

MAHARASHTRA INSTITUTE OF DENTAL SCIENCES & RESEARCH, LATUR

ONGOING RESEARCH YEAR: 2024

Sr. No	Name of the Department	Principal Researcher	Co-Researcher	Title of Research	Date of starting	Estimated Date of completion	Research committee			Purpose of the study
							Date of submission	Status	Date of approval	
1	Orthodontics and dentofacial orthopedics	Dr.Siddant Jadhav (Thesis)	Dr. Suresh Kangane	To Compare The Effect Of Three Recycling Methods on Shear Bond Strength Of Rebonded Brackets An IN-VITRO Study	June 2023	Jan 2025	8/4/2023	Approved	15/5/23	Thesis
2	Orthodontics and dentofacial orthopedics	Dr. Nikhil Mukhedkar (Thesis)	Dr. Pravinkumar Marure	Comparison Of Dentoskeletal Changes In Skeletal class 2 With Angles Class 2 Divison 1 Cases Using Fixed Function Appliances Forsus TM Fatigue Resistant Device And Mandibular Advansync TM2	June 2023	Jan 2025	8/4/2023	Approved	15/5/23	Thesis
3	Orthodontics and dentofacial orthopedics	Dr. Aavesh Bhoir (Thesis)	Dr. Suresh Kangane	Effect of orthodontic adhesive removal technique and time on bisphenol in saliva after debonding in orthodontic patients ; as randomized control trial	June 2023	Jan 2025	8/4/2023	Approved	15/5/23	Thesis

4.	Orthodontic and Dentofacial orthopaedic	Dr.Arsalan Shaikh	Dr. Yatishkumar Joshi	Evolution of change in airway dimension and sagittal position of hyoid bone in orthodontic patient treated with extraction of all first premolar :Cephalometric Study	June 2023	Jan 2025	8/4/2023	Approved	15/5/23	thesis
5	Orthodontic and Dentofacial orthopaedic	Dr.Manjusha patil	Dr. Anand Ambekar	Quantitative evaluation of buccal and palatal cortical bone thickness at different height of effective mini plate placement by using CBCT system	June 2023	Jan 2025	12/4/2023	Approved	15/5/23	Thesis
6	Prosthodontics	Dr. Vaishnavi Amberkhane	Dr. Ajit Jankar	A comparative evaluation of accuracy of digital verses conventional implant impression techniques in edentulous mandibular for an all on four treatment concept an in vitro study	June 2023	Jan 2025	15/4/2023	Approved	15/5/23	Thesis

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7.	Prosthodontics	Dr. Vidya Channe	Dr. Ajit Jankar	Comparative evaluation stress distribution in peri implant bone of edentulous mandible having different cantilever lengths in all-on-four concepts with carbon filler reinforced prosthesis A three dimensional finite element analysis	June 2023	Jan 2025	15/4/2023	Approved	15/5/23	Thesis
8.	<u>Prosthodontics</u>	Dr. Aditi Darade	Dr. Bhushan Bagar	Evaluation of anterior loop of inferior alveolar nerve and orientation of incisive canal using cone beam computed tomography : A cross sectional study	June 2023	Jan 2025	15/4/2023	Approved	15/5/23	Thesis

9.	Prosthodontics	Dr. Mohini Irkhede	Dr. Sushleen Gajare	Comparative evaluation of flexible strength of heat cure poly-methyl methacrylate denture base resin reinforced with glass fibers carbon filters and aramid filters : An invitro study	June 2023	Jan 2025	15/4/2023	Approved	15/5/23	Thesis
10.	Prosthodontics	Dr. Nitin Kale	Dr. Sandip Fere	Comparative evaluation of the internal fit of cobalt chromium crowns fabricated by conventional casting CAD-CAM and 3D printing : an in vitro study	June 2023	Jan 2025	15/4/2023	Approved	15/5/23	Thesis

