

**RANJEET DESHMUKH DENTAL COLLEGE AND RESEARCH CENTRE, NAGPUR**

**LIST OF COMPLETED RESEARCH PROJECTS (2024-25)**

**PERIODONTICS & IMPLANTOLOGY**

SR.NO.	PRINCIPAL INVESTIGATOR	CO-INVESTIGATOR	TITLE	IEC NUMBER
1.	Kanchan Bahad	Dr Surekha Rathod Dr Pranjali Bawankar	Evaluation of clinical efficacy of locally delivered novel composite gel containing bromelain as an adjunct to non surgical periodontal therapy.	IEC/RDDC&RC/UG/STU/87/2024
2.	Vaishnavi Gupta	Dr Pranjali Bawankar Dr Surekha Rathod	Evaluation of clinical efficacy of locally delivered novel gel containing green apple ring extract as an adjunct to non surgical periodontal therapy.	IEC/RDDC&RC/UG/STU/86/2024
3.	Dr. Dhawal Mody	Dr. Vaishnavi Langde	Analysis of association between maxillary sinus lateral wall thickness, Schneiderian membrane thickness and residual alveolar ridge height in dentate and partially edentulous patients: A CBCT Study.	IEC/RDDC&RC/Staff/Perio/85/2024
4.	Savi Jain	Dr. Vrushali Lathiya	Evaluation and correlation of maternal periodontal diseases and complete blood count parameters with adverse pregnancy outcomes: a cross sectional study	IEC/VSPMDCRC/12/202321/6/20
5.	Dr. Surekha Rathod		Comparative Evaluation of Psidium Guajava leaf powder with Injectable Platelet Rich Fibrin and Demineralized Freeze-dried Bone Allograft with Injectable Platelet Rich Fibrin in the treatment of Periodontal Intrabony osseous Defects: A Clinico-radiographic study.	IEC/VSPMDCRC/02/2023
6.	Rubal Bhoigade, Sharvari Devikar	Dr. Pranjali Bawankar	Evaluation and comparison of antimicrobial efficacy of a novel herbal chewing gum containing neem extracts with doxycycline and chlorhexidine on periodontal pathobionts: An in-vitro microbiological study	IEC/VSPMDCRC/08/2024
7.	Preshita Barai, Yash Bhakkad	Dr. Surekha Rathod	Comparative evaluation of effect of Herbal based mouth wash in gingivitis patients- A Randomized controlled trial	IEC/VSPMDCRC/07/2024

8.	Shalaka Bodhankar Rohini Dolas	Dr. Neha Deshpande	Assessment of Periodontal Health Status in Patients having Metabolic Syndrome (MetS): A cross sectional study	IEC/VSPMDCRC/06/2024
9.	Rishi Bora Pornima Dhote	Dr. Vrushali Lathiya	Assessment and correlation of Anxiety, metabolic syndrome & Periodontal Disease in smokers and non-smokers: A cross-sectional study	IEC/VSPMDCRC/48/202423/9/2024
10	Dr. Pranjali Bawankar		Evaluation of Clinical Efficacy of locally delivered Vitamin D3 gel as an adjunct to Non-Surgical periodontal therapy in treatment of Periodontitis.	IEC/RDDC&RC/DEAN/02/2024
11	Dr. Supriya Kaule	Dr. Surekha Rathod	Comparative evaluation of Probe Transparency, Transgingival Probing and Machine Learning Software Methods for assessment of Gingival Phenotype.	IEC/VSPMDCRC/11/2022
12	Vaishnavi Gupta	Dr Pranjali Bawankar Dr Surekha Rathod	Evaluation of clinical efficacy of locally delivered novel gel containing green apple ring extract as an adjunct to non surgical periodontal therapy.	IEC/RDDC&RC/UG/STU/86/2024
13	Kanchan Bahad	Dr Surekha Rathod Dr Pranjali Bawankar	Evaluation of clinical efficacy of locally delivered novel composite gel containing bromelain as an adjunct to non surgical periodontal therapy.	IEC/RDDC&RC/UG/STU/87/2024
14	Dr. Abhay Kolte	Dr. Siddhi Sonare	Sinus Membrane Thickness in periodontally Healthy and Stage III Periodontitis patient and its correlation with anatomical parameters using Cone Beam Computed Tomography.	IEC/RDDC&RC/Dean/20/2024
15	Dr. Humaira Siddique	Dr. Kamal Mankar	Comparative evaluation of ozone therapy and photodynamic therapy as an adjunct to scaling and root planning in Stage II and Stage III Chronic periodontitis: A split mouth randomized controlled trial.	IEC/VSPMDCRC/12/2022
16	Dr. Shreya Wakad	Dr. Rajashri Kolte	Comparative evaluation of Influence of microgrooved grip implant and spiral implant with microgrooved abutment on peri-implant hard and soft tissues: A randomized controlled clinical trial.	IEC/VSPMDCRC/09/2022

