichur.

The results of the present study showed that the dentifrice containing Active oxygen has an antiplaque and antigingivitis effects. The clinical parameters i.e plaque index ,gingival index and bleeding index showed a gradual decrease in values at 6 weeks assessment when compared it to baseline values. Microbiological assessment also showed decrease in the prevalence of


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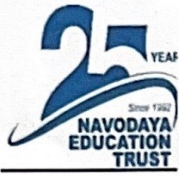


Porphyromonasgingivalis and Aggregatibacteractinomycetecomitans from baseline to after 6 weeks assessment.

Within the limitations of the present study, the preliminary data obtained by periodic assessment of the clinical and microbiological parameters indicate that the Active oxygen containing toothpaste can also be used in the treatment of gingivitis and preventing its progression to periodontitis by having antimicrobial properties on periodonto pathogenic bacteria. Further well controlled, multicentric clinical and microbiological trials with larger sample size and with longer duration of assessment period are required to prove the findings of the present study.


Principal

Dr. GIRISH KATTI M.D.S.
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Porphyromonasgingivalis and Aggregatibacteractinomycetecomitans from baseline to after 6 weeks assessment.

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Principal

Dr. GIRISH KATTI M.D.S.
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NAVODAYA DENTAL COLLEGE
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Navodaya Education Trust

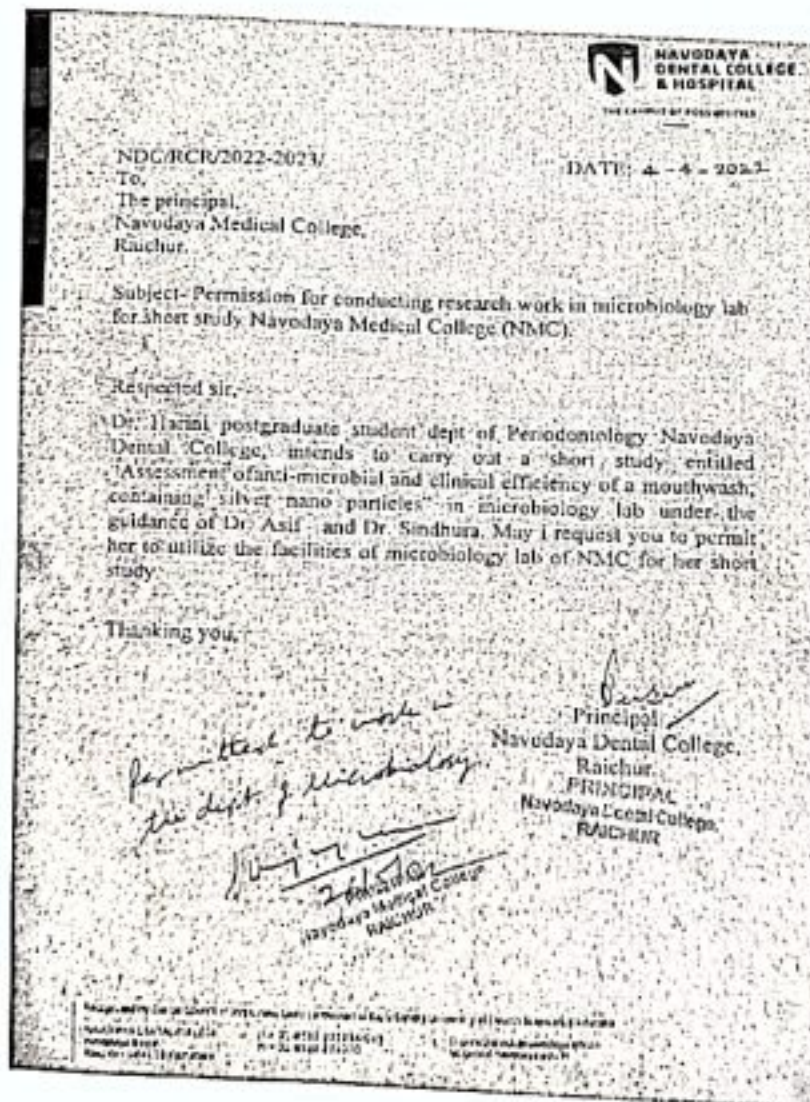


NAVODAYA DENTAL COLLEGE AND HOSPITAL

RAICHUR

REPORT OF collaborative research activity with Microbiology Lab
Navodaya Medical College, Raichur.

Dr. Asif Prof & Head Department Of Periodontics of our institute, Navodaya Dental College And Hospital, Raichur, has collaborated with Microbiology Lab, Navodaya Medical College. The project was guided by Dr. Sindhura, Dr. Asif and self supported for the duration of 14 days. As a result of their joint research we submitted a research work titled "Assessment of Microbiological and Clinical efficiency of a mouthwash containing Silver nano particles" to RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCE BANGLORE.



Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103



NAVODAYA
DENTAL COLLEGE
& HOSPITAL

THE CAMPUS OF POSSIBILITIES

NDC/RCR/2022-2023/

DATE: 4-4-2022

To,
The principal,
Navodaya Medical College,
Raichur.

Subject- Permission for conducting research work in microbiology lab for short study Navodaya Medical College (NMC).

Respected sir,

Dr. Harini postgraduate student dept of Periodontology Navodaya Dental College, intends to carry out a short study entitled "Assessment of anti-microbial and clinical efficiency of a mouthwash, containing silver nano particles" in microbiology lab under the guidance of Dr. Asif and Dr. Sindhura. May i request you to permit her to utilize the facilities of microbiology lab of NMC for her short study.

Thanking you,

*permitted to work in
the dept of microbiology.*

Dr. Girish Katti
26/5/22
Principal
Navodaya Medical College
Raichur

Sushma
Principal

Navodaya Dental College,
Raichur.

Principal
Navodaya Dental College,
Raichur

Girish
Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
Raichur-584 103.

Recognized by Dental Council of India, New Delhi | Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka

NAVODAYA DENTAL COLLEGE
Navodaya Nagar,
Raichur - 584103 Karnataka

P: + 91-8532-223234/043
F: + 91-8532-223070

E: principalnmc@navodaya.edu.in
W: dental.navodaya.edu.in



Navodaya Education Trust




NAVODAYA DENTAL COLLEGE AND HOSPITAL

RAICHUR

**REPORT OF collaborative research activity with Central Research Laboratory (CRL)
Navodaya Medical College(NMC), Raichur.**

Dr. Jeevanand Deshmukh Prof & Head Department Of Periodontics of our institute, Navodaya Dental College And Hospital, Raichur, has collaborated with CRL, NMC. The project was guided by Dr. Sindhura and self supported for the duration of 1 year. As a result of their joint research we submitted a research work titled "COMPARITIVE EVALUATION OF SERUM RETINOL BINDING PROTEIN 4 (RBP-4) LEVELS IN OBESE AND NON-OBESE PATIENTS WITH AND WITHOUT CHRONIC PERIODONTITIS FOLLOWING NONSURGICAL PERIODONTAL THERAPY - A CLINICOBIOCHEMICAL STUDY" to RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCE BANGLORE.

RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES, BENGALURU,
KARNATAKA



ENDORSEMENT BY THE HOD, PRINCIPAL/HEAD OF THE
INSTITUTION

This is to certify that the dissertation entitled "COMPARITIVE EVALUATION OF SERUM RETINOL BINDING PROTEIN 4 (RBP-4) LEVELS IN OBESE AND NON-OBESE PATIENTS WITH AND WITHOUT CHRONIC PERIODONTITIS FOLLOWING NON-SURGICAL PERIODONTAL THERAPY - A CLINICOBIOCHEMICAL STUDY." Is a bonafide research work done by Dr. LAMBE NEERUJA MAHESH under the guidance of Dr. SINDHURA H., Associate Professor, Department of Periodontology.

| | |
|---|---|
| <p>Seal and signature of HOD</p> <p style="text-align: center;">PROF. & HEAD Dept. of Periodontics Navodaya Dental College</p> <p>Dr. JEEVANAND DESHMUKH Professor and Head Department of Periodontology Navodaya Dental College & Hospital, Raichur - 584103</p> <p>Date: Place: Raichur</p> | <p>Seal and signature of Principal</p> <p style="text-align: center;">PRINCIPAL Navodaya Dental College, Principal, RAICHUR Navodaya Dental College & Hospital, Raichur - 584103.</p> <p>Date: Place: Raichur.</p> |
|---|---|

DATE: 20/2/2021

From

The Head of Department

Department of Periodontology,

Navodaya Dental College,

Raichur.

TO,

The Principal

Navodaya Medical College, Raichur

Through,

The Principal

Navodaya Dental College, Raichur

Subject- Permission for conducting the thesis research work in Central Research Lab Navodaya Medical College

Respected Sir

I, the undersigned, Head of Department of Periodontology Navodaya Dental College, request you to grant to my Post Graduate student Dr Lambe Neeruja Mahesh to carry out her research work "Comparative Evaluation Of Serum Retinol Binding Protein 4 (RBP-4) Levels In Obese And Non-Obese Patients With And Without Chronic Periodontitis Following Nonsurgical Periodontal Therapy - A Clinicobiochemical Study" in the central research laboratory. guided by Dr. Sindhuza H.

Kindly do the needful.

Thanking you,

Yours Faithfully,

Dr. Jeevanand Deshmukh

HOD Department of Periodontology,

Navodaya Dental College,

Raichur.

PROF & HEAD
Department of Periodontology
Navodaya Dental College, Raichur
Signature

forwarded to principal Navodaya Medical College with request to permit the applicant (PG student NDC) to utilize the access lab facilities.

Sindhuza
20/2/2021
PRINCIPAL
Navodaya Dental College
RAICHUR



Navodaya Education trust



NAVODAYA DENTAL COLLEGE AND HOSPITAL

**REPORT OF COLABORATIVE RESEARCH RESEARCHACTIVITY
WITH CRL, NAVODAYA MEDICAL COLLEGE, RAICHUR**

Dr.JeevanandDeshmukh,Prof&Head Department of Periodontology of our institution ,Navodaya Dental College &Hospital,Raichur has collaborated with CRL of Navodaya medical college. The project was guided byDr .JeevanandDeshmukh,Professor & Self supported for 1 year. As a result of their joint research , we submitted a research work titled "COMPARITIVE EVALUATION OF CLINICAL PERIODONTAL MEASUREMENTS AND PLASMA CLUSTERIN LEVELS IN OBESE AND NON OBESE INDIVIDUALS – A COMPARATIVE STUDY"

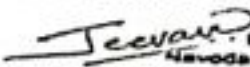
RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES, BENGALURU,
KARNATAKA



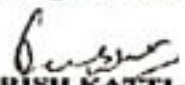
**ENDORSEMENT BY THE HOD, PRINCIPAL/HEAD OF THE
INSTITUTION**

This is to certify that the dissertation entitled "COMPARITIVE EVALUATION OF CLINICAL PERIODONTAL MEASUREMENTS AND PLASMA CLUSTERIN LEVELS IN OBESE AND NON OBESE INDIVIDUALS. A COMPARITIVE STUDY." Is a bonafide research work done by Dr. ABIGHNA MANNEPALLI under the guidance of Dr. JEEVANAND DESHMUKH, Professor & Head, Department of Periodontology.

Seal and signature of HOD


PHUF & HEAD
Dept. of Periodontia
Navodaya Dental College, Raichur
Dr. JEEVANAND DESHMUKH
Professor and Head
Department of Periodontology
Navodaya Dental College & Hospital,
Raichur – 584103

Seal and signature of Principal


Principal,
Navodaya Dental College &
Hospital, Raichur – 584103.

Date: 20-02-2021

From

The Head of Department,
Department of Periodontology,
Navodaya Dental College,
Raichur.

To,

The Principal,
Navodaya Medical College, Raichur

Through,

The Principal
Navodaya Dental College, Raichur

Subject- Permission for conducting the thesis research work in Central Research Lab Navodaya Medical College.

Respected Sir,

I, the undersigned, Head of Department of Periodontology, Navodaya Dental College, request you to grant permission to my Post Graduate student Dr. Abighna Mannepalli to carry out her research work "Comparative evaluation of clinical periodontal measurements and plasma clusterin levels in obese and non obese individuals. A comparative study" in Central Research Lab- Navodaya Medical College, under my guidance.

Kindly do the needful.

Thanking you,

Yours Faithfully

Dr. Jeevanad deshmukh

HOD of periodontology

Navodaya Dental College

Raichur

Jeevanad
PROF & HEAD
Dept. of Periodontia
Navodaya Dental College, Raichur

PRINCIPAL
Navodaya Dental College,
RAICHUR

Prasanna
20/2/21

*Forwarded to principal
Navodaya Medical College
with a request to permit
Pg student to utilize
Research Lab facilities for
her thesis work.*




NAVODAYA DENTAL COLLEGE AND HOSPITAL

Report of the collaborative research activity with CRL (Central Research laboratory),Navodaya Medical College,Raichur

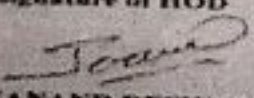
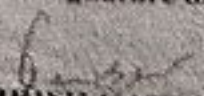
Dr . Jeevanand Deshmukh ,Prof & Head ,Department of Periodontology of our institution ,Navodaya Dental College & Hospital ,Raichur has collaborated with CRL of Navodaya Medical College.The project was guided by Dr.Asif .K ,Professor & Self supported for 1 year,As a result of their joint research , we submitted a research work titled "TO EVALUATE THE EFFICACY OF DENTIFRICE CONTAINING ACTIVE OXYGEN ON PLAQUE AND GINGIVAL STATUS IN PATIENTS WITH GINGIVITIS : A CLINICO MICROBIOLOGICAL STUDY " to RAJIV GANDHI UNVERSITY OF HEALTH SCIENCES BANGALORE .

RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES, BENGALURU,
KARNATAKA



ENDORSEMENT BY THE HOD, PRINCIPAL/HEAD OF THE INSTITUTION

This is to certify that the dissertation entitled "TO EVALUATE THE EFFICACY OF DENTIFRICE CONTAINING ACTIVE OXYGEN ON PLAQUE AND GINGIVAL STATUS IN PATIENTS WITH GINGIVITIS: A CLINICO-MICROBIOLOGICAL STUDY." is a bona-fide research work done by **Dr. RITTIKRAJ SANDILYA KATAKI** under the guidance of **Dr. ASIF K.** Professor, Department of Periodontology.

| | |
|---|---|
| <p>Seal and signature of HOD</p>  <p>Dr. JEEVANAND DESHMUKH PROF & HEAD Professor and Head Dept. of Periodontia Navodaya Dental College Raichur Department of Periodontology Navodaya Dental College & Hospital, Raichur - 584103</p> | <p>Seal and signature of Principal</p>  <p>Dr. GIRISH KATTI Principal, Navodaya Dental College & Hospital, Raichur - 584103.</p> |
|---|---|

Date: 03/12/2021
Place: Raichur

Date: 03/12/2021
Place: Raichur

Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
584103

NAVODAYA DENTAL COLLEGE AND HOSPITAL

REPORT OF RESEARCH WORK SUBMITTED TO THE
RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCE BANGLORE

Dr. Jeevanand Deshmukh Prof & Head Department Of Periodontics of our institute, Navodaya Dental College And Hospital Raichur, the project was guided by Dr Sindhura and self supported for the duration of 1 year .As a result of their joint research we submitted a research work titled "COMPARITIVE EVALUATION OF SERUM RETINOL BINDING PROTEIN 4 (RBP-4) LEVELS IN OBESE AND NON-OBESE PATIENTS WITH AND WITHOUT CHRONIC PERIODONTITIS FOLLOWING NONSURGICAL PERIODONTAL THERAPY - A CLINICOBIOCHEMICAL STUDY" to RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCE BANGLORE

RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES, BENGALURU,
KARNATAKA



ENDORSEMENT BY THE HOD, PRINCIPAL/HEAD OF THE
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Seal and signature of HOD

PROF. & HEAD
Dept. of Periodontia
Navodaya Dental College & Hospital
Dr. JEEVANAND DESHMUKH
Professor and Head
Department of Periodontology
Navodaya Dental College & Hospital,
Raichur - 584103

Date:
Place: Raichur

Seal and signature of Principal

PRINCIPAL
Navodaya Dental College,
Principal, RAICHUR
Navodaya Dental College &
Hospital, Raichur - 584103.

Date:
Place: Raichur.


Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.

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REPORT OF RESEARCH WORK SUBMITTED TO THE RAJIV GANDHI UNVIERSITY OF HEALTH SCIENCES BANGALORE

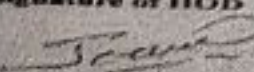
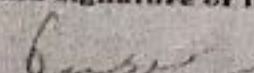
Dr .JeevanandDeshmukh ,Prof & Head ,Department of Periodontology of our institution ,Navodaya Dental College & Hospital ,Raichur. The project was guided by Dr.Asif .K ,Professor & Self supported for 1 year. As a result of their joint research , we submitted a research work titled "TO EVALUATE THE EFFICACY OF DENTRIFRICE CONTAINING ACTIVE OXYGEN ON PLAQUE AND GINGIVAL STATUS IN PATIENTS WITH GINGIVITIS : A CLINICO MICROBIOLOGICAL STUDY " to RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES BANGALORE

RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES, BENGALURU,
KARNATAKA



ENDORSEMENT BY THE HOD, PRINCIPAL/HEAD OF THE INSTITUTION

This is to certify that the dissertation entitled "TO EVALUATE THE EFFICACY OF DENTRIFRICE CONTAINING ACTIVE OXYGEN ON PLAQUE AND GINGIVAL STATUS IN PATIENTS WITH GINGIVITIS:A CLINICO-MICROBIOLOGICAL STUDY." is a bonafide research work done by Dr. RITIKRAJ SANDILYA KATAKI under the guidance of Dr. ASIF K, Professor, Department of Periodontology.

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| Dr. JEEVANAND DESHMUKH Professor and Head Department of Periodontology Navodaya Dental College & Hospital, Raichur - 584103 | Dr. GIRISH KATTI Principal, Navodaya Dental College & Hospital, Raichur - 584103. |
| Date: 02/12/2024 Place: Raichur | Date: 02/12/2024 Place: Raichur. |

Dr. Girish Katti
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.

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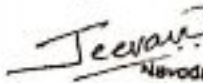
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This is to certify that the dissertation entitled “COMPARITIVE
EVALUATION OF CLINICAL PERIODONTAL MEASUREMENTS AND
PLASMA CLUSTERIN LEVELS IN OBESE AND NON OBESE INDIVIDUALS.
A COMPARITIVE STUDY.” Is a bonafide research work done by Dr. ABIGHNA
MANNEPALLI under the guidance of Dr. JEEVANAND DESHMUKH, Professor
& Head, Department of Periodontology.

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 PHUF & HEAD
Dept. of Periodontia
Navodaya Dental College, Raichur

Dr. JEEVANAND DESHMUKH

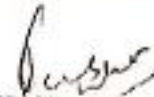
Professor and Head

Department of Periodontology

Navodaya Dental College & Hospital,

Raichur - 584103

Seal and signature of Principal


Principal, Navodaya Dental College,
Navodaya Dental College &
Hospital, Raichur - 584103

Dr. GIRISH KATTI M.D.S.

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isponline.com on Wednesday, February 17, 2021, IP: 117.240.188.90]

Original Article**Comparison of effect of curcumin gel and noneugenol periodontal dressing in tissue response, early wound healing, and pain assessment following periodontal flap surgery in chronic periodontitis patients**


M. Venkata Sai Meghana, Jeevanand Deshmukh, M. V. Devarathanamma, K. Asif, L. Jyothi, H. Sindhura

Abstract:

Background: The study was designed taking into consideration the drawbacks of periodontal dressing and healing properties of curcumin. The aim was to assess and compare the effect of Curcumin gel (Cureneix) and noneugenol periodontal dressing (Coe pak) on tissue response, wound healing in the early stages, and pain post periodontal flap surgery in patients diagnosed with chronic periodontitis. **Materials and Methods:** Twenty patients requiring periodontal flap surgery were allotted to two groups at random, one receiving periodontal dressing and the other receiving curcumin for this cross over split-mouth study. Flap surgeries were performed on 2 quadrants with 3 weeks' interval. After suture removal, postoperative sites were assessed for tissue response (tissue color [TC] and tissue edema [TE]) and early wound healing as primary outcomes of the study. The secondary outcome was pain assessment and the number of analgesics taken by the individuals. **Results:** The two groups showed no significant differences with respect to tissue response, early wound healing, and pain perception. Curcumin group consumed lesser number of analgesics as compared to the one with periodontal dressing. **Conclusion:** It was confirmed that periodontal dressing and curcumin are effective in reducing the TE, normalizing the TC, enhancing the wound healing and reducing the pain perception. Curcumin can thus be used as an alternative to periodontal dressing.

Key words:

Curcumin, edema, flap surgery, pain assessment, wound healing



Dr. GIRISH KATTI M.D.S.
PRINCIPAL

NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.

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Original Article

Comparative evaluation of analgesic and anti-inflammatory efficacy of ibuprofen and traumeel after periodontal flap surgery: A randomized triple-blind clinical trial

Revu Das, Jeevanand Deshmukh, Kardkal Asif, Harsha Sindhura, Mandakal Venkatapur Devarathanamma, Lakshminarayana Jyothi

Abstract

Background: Pain management after performing flap surgery is of paramount importance. Taking into consideration the side effects of nonsteroidal anti-inflammatory drugs (NSAIDs), and the advantages of homeopathic medication, the analgesic and anti-inflammatory properties of ibuprofen (NSAID) and traumeel (homeopathic AID) following flap surgery were evaluated. **Materials and Methods:** A randomized, triple-blinded, split-mouth clinical trial, with a sample size of 20 (age range of 20-60 years) was planned. Subjects included patients diagnosed with moderate chronic generalized periodontitis. Two quadrants for each subject were operated on, with an interval of 3 weeks. Random assignment of the operated quadrants to the following medication protocols was carried out by a third person: ibuprofen, 600 mg and traumeel, 600 mg (up to three tablets) every 8 h for first 24 h and SOG (SOG Opus 5011 needed) thereafter for a period of 1 week as pain medication, respectively. After 1 week, sutures were removed. Primary outcomes were mean postoperative pain (modified visual analog scale) and number of tablets consumed in 1 week. The secondary outcome was postoperative tissue response. Any adverse effects were recorded. **Results:** Number of tablets consumed and pain perception was lower in traumeel compared to ibuprofen group ($P < 0.001$). A better tissue response was shown by the group treated with traumeel as compared to the ibuprofen receiving group ($P < 0.05$). Three patients reported adverse drug reactions after consumption of ibuprofen. **Conclusion:** The present study suggested that while managing pain following flap surgery, traumeel was superior as compared to ibuprofen, with minimal or no side effects.

Key words:

Flap surgery, ibuprofen, postoperative pain, traumeel, triple-blind study


Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.


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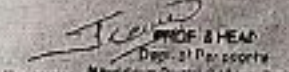
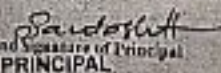
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RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES,
BENGALURU, KARNATAKA



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This is to certify that the dissertation entitled "COMPARISION OF EFFECT OF CURCUMIN GEL AND NON EUGENOL PERIODONTAL DRESSING IN TISSUE RESPONSE, EARLY WOUND HEALING AND PAIN ASSESSMENT FOLLOWING PERIODONTAL FLAP SURGERY IN CHRONIC PERIODONTITIS PATIENTS" is a bonafide research work done by Dr. VENKATA SAI MEGHANA, M under the guidance of Dr. JEEVANAND DESHMUKH, Professor & Head, Department of Periodontology.

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| DR. JEEVANAND DESHMUKH Professor and Head Department of Periodontology Navodaya Dental College & Hospital, Raichur - 584103 Date: 28/7/19 Place: Raichur | DR. SANTOSHI HUNASGI Principal, Navodaya Dental College & Hospital, Raichur - 584103 Date: 28/7/19 Place: Raichur |


Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
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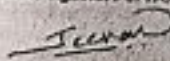
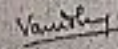
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KARNATAKA



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PEPTIDE AND HBA1C LEVELS IN TYPE II DIABETIC WITH CHRONIC
PERIODONTITIS PATIENTS AND EFFECT OF NON - SURGICAL
PERIODONTAL THERAPY ON HBA1C LEVELS AND PERIODONTAL
PARAMETERS: AN EXPERIMENTAL STUDY," is a bonafide research work
done by Dr. MITALI .R. BHAGCHANDANI under the guidance of
Dr. JEEVANAND DESHMUKH, Professor & Head, Department of Periodontology.

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|  |  |
| Dr. JEEVANAND DESHMUKH Professor and Head Department of Periodontology Navodaya Dental College & Hospital, Raichur - 584103 HOP & HLA Dept. of Periodontia Navodaya Dental College, Raichur | Dr. VANISHREE M Principal, Navodaya Dental College & Hospital, Raichur - 584103. PRINCIPAL Navodaya Dental College, RAICHUR |
| Date: 11/10/2020 Place: Raichur | Date: 11/10/2020 Place: Raichur |



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PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.