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11.	conservative dentistry & endodontics	Dr.adiya Muchchewad	Dr.Ramchand tra Kabir	A comparative evaluation of effect of to alternative modes of application of silver diamine fluoride on microtensile band strength of two different universal adhesive to artificially demineralised dentin after accelerated ageing- an-in-vitro study	June 2023	Jan 2025	17/4/2023	Approved	15/5/23	Thesis
12.	Conservative dentistry& endodontics	Dr shubham Galale	Dr.Ramchand tra Kabir	A comparative evaluation of two different dentin conditioning pre treatment protocol on microtensile bond strength of two different universal adhesives after accelerated ageing- an-in-vitro study	June 2023	Jan 2025	17/4/2023	Approved	15/5/23	Thesis

13.	Conservative Dentistry And Endodontics	Dr Yamini Khotele	Dr. Anita kale	A Comparative Evaluation of Effect of Four Different Rotary Retreatment Files Supplement with XP Endo Finisher Retreatment File in Removal of bioceramic based root canal obturation using cone beam computed tomography: An in vitro study	June 2023	Jan 2025	17/04/2023	Approved	15/5/23	Thesis
14	Conservative Dentistry And Endodontics	Dr Varsha komarwar	Dr. Praveen Dhore	A Comparative evaluation of effect of diode laser activated chelation agent on push out bond strength of bioceramicsealer : in Vitro study	June 2023	Jan 2025	17/04/23	Approved	15/5/23	Thesis

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15	Conservative Dentistry And Endodontics	Dr Sayali A. Daphal	Dr. Amol Badgire	A Comparative evaluation of effect of three different dentin Bondmodifiers on shear bond strength of composite Resin after accelerated aging : An in vitro study	June 2023	Jan 2025	17/04/2023	Approved	15/5/23	Thesis
16	Pediatric& Preventive Dentistry	Dr Anamika Suryawanshi	Dr. Yogesh Kale	Comparative evaluation of effect & Resin modified glass ionomer Varnish & Resin infiltrant on incipient caries lesions in primary teeth: A Randomised controlled trial	June 2023	Jan 2025	17/4/23	Approved	15/5/23	Thesis
17	Pediatric& Preventive Dentistry	Dr Umesh Kendre	Dr. Mahesh Dadape	Comparative evaluation of Platel rich fibrin, Propolis .& Mineral trioxide aggregate as pulpotomy agent in primary molars: Randomised Controlled Trial	June 2023	Jan 2025	17/4/23	Approved	15/5/23	Thesis

18	Pediatric & Preventive Dentistry	Dr Anuja Bhatane	Dr. Shrikant Kendre	Comparative evaluation of antibacterial efficacy of sequential herbant irrigation with conventional irrigation in endodontic therapy of primary teeth ; Randomised Controlled Trial	June 2023	Jan 2025	17/4/23	Approved	15/5/23	Thesis
19	Pediatric And Preventive Dentistry	Dr Sonali D.Lingayat	Dr. Yogesh kale	Comparative Evaluation of effect of xylitol and xylitol – probiotic containing toothpastes on salivary streptococcus Mutans and lactobacillous count in Handicapped children: A Randomized Controlled Trial	June 2023	Jan 2025	17/04/2023	Approved	15/5/23	Thesis
20	Pediatric And preventive Dentistry	Dr Purva Babhulgaonkar	Dr. Prasanna dahake	Comparative evaluation of anxiety reduction in children undergoing endodontic and exodontic procedure with or without the use buiaural beats : A split month randomised controlled trail	June 2023	Jan 2025	18/4/2023	Approved	15/5/23	Thesis

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21	periodontology	Dr.pratiksha shivaji late	DR. Vishnudas Bhandari	Evaluation of stress distribution in the peri-implant bone on application of load on platform matched and abutments in tapered and cylindrical implants : a three dimensional finite element analyse study	June 2023	Jan 2025	18/4/2023	approved	15/5/23	Thesis
22	Periodontology	Dr. Rutuja Shankar Shivpurkar	Dr. Gauri Ugle	Evaluation of vestibular deepening procedure with or without perioral fenestration in shallow mandibular labial vestibular , a randomised clinical trial	June 2023	Jan 2025	22/4/2023	Approved	15/5/23	Thesis
23	Periodontology	Dr. Sayli Shankarrao Dalvi	Dr.Omkumar Baghele	An evaluation of radiographic proximal bone level and It's correlation with depth of placement of platform Switched grade-4 titanium implants having sand Blasted- acid etched surfaces – a clinical trial	June 2023	Jan 2025	17/04/2023	Approved	15/5/23	Thesis