17	Dr. Prabhnoor Tuli	Dr. Abhay Kolte	Comparative evaluation of vestibular incision supra periosteal tunnel access (VISTA) technique with and without A-PRF in treatment of multiple adjacent recession defects in maxillary anterior region- A randomized Controlled trial.	IEC/VSPMDCRC/10/2022
18	Shubhra Rastogee	Dr. Prachi Rathi	Comparative evaluation of lifestyle pattern, oral health practices and status in normal, overweight and obese patients: A cross sectional study	IEC/VSPMDCRC/02/2023
19	Samiksha Ghodeswar, Varahmir Gupta	Dr. Prachi Rathi	Prevelance and analysis of anxiety and depression levels of undergraduate students in dental courses	IEC/RDDCRC/INT/AUG2024/72
20	Dr. Rajashri Kolte	Dr. Radhika Rathi	Comparative evaluation of PISA, PESA and Oral Health Quality of Life in Controlled and Uncontrolled Type II Diabetes Mellitus Patients: A Cross Sectional Study	IEC/RDDC&RC/Dean/19/2024
21	Dr. Kamal Mankar	Dr. Anushree Matre	Comparative evaluation of Waist Circumference and waist to Height Ratio in Stage III/IV Periodontitis patients with and without type 2 Diabetes Mellitus	IEC/RDDC&RC/Dean/32/2024
22	Dr. Abhay Kolte	Dr. Tushar Mohata	Comparative evaluation of Periodontal Status, Xerostomia Severity, and oral Health Related Quality of Life in Controlled and Uncontrolled Type II Diabetes Mellitus Patients	IEC/RDDC&RC/Dean/21/2024
23	Dr. Dhawal Mody	Dr. Vaishnavi Langde	Analysis of association between maxillary sinus lateral wall thickness, Schneiderian membrane thickness and residual alveolar ridge height in dentate and partially edentulous patients: A CBCT Study.	IEC/ RDDC&RC/Staff/ PERIO/85/2024

## PROSTHODONTICS

SR.NO.	PRINCIPAL INVESTIGATOR	CO-INVESTIGATOR	TITLE	IEC NUMBER

1.	Dr. Priyanka Jain	Dr. Rajlakshmi Banerjee	Knowledge and awareness of application in prosthetics in forensic dentistry amongst dentist in Nagpur: A question based cross sectional study.	IEC/RDDC/PG/PROSTHO/07/2024
2.	Nidhi Ambekar	Dr Jaishree Chahande	Oral Health status of children and adolescents with sickle cell disease in Nagpur disease: A Cross sectional study.	IEC/RDDCRC/UG/52/2024
3.	Dr Anita Kahar	Komal Rawlani	Assessment of challenges faced by preclinical dental students while mounting the cast with mean value articulator.	IEC/RDDC&RC/Staff/Prostho/67/2024
4.	Dr Vijeta Gajbhiye	-	Evaluation of Knowledge, attitude and perception regarding the role of artificial intelligence (AI) amongst dental practitioners practicing in Nagpur region: A cross-sectional study.	IEC/RDDC&RC/Staff//Prostho/74/2024
5.	Iffat Saiyad	Dr Kalyani Deshmukh	Knowledge, attitude and practices among dental professionals regarding implications of systemic drugs in dental implant osseointegration in Vidarbha Region: A cross- sectional study.	IEC/RDDCRC/Intern/Prostho/75/2024
6.	Tanvi Jadhav	Dr Kalyani Deshmukh	Knowledge, Attitude and practices regarding various impression techniques and materials used in fixed dental prosthesis amongst dentists in Nagpur: A cross sectional study.	IEC/RDDCRC/Intern/Prostho/44/2024
7.	Priyanka Telang	Dr Ojas Gajbhiye	Assessment of influence of the use of social media on patients changing dental practice in Nagpur Region: A cross sectional study.	IEC/RDDCRC/Intern/Prostho/76/2024
8.	Dr. Jayashree Joshi	Dr. Anita Kahar	Comparative evaluation of two different assessment methods used by two different evaluators to assess prosthodontic pre-clinical practical skills of dental undergraduate students.	IEC/RDDC&RC/51/2024
9.	Dr. Bushra Khan	Dr. Jyoti Sharma	Influence of social media on young adults choices of aesthetic dental treatments in central India- A Cross Sectional Study.	IEC/RDDCRC/02/2024
10.	Dr. Devina Deshpande	Dr. Jyoti Sharma	Knowledge, awareness and inclination for use of botox and dermal fillers for smile designing/ orofacial aesthetics among recent dental graduates and practicing dentists in Nagpur region: A cross sectional study.	IEC/RDDCRC/03/2024