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Original Article**An assessment of anti-citrullinated protein antibody in systemically healthy individuals with or without chronic periodontitis: A case-control study**

Ankita Rajaram Yadav, Jeevanand Deshmukh, Mandakal Venkatapur
Devarathnamma, Asif Kardal, Mitali Bhagchandani, Ratika Srivastava*

Abstract:

Background: Periodontitis has been implicated as a risk factor for rheumatoid arthritis (RA). **Aims:** This study aimed to assess the relationship between RA and chronic periodontitis (CP) by evaluating the serum levels of the anti-citrullinated protein antibody (ACPA) which is a marker of RA in systemically healthy individuals with and without CP. **Materials and Methods:** This case-control study enrolled 40 systemically healthy individuals. Participants were divided into two groups, i.e., CP group Systemically healthy chronic periodontitis (CPCH) ($n = 20$) and control group Systemically healthy (SH) ($n = 20$), matched for age and gender. The CP patients were evaluated for periodontal parameters, namely probing pocket depth, clinical attachment loss, percentage of the site involved with attachment loss, and number of teeth present. A volume of 5 ml of venous blood was collected from both the groups and centrifuged; the separated serum was stored at -70°C before being analyzed. Later, serum samples were tested for levels of ACPA in both the groups and compared. **Results:** The mean serum ACPA levels were higher in CPCH patients compared to SH (131.38 RU/ml vs. 34.54 RU/ml, $P = 0.001$), which was statistically highly significant. In addition, we found a significant elevation of serum ACPA levels in severe generalized CP patients compared to moderate generalized CP patients (175.47 RU/ml vs. 95.31 RU/ml, $P = 0.001$), and the difference was statistically highly significant. **Conclusion:** The results of the study confirmed that CP can be a risk factor for RA. Moreover, the severity of periodontitis appeared to be related to elevated serum levels of ACPA.

Key words:

Anti-citrullinated protein antibody, chronic periodontitis, rheumatoid arthritis




Dr. GIRISH KATTI M.D.S.
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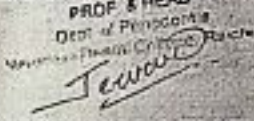
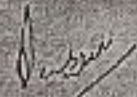
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This is to certify that the dissertation entitled "HOST MODULATION THERAPY" is a bonafide research work done by Dr. NANDITHA SANKAR under the guidance of Dr.JYOTHI, Professor Department of Periodontology.

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| Dr. JEEVANAND DESHMUKH Professor and Head Department of Periodontology Navodaya Dental College & Hospital, Raichur - 584103 Date: Place: Raichur | Dr. GIRISH KATTI Principal, Navodaya Dental College & Hospital, Raichur - 584103 Date: Place: Raichur, |



Dr. GIRISH KATTI M.D.S.
PRINCIPAL

NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.


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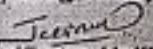
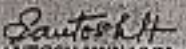
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KARNATAKA, BENGALURU



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|  And Signature of the HOD, PROF. & HEAD Dept. of Periodontology Navodaya Dental College, Raichur. Dr. JEEVANAND DESHMUKH Professor and Head Department of Periodontology Navodaya Dental College & Hospital, Implantology, Raichur-584103 Date: 9-11-2019 Place: Raichur |  And Signature of the Principal Dr. SANTOSH HUNAGI PRINCIPAL Navodaya Dental College, Raichur Navodaya Dental College & Hospital, Raichur-584103 Date: 9-11-2019 Place: Raichur |
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PRINCIPAL
NAVODAYA DENTAL COLLEGE
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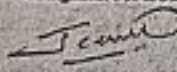
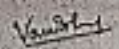
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KARNATAKA



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GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.


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This is to certify that the dissertation entitled "SOCKET PRESERVATION WITH MEDICAL GRADE CALCIUM SULFATE HEMIHYDRATE : A RADIO GRAPHIC STUDY EVALUATING THE DIMENSIONAL CHANGES OF THE ALVEOLAR RIDGE," is a bonafide research work done by Dr. TIAN NIANG CHAEN under the guidance of Dr. JYOTHI, Professor, Department of Periodontology and Oral Implantology, Navodaya Dental College and Hospital, Raichur.

PROF & HEAD
Dept. of Periodontia
Navodaya Dental College, Raichur

Jeevanand

Dr. JEEVANAND DESHMUKH
Professor and Head
Department of Periodontology and
Implantology,
Navodaya Dental College &
Hospital,
Raichur - 584103

Date: 08/11/2019
Place: Raichur

Santosii

Dr. SANTOSII PRINCIPAL
Principal, Navodaya Dental College,
Navodaya Dental College & Hospital,
Raichur - 584103

Date: 09/12/2019
Place: Raichur

Girish

Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
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DEPARTMENT OF PROSTHODONTICS

| SL. NO. | Name of the student | Year of joining | Short study project | Title of thesis | LD TOPICS |
|---------|-----------------------|-----------------|---|---|---|
| 1. | Dr. Chandan sengupta | 2015-2018 | <ul style="list-style-type: none"> • Study on various dental implants abutments • Table clinic on various implant systems | Evaluation and comparison of tensile strength, water absorption, hardness and colour stability of 3 commercially available maxillofacial silicon elastomers | Prosthodontic management of TMJ disorders |
| 2. | Dr. Bhargavi | 2015-2018 | <ul style="list-style-type: none"> • Table clinic on various implant systems | | Occlusion in prosthodontics |
| 3. | Dr. Attargekar Vikas | 2016-2019 | | Evaluation of stress distribution in maxillary anterior bone form, 3 different tapered implant, thread designs with angulated abutments | |
| 4. | Dr. rohit kumar singh | 2016-2019 | | Comparison of 2 commercially available shade guides under 3 different light conditions with digital shade matching systems | |
| 5. | Dr. Nidhi. K. Momaya | 2017-2020 | | Effect of conventional casting techniques and accelerated casting technique on marginal fit , surface roughness | Nutrition in geriatrics |

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|----|----------------------------|-----------|--|--|---|
| | | | | and internal porosity of castings fabricated by nickel- chromium ceramo-metal alloy- An invitro study | |
| 6. | Dr. Arjita Dutta | 2017-2020 | | To evaluate and compare the hardness and tensile bond strength of a silicone soft lining material ,after short term immersion in two different denture cleansing solutionsand water over varying time periods—an invitro study | Recent advances in dental ceramics |
| 7. | Dr. Ansu Elizabeth Blessan | 2018-2021 | | Evaluation of 3 dimensional accuracy of digital and conventional implant level, open tray impression method with splinted and nonsplinted technique – an invitro comparative study | 3 D PRINTING IN DENTISTRY |
| 8. | Dr. Saba Anjum | 2018-2021 | | Evaluation of stress distribution and micromotion of 3 different monoimplants(smooth, rough, O-T) in mandibular posterior region – a 3 | NANOTECHNOLOGY AND ITS ROLE IN PROSTHODONTICS |

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POST-GRADUATE PAPER & POSTER PRESENTATION

| SL NO | NAME OF THE STUDENT | YEAR OF JOINING | Poster presentation | Paper Presentation | PROF & HEAD |
|-------|---------------------|-----------------|---|--|---------------|
| 1 | DR. MANU ZACHARIS | 2015-2018 | <p>“Recent advances in irrigation system”</p> <p>XVII IACDE & IES NATIONAL CONVENTION BHOPAL 1,2,3 APRIL 2016</p> | <p>EVALUATION AND COMPARISON OF THE EFFICACY OF LINEZOLID , VANCOMYCIN AND CIPROFLOXACIN ON ENTEROCOCCAL INDUCED BIOFILM USING SCANNING ELECTRON MICROSCOPY – IN VITRO STUDY</p> <p>AT 19TH SCIENTIFIC CONGRESS OF ASIAN SPECIFIC ENDODONTIC CONFEDERATION APRIL 5-8TH GURGON, DELHI</p> | DR.S.V SATISH |
| 2 | DR. SAI DUDEKULA | 2016-2019 | | <p>COMPARISON OF THE SEALING ABILITY OF FIVE DIFFERENT RETROGRADE FILLING MATERIALS IN TEETH WITH ROOT APICES RESECTED AT DIFFERENT ANGLES USING FLUORESCENT MICROSCOPE – AN INVITRO STUDY 19TH IACDE-IES NATIONAL PG CONVENTION.GULBARGA</p> | DR.S.V SATISH |
| 3 | DR. ANAND YADAV | 2016-2019 | <p>“Antioxidants in endodontics”</p> <p>Conservative dentistry and Endodontics state conference 8-9th july 2016 Karnool.</p> | <p>TO COMPARE AND EVALUATE THE MICROLEAKAGE IN CLASS 2 CAVITIES WITH THREE DIFFERENT PACABLE COMPOSITES USING CONFOCAL MICROSCOPEAN IN VITRO STUDY AT 19TH IACDE-IES NATIONAL PG CONVENTION.GULBARGA</p> | DR.S.V SATISH |


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|-----|------------------------|-----------|---|---|--|
| | | | | dimensionally finite element study | |
| 9. | Dr. B. S. Vishnupriya | 2019-2022 | <ul style="list-style-type: none"> Awareness , attitude and knowledge of general public towards dental proceduresbin covid 19 scenario- A cross-sectional study Preventive prosthodontics | Evaluation of dimensional stability and surface detail reproduction of two polyvinyl siloxane impression materials using different impression techniques tested under dry , moist and wet conditions – an invitro study | Digital aids in prosthodontics |
| 10. | DR. SANTOSH KUMAR BUNG | 2019-2022 | <ul style="list-style-type: none"> Awareness , attitude and knowledge of general public towards dental proceduresbin covid 19 scenario- A cross-sectional study | A COMPARATIVE EVALUATION OF FLEXURAL STRENGTH AND IMPACT STRENGTH OF HEAT CURED POLY METHYLMETHACRYLATE RESIN REINFORCED WITH NANO-SILVER PARTICLES, NANOSILICON DIOXIDE, NANOZIRCONIUM DIOXIDE AND NANOTITANIUM DIOXIDE BY USING SHORT CURING CYCLE – AN INVITRO STUDY | RESEARCH METHODOLOGY IN PROSTHODONTICS |
| 11. | DR. SAUMYA SINGH | 2020-2023 | <ul style="list-style-type: none"> PROSTHODONTIC MANAGEMENT OF ECTODERMAL DYSPLASIA CASE USING UNCONVENTIONAL IMPRESSION | THE EFFECT OF MICROWAVE STERILIZATION ON IMPACT STRENGTH , SURFACE HARDNESS , SURFACE ROUGHNESS AND LINEAR | PHONETICS IN PROSTHODONTICS |

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| | | | <p>TECHNIQUES AND FABRICATING HOLLOW DENTURE</p> <ul style="list-style-type: none"> DIGITAL RECORDING OF TILT OF CAST WITH MODIFIED SURVEYED TABLE :BYE BYE <p>CONVENTIONAL TRIPODING</p> <ul style="list-style-type: none"> LIGAPLANTS :- A NOVUS SECLUM IN IMPLANTS | <p>DIMENSIONAL CHANGES OF DIE STONE REINFORCED WITH ZINC OXIDE AND SILICA NANOPARTICLES – AN INVITRO STUDY</p> | |
| 12. | DR. SHIVA SAI VEMULA | 2020-2023 | <ul style="list-style-type: none"> DIGITAL RECORDING OF TILT OF CAST WITH MODIFIED SURVEYED TABLE :BYE BYE <p>CONVENTIONAL TRIPODING</p> | <p>COMPARATIVE EVALUATION OF SURFACE ROUGHNESS, SURFACE HARDNESS AND LINEAR DIMENSIONAL CHANGES OF TYPE IV DENTAL STONE WITH ADDITION OF SILICA AND ALUMINIUM NANOPARTICLES – AN INVITRO STUDY</p> | BASAL IMPLANTS |


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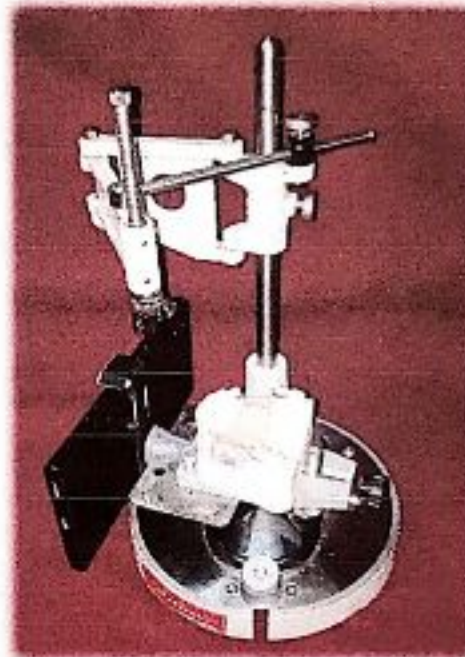


DEPARTMENT OF PROSTHODONTICS

POSTGRADUATE INNOVATIVE TECHNIQUES

ORIGINAL RESEARCH:-

TITLE:- Digital Recording Of Tilt Of The Cast With Modified Surveying Platform Using Conventional Surveyor




INTRODUCTION:- Surveying is a part Of CPD Designing & it helps to plan the path of insertion, locating favorable and unfavorable undercuts, mouth Preparation. The tilt given to the primary cast is tripoded and the same marks are transferred to master cast.

Aims And OBJECTIVES:-

- The Aim Of This Research Is To Digitally Record The Tilt And Transfer The Same Degree Of Tilt To The Master Cast

Objectives:-


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- To Avoid The Need Of Manual Tripoding
- To Determine Accurate Degree Of Tilt

Methods:- modifying the surveying platform -by attaching metal plate below platform ,being secured by thumbscrews .

- detachable mobile holder is attached to the extended metal plate
- Clinometer app – {digital protractor }installed in mobile phone will be held by the mobile holder.
- Cast is placed at zero degree of the surveyor
- Mobile holder is placed on lateral side of the extended metal plate and , following which antero-posterior tilt is given – to determine path of insertion
- Mobile holder is placed on posterior side of the extended metal plate , and mediolateral tilt is given which determines the location of undercut.
- The tilt is recorded in the clinometer app in degrees and documented and same can be transferred to master cast.

Results :- it eliminates the need of manual tripoding which can vary individual to individual .

Conclusion :- it enhances and cases the tripoding and tilt given to the casts .

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POSTGRADUATE INNOVATIVE TECHNIQUES

Title :- An innovative technique to make impression in maxillofacial defects

Introduction :- a simple and innovative impression technique has been devised . it consists of stock trays {plastic } , Foleys catheter. Foleys catheter is a common type of indwelling catheter. It has soft , plastic or rubber tube that is inserted into bladder to drain the urine .

Methodology :- stock { plastic }tray with holes is taken . The foley's catheter is adjusted in such a way that the balloon of catheter is centred towards the maxillary defects. The long tube is pulled down and short tube is also left outside of the tray from opposite hole, to check the depth of the defect , the catheter is placed in the defect and is inflated using water filled syringe {5ml, 10 ml, 20 ml etc .} and the depth of the defect is measured with the help of water filled syringe .the tray adhesive is applied to foleys catheter and tray and elastomeric impression material is used to make the impression of the defect.



Dr. [Signature]

POSTGRADUATE INNOVATIVE TECHNIQUES

BITE PLANE ANALYSER

Introduction :- a device is fabricated which has upper member made of acrylic polymer which is perpendicular to the vertical rod, attached to it. The upper member is parallel to FH plane of the subject and is fixed and stable. Fox plane is attached to vertical rod with the help of hinge attachment , permitting the 180 degrees movement of fox plane .the vertical rod has scale markings engraved on it , helping in to record the height of bite plane . The clinometer app is mounted on outer frame of fox plane. The clinometer helps to record the degree of occlusal plane, in dentulous subjects.




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UNDERGRADUATE INNOVATIVE TECHNIQUES

| DETAILS OF THE PROPOSAL | |
|---|---|
| Title of Research Proposal | Comparative evaluation of tensile strength between custom relined fiber post and conventional fiber post along with assessment of type of failures-An Invitro Study |
| Type of study | Original research |
| Subject Area | Prosthodontics |
| Name of the department where research study will be conducted | Department of Prosthodontics Navodaya dental college Raichur |
| Introduction | <p>Post-retained crowns may present mechanical or biological failures, commonly due to loss of retention. Thus, root canal posts should have enough tensile bond strength to avoid displacement during function. The main function of posts is to aid in crown retention, especially when 50% or more of the remaining coronal structure have been lost⁽¹⁾. The prognosis of endodontically treated teeth depends on many factors ,such of as teeth position in the arch, presence of adjacent teeth, occlusal contact and thickness of the remaining coronal dentin .In some cases, when significant loss of coronal tooth structure is observed, the restoration of endodontically treated teeth often requires intracanal retainers, which required impression before casting in the laboratory casting .More recently , prefabricated post have been widely used as a simplified and less time –consuming procedure that requires fewer visit to dentist for tooth restoration. In addition, these post present appropriate esthetics, elasticity modules similar to dentin and uniform stress distribution along the root which decreases the risk to fracture⁽²⁾.</p> <p>Adhesive cements are indicated for cementation of fiber posts to create mechanically homogenous units, also known as monoblocks. For this purpose, the adhesive cement must have elasticity modulus smaller than the other</p> |


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| | <p>materials so the mechanical effort is transferred from the rigid to the flexible element when the monoblock is submitted to tensions. Furthermore, the adhesive cement absorbs great part of the tension, which avoids stress transferring to dentin and root fracture⁽⁹⁾.</p> <p>So, the aim of this study was to investigate the tensile strength of fiber posts with relining and without relining. The testing null hypotheses are:</p> <p>(I) there will be no difference between the different techniques of fiber post relined and (ii) fiber post without relining. (iii) There would be no differences in bond failure mode between relined and non relined post.</p> |
| Objectives | To evaluate the tensile strength of chair side customised fiber post and conventional fiber post. Followed by analysing bond failure |
| Methodology | <p>Materials :-</p> <ol style="list-style-type: none"> 1. Extracted Maxillary Central Incisors 2. Gutta Percha Points 3. Peesoreamers 4. Glassfiber Post 5. Luting Gic(Rm Gic) 6. Composite Core Build-Up 7. Etchant 8. UTM <p>Twenty extracted maxillary human canines will be used in this study.</p> <p>Group -i:- N10 post with relining</p> <p>Group -ii:-N10 post without relining</p> <p>The teeth will be stored in a 0.1% thymol solution at 9 °C and will be washed with tap water for 24 h for neutralization.</p> <p>The teeth will be endodontically treated. The crowns will be removed and the root length will be standardized to 15 mm with working length of 14 mm. The chemomechanical root canal preparation will be performed according to a crown-down manual technique and the apical stop was prepared with a flexofile instrument up to size 40. The medium and cervical thirds will be prepared using Gattes Gliden drills #2 and #3. Irrigation with 1% NaOCl will be conducted during the whole preparation. At the end, 10 mL of 17% ETDA will be used for irrigation. Final irrigation will be accomplished with 10 mL of distilled water and the canals will be aspirated and dried with absorbent paper points⁽²⁾.</p> |


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| | <p>Followed by application of one layer of composite, and it will be left uncured and will be inserted into the post spaced prepared in canal of the tooth and cured outside the tooth. Subsequently, each layer will be applied and will be resealed into the canal post space and removed and light cured outside. It will be is carried out till the tug fit of the post will be achieved with the canal post space preparation, ones the tug fit will be ensured it will be cemented using RM GIC for group-I. And group II fiber post are cemented with luting GIC.</p> <p>Prepared tooth samples will be held firmly in acrylic resin using elastomeric moulds in vertical position with the help of surveyor in order to minimize the incidence of non-axial forces.</p> <p>The coronal portion of the fiber posts will be prepared with composite resin in order to create an area for grabbing the post with 3/8 shaft connected to the universal testing machine. The samples will be stored in distilled water at 37 °C for 72 hrs and subjected to UTM and the force will be applied at a crosshead speed of 1.0 mm/min until the dislodgement of each post was recorded (kN).Debonded sample will be collected and same will be analysed for the type of failure under magnification and will be classified as follows⁽²⁾:</p> <ol style="list-style-type: none"> 1. adhesive failure at the cement-post interface; 2. adhesive failure at the dentin-cement interface; 3. cohesive failure; 4. Combined failure. |
| <p>Implications</p> | <p>The restoration of endodontically treated teeth often requires intracanal retainers & increase marginal adaptation of the post to the dentin will enhance the retention and reduces the chances of crown dislodgement significantly which is one of the common clinical encounter.</p> |

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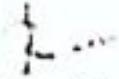
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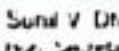
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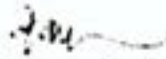
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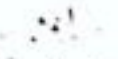
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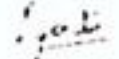

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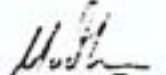

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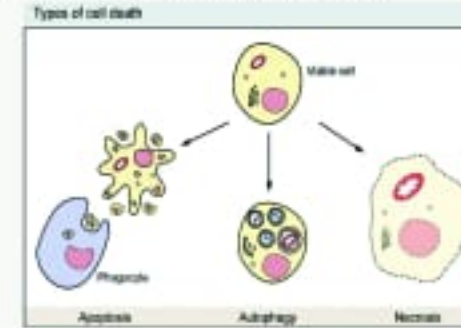
EAT OURSELVES TO LIVE; THE ROLE OF AUTOPHAGY IN HEALTH



CELL DEATH AND ITS TYPES

Cells which are no longer needed, commit suicide by activating an intracellular death program, programmed cell death.

- > They are of 3 types:
 - Apoptosis-type 1
 - Apoptosis-type 2
 - Necrosis – non physiological type of cell death



INTRO:

- A large amount of today's research on autophagy is pioneered by Noboru Mizushima, a nominee for the 2015 Nobel Prize in Medicine or Physiology.
- Mizushima was first intrigued by autophagy when he read an article about newly identified autophagy genes with unique amino-acid sequences.
- Inspired, he joined Dr. Yoshinori Ohsumi, the author of the article, in researching the molecular mechanism and physiological role of autophagy in yeast and mammals.
- Once there, Mizushima began to explore the physiological roles of autophagy. At its most basal level, autophagy is a mechanism by which other organic material is recycled.
- However, this design is modified in different cases to suit various functions. Mizushima categorizes autophagy into groups (microautophagy, macroautophagy, and chaperone-mediated autophagy) that each have specialized methods for delivering certain molecules to the lysosome.
- These specialized autosomes can be distributed to various parts of the body depending on their function. For example, autophagy in the liver is stimulated by amino acids and autophagy in the muscles is instead stimulated by insulin (Naito, Kurita, & Mizushima, 2013).

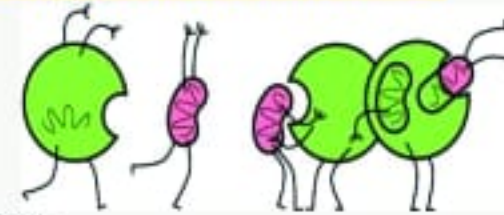
HISTORY OF AUTOPHAGY

- > 1955 - C. de Duve (Nobel prize winner) discovered lysosomes (along with appelman, wattiaux)
 - > 1963 - C. de duve coins the term "autophagy"
 - Hruban et al discovered that cellular material can be sequestered into lysosomes in a process they called focal cytoplasmic degeneration
 - > 1976 - G. Mulimore reveals the role of amino acid and insulin in inhibiting autophagy
 - > 2000 - Y. Ohsumi discovered Atg1 conjugation systems
 - > 2006 - N. Mizushima showed brain specific Atg 5 knockout mouse suffering neurodegeneration [Mizushima categorised autophagy into groups.]
- Last 10 years have witnessed remarkable progress in understanding the topic of autophagy.



AUTOPHAGY: the process of cellular eating

- Autophagy, a catabolic pathway, also an intracellular homeostatic mechanism, important for the degradation of waste components from cytoplasm in acidic lysosomal compartments.
- Under normal conditions autophagy removes damaged proteins and organelles to prevent cell damage.
- Autophagy is highly regulated process.



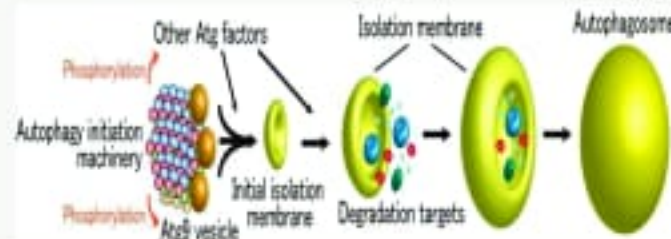
TYPES OF AUTOPHAGY

- In mammalian cells, there are three primary types of autophagy: microautophagy, macroautophagy, and chaperone-mediated autophagy (CMA).

| Type | Process | End |
|------|------------------------------|----------|
| A | Macroautophagy | Lysosome |
| B | Microautophagy | Lysosome |
| C | Chaperone-mediated autophagy | Lysosome |

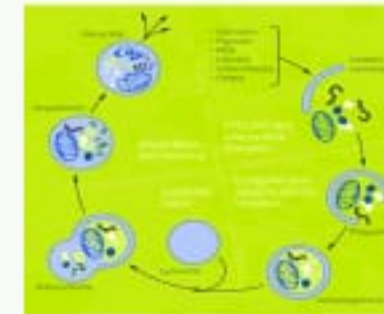
WHAT ACTUALLY ACTIVATES AUTOPHAGY?