24	Oral and Maxillofacial Surgery	Dr. Shubham Atole	Dr. Sheeraz Badal	Comparative evaluation of effectiveness of piezosurgery and micromotor with bur techniques for removal of impacted mesioangular mandibular third molars: a split mouth study.	June 2023	Jan 2025	18/4/2023	Approved	15/5/23	Thesis
25	Oral and Maxillofacial Surgery	Dr. Shubham Bhele	Dr. Rahul Lature	Efficacy of hyaluronic acid spray in reducing postoperative pain, swelling and enhancing soft tissue healing after transalveolar extractions of endodontically treated mandibular molars : a comparative study	June 2023	Jan 2025	18/4/2023	approved	15/5/23	Thesis

26	Oral and Maxillofacial Surgery	Dr. Sanika Mendki	Dr. Govind changule	Evaluation of marginal bone loss, post operative swelling and pain in implants placed using flapless method versus flap method in mandibular posterior teeth region over a period of six months: a	June 2023	Jan 2025	18/4/2023	Approved	15/5/23	Thesis
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				comparative in vivo study						
27	Oral and Maxillofacial Surgery	Dr. Dnyaneshwar Sakhare	Dr. Rahul Lature	Comparative evaluation of efficacy of 2% lignocaine (with adrenaline 1:80,000) combined with magnesium sulphate versus 2% lignocaine (with adrenaline 1:80,000) for inferior alveolar nerve block in extraction of mandibular molars with periapical infection.	June 2023	Jan 2025	18/4/2023	approved	15/5/23	Thesis
28	Oral and Maxillofacial Surgery	Dr. Laxmi Yogi	Dr. Amol Doiphode	Comparative evaluation of stainless steel skin staples versus 5-0 polypropylene sutures for closing submandibular skin incisions in maxillofacial trauma patients	June 2023	Jan 2025	18/4/2023	approved	15/5/23	Thesis

29	Orthodontics and dentofacial orthopedics	Dr Riya Gala	Dr Anand Ambekar	Efficacy of probiotic lozenges and probiotic toothpaste on reduction of salivary Streptococcus mutans levels in patients undergoing orthodontic treatment: A Randomized Clinical Trial.	April 2024	Jan 2026	20/04/2024	Approved	24/04/2024	Thesis
30	Orthodontics and dentofacial orthopedics	Dr Sumit Homrao	Dr Suresh Kanganne	A comparative evaluation of white spot lesions on application of non fluoride resin sealant, fluoride resin sealant and varnish during fixed orthodontic treatment : A randomized clinical trial.	April 2024	Jan 2026	20/04/2024	Approved	24/04/2024	Thesis

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31	Orthodontics and dentofacial orthopedics	Dr Disha Khandade	Dr Yatishkumar Joshi	Assessing the Influence of Pre-Grafting Orthodontic Modalities on Alveolar Bone Graft Outcomes in Unilateral Cleft Lip and Palate Patients: A Cone-Beam Computed Tomography Study	April 2024	Jan 2026	20/04/2024	Approved	24/04/2024	Thesis
32	Orthodontics and dentofacial orthopedics	Dr Kirti Sonwane	Dr Pravinkumar Marure	Assessing the effect of denosumab on anchorage control – a split-mouth randomized control trial	April 2024	Jan 2026	20/04/2024	Approved	24/04/2024	Thesis
33	Orthodontics and dentofacial orthopedics	Dr Gajanan Waghmode	Dr Anand Ambekar	Comparison of shear bond strength of orthodontic primer incorporating nanohydroxyapatite and silica doped nanoparticles: In-Vitro study.	April 2024	Jan 2026	20/04/2024	Approved	24/04/2024	Thesis