11.	Dr. Zoya Yunus	Dr. Jyoti Sharma	Dental aesthetic and its impact on psychosocial well being and self confidence among dental students and practitioners – A cross sectional study.	IEC/RDDCRC/03/2024
12.	Dr. Utkarsh Ande	Dr. Anuj Chandak	Assessing knowledge levels on infection control among undergraduate and postgraduate dental students in Vidarbha: A questionnaire study.	IEC/RDDCRC/86/2024
13.	Gargi Santosh More	Dr. Anita Kahar	Assessment of change in attitude and physical and psychological symptoms of first year dental students towards cadaver dissection- A longitudinal study.	IEC/RDDCRC/85/2024
14.	Dr. Divya Kamnani	Dr. Saeed Deshpande	Development and validation of software using artificial intelligence to predict lost vertical dimension in partially and completely edentulous patients.	IEC/RDDCRC/PG/123/2024
15.	Dr. Shubham Bhavane	Dr. Saeed Deshpande	Development and validation of devices to check tissue compressibility in completely edentulous patients.	IEC/RDDCRC/121/2024

#### **CONSERVATIVE DENTISTRY AND ENDODONTICS**

SR.NO.	PRINCIPAL INVESTIGATOR	CO-INVESTIGATOR	TITLE	IEC NUMBER
1.	Saundarya Somsetwar	Dr. Ankita Ramteke	Knowledge, Awareness and Practice of Dental Interns regarding endodontic treatment- Questionnaire based cross sectional survey.	IEC/RDDCRC/Dean/09/2024
2.	Sanober Sobani	Dr. Prajakta Ambulkar	Knowledge, perception and awareness of patient regarding application of home remedies for relief of dental problems, their consequences and management.	IEC/RDDCRC/Dean/10/2024
3.	Dr Bhumika Vaswani	Dr Pratima Shenoi	A randomized control trial to assess post operative pain following irrigation using cryotherapy and laser activated irrigation technique during single visit endodontic treatment in symptomatic irreversible pulps.	IEC/RDDCRC/PG/Cons/64/2024
4.	Dr Urja Mali	Dr Mohit Gunwal Dr Pratima Shenoi	Efficacy of traditional triple, double and newer single antibiotic paste against different clinically isolated micro-organisms: An invitro study.	IEC/RDDCRC/PG/Cons/63/2024

5.	Dr Sunayana Bidave	Dr Vandana Konkane	A randomised controlled trial for evaluation of post-operative pain following application of resin modified glass ionomer based vanish and Ormocer-based varnish in reducing dentinal hypersensitivity.	IEC/RDDCRC/PG/Cons/78/2024
6.	Dr Shefali Giri	Dr Gautam Badole	Position of apical foramen in relation to the longitudinal axis of mandibular premolar in central India population using CBCT: A cross sectional study	IEC/RDDCRC/Dean/81/2024
7.	Dr Anushree Pawar	Dr Chetana Makade	Assessment of incidence and correlation of axis contacts using cast model, photographs and direct clinical examination in permanent dentition.	IEC/RDDCRC/PG/Cons/80/2024
8.	Dr Jayendra Desai	Dr Rajesh Kubde	Comparative evaluation of the effect of Acacia Nilotica, Camboponcitratus and sodium hypochlorite on the root canal dentin microhardness of single rooted mandibular premolars when used as endodontic irrigants : An in-vitro study	IEC/RDDCRC/Dean/79/2024
9.	Sakshi Sukhija	Dr. Kushal Fuladi	Assessment of Knowledge, Attitude and Practice about dental ergonomics among interns in Vidarbha region of Maharashtra- A cross sectional study.	IEC/RDDCRC/UG/Cons/25/2025