- Nutrient deprivation- the key activator of autophagy.
- In mammalian cells, total depletion of amino acids-a strong signal for autophagy.
- Amino acid signals and growth factor / insulin signals are thought to converge on the mTOR pathway – sometimes called the master regulator of nutrient signalling.
- So, during autophagy, old junky cell components are broken down into the component amino acids (the building block of proteins).
- What happens in these amino acids? In the early stages of starvation, amino acid levels start to increase. It is thought that these amino acids derived from autophagy are delivered to the liver for gluconeogenesis. They can also be broken down into glucose through the tricarboxylic acid (TCA) cycle. The third potential fate of amino acids is to be incorporated into new proteins.



OVERVIEW OF AUTOPHAGY PROCESS

- An expanding membrane structure (phagophore) wraps portions of the cytoplasm, formation of a double-membrane sequestering vesicle (autophagosome).
- The autophagosome fuses with the lysosome and releases its inner compartment into the lysosomal lumen.
- The inner membrane part of the autophagosome is degraded together with the enclosed cargo.
- The resulting macromolecules are released into the cytosol for recycling through lysosomal membrane permeases (Mizushima, 2007).



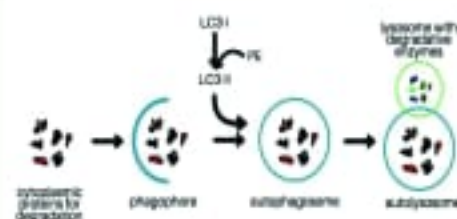
AUTOPHAGY AND FASTING

- **FASTING** ACTUALLY OFFERS THE GREATEST KNOWN BOOST TO AUTOPHAGY;
- When your cells are getting what they need in terms of the nutrients that fuel energy production, autophagy hums along at low, maintenance level speed.
- When our cells are stressed by nutrient deficiencies-AUTOPHAGY induces.
- Glucagon is kind of the opposite hormone to insulin.
- If insulin goes up, glucagon goes down.
- As we eat, insulin goes up and glucagon goes down.
- When we don't eat (FAST) insulin goes down and glucagon goes up.
- This increase in glucagon stimulates the process of autophagy.



MECHANISM OF AUTOPHAGY DURING FASTING

- ✓ Autophagy is also achievable through intermittent fasting just as easily as longer fasts.
- ✓ This mechanism begins when liver glycogen is depleted, around 12-16hrs into a fast. The rate of autophagy peaks there, and then drops after about 2 days.
- ✓ 5 key stages:
 - Phagophore formation or nucleation
 - Atg5 – Atg12 conjugation, interaction with Atg16L & multi-merization at the phagophore.
 - LC3 processing and insertion into the phagophore membrane.
 - Capture of random targets for degradation.
 - Fusion of the autophagosome with the lysosome followed by the proteolytic degradation by lysos



WHAT TURNS OFF AUTOPHAGY?

- Eating. Glucose, insulin (or decreased glucagon) and proteins all turn off this self-cleaning process. And it doesn't take much.
- Even a small amount of amino acid (protein) could stop autophagy cold. So this process of autophagy is unique to FASTING – something not found in simple caloric restriction or dieting.
- There is a balance here, of course. You get sick from too much autophagy as well as too little. Which gets us back to the natural cycle of life – feast and fast. Not constant dieting. This allows for cell growth during eating, and cellular cleansing during fasting – balance.

ROLE OF AUTOPHAGY IN CELLULAR PROCESSES

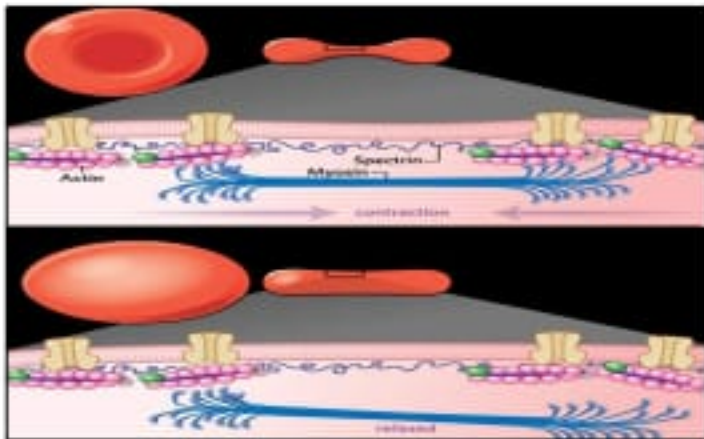


- Autophagy plays a crucial role in several basic cellular and pathological processes.
- As already indicated, nutrient starvation induces a high level of autophagy to maintain cellular energy levels. Furthermore, autophagy plays an important role in innate immunity as pathogens which invade cells (e.g. Mycobacterium tuberculosis) can be targeted for degradation with the same mechanism described above.
- As autophagy leads to the degradation of damaged organelles, it can also function as a repair mechanism. And finally the appearance of autophagosomes is associated with one of the mechanisms of programmed cell death (type II cell-death).

Dimples And Dents Of Red Blood Cells

NCON207

How Do Red Blood Cells Get Their Dimples



How do Red Blood Cells get their Dimples

Myosin protein tugs on the cell membrane, giving an erythrocyte its distinct shape

MyosinIIA interacts with the spectrin-actin membrane skeleton to control red blood cell membrane curvature and deformabilities

Due to the microscopic size of myosin[200 to 450nm] it was tough to image it but now it is possible hence they got the answer for their question that when myosin proteins tug on the red blood cells cytoskeleton membrane, creating an divot at the center

When myosin and actin interact, myosin contracts, the cell membrane stiffens giving the dimple at its center. Inhibiting the motor activity of the protein causes the myosin filaments to expand, so they no longer tug on spectrin and actin

That leads to less tension in the membrane and ultimately the disappearance of the dimple. By expanding and contracting, the myosin filaments likely make it possible for red blood cells to shape-shift as they tumble in the bloodstream's shear flow and squeeze through microvessels such as capillaries, then pop back to their dimpled form

Membrane Defects Of Red Blood Cells

SICKLE CELL ANEMIA

Sickle cell disease occurs when a person inherits two abnormal copies of the hemoglobin gene, one from each parent.

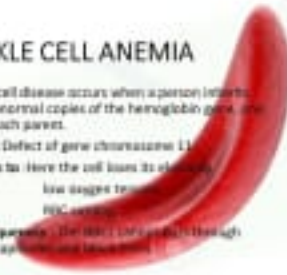
Cause: Defect of gene chromosome 11

Results to: Here the cell loses its elasticity

low oxygen transport

POC anemia

Consequences: (1) RBCs can't push through small capillaries and tissues



ACANTHOCTES

It is also called spur cell. Like sickle cells, pointed stars. Unlike sickle cells, they are reversible.

Causes: due to acquired hemolytic anemia

Advanced liver diseases

Results to: diminished deformability

Consequences: entrapment in spleen & their destruction



ELLIPTOCYTES

Is an autosomal dominant disorder causing elliptically shaped red cells on peripheral blood smear

Cause: weakened horizontal linkages in membrane skeleton

due either to a defective spectrin-actin complex

Or a defective spectrin-actin-ankyrin-4.1 junctional complex

Results to: hypoxia formation

Pyropoikilocytosis

Membrane fragmentation

Low membrane surface area

Consequences: elliptically shaped RBC



SPHEROCYTOSIS

Most Common congenital hemolytic anemia in Caucasians

Cause: The molecular reason is highly heterogeneous involving the genes coding for spectrin, ankyrin, band 3, protein 2 of RBC membrane.

Results to: loss of surface area & leads to spherical shape

Consequences: consistently hemolytic



DEGMATOCYTE

Also known as bite cell

Cause: due to removal of deformed hemoglobin protein by macrophages (bite cells)

Often seen in people receiving large amounts of aromatic drugs or metabolites

Results to: removal of some vascular proteins from cell margin forming bite

Consequences: form bite cells



Red blood cell

It is a basic blood component.

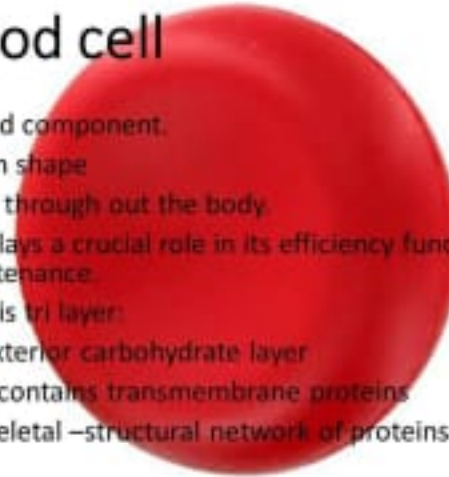
It is **biconcave** in shape

Circulates gases through out the body

Its membrane plays a crucial role in its efficiency function & life span maintenance

The membrane is tri layer:

1. Glycocalyx – exterior carbohydrate layer
2. Lipid bilayer – contains transmembrane proteins
3. Membrane skeletal – structural network of proteins



ECHINOCYTE

Commonly also known as burr cell

Acute hemolysis due to their irregular shape

Cause: usually due to the shrinkage which is a reversible condition of cell membrane

Widely deficiency

Early post transfusion

Results to: their cells are taken out of circulation

Consequences: Splenectomized with transfusion

Obstruct microvessels

Hemolysed RBCs



CODOCYTES

Also known as target cell

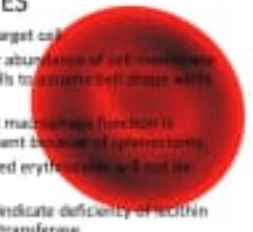
These have over abundance of cell membrane which causes cells to assume oval shape while in circulation.

Cause: if splenic macrophage function is abnormal or absent because of splenectomy

Results to: altered erythrocytes will not be removed.

Consequences: indicate deficiency of acetylcholinesterase

cholesterol acyl transferase.



SCHISTOCYTE

It is an fragmented part of RBC

Cause: due to forced passage of RBCs through thrombus causing RBCs to break into small pieces forming schistocytes

Artificial heart valves

Results to: chances of microangiopathic haemolytic anemia [maha].



DACROCYTES

Also known as tear drop cell.

Cause: severe iron deficiency

Anemia caused by bone marrow not producing normal blood cells due to toxins or tumor cells.

Results to: reflect altered membrane architecture namely myelofibrosis.

Consequences: indicate bone marrow fibrosis.

Acute leukemia's.



STOMATOCYTE

Autosomal dominant disorder. They are erythrocytes with a slit like central pallor

Cause: due to high intracellular sodium as consequence cells inability to regulate osmotic homeostasis

Results to: high sphericity in RBC due to high salt volume without a compensant

High in membrane surface area

Consequences: coffee bean shape of the erythrocytes



SMILE- AN AID OF GENDER DETERMINATION

Introduction:

Every individual in his/her entire life has a photograph of smile. This makes identification as well as dead bodies and remains possible with the help of forensic odontology and medicine.

Aims and Objectives :

The aim of this study was to use only smile from photograph for gender identification by various experienced dental specialists.



FEATURES OF TEETH



While smiling, the anterior teeth are generally exposed; and it is noticed that

1. Women teeth are more rounded and smaller as compared to men's teeth
2. Men's teeth are more angular and larger
3. The male canine seems to be sharper than female

Identification of gender and gender wise distribution

| | Males (30) | Females (70) | Total (100) | Chi-square test | P value | Significance |
|----------------------|------------|--------------|-------------|-----------------|---------|--------------|
| Correctly Identified | 23 | 45 | 68 | 1.479 | 0.224 | NS |
| Wrongly identified | 7 | 25 | 32 | | | |

Discussion:

- The theory behind forensic dentistry is "no two mouths are alike." Forensic dentistry or forensic odontology involves dentists' participation in assisting legal and criminal issues and in the identification of human.
- The major area of activity of forensic odontology is the identification of human beings, either dead or alive. This is more so in case of mass disaster, where the corpse is usually badly mutilated.
- Teeth are good material in living and nonliving population for anthropological, genetic, odontologic, and forensic investigations. This is due to the hardness and high resistance of dental tissues to degradation and putrefaction which enable the teeth to survive for longer periods than other human tissues.
- First step in human identification is gender determination.
- Thus the present study was undertaken to identify the gender by observing the smile by the staff of Department of Oral Pathology
- In this study, photographs of 100 participants were taken.
- The result of the present study implied that out of 100 participants, 70 were females, and 30 were males.
- Out of 100 participants, 68 photographs were correctly identified and 32 were wrongly identified.
- Among males, 23 were correctly identified and 7 were wrongly identified
- Among females, 45 were correctly identified and 25 were wrongly identified
- However, the comparison on identification of gender was not statistically significant.

Conclusion:

This was strictly an educational based study. In this study the staff of Dept of Oral Pathology were included. To conclude

- The accuracy in determining the gender was 68% and 32% was the failure rate , the prediction/determination was performed by 5 faculties from the department and the current Determination accuracy is from the collective input of the faculties

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POST-GRADUATE PAPER & POSTER PRESENTATION

| SL NO | NAME OF THE STUDENT | YEAR OF JOINING | Poster presentation | Paper Presentation | PROF & HEAD |
|-------|---------------------|-----------------|--|---|---------------|
| 1 | DR. MANU ZACHARIS | 2015-2018 | <p>"Recent advances in irrigation system"</p> <p>XVII IACDE & IES NATIONAL CONVENTION BHOPAL 1,2,3 APRIL 2016</p> | <p>EVALUATION AND COMPARISON OF THE EFFICACY OF LINEZOLID , VANCOMYCIN AND CIPROFLOXACIN ON ENTEROCOCCAL INDUCED BIOFILM USING SCANNING ELECTRON MICROSCOPY – IN VITRO STUDY AT 19TH SCIENTIFIC CONGRESS OF ASIAN SPECIFIC ENDODONTIC CONFEDERATION APRIL 5-8TH GURGON, DELHI</p> | DR.S.V SATISH |
| 2 | DR. SAI DUDEKULA | 2016-2019 | | <p>COMPARISON OF THE SEALING ABILITY OF FIVE DIFFERENT RETROGRADE FILLING MATERIALS IN TEETH WITH ROOT APICES RESECTED AT DIFFERENT ANGLES USING FLUORESCENT MICROSCOPE – AN INVITRO STUDY 19TH IACDE-IES NATIONAL PG CONVENTION.GULBARGA</p> | DR.S.V SATISH |
| 3 | DR. ANAND YADAV | 2016-2019 | <p>"Antioxidants in endodontics" Conservative dentistry and Endodontics state conference 8-9th july 2016 Karnool.</p> | <p>TO COMPARE AND EVALUATE THE MICROLEAKAGE IN CLASS 2 CAVITIES WITH THREE DIFFERENT PACABLE COMPOSITES USING CONFOCAL MICROSCOPE IN</p> | DR.S.V SATISH |



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PRINCIPAL
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|-------|---------------------|-----------------|---|--|---------------|
| 4 | DR. ANJALI JAYARAJ | 2017-2020 | <p>1. Thrills without Drilles, cold, atmospheric plasma 32 IACDE & IES NATIONAL CONFERENCE AMHEDABAD 2017</p> <p>2. Take a while, to set the smile- smile disining 19th IACDE & IES PG CONVENTION GULBARGA FEB 2018.</p> | <p>VITRO STUDY AT 19th IACDE-IES NATIONAL PG CONVENTION. GULBARGA</p> <p>1. TO ASSES AND COMPAIR THE INTERAPPOINTMENT PAIN PERSEPTION AMONG SMOKERS & NON SMOKERS IN THE CASE OF SYMPTOMATIC APICAL PERIODONTITIS DURING ENDODONTIC TREATMENT USING USUAL ANALOG SCALE - AN INVIVO STUDY 20th IACDE & IES PG CONVENTION MARCH-2019. CHANDIGARH.</p> <p>2. COMPARATIVE EVALUATION OF EFFICACY VARIOUS ADDATIVES EPINEPHRINE, CLONIDINE, MANNITOL)ALONG WITH 2% LIGNOCAINE IN INFERIOR ALVEOLAR NERVE BLOCK IN THEETH WITH IRREVESIBLE PULPITIS.- AN INVIVO STUDY, 2ND ZONAL CONFERENCE SOUTH IACDE MANGALORE. 2019.</p> | DR.S.V SATISH |
| 5 | DR. ALAN WINSTON | 2018-2021 | <p>1. ENDO-JOURNY WITH BAG 10 & 11th AUGUST 2018. IACDE FIRST ZONAL CONFERENCE CHENNAI.</p> <p>2. WOW IN CLINIC 7-10th MARCH 2019 20th IACDE & IES PG CONVENTION CHANDIGHAR.</p> | <p>1. INVITRO EVALUATION OF SMEARLAYER REMOVAL USING 2.5% SODIUM HYPOCHLORITE, 0.2% CHI TOSAN & 17% EDTA SOLUTION WITH 3 DIFFERENT IRRIGATING SOLUTION EITHER APPLIED ALTERNATIVELY OR MIXED TOGETHER AFETR USING K-FLEXO FILE SYSTEM. 9-10th AUGUST</p> | DR.S.V SATISH |

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|----|------------------------------------|---------------|---|---|---------------|
| | | | | 2019 IACDE 2 ND ZONAL CONFERENCE MANGALORE. | |
| 6 | DR. APARNA V MURALEED HAR | 2018- 2021 | 1.BIOACTIVE GLASS IACDE 1 ZONAL CONFERENCE CHENNAI 10-11 TH AUGUST 2019. 2.THE GENTAL WAVE TECHNOLOGY 20 IACDE &IES PG CONVENTION 2019 CHANDIGHAR | 1 COMPARING THE SEALING ABILITY OF FIVE DIFFERENT RETROGRADEFILLING MATERIAL IN THE TEETH WITH APICES RESECTED WITH DIFFERENT ANGLES BY USING FLOURECENT MICROSCOPE-AN IN- VITRO STUDY.IACDE 2 nd ZONAL CONFERENCE,,MANGL ORE 9-10 August 2019. | DR.S.V SATISH |
| 7. | DR. ARUN KURIAN VERGHESE | 2018-2021 | 1. BIOACTIVE GLASS. IACDE 1 ST ZONAL CONFERENCE,CH ENNAI 10-11 AUGUST 2019. 2.THE NEW AGE IN OBTURATION. 20 TH IACDE &IES PG CONVENTION CHANDIGARH MARCH -2019 | TO EVALUATE & COMPARE THE MICROCRACKS CAUSED BY HYFLEX- EDM,FLEXICON,NEOLI X FILE SYSTEMS VERSUS PROTAPER- NEXT USING MICRO-CT SCAN-AN INVITRO STUDY. IACDE 2 ND ZONAL CONFERENCE,MANGAL ORE 9-10 TH AUGUST 2019. | DR.S.V SATISH |

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POST-GRADUATE PROFILE – RESEARCH PROJECTS

| SL NO | NAME OF THE STUDENT | YEAR OF JOINING | SHORT STUDY PROJECT | THESIS PROJECT | LD PROJECT | PROF & HEAD |
|-------|---------------------|-----------------|--|---|-------------------------------------|---------------|
| 1 | DR. MANU ZACHARIS | 2015-2018 | EFFECT OF RCPREP,PHYTIC ACID,ETIDRONATE ON DENTINAL DEFECT FORMATION DURING ROOT CANAL PREPARATION USING SCANNING ELECTRON MICROSCOPY-AN INVITRO STUDY | EVALUATION AND COMPARISON OF THE EFFICACY OF LINEZOLID , VANCOMYCIN AND CIPROFLOXACIN ON ENTEROCOCCAL INDUCED BIOFILM USING SCANNING ELECTRON MICROSCOPY – IN VITRO STUDY | POST & CORE | DR.S.V SATISH |
| 2 | DR. SAI DUDEKULA | 2016-2019 | COMPARATIVE EVALUATION OF FOUR DIFFERENT REMINERALIZING AGENTS ON THE BLEACHED ENAMEL SURFACE BY USING SEM WITH EDX – AN INVITRO STUDY | COMPARISON OF THE SEALING ABILITY OF FIVE DIFFERENT RETROGRADE FILLING MATERIALS IN TEETH WITH ROOT APICES RESECTED AT DIFFERENT ANGLES USING FLUORESCENT MICROSCOPE – AN INVITRO STUDY | ESTHETICS IN CONSERVATIVE DENTISTRY | DR.S.V SATISH |
| 3 | DR. ANAND YADAV | 2016-2019 | TO COMPARE AND EVALUATE THE MICROLEAKAGE IN CLASS 2 CAVITIES WITH THREE DIFFERENT PACABLE COMPOSITES USING CONFOCAL MICROSCOPEAN IN VITRO STUDY | TO EVALUATE AND COMPARE THE MICROCRACKS CAUSED BY HYFLEX-EDM, FLEXICON, NEOLIX FILE SYSTEMS VERSUS PROTAPER-NEXT USING MICRO-CT SCAN – AN INVITRO STUDY | ENDODONTI C MISHAPS | DR.S.V SATISH |


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| 4 | DR. ROHITH CHADHA | 2016-2019 | | INVITRO EVALUATION OF SMEAR LAYER REMOVAL USING 2.5% SODIUM HYPOCHLORITE, 0.2% CHITOSANE AND 17% EDTA SOLUTION WITH THE THREE DIFFERENT IRRIGATING SOLUTIONS EITHER APPLIED ALTERNATIVELY OR MIXED TOGETHER AFTER USING K-FLEXO FILE SYSTEM, AN SEM STUDY | ENDODONTI C ENDOMETRICS | DR.S.V SATISH |
| 5 | DR. ANJALI JAYARAJ | 2017-2020 | TO ASSESS AND COMPARE THE INTER APPOINTMENT PAIN PERCEPTION AMONG THE SMOKERS AND NON SMOKERS IN CASE OF SYMPTOMATIC APICAL PERIODONTITIS DURING ENDODONTIC TREATMENT USING VISUAL ANALOGUE SCALE - AN INVITRO STUDY | COMPARATIVE EVALUATION OF APICAL MICROLEAKAGE IN IMMEDIATE AND DELAYED POST - SPACE PREPARATION USING FOUR DIFFERENT ROOT CANAL SEALERS BY USING STEREOMICROSCOPE - AN INVITRO STUDY | COMPOSITE | DR.S.V SATISH |
| 5 | DR. JINTU C THOMAS | 2017-2020 | COMPARATIVE EVALUATION OF THE AREA OF SEALER VOIDS WITH CALCIUM HYDROXIDE, EPOXY RESIN AND TRICALCIUM SILICATE BASED SEALERS IN SINGLE CONE OBTURATION - AN INVITRO STUDY | COMPARATIVE EVALUATION OF APICALLY EXTRUDED DEBRIS WITH HYFLEX EDM, MTWO AND SELF ADJUSTING FILE SYSTEMS -AN INVITRO STUDY | REGENERATIVE ENDODONTICS | DR.S.V SATISH |

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| 6 | DR. ALAN WINSTON | 2018-2021 | COMPARATIVE EVALUATION OF THE EFFECTIVENESS OF SALINE, CHLORHEXIDINE AND OZONE IRRIGATING SOLUTIONS ON MICRO-ORGANISMS IN THE ROOT CANAL - INVIVO STUDY | COMPARATIVE EVALUATION OF MICROLEAKAGE OF BIODENTINE AND GERISTORE ROOT END FILLING MATERIALS IN DRY, SALIVA AND BLOOD CONTAMINATED ENVIRONMENTS - A FLUORESCENT MICROSCOPE STUDY | CURRENT ADHESION STRATEGY | DR.S.V SATISH |
| 7 | DR. APARNA V MURALEEDHAR | 2018-2021 | COMPARATIVE EVALUATION OF EFFICACY OF THREE DIFFERENT ROTARY RE TREATMENT SYSTEMS WITH MANUAL INSTRUMENTATION IN REMOVING GUTTA PERCHA FROM ROOT CANAL :AN INVITRO STUDY | COMPARATIVE EVALUATION OF THE FRACTURE RESISTANCE OF ROOTS AFTER APPLICATION OF THREE DIFFERENT ROOT CANAL SEALERS - AH PLUS , MTA FILLAPEX AND BIOROOT RCS - AN INVITRO STUDY | BIOMEMETICS | DR.S.V SATISH |
| 8 | DR. ARUN KURIAN VERGHESE | 2018-2021 | COMPARATIVE EVALUATION OF THE CHANGES IN SURFACE TOPOGRAPHY AND CRYSTALLIZATION OF GUTTAPERCHA CONES BY FOUR CHEMICAL SOLUTIONS - AN SEM STUDY | COMPARATIVE EVALUATION OF THE EFFICACY OF DIODE LASER, ENDOACTIVATOR, PASSIVE ULTRASONIC IRRIGANT AND MANUAL IRRIGATION ACTIVATION SYSTEMS IN DEBRIDEMENT OF ROOT CANAL. ISTHMUS - AN INVITRO STUDY | ROTARY ENDODONTICS | DR.S.V SATISH |