34	Conservative Dentistry	Dr Gitanjali Dahire	Dr Anita Kale	A comparative evaluation of effect of five different desensitizing toothpastes on dentinal tubule occlusion : a scanning electron microscopic study	April 2024	Jan 2026	20/04/2024	Approved	24/04/2024	Thesis
35	Conservative Dentistry	Dr Shubham Gundre	Dr Ramchandrar a Kabir	A comparative evaluation of effect of two different nanoparticles addition on the compressive strength of conventional glass ionomer cement after an erosive challenge: an in-vitro study.	April 2024	Jan 2026	20/04/2024	Approved	24/04/2024	Thesis
36	Conservative Dentistry	Dr Rutuja Kalantri	Dr Ramchandrar a Kabir	A comparative evaluation of flexural strength of two different single shade universal resin composites after accelerated ageing: an in vitro study	April 2024	Jan 2026	20/04/2024	Approved	24/04/2024	Thesis

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37	Conservative Dentistry	Dr Suraj Malu	Dr Anita Kale	An in vitro comparison of influence of different vehicles on calcium ion release and ph value of calcium hydroxide based intracanal medicaments at different time intervals	April 2024	Jan 2026	20/04/2024	Approved	24/04/2024	Thesis
38	Conservative Dentistry	Dr Anuradha Sagane	Dr Amol Badgire	A Comparative evaluation of effect of in-office bleaching on surface roughness and surface micro hardness of three different nano composite resins: An in vitro study	April 2024	Jan 2026	20/04/2024	Approved	24/04/2024	Thesis
39	Oral & Maxillofacial Surgery	Dr Jhanavee Hote	Dr Rahul Lature	Evaluation of pain, jaw movements and masticatory efficiency in management of patients with internal derangement of temporo-mandibular joint using combination of arthrocentesis and intra-articular injection of platelet rich plasma versus arthrocentesis	April 2024	Jan 2026	20/04/2024	Approved	24/04/2024	Thesis

				and intra-articular injection of methylprednisolone over a period of 6 months: a comparative invivo study.						
40	Oral & Maxillofacial Surgery	Dr Shreyas Dungalrwal	Dr Sheeraz Badal	Evaluation of efficacy and safety of 30 % salicylic acid peel versus 45 % mandelic acid peel in mild-to-moderate acne vulgaris over a period Of 4 months : a comparative split face study	April 2024	Jan 2026	20/04/2024	Approved	24/04/2024	Thesis
41	Oral & Maxillofacial Surgery	Dr Rushikesh Yadav	Dr Govind Changule	A comparative evaluation of rotational stamping and criss cross technique of microneedling radiofrequency for acne scar reduction : a split face study in adult patients over four months	April 2024	Jan 2026	20/04/2024	Approved	24/04/2024	Thesis

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42	Oral & Maxillofacial Surgery	Dr Ajay Wadhvani	Dr Amol Doiphode	Evaluation of duration of surgery, postoperative pain, trismus & incidence of dry socket in surgical extraction of impacted mandibular third molar using Piezoelectric surgery unit versus conventional rotary instrument over a Period of week : a split mouth study	April 2024	Jan 2026	20/04/2024	Approved	24/04/2024	Thesis
43	Oral & Maxillofacial Surgery	Dr Anjali Vashisht	Dr Amol Doiphode	Assessment of post-operative complications following surgical removal of impacted mandibular third molar by using envelop flap versus modified ward flap versus triangular flap over a period of one month: a comparative in vivo study	April 2024	Jan 2026	20/04/2024	Approved	24/04/2024	Thesis
44	Pediatric Dentistry	Dr Manasi Bhakkad	Dr Yogesh Kale	Comparative evaluation of calcium hydroxide, light cure gic and biocermet as indirect pulp capping agent in primary molars : A randomised controlled trial	April 2024	Jan 2026	20/04/2024	Approved	24/04/2024	Thesis

