

V.Y.W.S. Dental College & Hospital, Amravati
Research Projects

S. No.	Name of Research Projects	Status Ongoing/ Completed	Name of Students / Faculty
1	Primary Stability And Esthetic Score Evaluation For Immediate and Delayed Loading Calcium Phosphate Coated Implants In The Aesthetic Zone.	Ongoing	Prasad Farakute (PG student Prosthodontics)
2	A Comparative Study Of Crestal Bone Level Around Implants With And Without Platelet Rich Fibrin Treatment In The Mandibular Posterior Region Of The Jaw.	Ongoing	Sheetal Hargunani (PG student Prosthodontics)
3	Assessment Of Crestal Bone Level And Gingival Health In Symphyseal Single Mandibular Implant Retained Over denture With Ball And Magnet Attachments.	Ongoing	Shefali Pantawane (PG student Prosthodontics)
4	Comparative Prosthodontic Study Of Implant- Supported Crown And Fabricated Using Digital And Compression Impression Techniques In Single Posterior Edentulous Areas: As In Vivo Study.	Ongoing	Dnyanal Pande (PG student Prosthodontics)
5	Comparative Study Of Primary Stability And Crestal Bone Loss Of Two Different Implant Designs (Tapered And Cylindrical) Placement With Delayed Loading Protocol: An In Vivo Study	Completed	Revati Bhuibhar (PG student Prosthodontics)
6	Comparative Esthetic And Clinical Outcomes Of Early Versus Immediate Implant Placement In The Anterior Maxilla Using Autogenous Bone Grafting And Non Functional Abutments	Completed	Revati Bhuibhar (PG student Prosthodontics)
7	Methods And Assessment For Passive Fit And Implant Supported Prosthetic Framework	Completed	Laksh Alimchandani (PG student Prosthodontics)
8	Esthetic And Functional Aspects In Anterior Implant- Prosthetic Rehabilitation	Completed	Laksh Alimchandani (PG student Prosthodontics)
9	Prosthetic Soft Tissue Management And Augmentation In Aesthetic Implant Restorations	Completed	Prasad Farakute (PG student Prosthodontics)
10	Impact Of Immediate Provisionalization On Biological And Esthetic Outcomes After Immediate Implant Placement In The Anterior Maxilla	Completed	Sheetal Hargunani (PG student Prosthodontics)
11	To compare the oral hygiene outcomes after verbal, written and tactile instructions in non-institutionalized visually impaired subjects: A randomized controlled trial.	Completed	Dr. Siddhant Bhuyar (PG student Periodontics)
12	Periodontal healing after Silver nanoparticle dressing vs Curcumin dressing following the Periodontal flap surgery.	Completed	Dr. Siddhant Bhuyar (PG student Periodontics)
13	Comparative evaluation of Licorice extract and Chlorhexidine mouthwash for treatment of Periodontal diseases: a systematic review and meta-analysis	Completed	Dr. Siddhant Bhuyar (PG student Periodontics)
14	Comparative Evaluation of Licorice extract and Guava leaf extract gel with Chlorhexidine gluconate gel in patients with Chronic Periodontitis: A Randomized Controlled Clinical Trial	Completed	Dr. Siddhant Bhuyar (PG student Periodontics)
15	A Comparative Study on the Efficacy of Aceclofenac and Ibuprofen in Controlling Pain and Swelling Following Periodontal Surgery - A Case Control Study.	Completed	Dr. Shital Pophale (PG student Periodontics)

