



# RESEARCH ACTIVITIES

Dept. Of Paediatric & Preventive Dentistry,  
Awadh Dental College & Hospital

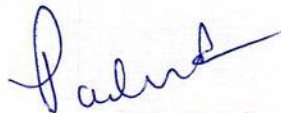
To,  
The Principal,  
Awadh Dental College & Hospital,

Respected Madam,  
This is to certify that the present topics are ongoing as research activities in our department from Dec, 2024 till date.

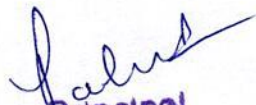
| TOPICS                                                                                                                                                                    | BATCH   | NAME             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------|
| 1. COMPARATIVE EVALUATION OF EFFICACY OF DICLOFENAC TRANSDERMAL PATCH WITH ORAL DICLOFENAC TABLET IN THERAPEUTIC PREMOLAR EXTRACTIONS OF YOUNG PATIENTS: AN IN VIVO STUDY | 2023-26 | DR. UJJAYAN DAS  |
| 2. KNOWLEDGE OF AVULSION AND ITS EMERGENCY MANAGEMENT AMONG PARENTS AND CARETAKERS, SCHOOL TEACHERS AND PEDIATRICIANS OF JAMSHEDPUR CITY : A PREVALENCE STUDY             | 2023-26 | DR. RANGANA DAS  |
| 3. COMPARISON OF ANTICARIOGENIC POTENTIAL OF NOVEL VITAMIN C AND FLUORIDE MOUTHWASH IN REDUCING                                                                           | 2023-26 | DR. IPSITA GHOSH |

  
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| 7. Salivary Alpha Amylase as a Noninvasive Biomarker for Dental Fear and Its Correlation with Behavior of Children during Dental Treatment                                                                                  | 2024-27 | DR. RIYA                                            |
| 8. IN VIVO COMPARISON OF EFFICACY OF HERBAL (POMEGRANATE PEEL EXTRACT), NATURAL (COCONUT OIL) AND CONVENTIONAL (CHLORHEXIDINE) MOUTH RINSES ON SALIVARY STREPTOCOCCUS MUTANS AND PH IN CHILDREN (7-12 YEARS) IN JAMSHEDPUR. | 2024-27 | DR.<br>NAYANIKA<br>PODDAR                           |
| 9. Evaluation of Interproximal Contact Areas As A Risk Factor For Caries in Children.                                                                                                                                       | 2024-27 | DR.<br>ARGHADEEP<br>DEY                             |
| 10. Comparative evaluation of the effect of regular cow milk and A2 milk incorporated with Bournvita on the microhardness of human enamel surface- an invitro study.                                                        | 2024-27 | DR. SAKSHI<br>SARAF                                 |
| 11. Herbal Mouthwash.                                                                                                                                                                                                       | 2023-26 | DR. SHATABDI<br>CHOUHDURY<br><br>DR. UJJAYAN<br>DAS |
| 12. Customized Portable Sterilizer.                                                                                                                                                                                         | 2024-27 | DR.<br>ARGHADEEP<br>DEY                             |

  
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| STREPTOCOCCUS<br>MUTANS COUNT IN<br>SALIVA IN CHILDREN<br>BETWEEN THE AGE OF 6-<br>12 YEARS IN<br>JAMSHEDPUR CITY: AN<br>IN VIVO STUDY.                                                                                                                                                                                                        |         |                           |
| 4. COMPARATIVE<br>ANALYSIS OF<br>REMINERALIZING<br>EFFICACY OF CALCAREA<br>FLUORICA AND<br>NANOHYDROXYAPATITE<br>ON ARTIFICIALLY<br>DEVELOPED CARIOUS<br>LESION USING<br>SCANNING ELECTRON<br>MICROSCOPE IMAGING<br>AND ENERGY-<br>DISPERSIVE<br>ANALYTICAL X- RAY<br>ELEMENT ANALYSIS : AN<br>IN VITRO STUDY                                  | 2023-26 | DR. SHATABDI<br>CHOUDHURY |
| 5. A TWO YEAR<br>EVALUATION OF<br>CLINICAL DURABILITY<br>AND SURVIVAL RATE ,<br>WITH PARTICULAR<br>REFERENCE TO<br>RESTORATION<br>MARGINAL WEAR , OF<br>THREE HYBRID TOOTH-<br>COLOURED RESIN -<br>BASED RESTORATIVE<br>SYSTEMS ' MIRACLE MIX<br>, FUZI IILC,VITREMER ' IN<br>BOTH PRIMARY AND<br>EARLY MIXED<br>DENTITION :AN INVIVO<br>STUDY | 2023-26 | DR. KANTA<br>SAHA         |
| 6. Clinical and<br>Radiographic Evaluation<br>of Biodentine and e-<br>MTA Putty in<br>Apexification of Non-<br>Vital Immature Young<br>Permanent Tooth.                                                                                                                                                                                        | 2024-27 | DR.<br>ARKANWITA<br>GHOSH |