45	Pediatric Dentistry	Dr Vaidehi Domale	Dr Mahesh Dadape	Clinical and radiographic evaluation of Conventional GIC, Flowable Resin Reinforced GIC and Self-adhesive fluoride releasing composite Restoration in Primary Molars: A Comparative Randomized Clinical Trial	April 2024	Jan 2026	20/04/2024	Approved	24/04/2024	Thesis
46	Pediatric Dentistry	Dr Shraddha Kasture	Dr Yogesh Kale	Comparative evaluation of effect of pecs and jellow app on streptococcus mutans count and oral hygiene status in children with autistic spectrum disorder: a randomized controlled trial	April 2024	Jan 2026	20/04/2024	Approved	24/04/2024	Thesis
47	Pediatric Dentistry	Dr Shreya Puri	Dr Mahesh Dadape	Clinical and Radiographical Evaluation of Endoflas and Endoflas with Neem Gel as Obturating Material in Primary Molars: Split Mouth Randomized Controlled Trial	April 2024	Jan 2026	20/04/2024	Approved	24/04/2024	Thesis
48	Pediatric Dentistry	Dr Balaji Gawade	Dr Prasanna Dahake	Comparative evaluation of cocoa bean husk, pomegranate extract and chlorhexidine mouth washes to reduce salivary streptococcus mutans and streptococcus salivarius count and it's clinical efficacy to reduce dental plaque formation in children	April 2024	Jan 2026	20/04/2024	Approved	24/04/2024	Thesis

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				between age 8-10 yrs:in-vitro and clinical study						
49	Periodontics	Dr Geeta Bhutada	Dr Vishnudas Bhandari	Six month evaluation of peri-implant tissues with and without application of 1% metformin gel on dental implant surface and in osteotomy site during implantation: a randomized clinical controlled trial	April 2024	Jan 2026	20/04/2024	Approved	24/04/2024	Thesis
50	Periodontics	Dr Mahima Hariyana	Dr Om Baghele	A 6 month follow up evaluation of peri-implant tissues with and without application of enamel matrix derivative on dental implant surface during implantation: A randomized clinical controlled trial	April 2024	Jan 2026	20/04/2024	Approved	24/04/2024	Thesis
51	Periodontics	Dr Snehal Jadhav	Dr Raghvendra Metri	Comparative evaluation of effect of photodynamic therapy and photoablation as an adjunct to open flap debridement in periodontitis patients- a double blinded randomized controlled trial	April 2024	Jan 2026	20/04/2024	Approved	24/04/2024	Thesis
52	Prosthodontics	Dr Monika Bageshwar	Dr Bhushan Bangar	Comparative evaluation of the marginal fit of zirconia crowns fabricated using three different intraoral scanners – an in vitro study	April 2024	Jan 2026	20/04/2024	Approved	24/04/2024	Thesis

53	Prosthodontics	Dr Yogeshwari Bhise	Dr Shital Wagh	Comparative evaluation of stress distribution in peri-implant bone of edentulous maxilla having different framework materials in all on four implant supported prosthesis - a three dimensional finite element analysis	April 2024	Jan 2026	20/04/2024	Approved	24/04/2024	Thesis
54	Prosthodontics	Dr Abhishek Gole	Dr Bhushan Bangar	Comparative evaluation of the internal and marginal fit of cobalt-chromium crowns fabricated by conventional casting, cad/cam, and dmis: an in vitro study	April 2024	Jan 2026	20/04/2024	Approved	24/04/2024	Thesis
55	Prosthodontics	Dr Mayur Tupate	Dr Shashi Patil	Comparative evaluation of dimensional accuracy of conventional impression technique and intraoral scanning technique – an in vitro study	April 2024	Jan 2026	20/04/2024	Approved	24/04/2024	Thesis
56	Prosthodontics	Dr Prashansa Vaikunthe	Dr Shirish Pawar	Comparative evaluation of gingival displacement by three different gingival retraction techniques - an in vivo study	April 2024	Jan 2026	20/04/2024	Approved	24/04/2024	Thesis