16	Clinical and Microbiological effects of subgingival irrigation with Tetracycline vs Chlorhexidine in treatment of Chronic Periodontitis.	Completed	Dr. Shital Pophale (PG student Perio)
17	Comparative Study on the Effectiveness of Perio-Rexidin and Rexidin SRS Mouthwashes Following Non-Surgical Periodontal Therapy for Gingivitis.	Completed	Dr. Shital Pophale (PG student Perio)
18	Evaluation of the C-reactive protein serum levels in periodontitis patients with or without type II diabetes.	Completed	Dr. Shital Pophale (PG student Perio)
19	Effectiveness of Diode Laser as an adjunct to Conventional Flap Therapy (CFT) to that of Conventional Flap Therapy alone in treatment of Intrabony Defects - Systematic Review and Meta-analysis	Completed	Dr. Shital Pophale (PG student Perio)
20	Comparisons of effectiveness of PDGF-BB and Hyaluronic acid on stability of dental implants - A clinical and radiographic study	Completed	Dr. Shital Pophale (PG student Perio)
21	Evaluation of gingival thickness with microneedling and Vitamin C v/s microneedling and i-PRF (injectable platelet rich fibrin) in thin gingival phenotype: A randomized controlled clinical trial.	Completed	Dr. Manali S. Waghmare (PG student Perio)
22	Comparative Study of Gingival Depigmentation Using Injectable Glutathione, Vitamin C and Tranexamic Acid with and without Low-Level Laser Therapy: Randomized Controlled Clinical Trial	Completed	Dr. Manali S. Waghmare (PG student Perio)
23	Indices in Periodontology: Tools for Assessment, Prognosis and Outcome Evaluation	Completed	Dr. Manali S. Waghmare (PG student Perio)
24	Comparative study of Bone Mineral Density and Implant Stability after socket preservation with Platelet Rich Fibrin and 0.01% Chlorhexidine Impregnated Platelet Rich Fibrin membrane: A Randomized Controlled Clinical and Radiological Trial.	In progress	Dr. Manali S. Waghmare (PG student Perio)
25	A Comparative Study of Measuring Width of Attached Gingiva using Visual Method and Histochemical Method.	Completed	Dr. Pradnya Kherde (PG student Perio)
26	Effect of tropically applied hyaluronic acid on wound healing after surgical gingivectomy: a randomized control trial	Completed	Dr. Pradnya Kherde (PG student Perio)
27	Secondary closure of an extraction socket using the double-membrane guided bone regeneration technique with immediate implant placement	In progress	Dr. Pradnya Kherde (PG student Perio)
28	Evaluating the efficacy of amniotic membrane with DFDBA treatment of intrabony defects; A systematic review	Completed	Dr. Pradnya Kherde (PG student Perio)
29	Evaluation of Effect of V shaped versus Reverse buttress Implant Thread Design on Marginal Bone Loss in mandibular posterior area – A Clinical and radiographic study	In progress	Dr. Pradnya Kherde (PG student Perio)
30	Comparative evaluation of nutmeg mouthwash and 0.2% chlorhexidine gluconate mouthwash on halitosis and plaque control- A randomized clinical trail	In progress	Dr. Anurag Kanthiwar (PG student Perio)
31	Subgingival Air polishing with Erythritol as an adjunct Periodontal Therapy	In Progress	Dr. Anurag Kanthiwar (PG student Perio)

32	Comparison of Liquorice extract gel with chlorhexidine gel in the treatment of chronic periodontitis. To compare the efficacy of	In Progress	Dr. Anurag Kanthiwar (PG student Perio)
33	To compare the efficacy of Mulethi and Guava Leaf extract in localized Aggressive Periodontitis	In Progress	Dr. Sameer G. Kedia (Faculty, Perio)
34	Comparison of clinical effects and acceptability of conventional tongue crib, tongue tamers and modified tongue crib in anterior open bite cases.		Dr. Meenal Munot (PG student Ortho)
35	Comparison of airway dimensions and hyoid bone position in anterior open bite cases before and after treatment with tongue crib and tongue tamers.		Dr. Komal Lande (PG student Ortho)
36	Comparative study of dentoskeletal effects of aesthetic twin block versus conventional twin block appliance in skeletal class II division 1 patients – And in-vivo study.		Dr. Somnath Achane (PG student Ortho)
37	Comparison of changes in intercanine and intermolar width with superelastic copper NiTi and coaxial tubular NiTi in patients undergoing treatment for mandibular anterior crowding.		Dr. Nikita Deshmukh (PG student Ortho)
38	Co-relation of mandibular second premolar occlusal anatomy with skeletal growth pattern and arch perimeter – An observational study.		Dr. Shruti Khairnar (PG student Ortho)
39	Awareness, attitudes and acceptance of orthodontic treatment among young adults: a cross sectional study.		Dr. Arpita Rathi (PG student Ortho)
40	Effect of habit breaking appliance on anterior open bite in orthodontic patients –A systematic review		Dr. Meenal Munot (PG student Ortho)
41	The effect of different skeletal pattern on airway dimensions , hyoid bone position and tongue position in orthodontic patients -A systematic review		Dr. Komal Lande (PG student Ortho)
42	Comparative evaluation of rate of retraction and anchorage loss using Nickel titanium closed coil spring and active tie back during enmasse retraction -A systematic review and meta analysis.		Dr. Somnath Achane (PG student Ortho)
43	A clinical comparison of effectiveness of various orthodontic aligning Archwires – A systematic review		Dr. Nikita Deshmukh (PG student Ortho)
44	Comparative study of effects of insertion tongue on marginal bone loss in different bone densities after implant placement	Completed	Dr. Sanika Mandaogade [PG student oral surg]
45	Comparative study of 2 dimensional and 3 dimensional miniplate fixation in mandibular fracture	Completed	Dr. Atharva Ghotane [PG student oral surg]
46	Comparative study of healing outcomes using intra socket platelet rich fibrin versus platelet rich fibrin with amoxicillin following mandibular 3 rd molar surgery – A randomized controlled trial	Ongoing	Dr. Kshitija Pawade [PG student oral surg]
47	Comparing the effect of intra-socket 1 % hyaluronic acid gel with ARPF on post extraction healing following mandibular 3 rd molar extraction - A randomized controlled trial	Ongoing	Dr. Pratik Ingale [PG student oral surg]
48	Assessment of the efficacy of platelet rich plasma [PRP] as an adjunct to microneedling in treatment of maxillofacial scars – A prospective study	Ongoing	Dr. Srushti khismatrao [PG student oral surg]
49	Comparative study of vitamin D3 and Ca supplementation on dental implant stability	Ongoing	Dr. Chakradhar Bhosle [PG student oral surg]