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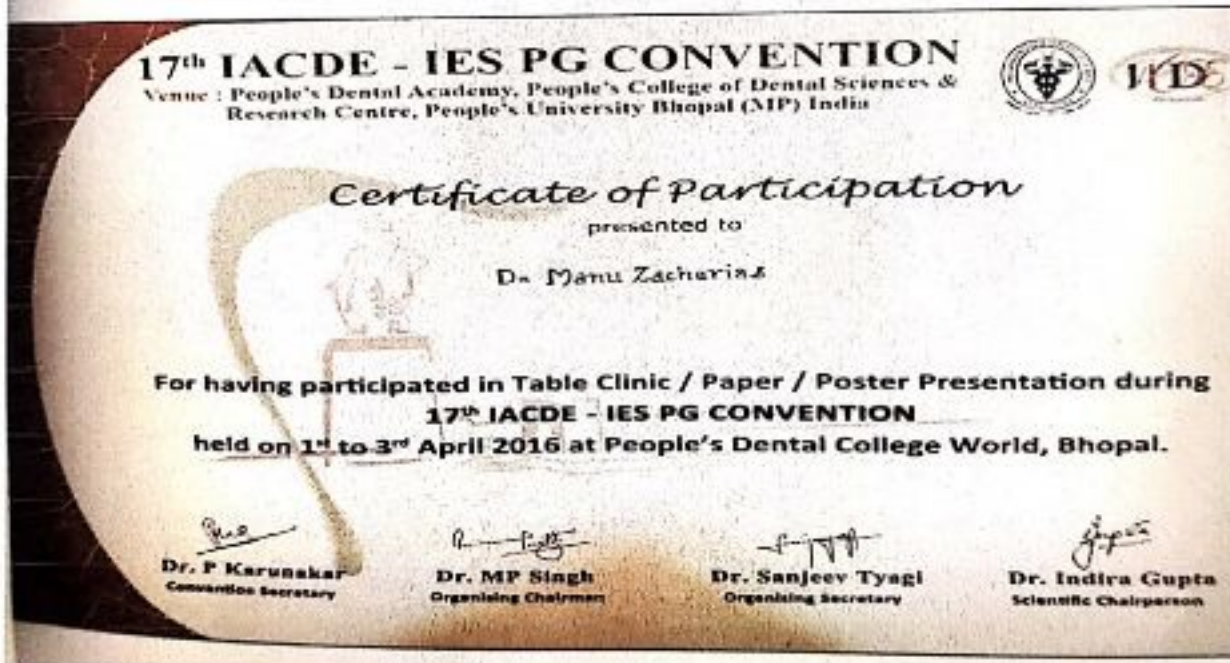
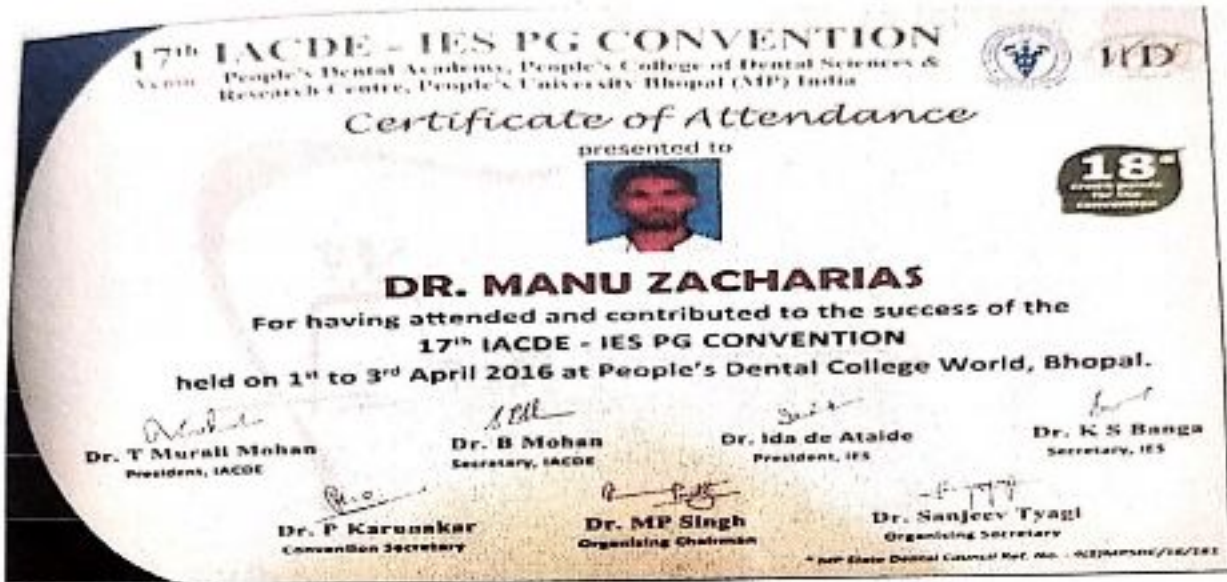
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| 6 | DR. APARNA V MURALEED HAR | 2018- 2021 | <p>1.BIOACTIVE GLASS IACDE 1 ZONAL CONFERENCE CHENNAI 10-11TH AUGUST 2019.</p> <p>2.THE GENTAL WAVE TECHNOLOGY 20 IACDE &IES PG CONVENTION 2019 CHANDIGHAR</p> | <p>1 COMPARING THE SEALING ABILITY OF FIVE DIFFERENT RETROGRADE FILLING MATERIAL IN THE TEETH WITH APICES RESECTED WITH DIFFERENT ANGLES BY USING FLOURECENT MICROSCOPE-AN IN- VITRO STUDY.IACDE 2nd ZONAL CONFERENCE,,MANGL ORE 9-10 August 2019.</p> | DR.S.V SATISH |
| 7. | DR. ARUN KURIAN VERGHESE | 2018-2021 | <p>1. BIOACTIVE GLASS. IACDE 1ST ZONAL CONFERENCE,CH ENNAI 10-11 AUGUST 2019.</p> <p>2.THE NEW AGE IN OBTURATION. 20TH IACDE &IES PG CONVENTION CHANDIGARH MARCH -2019</p> | <p>TO EVALUATE & COMPARE THE MICROCRACKS CAUSED BY HYFLEX- EDM,FLEXICON,NEOLI X FILE SYSTEMS VERSUS PROTAPER- NEXT USING MICRO-CT SCAN-AN INVITRO STUDY. IACDE 2ND ZONAL CONFERENCE,MANGAL ORE 9-10TH AUGUST 2019.</p> | DR.S.V SATISH |



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PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.

| SL NO | NAME OF THE STUDENT | YEAR OF JOINING | Poster presentation | Paper Presentation | PROF & HEAD |
|-------|---------------------|-----------------|---|--|---------------|
| 1 | DR. MANU ZACHARIS | 2015-2018 | <p>"Recent advances in irrigation system"</p> <p>XVII IACDE & IES NATIONAL CONVENTION BHOPAL 1,2,3 APRIL 2016</p> | <p>EVALUATION AND COMPARISON OF THE EFFICACY OF LINEZOLID , VANCOMYCIN AND CIPROFLOXACIN ON ENTEROCOCCAL INDUCED BIOFILM USING SCANNING ELECTRON MICROSCOPY - IN VITRO STUDY AT 19TH SCIENTIFIC CONGRESS OF ASIAN SPECIFIC ENDODONTIC CONFEDERATION APRIL 5- 8TH GURGON, DELHI</p> | DR.S.V SATISH |

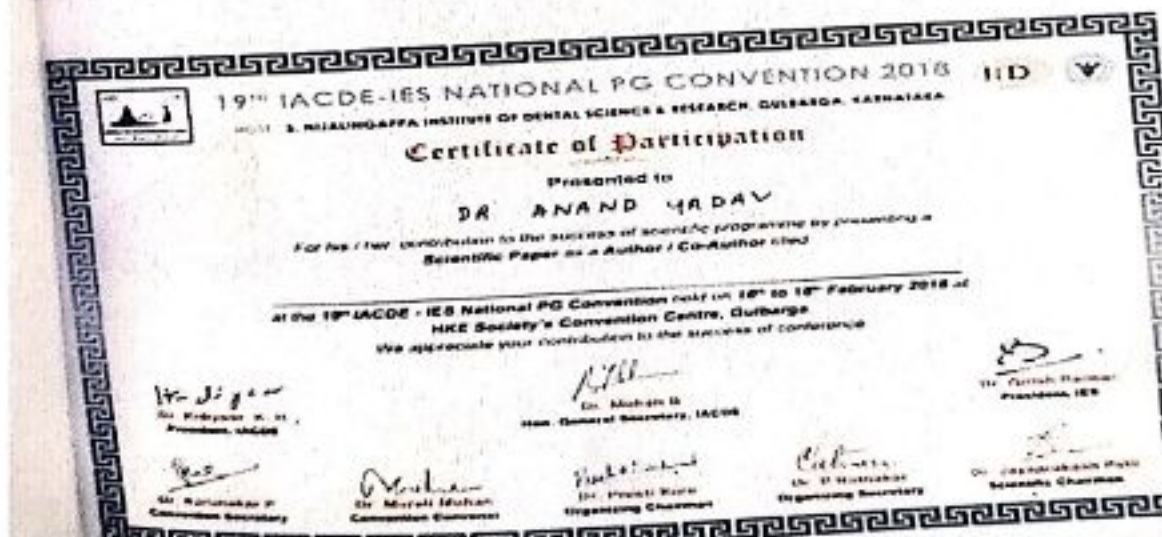
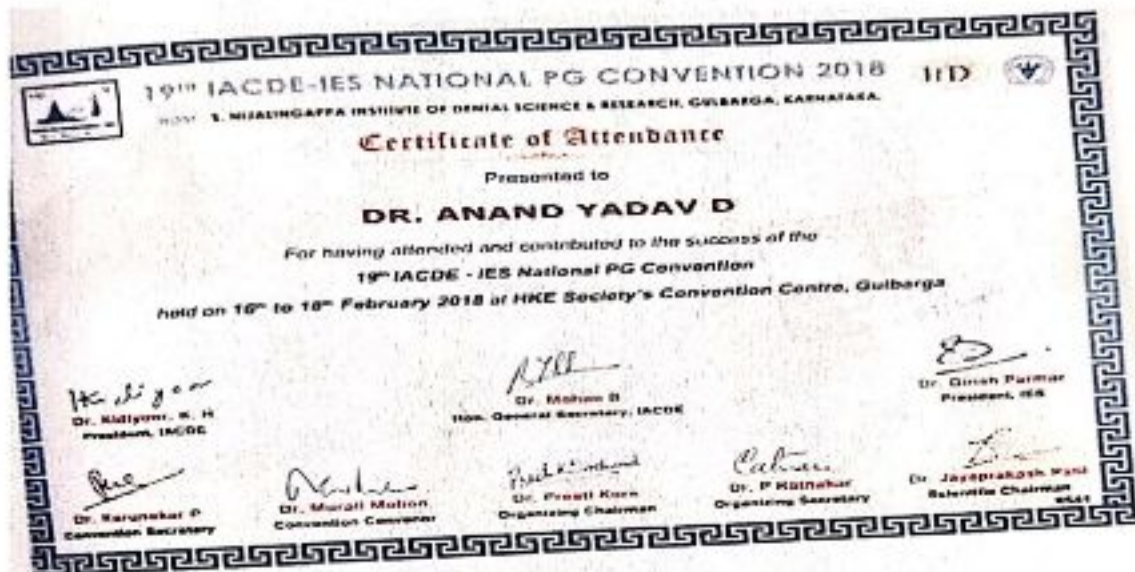


Dr.
Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.




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PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.

| | | | | | |
|---|-----------------|-----------|---|---|---------------|
| 3 | DR. ANAND YADAV | 2016-2019 | "Antioxidants in endodontics" Conservative dentistry and Endodontics state conference 8-9 th July 2016 Karnool. | TO COMPARE AND EVALUATE THE MICROLEAKAGE IN CLASS 2 CAVITIES WITH THREE DIFFERENT PACABLE COMPOSITES USING CONFOCAL MICROSCOPEAN IN VITRO STUDY AT 19 TH IACDE-IES NATIONAL PG CONVENTION.GULBARGA | DR.S.V SATISH |
|---|-----------------|-----------|---|---|---------------|



Dr. Girish Katti
Dr. GIRISH KATTI M.D.S.
PRINCIPAL
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| | | | | | |
|---|--------------------|-----------|--|--|---------------|
| 4 | DR. ANJALI JAYARAJ | 2017-2020 | <p>1. Thrills without Drilles, cold, atmospheric plasma 32 IACDE & IES NATIONAL CONFERENCE AMHEDABAD 2017</p> <p>2. Take a while, to set the smile- smiledisining 19th IACDE & IES PG CONVENTION GULBARGA FEB 2018.</p> | <p>1. TO ASSES AND COMPAIR THE INTERAPPOINTMENT PAIN PERSEPTION AMONG SMOKERS & NON SMOKERS IN THE CASE OF SYMPTOMATIC APICAL PERIODONTITIS DURING ENDODONTIC TREATMENT USING USUAL ANALOG SCALE - AN INVIVO STUDY 20TH IACDE & IES PG CONVENTION MARCH-2019. CHANDIGARH.</p> <p>2. COMPARATIVE EVALUATION OF EFFICACY VARIOUS ADDATIVES EPINEPHIRINE, CLONIDINE, MANNITOL)ALONG WITH 2% LIGNOCAINE IN INFERIOR ALVEOLAR NERVE BLOCK IN THEETH WITH IRREVESIBLE PULPITIS.- AN INVIVO STUDY, 2ND ZONAL CONFERENCE SOUTH IACDE MANGALORE, 2019.</p> | DR.S.V SATISH |
|---|--------------------|-----------|--|--|---------------|



[Signature]
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XXXI National IAOMR Conference

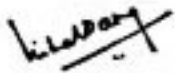
15th 16th & 17th November 2019,
Hyatt Regency, Amritsar

Certificate Of Scientific Presentation

Certified that

Dr. Asma R. Maniyar has
presented Student / Faculty Paper / Poster Titled Determination of Gender
By using Mandibular Ramus Posterior Flange -
A Radiographic Study in

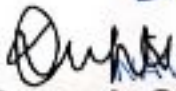
XXXI National Conference of
Indian Academy of Oral Medicine & Radiology held on 15th 16th & 17th November 2019
at Hyatt Regency, Amritsar


Dr. Vishal Dang
President IAOMR


Dr. Satheesha Reddy
Hon. Secretary IAOMR


Dr. Soheyl Sheikh
Organizing Chairman


Dr. Amit Aggarwal
Organizing Secretary


Dr. Deepak Gupta
Scientific Chairman

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17th National Triple O Symposium, Mumbai March 15th to 17th 2019

Bridging Disciplines in Diagnosing and Treating Oral Diseases
(under the aegis of IAOMR and NHDC)



Certificate of Participation

This is to certify that

ASMA MANIYAR

*has actively participated in Scientific Paper Presentation / Poster Presentation /
Quiz / Essay Competition and contributed towards
the success of the conference*

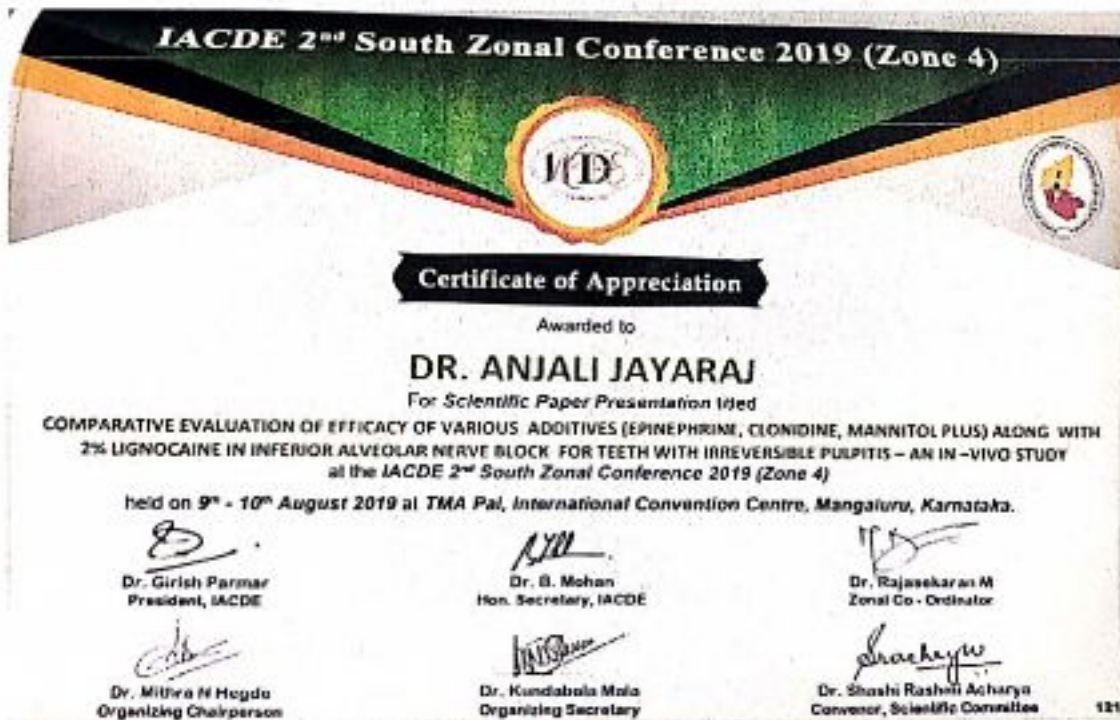
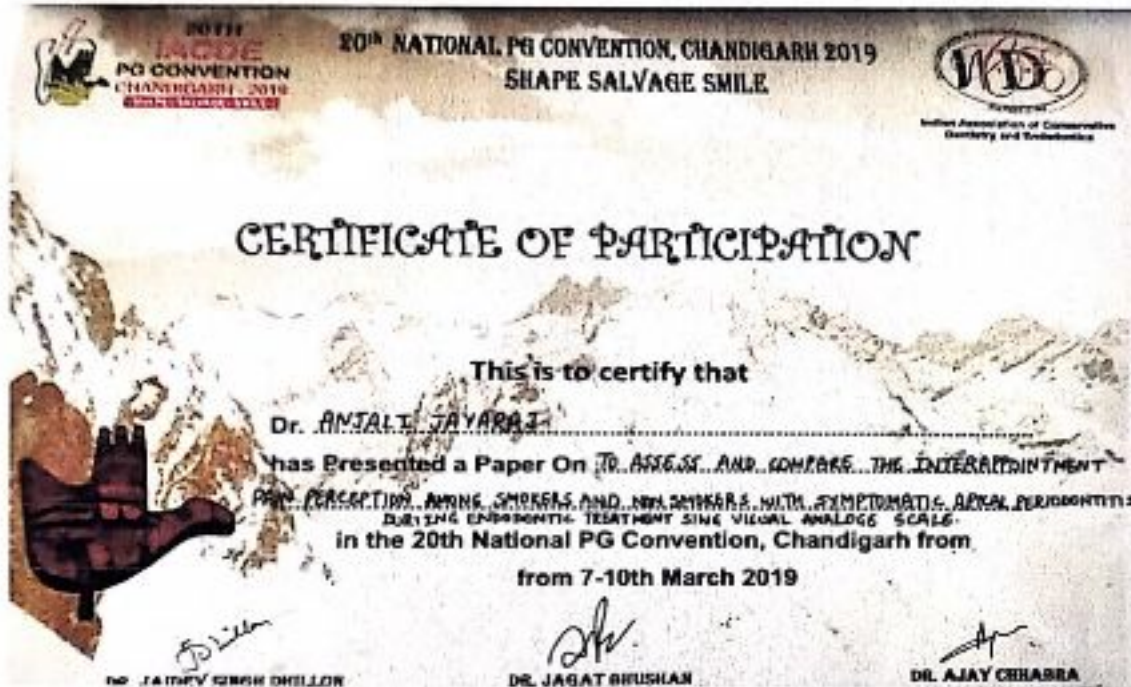
Dr. Vishal Dang
President IAOMR

Dr. Satheesha Reddy B. H
Hon. Gen. Secretary IAOMR

Dr. Freny R. Karjodkar
Organizing Chairperson

Dr. V. Sreenivasan
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Scientific Chairperson

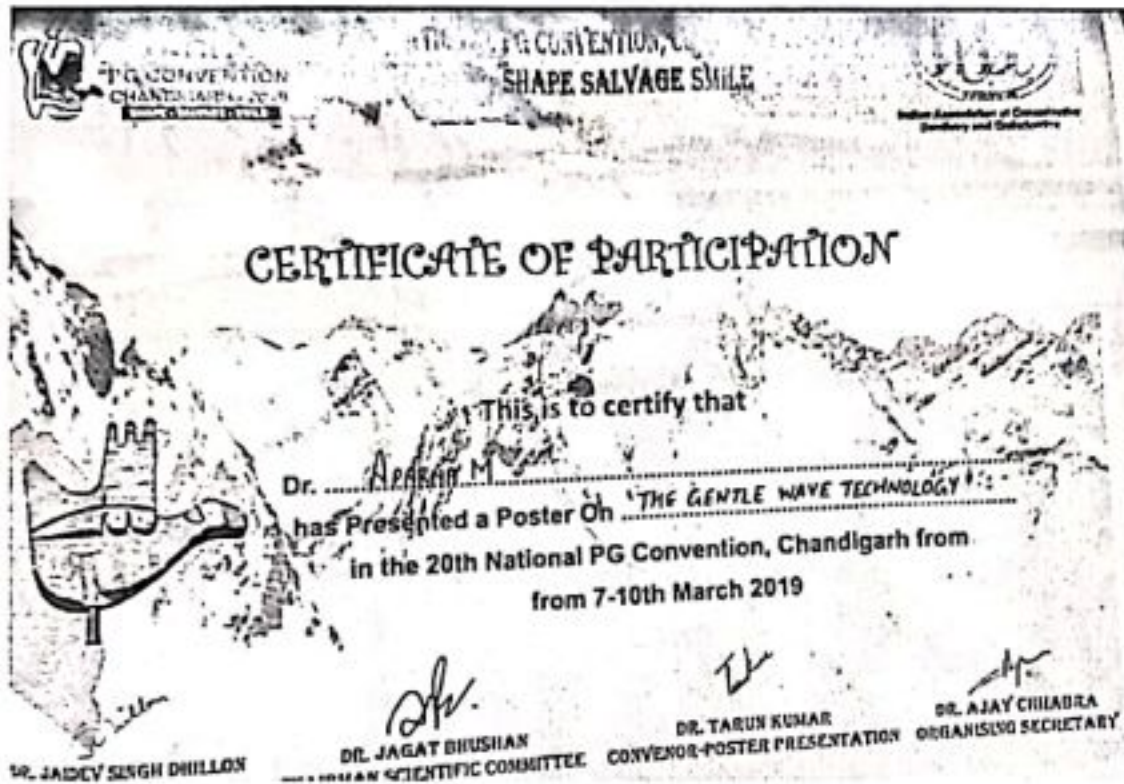


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| | | | | | |
|---|--------------------------------|-----------|---|--|---------------|
| 6 | DR. APARNA V MURALEEDHAR | 2018-2021 | 1.BIOACTIVE GLASS IACDE 1 ZONAL CONFERENCE CHENNAI 10-11 TH AUGUST 2019. 2.THE GENTAL WAVE TECHNOLOGY 20 IACDE & IES PG CONVENTION 2019 CHANDIGHAR | I COMPARING THE SEALING ABILITY OF FIVE DIFFERENT RETROGRADE FILLING MATERIAL IN THE TEETH WITH APICES RESECTED WITH DIFFERENT ANGLES BY USING FLOURECENT MICROSCOPE-AN IN- VITRO STUDY.IACDE 2 ND ZONAL CONFERENCE,,MANGL ORE 9-10 August 2019. | DR.S.V SATISH |
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Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.