## ORAL MEDICINE AND RADIOLOGY

SR.NO.	PRINCIPAL INVESTIGATOR	CO-INVESTIGATOR	TITLE	IEC NUMBER
1.	Dr. Anwesha Ramteke	Dr. Apeksha Dhole	Comparative assessment of knowledge, attitude and practice regarding tobacco and areca nut use among visually impaired and normally sighted individual using modified questionnaire in Braille.	IEC/RDDC&RC/Dean/11/2024
2.	Tuhina Bhattacharjee	Dr. Smiriti Golhar	Assessment of Hepatitis C awareness among students and Interns in Dental College in Nagpur.	IEC/RDDC&RC/Dean/48/2024

**ORAL SURGERY**

SR.NO.	PRINCIPAL INVESTIGATOR	CO-INVESTIGATOR	TITLE	IEC NUMBER
1.	Dr Karishma Jadhav	Dr Vrinda Kolte	Effect of transcutaneous electric nerve stimulation (TENS) on post operative pain after disimpaction of mandibular third molars: A prospective comparative study.	IEC/RDDC&RC/PG/OMFS/119/2025

**ORTHODONTICS**

SR.NO.	PRINCIPAL INVESTIGATOR	CO-INVESTIGATOR	TITLE	IEC NUMBER
1.	Priyank Jugele	Dr. Nivedita Nandeshwar	Evaluation of knowledge, awareness and practices regarding the use of artificial intelligence amongst dental practitioners: A Cross sectional Study.	IEC/RDDC&RC/Dean/24/2024
2.	Dr. Chetan Palaskar	Dr. Ananya Hazare	Pulp/ tooth ratio of mandibular first and second molar on panoramic radiograph to evaluate skeletal age of patient: A radiographic study.	IEC/RDDC&RC/PG/Orthodontics/112/2025
3.	Dr. Aditya Vaidya	Dr. Usha Shenoy	Evaluation and correlation of facial index with ANB angle and Wits appraisal in skeletal class 1, 2, 3 Malocclusion - A photographic and radiographic retrospective study.	IEC/RDDC&RC/PG/Orthodontics/85/2025
4.	Dr. Manali Niraj Jaiswal	Dr. Usha Shenoy	Assessment and corelation of influence of air quality index on hyoid bone position - A two city cephalometric study.	IEC/RDDC&RC/PG/Orthodontics/101/2025

**PEDIATRICS AND PREVENTIVE DENTISTRY**

SR.NO.	PRINCIPAL INVESTIGATOR	CO-INVESTIGATOR	TITLE	IEC NUMBER
1.	Aditi Pinjarkar	Dr. Pooja Rathi	Effects of Iron containing supplements on teeth of children: A cross sectional study	IEC/RDDC&RC/Dean/6/2024
2.	Sheikh Mohd Quais	Dr Ayushi Gurharikar	The role of smartphone applications in emergency management of traumatic dental injuries: Content analysis of currently available mobile dental applications.	IEC/RDDC&RC/Dean/77/2024

**PUBLIC HEALTH DENTISTRY**

SR.NO.	PRINCIPAL INVESTIGATOR	CO-INVESTIGATOR	TITLE	IEC NUMBER
1.	Srushti Borkar	Dr Parijit Wagh	Comparison of anxiety about dental treatment among the dental, medical, physiotherapy, nursing students of VSPM campus.	IEC/RDDCRC/INT/PHD/69/2024
2.	Srushti Borkar	Dr Parijit Wagh	Assessment of level of anxiety among the patients visiting a dental college for various dental treatments: a cross sectional study	IEC/RDDCRC/INT/PHD/69/2024

**ORAL PATHOLOGY**

SR.NO.	PRINCIPAL INVESTIGATOR	CO-INVETIGATOR	TITLE	IEC NUMBER

1.	NIMISHA AGRAWAL	DR. ASHISH BODHADE	Assesment of awareness of self identification of dental caries by general population: A cross sectional study	IEC/RDDC&DC/Dean/01/2024
2.	Tejaswini Bansod	DR. Alka Dive	Awarness regarding effects of tobacco chewing and smoking on oral and systemic health in medical undergradutes	IEC/RDDC&RC/INT/68/2024
3.	Arham Khan Pathan	Dr. Neena Dongre	Exploring the shift in ocal hygiene awareness post COVID-19	IEC/RDDC&DC/Dean/126/2024