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Grants

S. No.	Name of Grants	Grant Approved by	Name of Students / Faculty
1	A Study Of Immediate Implant Placement With Dentin Matrix Graft Obtained From An Indigenous , "Denticulate Dentin Mill" And A " Smart Dentin Grinder"	MUHS, Nashik	Neelima Kamble (PG student, Prosthodontics)
2	Assessment Of Chewing Efficiency Using Chew View: Smart Gum In Dentulous And Complete Denture Wearers.	MUHS, Nashik	Laksh Alimchandani (PG student, Prosthodontics)
3	Evaluation Of Implant Stability In Axial, Tilted And Strategic Immediate Loading Implants Using The Novel Indeginous "Prosthocam Pro-Fit Probe"	MUHS, Nashik	Prasad Farakute (PG student, Prosthodontics)
4	Exploring effective instructional modalities for improving oral hygiene in non-institutionalized visually impaired individuals- A randomized controlled trial	MUHS, Nashik	Dr. Siddhant Bhuyar (PG student Perio)
5	Evaluation of gingival thickness with microneedling and Vitamin C V/s microneedling and i-PRF (injectable platelet rich fibrin) in thin gingival phenotype: A randomized controlled clinical trial.	MUHS, Nashik	Dr. Manali S. Waghmare (PG student Perio)
6	Comparative Study of Bone Mineral Density and Primary Implant Stability by Laser Assisted Socket Preservation Combined with Sandwich Technique using Bioglass and Platelet Rich Fibrin: A Randomized Controlled Clinical and Radiographical Trial	MUHS, Nashik	Dr. Dipanshu Pahuja (PG student Perio)
7	Comparison of ' One Scan' software over conventional methods of record keeping and addressing reminders to patients: a comparative study.	MUHS , Nashik	Miss Komal M Lande (PG student Ortho)
8	Assessment of post extraction hemorrhage in patients on Anti platelet protocol : A Clinical Trial	MUHS , Nashik	Dr. Pankhuri Tiwari (Pande) (Faculty O.Surg)

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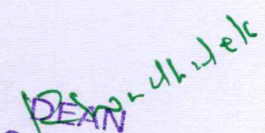
V.Y.W.S. Dental College & Hospital, Amravati**Patents**