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National IAOMR PG Convention 2019 Bengaluru



Oral Medicine & Imaging in the next decade - Way Forward

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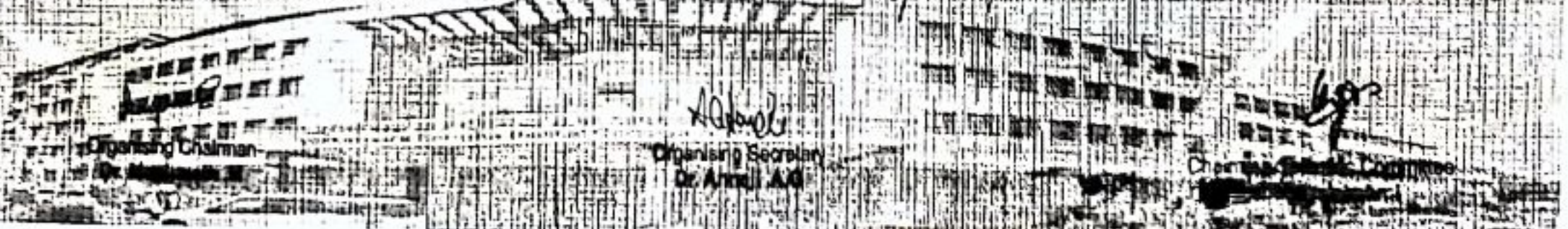
Dr. Asma R. Maniyar

For presenting a Paper / Poster titled

*The link between Body Posture even Temporomandibular disorders,
dental occlusion and sleep apnea: A Review.*

[Signature]

DR. GIRISH K. VITTHALS
PRINCIPAL
NAVODAYA DENTAL COLLEGE
BANGALURU




Organising Chairman
[Signature]

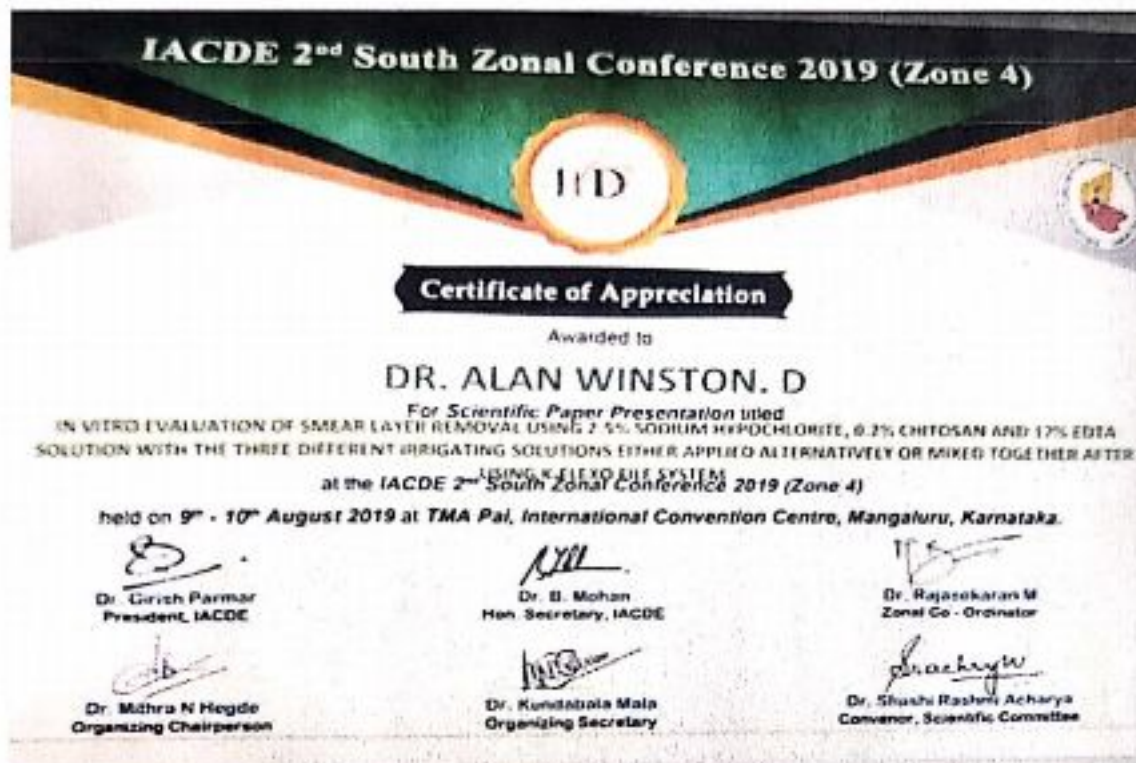
Organising Secretary
Dr. Anjali A.G.

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Chairman, IAOMR

| | | | | | |
|---|------------------|-----------|--|---|------------------|
| 5 | DR. ALAN WINSTON | 2018-2021 | <p>1. ENDO-JOURNEY WITH BAG 10 & 11TH AUGUST 2018. IACDE FIRST ZONAL CONFERENCE CHENNAI.</p> <p>2. WOW IN CLINIC 7-10TH MARCH 2019 20TH IACDE & IES PG CONVENTION CHANDIGARH.</p> | <p>1. INVITRO EVALUATION OF SMEAR LAYER REMOVAL USING 2.5% SODIUM HYPOCHLORITE, 0.2% CHITOSAN & 17% EDTA SOLUTION WITH 3 DIFFERENT IRRIGATING SOLUTION EITHER APPLIED ALTERNATIVELY OR MIXED TOGETHER AFTER USING K-FLEXO FILE SYSTEM. 9-10TH AUGUST 2019 IACDE 2ND ZONAL CONFERENCE MANGALORE.</p> | DR. S. V. SATISH |
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Dr. GIRISH KATTI M.D.S.
 PRINCIPAL
 NAVODAYA DENTAL COLLEGE
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IACDE 2nd South Zonal Conference 2019 (Zone 4)



Certificate of Appreciation

Awarded to

DR. ARUN KURIAN VARGHESE

For Scientific Paper Presentation titled

TO COMPARE AND EVALUATE THE MICRO CRACKS CAUSED BY HYFLEX-EDM, FLEXICON, NEOLIX FILE SYSTEMS VERSUS PROTAPER NEXT USING MICRO-CT SCAN: AN IN-VITRO STUDY.
at the IACDE 2nd South Zonal Conference 2019 (Zone 4)

held on 9th - 10th August 2019 at TMA Pal, International Convention Centre, Mangaluru, Karnataka.

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President, IACDE

Dr. B. Mohan
Hon. Secretary, IACDE

Dr. Rajasakaran M
Zonal Co-Ordinator

Dr. Mihra N Hegde
Organizing Chairperson

Dr. Kundabala Mola
Organizing Secretary

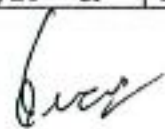
Dr. Shashi Rashmi Acharya
Convener, Scientific Committee

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| SL NO | NAME OF THE STUDENT | YEAR OF JOINING | Poster presentation | Paper Presentation | PROF & HEAD |
|-------|---------------------|-----------------|--|--|---------------|
| 1 | DR. MANZOOR | 2019-2022 | | | DR.S.V SATISH |
| 2 | DR.ANAGHA JUKANTI | 2019-2022 | <p>RECENT ADVANCES IN CARIES DETECTION - IACDE 2ND SOUTH ZONAL CONFERENCE, MANGALORE ON 9TH & 10TH AUGUST 2019</p> <p>2. DENTALIS STIPES - 36TH IACDE NATIONAL PG CONVENTION & 21ST IACDE NATIONAL PG CONVENTION BELAGAVI 19TH, 20TH & 21ST NOV BELAGAVI</p> | <p>COMPARATIVE EVALUATION OF MICROLEAKAGE OF BIODENTIN & GERISTORE ROOT END FILLING MATERIALS IN DRY, SALIVA AND BLOOD CONTAMINATED ENVIRONMENTS – A FUOROSCENT MICROSCOPE STUDY. - 12TH IFEA WORLD ENDODONTIC CONGRESS 2020NE & 29TH NATIONAL CONGRESS OF INDIAN ENDODONTIC SOCIETY 12TH – 14TH AUGUST 2021</p> | DR.S.V SATISH |
| 3 | DR. ANILA VINOY | 2019-2022 | <p>THE “ D LAYER THERAPY” IACDE 2ND SOUTH ZONAL CONFERENCE, MANGALORE ON 9TH & 10TH AUGUST 2019</p> | <p>COMPARATIVE EVALUATION OF THE EFFICACY OF DIODE LASER, ENDOACTIVATOR, PASSIVE ULTRASONIC IRRIGATION AND MANUAL IRRIGATION ACTIVATION</p> | DR.S.V SATISH |


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| SL NO | NAME OF THE STUDENT | YEAR OF JOINING | Poster presentation | Paper Presentation | PROF & HEAD |
|-------|---------------------|-----------------|---|--|---------------|
| | | | 2. A NEW DWAN IN DENTISTRY - NANOTECHNOLOGY 36 TH IACDE NATIONAL PG CONVENTION & 21 ST IACDE NATIONAL PG CONVENTION - BELAGAVI 19 TH , 20 TH & 21 ST NOV BELAGAVI | SYSTEMS IN DEBRIDEMENT OF ROOT CANAL ISTHMUS - AN IN VITRO STUDY - 12 TH IFEA WORLD ENDODONTIC CONGRESS 2020NE & 29 TH NATIONAL CONGRESS OF INDIAN ENDODONTIC SOCIETY 12 TH - 14 TH AUGUST 2021 | |
| 4 | DR. DEEPA | 2020-2023 | SOMNUM EXTERRERI OF ENDODONTIC S - 36 TH IACDE NATIONAL PG CONVENTION & 21 ST IACDE NATIONAL PG CONVENTION - BELAGAVI 19 TH , 20 TH & 21 ST NOV BELAGAVI | COMPARATIVE EVALUATION OF APICALLY EXTRUDED DEBRIS WITH HYFLEX EDM, MTWO AND SELF ADJUSTING FILE SYSTEMS: AN IN VITRO STUDY - 12 TH IFEA WORLD ENDODONTIC CONGRESS 2020NE & 29 TH NATIONAL CONGRESS OF INDIAN ENDODONTIC SOCIETY 12 TH - 14 TH AUGUST 2021 | DR.S.V SATISH |
| 5 | DR. SRAVYA | 2020-2023 | SOMNUM EXTERRERI OF ENDODONTIC S - 36 TH IACDE NATIONAL PG CONVENTION & 21 ST IACDE NATIONAL PG CONVENTION - BELAGAVI 19 TH , 20 TH & | COMPARATIVE EVALUATION OF APICALLY EXTRUDED DEBRIS WITH HYFLEX EDM, MTWO AND SELF ADJUSTING FILE SYSTEMS: AN IN VITRO STUDY - 12 TH IFEA WORLD ENDODONTIC CONGRESS 2020NE & 29 TH NATIONAL CONGRESS OF INDIAN ENDODONTIC | DR.S.V SATISH |



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| | | | 21ST NOV BELAGAVI | SOCIETY 12TH - 14TH AUGUST 2021 | |
| 6 | DR. RADHA MADHAVI | 2020-2023 | SOMNUM EXTERRERI OF ENDODONTIC S - 36TH IACDE NATIONAL PG CONVENTION & 21ST IACDE NATIONAL PG CONVENTION - BELAGAVI 19TH, 20TH & 21ST NOV BELAGAVI | | DR.S.V SATISH |
| 7. | DR. ARUN KURIAN VERGHESE | 2018-2021 | 1. BIOACTIVE GLASS. IACDE 1ST ZONAL CONFERENCE,C HENNAI 10-11 AUGUST 2019. 2.THE NEW AGE IN OBTURATION. 20TH IACDE & IES PG CONVENTION CHANDIGARH MARCH -2019 | TO EVALUATE & COMPARE THE MICROCRACKS CAUSED BY HYFLEX- EDM,FLEXICON,NEOLI X FILE SYSTEMS VERSUS PROTAPER- NEXT USING MICRO-CT SCAN-AN INVITRO STUDY. IACDE 2ND ZONAL CONFERENCE,MANGAL ORE 9-10TH AUGUST 2019. | DR.S.V SATISH |

Girish

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PRINCIPAL
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RAICHUR-584,103.

**NAVODAYA DENTAL COLLEGE & HOSPITAL
DEPARTMENT OF ORAL MEDICINE & RADIOLOGY**

| Name of the Student | Poster Presentation Topic | Presented at | Paper Presentation topic | presented at | Short studies |
|--------------------------------|---|---|--|--|--|
| Dr. Chitturi Prashanthi | Evidence based link between TMD – Dental occlusion – Body posture | National IAOMR PG Convention 2019 BENGALURU | Knowledge And Ability To Manage Medical Emergencies Among Dental Students | 31 st National IAOMR Conference Indian Academy of Oral Medicine & Radiology – Amristar 2019 | Knowledge And Ability To Manage Medical Emergencies Among Dental Students |
| | | | Association of Diagonal Earlobe Crease and Calcified Carotid Artery Plaque among Indian population - A Pilot Study | 18 th National Triple O symposium – Delhi 2020 | Association of Diagonal Earlobe Crease and Calcified Carotid Artery Plaque among Indian population - A Pilot Study |
| | | | Clear Cell Carcinoma – A Rare and Distinct Entity | 32 nd National IAOMR Conference Indian Academy of Oral Medicine & Radiology –Khammam 2021 | |

| | | | | | |
|---------------------------|--|--|---|--|---|
| Dr. Amreen Alam | Neuromuscular dentistry and right bite protocol | Indian academy of oral medicine and radiology XXX National Conference 2018 | Infraorbital ethmoid (Haller's) cells: Prevalence on panoramic radiographs- A retrospective study | 17 th National Triple O symposium –Mumbai 2019 | Infraorbital ethmoid (Haller's) cells: Prevalence on panoramic radiographs- A retrospective study |
| | | | Determination of gender using mastoid process | 31 st National IAOMR Conference Indian Academy of Oral Medicine & Radiology – Amristar 2019 | Determination of gender using mastoid process |
| Dr. Asma R Maniyar | Autoimmune disease –the oral and dermatological lineage | 17 th National Triple O Symposium 2019 at Mumbai | “ The link between body posture ,TMJ Disorders ,Dental Occlusion And Sleep Apnea: A Review | National IAOMR PG Convention 2019 Bangalore | “Determination of Gender by Using Mandibular Ramus Posterior Flexure –A Radiographic Study |
| | | | “Determination of Gender by Using Mandibular Ramus Posterior Flexure –A Radiographic Study | XXXI National Indian Academy of Oral Medicine and Radiology Conference 2019 Amritsar | |
| Dr. Priyadarshini | | | A 5-year retrospective study on odontogenic tumors | 15 th National Triple O Symposium – Belgaum 2017 | A 5-year retrospective study on odontogenic tumors |
| | | | Assessment Of Mandibular canal and Its Variations Using CBCT | National IAOMR conference 2016 at Kanyakumari | |

| | | | | | |
|----------------------|---|---|---|---|---|
| | | | Knowledge awareness and practice of digital imaging including cbct among dental professionals | National IAOMR PG Convention 2018 - Vijayawada | |
| Dr. Sarah | Oral Mucositis – a Chillies Heal in Head & Neck Cancer | | | | Prevalence of third molar agenesis between the individuals of kerala and Bhutan : A comparative study |
| | | | | | |
| Dr.Jyothsna J | TOBACCO: A silent killer and an awareness step towards its cessation. | 26 TH National Conference of IAOMR 2014 at Mangalore | 1.“MYSTERY”- <i>Behind PALMISTRY</i> - A clinical study | National IAOMR PG Convention 2015 at Chennai | Dermatoglyphics – in patients with oral potentially malignant disorders and oral cancer |
| | | | 2.The effect of different forms of areca nut on the buccal mucosa - Experimental animal study | 27 th National conference of IAOMR 2015 at Hyderabad | The effect of different forms of areca nut on the buccal mucosa - Experimental animal study |

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| | | | 3. Oral cancer in the new millenium –the challenges ahead | 13 TH Triple O Symposium 2015 at Bangalore | |
| | | | 4. Knowledge, attitude and practice of dental professionals about tobacco control programme- A cross sectional survey | 14 TH Triple o symposium 2016 at Meerut | Knowledge, attitude and practice of dental professionals about tobacco control programme- A cross sectional survey |
| Dr. Asmita P Nandre | Tmj Imaging By Cbct-Transform 2d To 3d | Iaomr –National Post Graduate Convention 2014 | Prevalence Of Oral Mucosal Changes In South Indians With Tobacco And Related Habits – A Cross – Sectional Study. | 26 th National Conference Of Iaomr 2014 – Bangalore | |
| | | | Holistic Approach In Management Of Oral Cancer – A Review. | XIII NATIONAL TRIPLO O SYMPOSIUM | |

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| | | | ACCURACY OF PREDICTING AGE FROM MANDIBULAR 3 RD MOLARS USING DEMIRJIAN'S REVISED METHOD AND KOHLER ET AL METHOD – A COMPARATIVE STUDY | 13 TH IAFO NATIONAL CONFERENCE | |
| Dr. Bushra Karobari | Diagnostic and therapeutic uses of USG in orofacial Diseases | National PG convention in Oral Medicine and Radiology in Chennai 2015 | “Oral Candida carriage among tobacco users with and without associated oral mucosal lesions” | National IAOMR Conference in Hyderabad 2015 | “Oral Candida carriage among tobacco users with and without associated oral mucosal lesions” |
| | | | “A new try to treat dry” | XIV National Triple O Symposium 2016 at Meerut | Stress and stress related factors in RAU patients |
| | | | Stress and stress related | National IAOMR Conference at | |

| | | | | | |
|-------------|--|--|-------------------------|------------------|---|
| | | | factors in RAU patients | Kanyakumari 2016 | |
| Dr. Anasuya | | | | | Comparative evaluation of Horizontal Magnification on Digital and Conventional Panoramic images |



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Dr. Prashant B Patil, Prof & Head Department of Oral Medicine & Radiology of our institution, Navodaya Dental College & Hospital Raichur, The project was guided and self supported for the duration of 1 year. As a result of their joint research, we submitted a research work titled **“ROLE OF MAXILLARY SINUS IN SEX DETERMINATION- MORPHOMETRIC ANALYSIS USING CBCT”** to **RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES BANGALORE**.


**RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES, BENGALURU,
KARNATAKA**



**ENDORSEMENT BY THE HOD, PRINCIPAL/HEAD OF THE
INSTITUTION**

This is to certify that the dissertation entitled **“ROLE OF MAXILLARY SINUS IN SEX DETERMINATION: MORPHOMETRIC ANALYSIS USING CONE BEAM COMPUTED TOMOGRAPHY”** is a bonafide research work done by **Dr. CHITTURI PRASHANTHI** in partial fulfillment of the requirements for the degree of Master of Dental Surgery in Department of Oral Medicine and Radiology.


PROF. & HEAD
Dept. of Oral Medicine & Radiology
Navodaya Dental College, Raichur
Dr. PRASHANT B PATIL
Professor and HOD
Department of Oral Medicine
and Radiology,
Navodaya Dental College & Hospital
Raichur - 584103


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Dr. Prashant B Patil, Prof & Head Department of Oral Medicine & Radiology of our institution, Navodaya Dental College & Hospital Raichur, The project was guided and self supported for the duration of 1 year. As a result of their joint research, we submitted a research work titled **“PREVALENCE OF TOBACCO CONSUMPTION, KNOWLEDGE ON TOBACCO LEGISLATION AND AWARENESS OF TOBACCO RELATED HEALTH HAZARDS AMONG ADOLESCENTS IN RAICHUR DISTRICT”** to **RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES BANGALORE**.

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BANGALORE, KARNATAKA**



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INSTITUTION**

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Dr. PRASHANT B PATIL

Professor and Head
Department of Oral Medicine and
Radiology,
Navodaya Dental College & Hospital,
Raichur – 584103


Dr. VANISHREE

Principal,
Navodaya Dental College &
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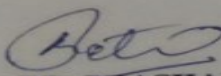
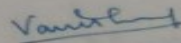
Dr. Prashant B Patil, Prof & Head Department of Oral Medicine & Radiology of our institution, Navodaya Dental College & Hospital Raichur, The project was guided and self supported for the duration of 1 year. As a result of their joint research, we submitted a research work titled “**GENOTOXIC AND CYTOTOXIC EFFECTS OF INTRAORAL AND EXTRAORAL RADIOGRAPHS ON ORAL EPITHELIUM OF ADULTS**” to **RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES BANGALORE**.

RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES, BENGALURU,
KARNATAKA



**ENDORSEMENT BY THE HOD, PRINCIPAL/HEAD OF THE
INSTITUTION**

This is to certify that the dissertation entitled “**GENOTOXIC AND CYTOTOXIC EFFECTS OF INTRAORAL AND EXTRAORAL RADIOGRAPHS ON ORAL EPITHELIUM OF ADULTS**” is a bonafide research work done by **DR. AMREEN ALAM** in partial fulfillment of the requirements for the degree of Master of Dental Surgery in Department of Oral Medicine and Radiology.

| | |
|---|---|
| Signature of the HOD | Signature of the Principal |
|  DR. PRASHANT PATIL Professor and Head Department of Oral Medicine and Radiology, Navodaya Dental College & Hospital, Raichur – 584103 |  Dr. VANISHREE PRINCIPAL Principal, Navodaya Dental College, Navodaya Dental College & RAICHUR Hospital, Raichur – 584103 |




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Raichur



**REPORT OF RESEARCH WORK SUBMITTED TO THE
RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES BANGALORE**

Dr. Prashant B Patil, Prof & Head Department of Oral Medicine & Radiology of our institution, Navodaya Dental College & Hospital Raichur, The project was guided and self supported for the duration of 1 year. As a result of their joint research, we submitted a research work titled “ASSESSMENT OF MANDIBULAR CANAL AND ITS VARIATIONS IN CBCT” to RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES BANGALORE.

RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES,
BENGALURU, KARNATAKA



**ENDORSEMENT BY THE HOD, PRINCIPAL/HEAD OF
THE INSTITUTION**

This is to certify that the dissertation entitled “ASSESSMENT OF MANDIBULAR CANAL AND ITS VARIATIONS USING CBCT” is a bonafide research work done by **Dr. PRIYADARSHINI S** in partial fulfillment of the requirements for the degree of Master of Dental Surgery in Department of Oral Medicine and Radiology.

| | |
|---|---|
| Dr. PRASHANT PATIL Professor and Head, Department of Oral Medicine and Radiology, Navodaya Dental College & Hospital, Raichur – 584103 | Dr. SANTOSH H Principal, Navodaya Dental College & Hospital, Raichur – 584103 |
|---|---|



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**ENDORSEMENT BY THE HOD, PRINCIPAL / HEAD OF THE
INSTITUTION**

This is to certify that the dissertation entitled “**ORAL CANDIDA CARRIAGE AMONG TOBACCO USERS WITH AND WITHOUT ASSOCIATED ORAL MUCOSAL LESIONS**” is a bonafide research work done by **Dr. BUSHRA MOHD KAROBARI** under the guidance of **Dr. PRASHANT PATIL**, Professor & Head, Department of Oral Medicine and Radiology, Navodaya Dental College & Hospital, Raichur.

Seal & Signature of the HOD
PROF. & HEAD
Dept. of Oral Medicine & Radiology
Navodaya Dental College, Raichur
Name: Dr. PRASHANT PATIL

DATE: 28/11/17

PLACE: RAICHUR

Seal & Signature of the Principal

Name: DR. SANTOSH HUNASGI
PRINCIPAL
Navodaya Dental College
RAICHUR.