  
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|                                                                           |         | DR<br>ARKANWITA<br>GHOSH                      |
| 13. Herbal Irrigating<br>Solution in Paediatric<br>Dentistry.             | 2023-26 | DR. IPSITA<br>GHOSH<br><br>DR. RANGANA<br>DAS |
| 14. ANIMAL-SHAPED<br>PEDIATRIC BITE<br>BLOCK FOR<br>BEHAVIOR<br>MANAGEMNT | 2025    | DR.<br>SARMESHTA<br>SONI                      |
| 15. UV BOX FOR<br>COMPLETE DENTURE                                        | 2025    | DR. POOJA<br>PANI                             |

|                                                                                                                                                                |               |                  |
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| 16. Association of<br>dentoalveolar<br>trauma with<br>maxillary<br>prognathism<br>among school<br>going children (<br>7-12) years old<br>in jamshedpur<br>city | 2025-<br>2028 | Dr.<br>Nibedita  |
| 17. Prevalence of ECC<br>in preschool children                                                                                                                 | 2025-<br>2028 | Dr.<br>Aparajita |
| 18. Comparison of<br>change of pH in<br>the oral cavity<br>of children after<br>drinking milk<br>with two<br>commonly used<br>health<br>suppliments            | 2025-<br>2028 | Dr.Kasturi       |

  
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| 19.Evaluation of root canal morphology in primary molars using CBCT                 | 2025-2028 | Dr. Tuli     |
| 20.Role of sugary diet on oral microbial load                                       | 2025-2028 | Dr. Pushpita |
| 21. Effect of different finishing and polishing techniques on restorative materials | 2025-2028 | Dr. Surabhi  |



YOURS SINCERELY ,

DR. SARMESHTA SONI

PROFESSOR AND HOD

DEPT. OF PEDODNTICS AND PREVENTIVE DENTISTRY

**Dr. SARMESHTA SONI**  
Professor and Head  
Dept. of Pediatric & Preventive Dentistry  
Awadh Dental College & Hospital  
Jamshedpur



**Principal**  
Awadh Dental College & Hospital

DR. PADMA R.

PRINCIPAL & PROFESSOR

DEPT. OF PERIODONTICS

# Dept. of PROSTHODONTICS & CROWN & BRIDGE.

## RESEARCH ACTIVITY

YEAR- 2023-2026

| SL NO | NAME                   | RESEARCH TOPIC                                                                                                                                                                                                             |
|-------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | Dr. ROMIT GHOSH        | AN IN-VIVO ASSESMENT OF MICROBIAL GROWTH AND SALIVARY pH PATIENT WEARING FIXED PARTIAL DENTURE OVER A SECTION OF POPULATION IN JHARKHAND.                                                                                  |
| 2     | Dr. SATIRTHA BARMAN    | AN IN-VITRO STUDY TO EVALUATE THE EFFECTS OF CHEMICAL SURFACE TREATMENTS OF GLASS FIBRE POSTS ON THE RETENTION OF A DIRECT CORE BUILD UP MATERIAL AND TO ANALYSE THE CONDITIONED SURFACES BY SCANNING ELECTRON MICROSCOPE. |
| 3     | Dr. KAUSTAV CHATTERJEE | COMPARATIVE EVALUATION OF SPEECH INTELLIGIBILITY IN COMPLETELY EDENTULOUS PATIENT IN A SECTION OF POPULATION OF JHARKHAND -AN IN-VIVO STUDY.                                                                               |
| 4     | Dr. INTASUM YESMIN     | A COMPARATIVE STUDY OF CONVENTIONAL ,HIGH IMPACT AND ZIRCONIA REINFORCED ACRYLIC RESINS FOR ASSESSING FRACTURE TOUGHNESS AND TRANSVERSE STRENGTH: AN IN-VITRO STUDY.                                                       |
| 5.    | Dr. AVIJIT JENA        | COMPARISON OF THE EFFECT OF IMPLANT ABUTMENT HEIGHT AND SURFACE MODIFICATION ON RETENTION OF IMPLANT SUPPORTED RESTORATION WITH RESIN BASED CEMENT: AN IN-VITRO STUDY.                                                     |