S. No.	Title	Given By	Name of Faculty/ Students
1.	A System For Non. Invasive Ai-Based Saiiva Testing Device For Oral And Systematic Disease Diagnosis	Official Journal of The Patent Office, Govt. of India	Dr. Rajesh V. Gondhalekar (Faculty, O.Patho.)
2.	Modular Implant Guide with integrated drill angulation	Official Journal of The Patent Office, Govt. of India	Dr. Mrs Rajeshree R. Gondhalekar (Faculty, OMFS)
3.	Morpho dynamic Dome for a Dental Implant Abutment	The Patent Office Govt. of India- Certificate of registration for UK Design: Design no. 6511335	Dr. Simran R. Parwani (Faculty, Perio)
4.	Temporomandibular disorder detection device	The Patent Office Govt. of India	Dr. Sameer G. Kedia (Faculty, Perio)
5.	Battery Operated dental floss	The Patent Office Govt. of India	Dr. Sameer G. Kedia (Faculty, Perio)
6.	Robotic Plaque Identification Apparatus	The Patent Office Govt. of India	Dr. Sameer G. Kedia (Faculty, Perio)
7.	Robotic Plaque Identification Apparatus	The Patent Office Govt. of India	Dr. Shruti Wankhede (Faculty, Perio)
8.	A system for measuring tongue pressure	Australian Government Patent office no: 2021106623	Dr. Swapnil Wankhade (Faculty, Ortho.)
9.	Portable orthodontic scanner device	Govt. of India Patent no: 406934-001	Dr. Rinku Adwani (Nathani) (Faculty, Ortho.)
10.	Salivary microrna detecting device	UK government Innovation Patent no: 6364267	Dr. Rinku Adwani (Nathani) (Faculty, Ortho.)
11.	Device for holding bracket carrier in dental operation	UK government Innovation Patent no: 6313968	Dr. Rinku Adwani (Nathani) (Faculty, Ortho.)
12.	A system for measuring tongue pressure	Australian Government Innovation Patent no: 2021106623	Dr. Rinku Adwani (Nathani) (Faculty, Ortho.)
13.	Device for holding bracket carrier in dental operation.	UK design patent 2023	Dr. Shweta Kolhe (Faculty, Ortho.)
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15.	Non-invasive orthodontic scanner device.	Govt. of India Patent 2024	Dr. Vipul Rathi (Faculty, Ortho.)
16.	Thermal orthodontic wire cincher.	Govt. of India patent 2025	Dr. Vipul Rathi (Faculty, Ortho.)
17.	Dual purpose orthodontic tool for Archwire handling and cutting in clinics.	UK design patent 2025	Dr. Sulakshana Raut (Faculty, Ortho.)
18.	Wearable fluoride dental device	Govt. of India 2024	Dr. Sulakshana Raut (Faculty, Ortho.)
19.	Wearable orthodontic treatment monitoring device.	Govt. of India 2024	Dr. Abhishek Kolhe (Faculty, Ortho.)

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9	Evaluation of the wound closure after removal of mandibular third molar by n-buty12 cyanoacrylate tissue adhesive and 3.0 mersilk suture : A comparative study	MUHS , Nashik	Dr. Shreyas Gulhane (Faculty O.Surg)


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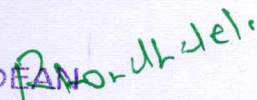
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19.	Wearable orthodontic treatment monitoring device.	Govt. of India 2024	Dr. Abhishek Kolhe (Faculty, Ortho.)

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Innovations and Scholarly Activities

S. No.	Title	Given By	Name of Faculty/ Students
1.	Tooth Enamel Quick Facts	Copyright Office, Government of India	Dr. Mrs Rajeshree R. Gondhalekar (Faculty, OMFS)
2.	Smiles beyond Sight	Copyright Office, Government of India	Dr. Siddhant Bhuyar (P.G. Student, Perio.)
3.	C.D.E. Need Assessment questionnaire	Copyright Office, Government of India	Dr. Siddhant Bhuyar (P.G. Student, Perio.)
4.	Role of Injectable Vitamin C in improving thin gingival phenotype: Non-invasive method by Parwani, Pahuja and Waghmare	Copyright Office, Government of India	Dr. Manali S. Waghmare (P.G. Student, Perio.)
5.	The Synergistic Effect of Injectable Glutathione, Tranexamic Acid, and Vitamin C with and without Low-Level Laser Therapy on Gingival Depigmentation	Copyright Office, Government of India- Under review	Dr. Manali S. Waghmare (P.G. Student, Perio.)
6.	Bone graft Materials for socket preservation- Classification by Parwani and Kawadkar	Copyright Office, Government of India	Dr. Simran R. Parwani (Faculty, Perio)
7.	Platelet rich fibrin in Non-surgical Periodontal Therapy: A Randomized Controlled Trial	Dentistry Journal (Pubmed, Scopus, Web of science)	Dr. Simran R. Parwani (Faculty, Perio)
8.	Treatment of Peri-implantitis by CIST Protocol in a patient with tongue thrust	Journal of Clinical and Diagnostic Research	Dr. Simran R. Parwani (Faculty, Perio)
9.	Role of Injectable Vitamin C in improving thin gingival phenotype: Non-invasive method by Parwani, Pahuja and Waghmare	Copyright Office, Government of India	Dr. Simran R. Parwani (Faculty, Perio)
10.	Notes on Coronoplasty	Copyright Office, Government of India	Dr. Kaustubh S. Thakare (Faculty, Perio)
11.	C.D.E. Need Assessment questionnaire	Copyright Office, Government of India	Dr. Sameer G. Kedia (Faculty, Perio)
12.	Smiles beyond sight	Copyright Office, Government of India	Dr. Sameer G. Kedia (Faculty, Perio)


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