DATE: 28/11/17

PLACE: RAICHUR

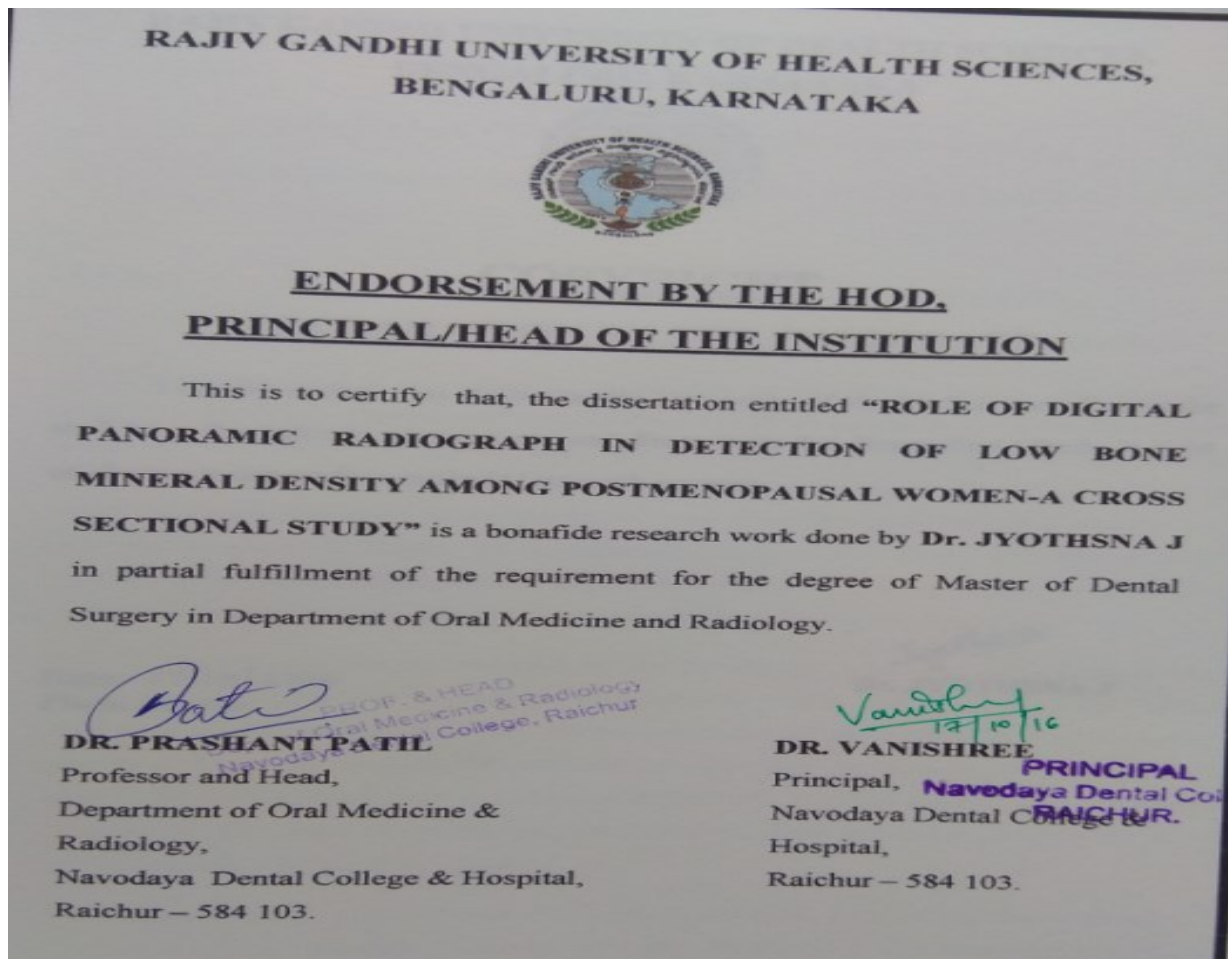


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Dr. Prashant B Patil, Prof & Head Department of Oral Medicine & Radiology of our institution, Navodaya Dental College & Hospital Raichur, The project was guided and self supported for the duration of 1 year. As a result of their joint research, we submitted a research work titled “**ROLE OF DIGITAL PANAROMIC RADIOGRAPH IN DETECTION OF LOW BONE DENSITY AMONG POST MENOPAUSAL WOMEN- COMPARATIVE STUDY**” to **RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES BANGALORE.**





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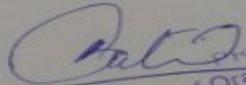
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RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES BANGALORE**

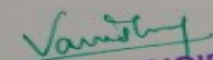
Dr. Prashant B Patil, Prof & Head Department of Oral Medicine & Radiology of our institution, Navodaya Dental College & Hospital Raichur, The project was guided and self supported for the duration of 1 year. As a result of their joint research, we submitted a research work titled “ **THE ACCURACY OF PREDICTING AGE FROM MANDIBULAR 3RD MOLARS USING DEMIRJANS AND KOHLER METHOD - A COMPARATIVE STUDY**” to **RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES BANGALORE.**

**RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES,
BANGALORE, KARNATAKA**

**ENDORSEMENT BY THE HOD, PRINCIPAL/HEAD OF
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This is to certify that the dissertation entitled “**THE ACCURACY OF PREDICTING AGE FROM MANDIBULAR 3RD MOLARS USING DEMIRJIAN’S REVISED METHOD AND KOHLER’S METHOD – A COMPARATIVE STUDY**” is a bonafide research work done by **Dr ASMITA P NANDRE** under the guidance of **Dr. PRASHANT B PATIL** Professor & Head, Department of Oral Medicine & Radiology, Navodaya Dental College & Hospital, Raichur.


Dr. PRASHANT B PATIL
Professor & Head
Department of Oral Medicine &
Radiology
Navodaya Dental College & Hospital,
Raichur-584103.


Dr. VANISHREE
Principal
Navodaya Dental College,
RAICHUR.
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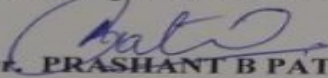
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Dr. Prashant B Patil, Prof & Head Department of Oral Medicine & Radiology of our institution, Navodaya Dental College & Hospital Raichur, The project was guided and self supported for the duration of 1 year. As a result of their joint research, we submitted a research work titled “**COMPARE THE EFFECTIVENESS OF LYCOPENE – A CAROTENOID ANTIOXIDANT WITH INTRALESIONAL STEROID INJECTIONS IN PATIENTS WITH ORAL SUBMUCOUS FIBROSIS – A CLINICAL STUDY**” to **RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES BANGALORE**.

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This is to certify that the dissertation entitled “**COMPARE THE EFFECTIVENESS OF LYCOPENE –A CAROTENOID ANTIOXIDANT WITH INTRALESIONAL STEROID INJECTIONS IN PATIENTS WITH ORAL SUBMUCOUS FIBROSIS-A CLINICAL STUDY**” is a bonafide research work done by **Dr Anusuya G Savalagi** under the guidance of **Dr. PRASHANT B PATIL** Professor & Head, Department of Oral Medicine & Radiology, Navodaya Dental College & Hospital, Raichur.

Navodaya Dental College, Raichur.
Dept. of Oral Medicine & Radiology
PROF. & HEAD
Seal & Signature Seal & Signature


Dr. PRASHANT B PATIL
Professor & Head
Department of Oral Medicine &
Radiology
Navodaya Dental College & Hospital,
Raichur- 584103.

Dr. PADMANABHAN
Principal
Navodaya Dental College & Hospital,
Raichur- 584103.

Navodenticon'18 scientific session

VENUE: S R Hegde Silver Jubilee Hall

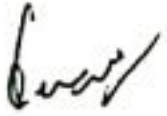
TIME:2-3 pm

SESSION:I – Paper presentation

Staff in charge: Dr. Sindhura H, Dr. Anila K

Student in Charge: Dr. Suraj [8904175572], Dr. Saba, Dr. Monica Gutta

| CODE | TOPIC | Contact number |
|---------|--|----------------|
| NCON460 | Oral Hygiene Status in Children suffering from Iron deficiency anaemia | 9494119054 |
| NCON522 | Comparison of Oral hygiene Efficacy using manual and electronics tooth brush in visually impaired children | 8879375366 |
| NCON546 | Improved awareness of school children to Dental trauma: an Educational approach | 8152897126 |
| NCON627 | Lesion sterilisation and tissue repair | 9819161282 |
| NCON644 | Robotics in Dentistry | 8904383364 |
| NCON660 | Dental Phobia and anxiety: Its impact on quality of life- Prospective study | 7899860786 |
| NCON688 | Biomemetics dentistry | 9108578832 |
| NCON693 | Ergonomics | 8792345737 |
| NCON691 | A stranger in the mirror | 9916252305 |



Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.

NAVODENTICON'18 SCIENTIFIC SESSION

VENUE: Hall Talons Floor, NET library TIME:2-3pm SESSION: Poster Presentation

Staff in charge: Dr, Kiran, Dr. Praveen Reddy Student in charge: Dr Ria, Dr. Swathi

| CODE | TOPIC | CONTACT NUMBER |
|----------|--|----------------|
| NCON 464 | Drill-less painless dentistry | 7013898592 |
| NCON 547 | Apexum -Far beyond dentistry | 7337723951 |
| NCON 555 | Bio-Glass next gen thing | 8555085395 |
| NCON 587 | Instruments shape, Irrigants clean | 9480392767 |
| NCON 607 | Biological restoration: the rise of a fallen tooth | 8106655710 |
| NCON 609 | Re-Awakening of the teeth | 9902744047 |
| NCON 647 | Respecting root canal anatomy through SAF | 9900333329 |
| NCON 661 | Drill to- no drill | 9739453839 |


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RAICHUR-584 103.

Navodenticon'18 scientific session

VENUE: Hall Talons Floor, NET library TIME: 3-4 pm SESSION:II –Poster presentation

STAFF IN CHARGE : Dr. Ashwini M Patil Dr. Shilpa R T

STUDENT INCHARGE : Dr. Srinidhi , Dr. Apeksha

| CODE | TOPIC | CONTACT NUMBER |
|----------|--|----------------|
| NCON 118 | Regenerative Dentistry | 9787946104 |
| NCON 404 | Your mouth can impact your heart | 8105070323 |
| NCON 415 | Probiotics- the healthy way of life | 9656681080 |
| NCON 430 | Transoral robotic assisted surgery of cleft palate | 9686353319 |
| NCON 443 | Periodontics, the villain of twenty first century | 7411199526 |
| NCON 551 | No drilling , no waiting: the closest thing to nature , the replica immediate tooth replacement system | 8073546773 |
| NCON 602 | Platelet rich fibrin: A multi faceted wonder | 8088002555 |
| NCON 636 | CGF: An advanced regenerative dentistry | 9741456773 |
| NCON 670 | Relationship between dental caries, Periodontal disease and intestinal flora – A systemic review | 8943378694 |


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PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.



INDIAN ASSOCIATION OF
FORENSIC ODONTOLOGY
(IAFO)



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& HOSPITAL



CERTIFICATE OF PARTICIPATION

KARNATAKA STATE DENTAL COUNCIL
BANGALORE.
3
CREDIT POINTS
APPROVED BY KSDC
12/01/2019

This certificate is awarded to

R. Swathi

for attending National Level Forensic Odontology Lecture series
on "Dental Age Estimation by Radiological and Histological Methods",
in association with Indian Association of Forensic Odontology (IAFO),
held on 25th January 2019 at Navodaya Dental College and Hospital, Raichur.

T. Srinivas

Dr. T. Srinivas
Registrar, NET

Santosh

Dr. Santosh Hunasgi
Principal, NDC

Ashith

Dr. Ashith B. Acharya
Guest speaker

Vanishree

Dr. Vanishree M.
Organizing Chairperson

Girish
Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-594 103.

Prashant
Dr. Prashant B. Patil
Organizing Secretary



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CERTIFICATE OF APPRECIATION

This certificate is awarded to

Revanna Swathi

for organizing CDE and workshop on "Sialendoscopy & Sleep Surgery" held on 12th November 2018

by Synergy Club, Navodaya Dental College and Hospital, Raichur.

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Raichur - 584 103, Karnataka, India

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Dr. T. Srinivas
Registrar, NET

Dr. Santosh Hunasgi

Dr. Santosh Hunasgi
Principal, NDC

Dr. Gururaj Arakeri

Dr. Gururaj Arakeri
CDE Convenor

Dr. Praveen Kumar N. H.
Dr. GIRISH KATTI M.D.S.
PRINCIPAL
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RAICHUR-584 103.
Dr. Praveen Kumar N. H.
Synergy Club Head



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CREDIT POINTS
APPROVED BY KSDC
No. 85/2018



CERTIFICATE OF PARTICIPATION

This is to certify that

Revanuru Swathi

has attended CDE and workshop on "Sialendoscopy & Sleep Surgery" held on 12th November 2018

by Synergy Club, Navodaya Dental College and Hospital, Raichur.

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Raichur - 584 103, Karnataka, India

Dr. T. Srinivas
Registrar, NET

Dr. Santosh Hunasgi
Principal, NDC

Dr. Gururaj Arakeri
CDE Convenor

Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
Raichur - 584 103.
Dr. Praveen Kumar N. H.
Synergy Club Head



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**3
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राष्ट्रीय सेवा योजना
National Service Scheme
युवा कर्षक और खेल मंत्रालय
Ministry of Youth Affairs and Sports
सरकार भारत
Government of India



**WORLD
CANCER DAY**
4 FEBRUARY

CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

DR. Revanuru Swathi

FOR ATTENDING WEBINAR ON WORLD CANCER DAY
HELD ON 4TH FEBRUARY 2021 BY THE NSS UNIT
AND DEPARTMENT OF PUBLIC HEALTH DENTISTRY,
NAVODAYA DENTAL COLLEGE AND HOSPITAL,
RAICHUR.

Dr. T. Srinivas

Dr. T. SRINIVAS
REGISTRAR

Dr. Vivekshetty

Dr. VIVEKSHETTY
(CONSULTANT, HEAD & NECK ONCOLOGY)

Dr. Neel Kamal

Dr. NEEL KAMAL
HOD, DEPT OF OMFS

Dr. Girish Katti

Dr. GIRISH KATTI
PRINCIPAL

Dr. Zaheer Ahmed

Dr. ZAHEER AHMED
NSS PROGRAMME OFFICER

NAVODAYA EDUCATIONAL TRUST MAZUMDAR SHAW HOSPITAL, M H CITY, BANGALORE

AL-BADAR DENTAL COLLEGE, KALABURAGI

NAVODAYA DENTAL COLLEGE AND HOSPITAL DEPT. PUBLIC HEA

Dr. Girish Katti

Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.



NATIONAL BDS STUDENTS CONVENTION OF IAOMR-2019
CERTIFICATE OF PARTICIPATION

This is to certify that Dr./Mr./[✓]Ms./Mrs....REVANURU SWATHI.....
 has participated in **NATIONAL BDS STUDENTS CONVENTION OF IAOMR - 2019**
 organised by **Department of Oral Medicine and Radiology, Kamineni Institute of Dental Sciences**, Narketpally on 18th October 2019. Telangana State Dental Council has awarded **6 credit hours** vide their letter 04/CDE/OMR/KIDS/TSDC/2019 Dated: 09.10.2019.

P. Reddi
 Dr. P. Ramachandra Reddi
 Organizing Chairman

B. Balaji Babu
 Dr. B. Balaji Babu
 Organizing Secretary

Vishal Dang
 Dr. Vishal Dang
 President IAOMR

Satheesha Reddy
 Dr. Satheesha Reddy BH
 Hon'ble Gen. Secretary IAOMR

Girish Katti
 Dr. GIRISH KATTI M.D.S.
 PRINCIPAL
 NAVODAYA DENTAL COLLEGE
 RAIG, Vikram Reddy
 Observer, TSDC



3

CREDIT POINTS
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DENTAL COLLEGE
& HOSPITAL

CERTIFICATE OF PARTICIPATION

Revanuru swathi

For attending webinar titled on **"Opportunities and Challenges for Dental Professionals-Overseas"** presented by Dentart training academy Canada organized by IPS Karnataka state branch and Department of Prosthodontics, Navodaya Dental College & Hospital, Raichur on 21st January, 2021

Dr. Arul Kumar MG
Chief mentor and Instructor
Dentart training Academy, Canada

Dr. Astravath Kulicarni
Management Head
Dentart Training Academy

Dr. Girish Katti
Principal
Navodaya Dental College & Hospital

Dr. Prakash Nidawani
Event Co-ordinator
Department of Prosthodontics

Dr. Girish Galagal
HOD
Department of Prosthodontics

Dr. GIRISH KATTI M.D.S.
PRINCIPAL
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Dr. GIRISH KATTI M.D.S.
 PRINCIPAL
 NAVODAYA DENTAL COLLEGE
 RAICHUR-554 103.
Dr. G. Vikram Reddy
 Observer, TSDC

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B. Balaji Babu
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Vishal Dang
Dr. Vishal Dang
 President IAOMR

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Dr. Satheesha Reddy BH
 Hon'ble Gen. Secretary IAOMR



CERTIFICATE OF APPRECIATION

This certificate is presented to

Mr./ Ms./ Mrs./ Dr. Paravenu Swathi for organising
Alumin lecture series -2 "Advancements in Orthodontics & Motivational
Interviewing" held at Navodaya Dental College and Hospital, Raichur on 23rd
November, 2018, By Alumni Association, Navodaya Dental College Raichur

Blond
DR T SRINIVAS
Registrar,
NET's

Santosh
DR SANTOSH HUNASGI
Principal,
NDC

Somnath
DR SOMNATH REDDY KUNSI
President
Alumni Association, NDC

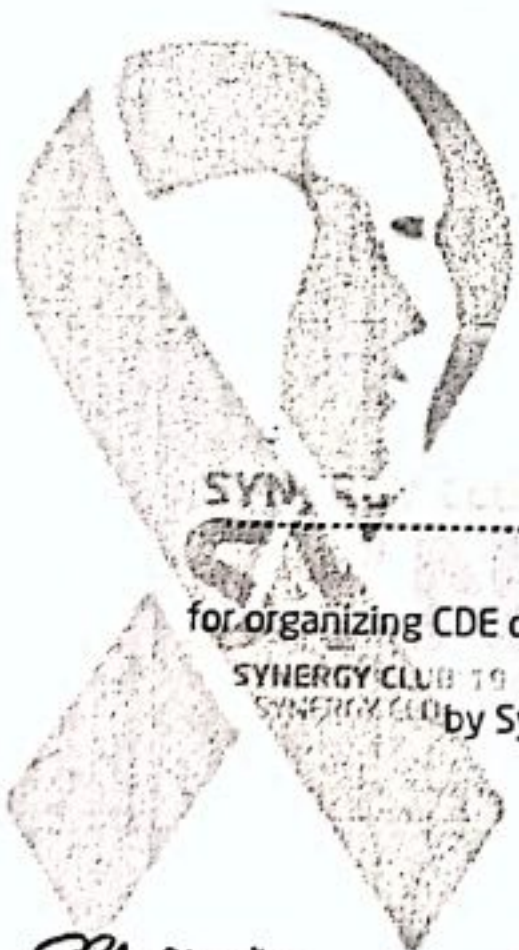
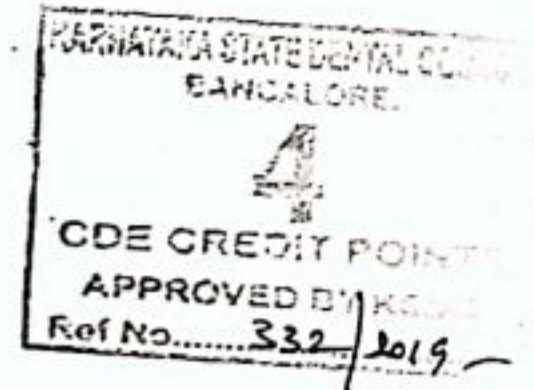
Parveen
DR GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584,103.
DR PARVEEN REDDY K M
Secretary
Alumni Association, NDC



**NAVODAYA
DENTAL COLLEGE
& HOSPITAL**



CERTIFICATE OF PARTICIPATION



This certificate is awarded to

REVANURU SWATHI

for organizing CDE on "TRENDS IN HEAD AND NECK ONCOLOGY" held on 13th November 2019

by Synergy Club, Navodaya Dental College and Hospital, Raichur, Karnataka.

Dr. T Srinivas
Registrar, NET

Dr. Santosh Hunasgi
Principal, NDC

Dr. Charles Kuan-Chou Lin
Resource person

Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR 585103

Dr Wen Shian Hsu
Resource person



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COLLEGE**

IACDE NATIONAL CONS ENDO DAY CELEBRATION

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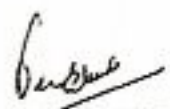
Presented to


REVANURU SWATHI


For presenting poster/skit in IACDE National Cons Endo Day
celebration on 5th March, 2021 at Navodaya Dental College, Raichur.


Organized by

Department of Conservative Dentistry and Endodontics,
Navodaya Dental College, Raichur.


Dr. Girish Katti
Professor
Principal, NDC


Dr. S.V. Satish
Professor & HOD
Organizing Chairman


Dr. Ashwini M Patil
Reader
Organizing Secretary


Dr. Basavana Gowda
Reader
Event Co-ordinator

Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR 584 103.



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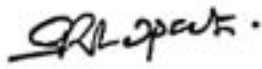
NAVODENTICON '18 UNDERGRADUATE ZONAL CONFERENCE

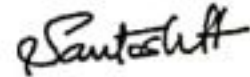
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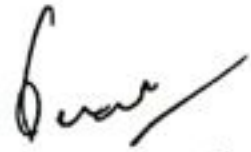
Revanuru. Swathi

has organized the Undergraduate Zonal conference - NAVODENTICON '18 held on 31st October, 2018

organised by Navodaya Dental College and Hospital, Raichur.


Dr. T. Srinivas
Registrar
Navodaya Education Trust, Raichur


Dr. Santosh Hunasgi
Principal - Navodaya Dental College
& Organising Chairman - NAVODENTICON '18

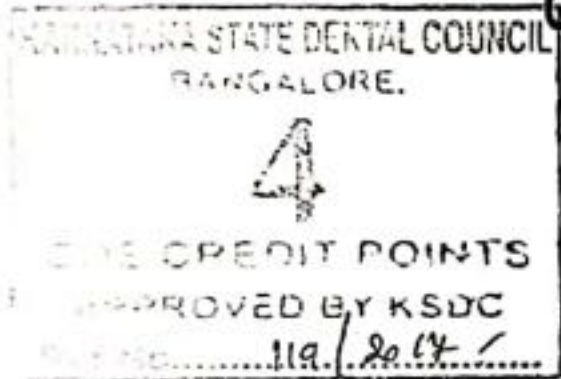

Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.



NET's
**NAVODAYA DENTAL COLLEGE AND HOSPITAL
RAICHUR.**

(Accredited with "A" Grade by NAAC)

DEPARTMENT OF ORAL & MAXILLOFACIAL PATHOLOGY



**CONTINUING DENTAL EDUCATION
EXCEL YOUR FIELD**

Certificate

This is to certify that REVANURU SWATHI has
attended and participated in CDE Programme held
on 4th December 2017
at Navodaya Dental College and Hospital, Raichur.

Vanishree M
Dr. Vanishree M
Organizing Chairperson

K. Anila
Dr. Anila K
Organizing Secretary

N.G. Govindraj
Dr. Govind Raj Kumar
Guest Speaker

Girish K
Dr. GIRISH KAT
PRINCIPAL
NAVODAYA DENTAL
HOSPITAL, RAICHUR
Dr. Santosh Hunasgi
Principal & Guest Speaker



CERTIFICATE OF PARTICIPATION



NAVODENTICON '18 UNDERGRADUATE ZONAL CONFERENCE

This is to certify that

M. Subhash Reddy

has attended the Undergraduate Zonal conference - NAVODENTICON '18 held on 31st October, 2018

organised by Navodaya Dental College and Hospital, Raichur.

Dr. Santosh Hunasgi
Principal - Navodaya Dental College
& Organising Chairman - NAVODENTICON '18

Dr. Praveen Kumar N. H.
Organising Secretary
NAVODENTICON '18

Dr. Rudraraju Amrutha
Organising Joint Secretary
NAVODENTICON '18

Dr. Sanghmitra Dasgupta
Guest Speaker
NAVODENTICON '18

Dr. Ameeth j. Kurthkoti
Guest Speaker
NAVODENTICON '18

NAVODAYA DENTAL COLLEGE AND HOSPITAL
RAICHUR

DEPARTMENT OF PUBLIC HEALTH DENTISTRY
AND NATIONAL SERVICE SCHEME



WORLD NO TOBACCO DAY

MONDAY, 31ST MAY 2021.

E-POSTER CONTEST

CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

Hiral Karwa

**FOR PRESENTING A E-POSTER ON WORLD NO TOBACCO DAY HELD
ON 31ST MAY, 2021 BY DEPARTMENT OF PUBLIC HEALTH DENTISTRY
AND NSS UNIT OF NAVODAYA DENTAL COLLEGE AND HOSPITAL
RAICHUR**

DR.GIRISH KATTI
PRINCIPAL

NAVODAYA DENTAL COLLEGE
and HOSPITAL RAICHUR

DR.SURESH BABU
PROFESSOR

DEPT.PUBLIC HEALTH DENTISTRY

DR.ZAHEER AHMED

NSS PROGRAMME OFFICER
DEPT.PUBLIC HEALTH DENTISTRY



**NAVODAYA
DENTAL
COLLEGE**

IACDE NATIONAL CONS ENDO DAY CELEBRATION

CERTIFICATE OF APPRECIATION

Presented to

VARSHINI.M

For presenting poster/skit in **IACDE National Cons Endo Day** celebration on 5th March, 2021 at Navodaya Dental College, Raichur.

Organized by

**Department of Conservative Dentistry and Endodontics,
Navodaya Dental College, Raichur.**

**Dr. Girish Katti
Professor
Principal, NDC**

**Dr. S.V. Satish
Professor & HOD
Organizing Chairman**

**Dr. Ashwini M Patil
Reader
Organizing Secretary**

**Dr. Basavana Gowda
Reader
Event Co-ordinator**



**NAVODAYA
DENTAL
COLLEGE**

IACDE NATIONAL CONS ENDO DAY CELEBRATION

CERTIFICATE OF APPRECIATION

Presented to

T. UZMA BATUL

For presenting poster/skit in **IACDE National Cons Endo Day**
celebration on 5th March, 2021 at Navodaya Dental College, Raichur.

Organized by

**Department of Conservative Dentistry and Endodontics,
Navodaya Dental College, Raichur.**

Dr. Girish Katti
Professor
Principal, NDC

Dr. S.V. Satish
Professor & HOD
Organizing Chairman

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Organizing Secretary

Dr. Basavana Gowda
Reader
Event Co-ordinator



**NAVODAYA
DENTAL
COLLEGE**

IACDE NATIONAL CONS ENDO DAY CELEBRATION

CERTIFICATE OF APPRECIATION

Presented to

SANJANA S

For presenting poster/skit in **IACDE National Cons Endo Day** celebration on 5th March, 2021 at Navodaya Dental College, Raichur.

Organized by

**Department of Conservative Dentistry and Endodontics,
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Professor
Principal, NDC

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Professor & HOD
Organizing Chairman

Dr. Ashwini M Patil
Reader
Organizing Secretary

Dr. Basavana Gowda
Reader
Event Co-ordinator



CERTIFICATE OF PARTICIPATION

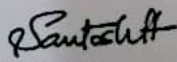
NAVODENTICON '18 UNDERGRADUATE ZONAL CONFERENCE

This is to certify that

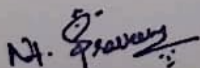
TANVIKA MALL

has presented Scientific Paper / Poster / Table clinic in the Undergraduate Zonal conference - NAVODENTICON '18

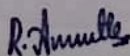
held on 31st October, 2018 organised by Navodaya Dental College and Hospital, Raichur.



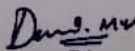
Dr. Santosh Hunasgi
Principal - Navodaya Dental College
& Organising Chairman - NAVODENTICON '18



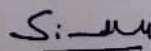
Dr. Praveen Kumar N. H.
Organising Secretary
NAVODENTICON '18



Dr. Rudraraju Amrutha
Organising Joint Secretary
NAVODENTICON '18



Dr. Devaratanamma
Scientific Committee
NAVODENTICON '18



Dr. Sindhura H.
Scientific Committee
NAVODENTICON '18



CERTIFICATE OF PARTICIPATION

NAVODENTICON '18 UNDERGRADUATE ZONAL CONFERENCE

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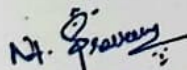
NIMISHA · A

has presented Scientific Paper / Poster / Table clinic in the Undergraduate Zonal conference - **NAVODENTICON '18**

held on 31st October, 2018 organised by Navodaya Dental College and Hospital, Raichur.



Dr. Santosh Hunasgi
Principal - Navodaya Dental College
& Organising Chairman - NAVODENTICON '18




Dr. Praveen Kumar N. H.
Organising Secretary
NAVODENTICON '18



Dr. Rudraraju Amrutha
Organising Joint Secretary
NAVODENTICON '18



Dr. Devaratanamma
Scientific Committee
NAVODENTICON '18



Dr. Sindhura H.
Scientific Committee
NAVODENTICON '18



**NAVODAYA
DENTAL
COLLEGE**

IACDE NATIONAL CONS ENDO DAY CELEBRATION

CERTIFICATE OF APPRECIATION

Presented to

TANVIKA MALL

For presenting poster/skit in IACDE National Cons Endo Day
celebration on 5th March, 2021 at Navodaya Dental College, Raichur.

Organized by

**Department of Conservative Dentistry and Endodontics,
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Principal, NDC**

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Professor & HOD
Organizing Chairman**

**Dr. Ashwini M Patil
Reader
Organizing Secretary**

**Dr. Basavana Gowda
Reader
Event Co-ordinator**

**Indian Prosthodontic Society
Karnataka State Branch**

Certificate of Participation

This Certificate is awarded to

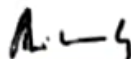
Indrani

For Participating in the State level Essay/E-Poster Competition 2022 for Undergraduate Students of Karnataka as a part of **Prosthodontists' Day 2022 Celebration**.

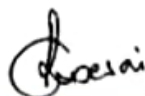
Theme: "Prosthodontics - A Galore of Opportunities"



Dr Ravindra S
Principal



Dr Anil Kumar Gujjari
Professor



Dr Raviraj Desai
President



Dr Sunil Dhaded
Secretary



Dr Balaram Naik
Principal



Dr Gouri V Anehosur
Professor



**NAVODAYA
DENTAL
COLLEGE**

IACDE NATIONAL CONS ENDO DAY CELEBRATION

CERTIFICATE OF APPRECIATION

Presented to

TRISHA . R . AGI WAL

For presenting poster/skit in **IACDE National Cons Endo Day**
celebration on 5th March, 2021 at Navodaya Dental College, Raichur.

Organized by

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Principal, NDC

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Organizing Chairman

Dr. Ashwini M Patil
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Organizing Secretary

Dr. Basavana Gowda
Reader
Event Co-ordinator



**NAVODAYA
DENTAL
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IACDE NATIONAL CONS ENDO DAY CELEBRATION

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Presented to

VISHWAS .H.S

For presenting poster/skit in **IACDE National Cons Endo Day** celebration on 5th March, 2021 at Navodaya Dental College, Raichur.

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**NAVODAYA
DENTAL
COLLEGE**

IACDE NATIONAL CONS ENDO DAY CELEBRATION

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Presented to

PRIYANKA.K

For presenting poster/skit in IACDE National Cons Endo Day
celebration on 5th March, 2021 at Navodaya Dental College, Raichur.

Organized by

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Principal, NDC

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Reader
Event Co-ordinator



**NAVODAYA
DENTAL
COLLEGE**

IACDE NATIONAL CONS ENDO DAY CELEBRATION

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Presented to

VINAYAKA . K . N

For presenting poster/skit in **IACDE National Cons Endo Day** celebration on 5th March, 2021 at Navodaya Dental College, Raichur.

Organized by

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Professor
Principal, NDC

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Organizing Chairman

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Organizing Secretary

Dr. Basavana Gowda
Reader
Event Co-ordinator



NAVODAYA DENTAL COLLEGE AND HOSPITAL
RAICHUR
DEPARTMENT OF PUBLIC HEALTH DENTISTRY
AND NATIONAL SERVICE SCHEME



WORLD NO TOBACCO DAY

MONDAY, 31ST MAY 2021.

E-POSTER CONTEST

CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

Rupambar Adhikari

**FOR PRESENTING A E-POSTER ON WORLD NO TOBACCO DAY HELD
ON 31ST MAY, 2021 BY DEPARTMENT OF PUBLIC HEALTH DENTISTRY
AND NSS UNIT OF NAVODAYA DENTAL COLLEGE AND HOSPITAL
RAICHUR**

**DR. GIRISH KATTI
PRINCIPAL
NAVODAYA DENTAL COLLEGE
and HOSPITAL RAICHUR**

**DR. SURESH BABU
PROFESSOR
DEPT. PUBLIC HEALTH DENTISTRY**

**DR. ZAHEER AHMED
NSS PROGRAMME OFFICER
DEPT. PUBLIC HEALTH DENTISTRY**



Certificate of Appreciation

*This certificate is awarded to RUPAMBAR ADHIKARI
For securing 1st PRIZE in the program entitled... "WORLD NO
TOBACCO DAY" online essay competition topic Enlightening youth from
negative impact on tobacco and preventing them from tobacco and nicotine use
held at A.M.E'S Dental College Hospital & Research Centre, Raichur,
Karnataka.*

Principal
A.M.E dental college

Co-ordinator
A.M.E dental college



RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES

In Association With

A.M.E's Dental College And Hospital, Raichur.



Certificate Of Participation

This Is To Certify That

Rupambar

has participated in the oral quiz competition (online) titled-

"Spot It - A Call To Mind!!!"

conducted on 7th May 2021 at A.M.E's Dental College And Hospital,
Raichur.

Dr. S. Sacchidanand

Vice Chancellor

Dr. D.N.S.V Ramesh

Organizing Chairman

Dr. Shivanand Aspalli

Organizing Secretary



**RECENT TRENDS IN IMPRESSION MAKING:
REMOVABLE AND FIXED PROSTHESIS**

2

Credit points

CERTIFICATE OF PARTICIPATION


THIS CERTIFICATE IS AWARDED TO

Rupambar Adhikari

For attending webinar titled as **Recent trends in Impression making: removable and fixed prosthesis** conducted by Department of Prosthodontics, Crown & Bridge & Implantology, Navodaya Dental College, Raichur on 28th JAN 2022


DR GIRISH KATTI
PRINCIPAL
NAVODAYADENTAL COLLEGE
& HOSPITAL RAICHUR


DR GIRISH GALAGALI
HOD
DEPARTMENT OF PROSTHODONTICS


DR PRAKASH NIDAWANI
RESOURCE PERSON
PROFESSOR
DEPARTMENT OF PROSTHODONTICS

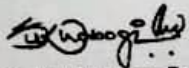

DR HARSHA R H
Organising Secretary
PROFESSOR
DEPARTMENT OF PROSTHODONTICS

Certificate Of Appreciation

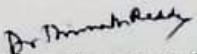
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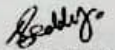
Rupambar Adhikari

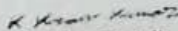
*has presented a Paper - Undergraduate Category at
The 6th IDA Telangana State Dental Conference 2019
Cyber Conventions, Hitech City, Hyderabad
13th - 15th December 2019*

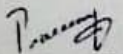

Dr. S. Jagadeeswara Rao
IDA - TS President

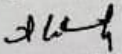

Dr. R. Karunakar
Organising Chairman

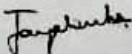

Dr. K. V. Thrinath Reddy
Conference Chairman

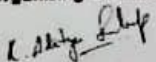

Dr. Y. S. Reddy
Co Organising Chairman



Dr. Kiran Kodali
Scientific Convenor


Dr. M. Praveen Kumar
IDA- TS HGS


Dr. Ala Srikanth
Organising Secretary


Dr. T. Jayasimha Reddy
Conference Secretary


Dr. K. Aditya Sandeep
Jt Organising Secretary

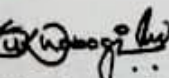

Dr. Hasanuddin Sheikh
Scientific Co-Convenor



RUPAMBAR ADHIKARI

*has been awarded first prize in PG/UG Category
Research Paper/Poster
at*

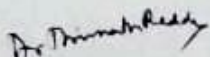
*The 6th IDA Telangana State Dental Conference 2019
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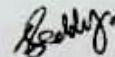
Jagadeeswara Rao
IDA - TS President



Dr. R. Karunakar
Organising Chairman



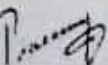
Dr. K. V. Thrinath Reddy
Conference Chairman



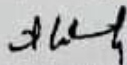
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Co Organising Chairman



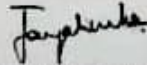
Dr. Kiran Kodali
Scientific Convenor



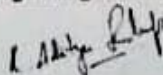
Praveen Kumar
IDA- TS HGS




Dr. Ala Srikanth
Organising Secretary



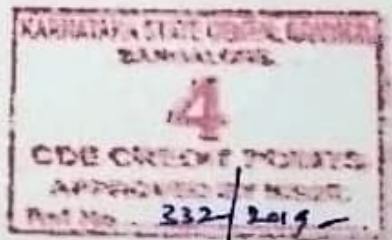
Dr. T. Jayasimha Reddy
Conference Secretary



Dr. K. Aditya Sandeep
Jt Organising Secretary



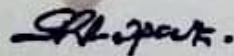
CERTIFICATE OF PARTICIPATION



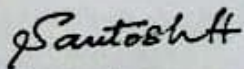
This certificate is awarded to

Rupambar Adhikari

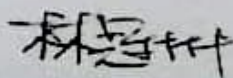
for organizing CDE on "TRENDS IN HEAD AND NECK ONCOLOGY" held on 13th November 2019
by Synergy Club, Navodaya Dental College and Hospital, Raichur, Karnataka.



Dr. T Srinivas
Registrar, NET



Dr. Santosh Hunasgi
Principal, NDC



Dr. Charles Kuan-Chou Lin
Resource person



Dr Wen Shian Hsu
Resource person



**NAVODAYA
DENTAL
COLLEGE**

IACDE NATIONAL CONS ENDO DAY CELEBRATION

CERTIFICATE OF APPRECIATION

Presented to

RUPAMBAR ADHIKARI

For presenting poster/skit in **IACDE National Cons Endo Day**
celebration on 5th March, 2021 at Navodaya Dental College, Raichur.

Organized by

Department of Conservative Dentistry and Endodontics,
Navodaya Dental College, Raichur.

Dr. Girish Katti
Professor
Principal, NDC

Dr. S.V. Satish
Professor & HOD
Organizing Chairman

Dr. Ashwini M Patil
Reader
Organizing Secretary

Dr. Basavana Gowda
Reader
Event Co-ordinator



CERTIFICATE OF PARTICIPATION



NAVODENTICON '18 UNDERGRADUATE ZONAL CONFERENCE

This is to certify that

Rupambar Adhikari

has attended the Undergraduate Zonal conference - NAVODENTICON '18 held on 31st October, 2018

organised by Navodaya Dental College and Hospital, Raichur.

Santosh

Dr. Santosh Hunagi
Principal - Navodaya Dental College
& Organising Chairman - NAVODENTICON '18

Praveen

Dr. Praveen Kumar N. H.
Organising Secretary
NAVODENTICON '18

R. Amrutha

Dr. Rudraraju Amrutha
Organising Joint Secretary
NAVODENTICON '18

Singh

Dr. Sanghmitra Desgupta
Guest Speaker
NAVODENTICON '18

Ameeth

Dr. Ameeth J. Kurthkoti
Guest Speaker
NAVODENTICON '18



CERTIFICATE OF PARTICIPATION

PRESENTED TO

Mr Rupambar Adhikari

for participating in

All India Level Virtual Pitch Competition on the occasion of Public Health Dentistry Day (19-june-2021) organised by Anil Neerukonda Institute Of Dental Sciences

Dr.L.VAMSI KRISHNA REDDY
PRINCIPAL, ANIDS

Dr.P.VINEELA
VICE-PRINCIPAL, ANIDS



Dr.P.SIVA KUMAR
READER, ANIDS

Dr.P.NAGARJUNA
SENIOR LECTURER,
ANIDS

Dr.R.YASHWANTH SAI
SENIOR LECTURER,
ANIDS



SDM
COLLEGE OF DENTAL SCIENCES & HOSPITAL
Dharmapuri, Chikmagalur - 577 325, Karnataka, India
A Constituent Unit of Sri Siddaganga Institutions Society

**Indian Prosthodontic Society
Karnataka State Branch**

Certificate of Participation

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Rupambar adhikari

For Participating in the State level Essay/E-Poster Competition 2022 for Undergraduate Students of Karnataka as a part of **Prosthodontists' Day 2022 Celebration**.
Theme: **"Prosthodontics - A Galore of Opportunities"**

Dr. Ravindra B.
Patil

JSS Dental College and Hospital

Dr. Anil Kumar Gogoi
Professor

Dr. Ravindra B.
Patil

IPS - Karnataka State Branch

Dr. Sandeep Kumar
President

Dr. Balaram Reddy
Principal

SDM College of Dental Sciences

Dr. Lakshmi V. Anandam
Professor



CERTIFICATE OF PARTICIPATION

NAVODENTICON '18 UNDERGRADUATE ZONAL CONFERENCE

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Dr. Rudraraju Amrutha
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Scientific Committee
NAVODENTICON '18

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Scientific Committee
NAVODENTICON '18



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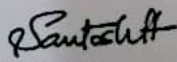
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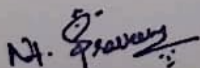
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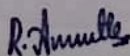
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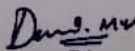
Dr. Santosh Hunasgi
Principal - Navodaya Dental College
& Organising Chairman - NAVODENTICON '18



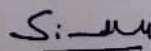
Dr. Praveen Kumar N. H.
Organising Secretary
NAVODENTICON '18



Dr. Rudraraju Amrutha
Organising Joint Secretary
NAVODENTICON '18



Dr. Devaratanamma
Scientific Committee
NAVODENTICON '18



Dr. Sindhura H.
Scientific Committee
NAVODENTICON '18



CERTIFICATE OF PARTICIPATION

NAVODENTICON '18 UNDERGRADUATE ZONAL CONFERENCE

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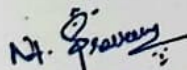
NIMISHA · A

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**NAVODAYA
DENTAL
COLLEGE**

IACDE NATIONAL CONS ENDO DAY CELEBRATION

CERTIFICATE OF APPRECIATION

Presented to

TANVIKA MALL

For presenting poster/skit in IACDE National Cons Endo Day
celebration on 5th March, 2021 at Navodaya Dental College, Raichur.

Organized by

**Department of Conservative Dentistry and Endodontics,
Navodaya Dental College, Raichur.**

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Professor
Principal, NDC**

**Dr. S.V. Satish
Professor & HOD
Organizing Chairman**

**Dr. Ashwini M Patil
Reader
Organizing Secretary**

**Dr. Basavana Gowda
Reader
Event Co-ordinator**

**Indian Prosthodontic Society
Karnataka State Branch**

Certificate of Participation

This Certificate is awarded to

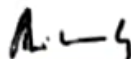
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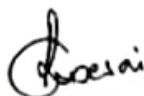
Theme: "Prosthodontics - A Galore of Opportunities"



Dr Ravindra S
Principal



Dr Anil Kumar Gujjari
Professor



Dr Raviraj Desai
President



Dr Sunil Dhaded
Secretary



Dr Balaram Naik
Principal



Dr Gouri V Anehosur
Professor



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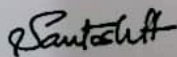
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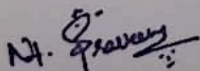
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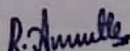
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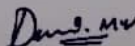
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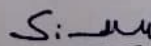
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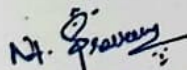
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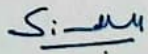
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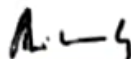
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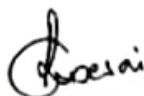
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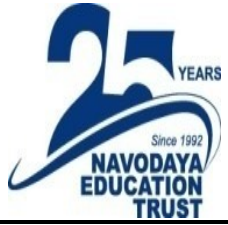
Dr. Basavana Gowda
Reader
Event Co-ordinator

DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY

RESEARCH PROJECTS DONE BY POST GRADUATE STUDENTS

| SL. No. | Postgraduate student | Diagnosis | 3D printing done | Publication |
|---------|-------------------------|--|--------------------------------|---|
| 1 | Dr. Nahas and Dr.Nitish | Subcondylar fracture | 3D plate | |
| 2. | Dr.Nahas and Dr.Nitish | Subcondylar fracture | 3D plate | |
| 3. | Dr. Nitish | Anterior mandibular swelling - AOT | 3D printed model | |
| 4. | Dr.Nitish | Bilateral TMJ Ankylosis | 3D model and surgical guide | |
| 5. | Dr.Nitish | Distraction osteogenesis | 3D printed models | |
| 6. | Dr.Nitish | Correction of chin deficiency using advancement genioplasty | 3D printed surgical guide | |
| 7. | Dr. Nitish | Mandibular fracture : para-symphysis and angle | 3D model and 3D plate fixation | |
| 8. | Dr. Nitish | Mandibular fracture: condyle and body fracture | 3D model and 3D plate | |
| 9. | Dr. Nitish | Pediatric mandibular parasymphysis fracture | 3D printed cap splint | https://www.semanticscholar.org/paper/Pediatric-Mandibular-Fractures-Using-(-3-D-)-Cap-%3A-Chakravarthy-Gupta/810ae4a1842c45704f7fbb6403534ddd3279b662 |
| 10. | Dr.Nitish | Mandibular deviation secondary to unilateral TMJ ankylosis corrected using | 3D model | https://go.gale.com/ps/i.do?id=GALE%7CA509944463&sid=googleScholar&v=2.1&it=r&linkaccess=abs&issn=09748369&p=AONE&sw=w&userG |

| | | | | |
|-----|------------|--|------------------------------------|---|
| | | lateral sliding genioplasty | | roupName=anon%7E694bac6d |
| 11. | Dr.Nitish | Implant supported full mouth mouth rehabilitation | 3D printed surgical guide | |
| 12. | Dr. Nitish | Maxillary prognathism and chin deficiency corrected using AMO set back and advancement genioplasty | 3D model 3D printed surgical guide | |
| 13. | Dr.Ishita | Edentulous maxilla 12 | 3D surgical guide | |
| 14. | Dr. Daisy | Unilateral TMJ ankylosis | 3D surgical guide | |
| 15. | Dr. Daisy | Deviated chin secondary to TMJ ankylosis | 3D surgical guide | https://journals.sagepub.com/doi/full/10.1177/2472751220960268 |
| 16. | Dr. Daisy | Maxillary prognathism | 3D surgical guide | |
| 17. | Dr. Daisy | Mandibular retrognathism | 3D surgical guide | |
| 18. | Dr. Daisy | Right Parasymphysis fracture | 3D printed cap splint | |
| 19. | Dr. Daisy | Right Parasymphysis fracture | 3D printed surgical guide | |
| 20. | Dr. Daisy | Unilateral cleft on the left side osteotomy | 3D printed surgical guide | |
| 21. | Dr. Daisy | Unilateral cleft on the left side osteotomy | 3D surgical guide | |
| 22. | Dr. Daisy | Unilateral cleft on the right side osteotomy | 3D surgical guide | |
| 22. | Dr.Chethan | Parasymphysis fracture | 3D surgical guide | |

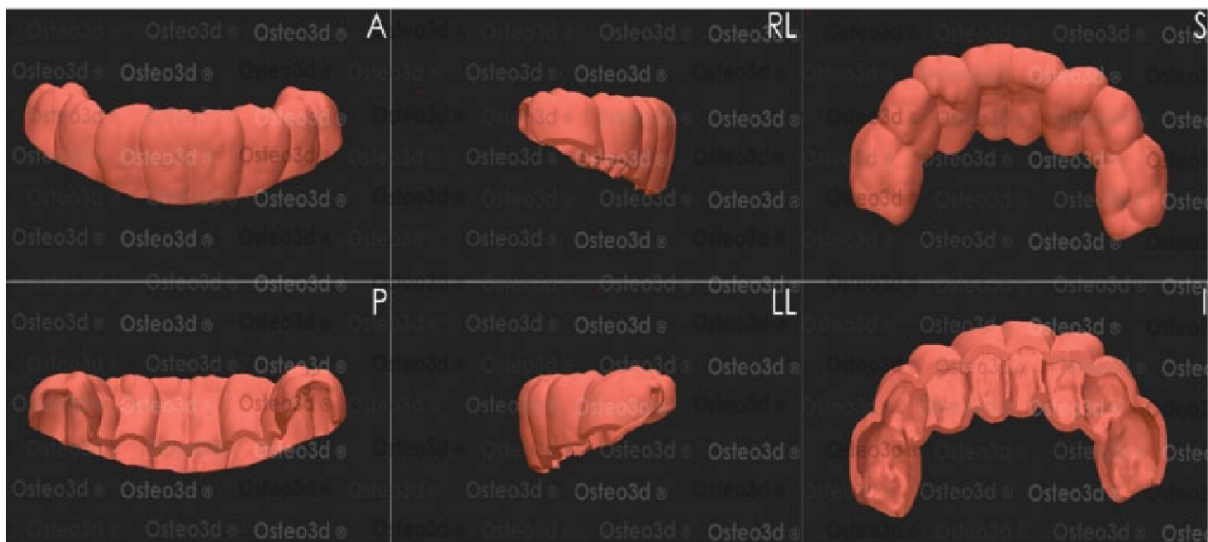


| | | | | |
|-----|--------------|---------------------------|--|---|
| 23. | Dr.Chethan | Parasymphysis fracture | 3D surgical guides | |
| 24. | Dr. Chethan | Nasal fracture | 3D Nasal splint | 1 |
| 25. | Dr. Chethan | Parasymphysis fracture | 3D printed guide | 1 |
| 26. | Dr. Chetan | Parasymphysis fracture | 3D printed guide | |
| 27. | Dr. Chethan | Body fracture | 3D printed occlusal splint | |
| 28. | Dr. Chethan | ZMC fracture | 3D occlusal splint | |
| 29. | Dr.Chethan | Bicondylar fracture | 3D Hypomochlion splint,symphysis guide | |
| 30. | Dr.Chethan | Body and condyle fracture | 3D occlusal splint | |
| 31. | Dr.Chethan | Pan facial fracture | 3D splint | |
| 32. | Dr.Chethan | Body fracture | 3D occlusal splint | |
| 33. | Dr. Tabassum | Ameloblastoma | 3D patient implant and surgical guide | |





A



B



44TH ANNUAL CONFERENCE OF AOMSI, BENGALURU

Certificate of Presentation

This is to certify that

DR. SHAKEEL AHMAD MIR

(E-POSTER)

has presented the topic on

" 3D PRINTED GUIDES IN ORTHOGNATHIC SURGERY "

in the 44th Annual Conference of AOMSI, Bengaluru

held on 14th, 15th & 16th November 2019 at Sheraton Grand, Bengaluru

We appreciate your contribution to the success of this conference.

Dr. Krishnamurthy Bonanthaya
President, AOMSI

Dr. Pritham N Shetty
Secretary, AOMSI

Dr. Philip Mathew
Conference Secretary

Dr. Sanjiv Nair
Organizing Chairman

Dr. GIRISH KATTI M.D.S.
PRINCIPAL

Dr. Ramdas Balakrishna
Organizing Secretary

Dr. Srinath N
Chairman, Scientific Committee

NAVODAYA DENTAL COLLEGE
RAICHUR-584, 103.

1306



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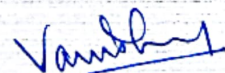
Dr. Sinath N
Chairman, Scientific Committee

NAVODAYA DENTAL COLLEGE AND HOSPITAL

DEPARTMENT OF ORAL PATHOLOGY AND MICROBIOLOGY

POSTGRADUATE PROFILE – RESEARCH PROJECTS

| SL NO | NAME OF THE STUDENT | YEAR OF JOINING | SHORT STUDY PROJECTS | WORK COLLABORATION | THESIS PROJECTS | LIBRARY DISSERTATION | PROF AND HEAD |
|-------|---------------------|-----------------|---|----------------------------------|--|----------------------|----------------|
| 1 | DR MANU PRASAD SEN | 2013-14 | A COMPARISON OF ABSORPTION INHIBITION AND ABSORPTION ELUTION METHODS FOR ESTIMATION OF ABO BLOOD GROUPS IN SALIVA | NAVODAYA DENTAL COLLEGE, RAICHUR | DETERMINATION OF ABO BLOOD GROUPS AND SECRETOR STATUS FROM SALIVA USING ABSORPTION INHIBITION METHOD | CYTOKINES | DR VANISHREE M |
| 2 | DR SWETHA GOJANUR | 2015-16 | TONGUE PRINTS – A DIAGNOSTIC TOOL IN FORENSIC ODONTOLOGY | NAVODAYA DENTAL COLLEGE, RAICHUR | ASSESSMENT OF MICRONUCLEI IN ORAL BUCCAL SMEARS STAINED WITH ACRIDINE ORANGE IN TYPE 2 DIABETES MELLITUS PATIENTS USING ORAL HYPOGLYCAEMIC DRUGS | FORENSIC ODONTOLOGY | DR VANISHREE M |


 Professor & H.O.D
 Dept. of Oral Pathology
 Navodaya Dental College
 RAICHUR

**“Assessment of Micronuclei in oral buccal smears stained with
Acridine Orange in Type 2 Diabetes Mellitus patients using Oral
Hypoglycaemic Drugs”**

By

Dr. SWETHA GOJANUR



Dissertation submitted to the
Rajiv Gandhi University of Health Sciences, Karnataka, Bengaluru

In partial fulfilment of the requirements for the degree of

Master of Dental Surgery

In

Oral & Maxillofacial Pathology,

Microbiology & Forensic Odontology

Under the guidance of

Dr. VANISHREE M

Professor & Head



**Department of Oral & Maxillofacial Pathology, Microbiology &
Forensic Odontology, Navodaya Dental College & Hospital, Raichur**

2015-2018

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**“DETERMINATION OF ABO BLOOD GROUPS AND
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By

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*Dissertation Submitted to the Rajiv Gandhi University of Health Sciences, Karnataka,
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**DEPT OF ORAL AND MAXILLOFACIAL PATHOLOGY, MICROBIOLOGY
AND FORENSIC ODONTOLOGY,**

NAVODAYA DENTAL COLLEGE & HOSPITAL, RAICHUR

2013–2016



N.E.T. PHARMACY LABORATORIES

The institution has 12 well equipped modern laboratories with sophisticated instruments &

equipments such as HPLC, UV visible spectrophotometer, Viscometer, Soxhlet extraction apparatus, Muffle furnace, Colorimeter, Flame photometer, Potentiometer, Lagendroff's apparatus, Analgesiometer, Electro convulsimeter etc.

The institution has 05 differed departments such as pharmaceutics, Ph. Chemistry,

Pharmacology, Pharmacognosy & Pharmacy Practice

The institution has CPCSEA approved animal house facility for small animals such as Rats,

Mice, Guinea Pigs, Rabbits, which are utilized for pre-clinical research activities after ethical clearance from IAEC.

The institution has spacious library with voluminous text books belonging to different subjects such as Pharmacology, Anatomy Physiology, Biochemistry Microbiology,

Pathology, Medicinal chemistry, Pharmacotherapeutics, Clinical pharmacy etc.

The institution has subscription to various scientific journals (hard copy) and Helinet consortium for online periodicals.

All the faculty member & students are continuously involved in Research activities &

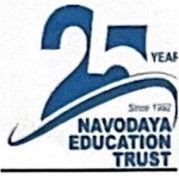
published several research articles in various national & international scientific journals.

The faculty member & students have received research grants from different funding agencies & completed research projects.

The institution has established pharmacy practice department in the Navodaya Medical College Hospital & Research center, Raichur for monitoring & providing clinical facilities to


Principal

Dr. GIRISH KATTI M.D.S.
PRINCIPAL
RAICHUR-584 103.



Navodaya Education Trust ®
Navodaya Dental College
Raichur



Pharm.D students & Interns. The department of pharmacy practice has established ADR monitoring center in the hospital in association with Pharmacovigilance Programme of India, Indian Pharmacopoeia Commission, Ghaziabad.

The research facilities are also utilized by constituent colleges for their research activities.

A handwritten signature in green ink, appearing to read 'Girish Katti', is written over the printed name.

Principal

Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.

MEMORANDUM OF UNDERSTANDING

This MoU is executed on 15/09/2016 between Navodaya Dental College located at Navodaya Nagar, Mantralayam Road, Raichur- 584103, Karnataka. (Herein after referred to as to as Navodaya Dental College)

AND

Navodaya Educational Trust's Pharmacy College located at Navodaya Nagar, Mantralayam Road, Raichur-584103, Karnataka.(Herein after referred to as Navodaya Educational Trust's Pharmacy college).

Whereas both, located at Navodaya Educational Trust Campus in accordance with mutual desire to promote learning, research and development, agree to have a Memorandum of understanding (MoU) as follows:

1. Utilize the NET'S Pharmacy Laboratories by students & the faculty members for the purpose of research work to enable deliver quality health care. The financial expenses of the material utilized for the research work will be borne by the researcher.
2. Joint research and development
3. Facilities sharing platform for academic research work.

This Memorandum is signed on 15th September 2016. This MoU is valid for the period of three years i.e. from 15/09/2016-14/09/2019.


Principal

Navodaya Dental College
Hospital, Raichur

PRINCIPAL
Navodaya Dental College,
RAICHUR



Principal
Navodaya Educational Trust's
Pharmacy college Raichur

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RAICHUR

MEMORANDUM OF UNDERSTANDING

This MoU is executed on 15/09/2019 between Navodaya Dental College located at Navodaya Nagar, Mantralayam Road, Raichur- 584103, Karnataka. (Herein after referred to as to as Navodaya Dental College)

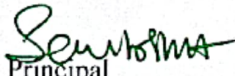
AND

Navodaya Educational Trust's Pharmacy College located at Navodaya Nagar, Mantralayam Road, Raichur-584103, Karnataka. (Herein after referred to as Navodaya Educational Trust's Pharmacy college).

Whereas both, located at Navodaya Educational Trust Campus in accordance with mutual desire to promote learning, research and development, agree to have a Memorandum of understanding (MoU) as follows:

1. Utilize the NET'S Pharmacy Laboratories by students & the faculty members for the purpose of research work to enable deliver quality health care. The financial expenses of the material utilized for the research work will be borne by the researcher.
2. Joint research and development
3. Facilities sharing platform for academic research work.

This Memorandum is signed on 16th September 2019. This MoU is valid for the period of three years i.e. from 16/09/2019-15/09/2022.


Principal

Navodaya Dental College
Hospital, Raichur

PRINCIPAL
Navodaya Dental College,
RAICHUR



Principal
Navodaya Educational Trust's
Pharmacy college Raichur

PRINCIPAL
N.E.T. PHARMACY COLLEGE
RAICHUR



GPS Map Camera







MEMORANDUM OF UNDERSTANDING

Navodaya Dental College engaged in Dental health care services located at Navodaya Nagar, Mantralayam Road, Raichur-584103, Karnataka. (Herein after referred to as to as Navodaya Dental College) request your kind self to enter in mutual agreement for facilitating research activities.

AND

Navodaya Medical College located at Navodaya Nagar, Mantralayam Road, Raichur-584103, Karnataka.

The brief terms of agreement are mutually agreed on the following:

This MoU is executed on 05/04/2019 at Raichur by and between Navodaya Dental College having its hospital located at Navodaya Nagar, Mantralayam Road, Raichur-584103, Karnataka. (Herein after referred to as to as Navodaya Dental College) and permitted by Dental Council of India, represented by its Principal **and** Navodaya medical College and hospital having its hospital located at Navodaya Nagar, Mantralayam Road, Raichur-584103, Karnataka. (Herein after referred to as to as Navodaya Medical college and hospital and permitted by Medical Council of India represented by its Principal. Whereas both, located at Navodaya Educational Trust Campus in accordance with mutual desire to promote learning, research and development, agree to have a Memorandum of understanding (MoU) as follows:

1) Broad Objectives

This MoU is signed for the purpose of academic collaboration at academic levels that will encompass exchange of students and members of faculty between the institutes. In addition, active efforts will be made to develop joint training and research programs that will be pursued in a collaborative spirit. Some of the collaborative areas include the following



1. Utilize the NETS Central Research Lab and Simulation Centre by students & the faculty members for the purpose of research work to enable deliver quality health care. The financial expenses of the material utilized for the research work will be borne by the researcher
2. Joint research and development
3. Staff exchange/Deputation
4. Facilities sharing platform
5. Jointly organizing seminars, workshops and other academic activities Outreach and extension activities

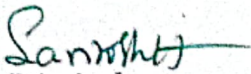
II) Terms

1. This MoU is valid for a period of two years from the date of signing renewed every 2 years. Either party is free to terminate the agreement by giving a notice of three months.
2. No modification to this MoU shall be binding unless it is made in writing and signed by both the parties.
3. This MoU shall be governed by the provisions of the arbitration and conciliation act, 1996 and if any claims/disputes arise between the institutions, the same will be referred to a Solo arbitrator appointed by Navodaya Dental College.

The MoU is made out in 2 (two) original copies one for each of the parties. All original copies here of are identical and legally equal.

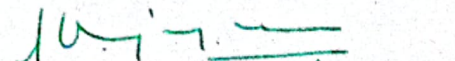
IN WITNESS WHEREOF, the parties hereto have signed and delivered this memorandum of Understanding the day month and year mentioned above

This Memorandum is signed on 5th April 2019.


Principal

Navodaya Dental College
& Hospital, Raichur

**Navodaya Dental College,
RAICHUR**


Principal

Navodaya Medical College
& Hospital, Raichur

**PRINCIPAL
Navodaya Medical College
RAICHUR**



MEMORANDUM OF UNDERSTANDING

Navodaya Dental College engaged in Dental health care services located at Navodaya Nagar, Mantralayam Road, Raichur-584103, Karnataka. (Herein after referred to as to as Navodaya Dental College) request your kind self to enter in mutual agreement for facilitating research activities.

AND

Navodaya Medical College located at Navodaya Nagar, Mantralayam Road, Raichur-584103, Karnataka.

The brief terms of agreement are mutually agreed on the following:

This MoU is executed on 05/04/2021 at Raichur by and between Navodaya Dental College having its hospital located at Navodaya Nagar, Mantralayam Road, Raichur-584103, Karnataka. (Herein after referred to as to as Navodaya Dental College) and permitted by Dental Council of India, represented by its Principal **and** Navodaya medical College and hospital having its hospital located at Navodaya Nagar, Mantralayam Road, Raichur-584103, Karnataka. (Herein after referred to as to as Navodaya Medical college and hospital and permitted by Medical Council of India represented by its Principal. Whereas both, located at Navodaya Educational Trust Campus in accordance with mutual desire to promote learning, research and development, agree to have a Memorandum of understanding (MoU) as follows:

1) Broad Objectives

This MoU is signed for the purpose of academic collaboration at academic levels that will encompass exchange of students and members of faculty between the institutes. In addition, active efforts will be made to develop joint training and research programs that will be pursued in a collaborative spirit. Some of the collaborative areas include the following



1. Utilize the NET'S Central Research Lab and Simulation Centre by students & the faculty members for the purpose of research work to enable deliver quality health care. The financial expenses of the material utilized for the research work will be borne by the researcher.
2. Joint research and development
3. Staff exchange/Deputation
4. Facilities sharing platform
5. Jointly organizing seminars, workshops and other academic activities Outreach and extension activities

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IN WITNESS WHEREOF, the parties hereto have signed and delivered this memorandum of Understanding the day month and year mentioned above

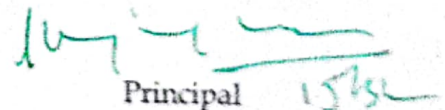
This Memorandum is signed on 5th April 2021.


Principal

Navodaya Dental College
& Hospital, Raichur

PRINCIPAL

Navodaya Dental College,
RAICHUR


Principal 15/4/21

PRINCIPAL
Navodaya Medical College
& Hospital, Raichur
RAICHUR



Navodaya Education Trust's

NAVODAYA DENTAL COLLEGE

(Affiliated to Rejiv Gandhi University of Health Sciences, Karnataka)

(Recognised by Dental Council of India, New Delhi)

Post Box No. 26, Navodaya Nagar, RAICHUR - 584 103. (Karnataka)

Ph : 08532-223361, 223448, 223449, Fax : 08532-223266, E-mail : navodayadentalcollege@yahoo.com

MEMORANDUM OF UNDERSTANDING

Navodaya Dental College engaged in Dental health care services located at Navodaya Nagar, Mantralayam Road, Raichur-584103, Karnataka. (Herein after referred to as to as Navodaya Dental College) request your kind self to enter in mutual agreement for facilitating research activities.

AND

Navodaya Medical College located at Navodaya Nagar, Mantralayam Road, Raichur-584103, Karnataka.

The brief terms of agreement are mutually agreed on the following:

This MoU is executed on 05/04/2017 at Raichur by and between Navodaya Dental College having its hospital located at Navodaya Nagar, Mantralayam Road, Raichur-584103, Karnataka. (Herein after referred to as to as Navodaya Dental College) and permitted by Dental Council of India, represented by its Principal and Navodaya medical College and hospital having its hospital located at Navodaya Nagar, Mantralayam Road, Raichur-584103, Karnataka. (Herein after referred to as to as Navodaya Medical college and hospital and permitted by Medical Council of India represented by its Principal. Whereas both, located at Navodaya Educational Trust Campus in accordance with mutual desire to promote learning, research and development, agree to have a Memorandum of understanding (MoU) as follows:

1) Broad Objectives

This MoU is signed for the purpose of academic collaboration at academic levels that will encompass exchange of students and members of faculty between the institutes. In addition, active efforts will be made to develop joint training and research programs that will be pursued in a collaborative spirit. Some of the collaborative areas include the following



Navodaya Education Trust's

NAVODAYA DENTAL COLLEGE

(ACCREDITED WITH 'A' GRADE BY NAAC)

(Affiliated to Rejiv Gandhi University of Health Sciences, Karnataka)

(Recognised by Dental Council of India, New Delhi)

Post Box No. 26, Navodaya Nagar, RAICHUR - 584 103. (Karnataka)

Phone : 08532-223361, 223448, 223449, Fax : 08532-223266

Website : www.navodaya.edu.in

E-mail : ndc_navodaya2006@rediffmail.com

1. Utilize the NET'S Central Research Lab and Simulation Centre by students & the faculty members for the purpose of research work to enable deliver quality health care. The financial expenses of the material utilized for the research work will be borne by the researcher.
2. Joint research and development
3. Staff exchange/Deputation
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2. No modification to this MoU shall be binding unless it is made in writing and signed by both the parties.
3. This MoU shall be governed by the provisions of the arbitration and conciliation act, 1996 and if any claims/disputes arise between the institutions, the same will be referred to a Solo arbitrator appointed by Navodaya Dental College.

The MoU is made out in 2 (two) original copies one for each of the parties. All original copies here of are identical and legally equal.

IN WITNESS WHEREOF, the parties hereto have signed and delivered this memorandum of Understanding the day month and year mentioned above

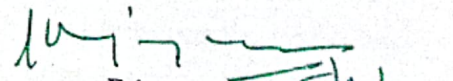
This Memorandum is signed on 5th April 2017.


Principal

Navodaya Dental College
& Hospital, Raichur

PRINCIPAL

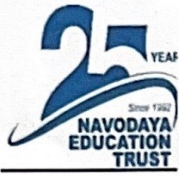
Navodaya Dental College,
RAICHUR


Principal

Navodaya Medical College
& Hospital, Raichur

PRINCIPAL

Navodaya Medical College
RAICHUR



NAVODAYA MEDICAL COLLEGE

Dr. N. K. Bhat Centre for Simulation & Research is a novel initiative by Navodaya Medical College. The well-equipped center provides cutting-edge technology with modern mannequins. Both the educational needs of students and the clinical needs of the patients are met in an innovative way in the center. The center has been IAP (Indian Academy of Pediatrics) recognized for BLS training since 2015. It is well equipped to support the RGUHS-JEEVA RAKSHA's – C-ECLS Course. It is located on the top floor of Navodaya Medical College Hospital and Research Centre with an area of the skill lab is 7500 sq. ft. with different sections imparting training to students in the basic and advanced medical and surgical sections and incorporates detailed and complete metrics for skill assessment. We have, as of now, 19 RGUHS certified trainers from various departments to deliver the essential skills to students.

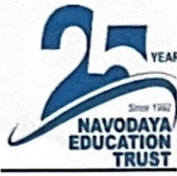
We also have **Central Research laboratory (CRL)** that provides centralized research infrastructure to benefit investigators in multiple disciplines. It is situated in the first floor of Navodaya Medical College with 1500 sq. feet area provides sufficient bench space for multidisciplinary research.

The renovated, well equipped, climate controlled and Power Back up CRL was inaugurated by on 29th September 2017.

The genomic laboratory at CRL is useful for conducting research at very advanced level as well as for diagnosis and confirmation of certain genetic disorders at the molecular level.


Principal

Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.



Each batch of our under graduate students attend skill training programme every year and our postgraduate students take up research projects utilising central research lab.

DR. N. K. BHAT CENTRE FOR SIMULATION & RESEARCH

FACILITIES AVAILABLE

| S.No | Discription |
|-------------|--|
| 1 | Blood Pressure Training Arm |
| 2 | Sam II Student Auscultation Manikin |
| 4 | Ultimate Hurt |
| 5 | Bax strap Spine Board With Accessories |
| 6 | Laerdal Iv Torso |
| 7 | Little And baby Anne 4-Pack |
| 8 | Little Junior 4 Pack |
| 9 | AED Trainer 2 |
| 11 | Choking Charli |
| 12 | Male Multi-Venous Iv Training |
| 13 | Ng Tube & Trachea Care Trainer |
| 14 | Advance Catheterization Trainer |
| 15 | Injection Trainer |
| 17 | Simman3g Completed |
| 18 | Nasal Feeding And Gastric Lavage Model |
| 19 | Surgical Suturing Arm/leg |
| 21 | Advance CPR Training Mainkin Adult |
| 22 | Nasopharyngeal Airway 4.0 |
| 23 | Laryngoscope Adult 7+1 |
| 24 | Ambu Bag Adult 1600 MI |
| 26 | Guedel Airway 0 |
| 27 | Laerdal and Pediatric Airway Managment Trainer |


Principal

Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.



Raichur, Karnataka, India
 Navodaya Medical College Raichur, Ashok Nagar, Raichur, Karnataka 584103, India
 Lat N 16° 11' 10.41"
 Long E 77° 22' 0.66"
 19/02/21 01:52 PM



Raichur, Karnataka, India
 Navodaya Medical College Raichur, Ashok Nagar, Raichur, Karnataka 584103, India
 Lat N 16° 11' 10.41"
 Long E 77° 22' 0.66"
 19/02/21 12:18 PM

Raichur, Karnataka, India
 Navodaya Medical College Raichur, Ashok Nagar, Raichur, Karnataka 584103, India
 Lat N 16° 11' 10.41"
 Long E 77° 22' 0.66"
 19/02/21 11:56 AM



Girish
 Principal

Dr. GIRISH KATTI M.D.S.
 PRINCIPAL
 NAVODAYA DENTAL COLLEGE
 RAICHUR-584 103.

CENTRAL RESEARCH LABORATORY (CRL)

FACILITIES AVAILABLE

| SL NO | DESCRIPTION |
|-------|---|
| 1. | Automated Hematology 6-Part analyzer |
| 2. | Mini-VIDAS for Hormonal Analyzer Hormonal Assay |
| 3. | UV-Visible Spectrophotometer for Qualitative and quantitative turbidometric analysis of body fluids |
| 4. | Electrophoresis unit for Detection of proteins, power pack enzymes, DNA & RNA |
| 5. | Laminar Flow Fixed Equipment for Nucleic acid separation area |
| 6. | Biosystems A-15 Auto analyzer for Renal functional tests, Liver functional tests, Cardiac functional tests & Diabetic profile |
| 7. | Electrolyte Analyzer for estimation of serum Na, K, Mg, Ca etc., |
| 8. | ELISA Reader and ELISA Washer for Hormonal & Serological study |
| 9. | Prima - 96 Thermal Cycler for Amplification, Denaturation and annealing of nucleic acid |
| 10. | PCR Work Station with UV Sterilizer for Genomic study |


Principal

Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.




Principal

Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.

MEMORANDUM OF UNDERSTANDING

This MoU is executed on 15/07/2020 between Navodaya Dental College located at Navodaya Nagar, Mantralayam Road, Raichur- 584103, Karnataka. (Herein after referred to as to as Navodaya Dental College)

AND

Navodaya Institute of Technology located at Bijengera Road, Raichur- 584103, Karnataka. (Herein after referred to as to as Navodaya Engineering college).

In accordance with mutual desire to promote learning, research and development, agree to have a Memorandum of understanding (MoU) as follows:

1. Utilize the Research Lab and equipment by students & the faculty members for the purpose of research work. The financial expenses of the material utilized for the research work will be borne by the researcher.
2. Joint research and development
3. Facilities sharing platform academic research work.

This Memorandum is signed on 15th July 2020 This MOU is valid for the period of 3 years from 15/07/2020 to 14/07/2023.

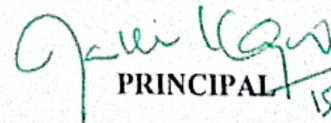

PRINCIPAL

Navodaya Dental College

Raichur

PRINCIPAL

Navodaya Dental College,
RAICHUR


PRINCIPAL 15/07/2019

Navodaya Institute of Technology (NIT)
RAICHUR 584 103



MEMORANDUM OF UNDERSTANDING

This MoU is executed on 15/07/2017 between Navodaya Dental College located at Navodaya Nagar, Mantralayam Road, Raichur- 584103, Karnataka. (Herein after referred to as to as Navodaya Dental College)

AND

Navodaya Institute of Technology located at Bijengera Road, Raichur-584103, Karnataka. (Herein after referred to as to as Navodaya Engineering college).

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2. Joint research and development
3. Facilities sharing platform for academic research work.

This Memorandum is signed on 15th July 2017. This MOU is valid for the period of 3 years from 15/07/2017 to 14/07/2020.


PRINCIPAL

Navodaya Dental College

Raichur
PRINCIPAL
Navodaya Dental College,
RAICHUR


PRINCIPAL 15/07/2017
PRINCIPAL
Navodaya Engineering College
Navodaya Institute of Technology (NIT)
RAICHUR-584 103



MEMORANDUM OF UNDERSTANDING

This MoU is executed on 11/02/2021 between Navodaya Dental College located at Navodaya Nagar, Mantralayam Road, Raichur- 584103, Karnataka. (Herein after referred to as to as Navodaya Dental College)

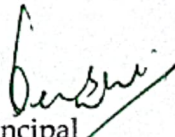
AND

Navodaya College of Physiotherapy located at Navodaya Nagar, Mantralayam Road, Raichur 584103, Karnataka. (Herein after referred to as Navodaya College of Physiotherapy).

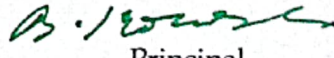
Whereas both, located at Navodaya Educational Trust Campus in accordance with mutual desire to promote learning, research and development, agree to have a Memorandum of understanding (MoU) as follows:

1. For the Treatment of patients from Navodaya dental college who require physiotherapy and physiotherapeutic modalities and also for clinical studies using the facilities at Navodaya College of Physiotherapy.
2. Facilities sharing each other platform for academic research work.

This Memorandum is signed on 11th February 2021. This MoU is valid for the period of three years i.e. from 11/02/2021-10/02/2024.


Principal
Navodaya Dental College
Hospital, Raichur.

Dr. GIRISH KATTI M.D.S.
PRINCIPAL
NAVODAYA DENTAL COLLEGE
RAICHUR-584 103.


Principal
Navodaya College of
Physiotherapy, Raichur.

PRINCIPAL
Navodaya College of Physiotherapy
RAICHUR.