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**RESEARCH ACTIVITY****YEAR- 2024-2027**

| SL NO | NAME                  | RESEARCH TOPIC                                                                                                                                                            |
|-------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | Dr. DEBJYOTI DAS      | COMPARATIVE OF FRACTURE RESISTANCE AND MARGINAL ADAPTATION IN CONVENTIONAL CAST METAL CROWN,DMLS FABRICATED METAL CROWN,AND MONOLITHIC ZIRCONIA CROWN: AN IN-VITRO STUDY. |
| 2     | Dr. EKTA RANI         | EVALUATION OF WEAR RESISTANCE WITH FOUR DIFFERENT PROVISIONAL RESTORATIVE MATERIALS FABRICATED CONVENTIONALLY AND DIGITALLY: AN IN-VITRO STUDY.                           |
| 3     | Dr. HIMANI NANDA      | EFFECT OF PLATFORM SWITCHING WITH IMPLANTS OF VARYING DIAMETERS AND LENGTHS ON PERI-IMPLANT STRESS DISTRIBUTION:-A FINITE ELEMENT ANALYSIS.                               |
| 4     | Dr. STUTI DAS         | COMPARATIVE EVALUATION OF THE STRESS ANALYSIS OF MANDIBULAR IMPLANT SUPPORTED OVERDENTURE WITH TWO AND FOUR LOCATOR ATTACHMENTS: A FINITE ELEMENT ANALYSIS.               |
| 5     | Dr. VAIBHAV CHAUDHARY | COMPARISON OF THE MARGINAL AND INTERNAL FIT OF METAL COPINGS CAST FROM WAX PATTERNS FABRICATED BY CAD/CAM & CONVENTIONAL WAX-UP TECHNIQUES- AN IN-VITRO STUDY.            |



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**RESEARCH ACTIVITY****YEAR- 2025-2028**

| SL NO | NAME                   | RESEARCH TOPIC                                                                                                                                                                     |
|-------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | Dr. ANIRBAN CHIRAN     | FIT OF COBALT-CHROMIUM COPINGS FABRICATED USING LASER SINTERED AND CONVENTIONAL CASTING TECHNIQUES – AN IN VITRO STUDY                                                             |
| 2     | Dr. ARKENDU CHATTERJEE | A COMPARATIVE EVALUATION OF LOADING MODE ON ALL-CERAMIC FIXED PARTIAL DENTURE WITH VARIOUS CONNECTOR DESIGNS – A 3-DIMENSIONAL FINITE ELEMENT ANALYSIS                             |
| 3     | Dr. MOHAMMED WASIF     | A COMPARATIVE EVALUATION OF THE EFFECTIVENESS OF MECHANICAL, CHEMICAL AND PLANT BASED DISINFECTION METHODS ON CONVENTIONAL HEAT CURED ACRYLIC RESIN : AN IN-VITRO STUDY            |
| 4     | Dr. OLIVIA RAHMAN      | EFFECT OF DENTURE CLEANSERS ON SURFACE HARDNESS OF DENTURE LINERS AT VARIOUS TIME INTERVALS – AN IN VITRO STUDY                                                                    |
| 5     | Dr. PINAK DAS          | EVALUATION OF FRACTURE RESISTANCE OF MONOLITHIC ZIRCONIA CROWN WITH DIFFERENT OCCLUSAL THICKNESS: AN IN-VITRO STUDY                                                                |
| 6     | Dr. SOUVIK MOYRA       | THE INFLUENCE OF IMPLANT DIMAETER AND LENGTH ON STRESS DISTRIBUTION IN OSSEOINTEGRATED IMPLANTS WITH STRAIGHT AND ANGULATED ABUTMENTS: A THREE-DIMENSIONAL FINITE ELEMENT ANALYSIS |



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### Research Activities

#### Department of Oral and Maxillofacial Pathology and Oral Microbiology

##### **Batch 2023-2026**

| NAME               | TOPIC                                                                                                                                                                  |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DR. ATIN MAITI     | TO CORRELATE BETWEEN VASCULARITY IN DIFFERENT STAGES OF ORAL SUBMUCOUS FIBROSIS WITH A POSSIBLE ROLE IN MALIGNISATION                                                  |
| DR. PRASHANT KUMAR | ASSESSMENT OF DENTAL MORPHOMETRICS FOR DETERMINING GENDER AND ETHNIC DIFFERENCES – A FORENSIC ANTHROPOLOGICAL STUDY                                                    |
| DR. RASHMI RANI    | DERMATOGLYPHIC INTERPRETATION OF DENTAL CARIES AND ITS CORRELATION WITH SALIVARY LEVEL OF STREPTOCOCCUS MUTANS IN YOUNG ADULTS OF EAST SINGHBHUM DISTRICT OF JHARKHAND |
| DR. KOUSIK PATRA   | CYTOMORPHOLOGIC ANALYSIS OF PAP AND PAS STAINED CYTOLOGICAL SMEARS FROM BUCCAL MUCOSA IN ADULT EAST SINGHBHUM DIABETIC PATIENTS COMPARED TO HEALTHY CONTROLS.          |
| DR. SAMEENA RIZVI  | COMPARISON OF VISCOSITY OF SALIVA, PH VALUE OF SALIVA AND SALIVARY FLOW RATE IN SMOKERS AND NON SMOKERS WITH TYPE 2 DIABETES MELLITUS                                  |

##### **Batch 2024-2027**

| NAME               | TOPIC                                                                                                                                            |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| DR. MADHUJA GHOSAL | IDENTIFICATION AND COMPARISON OF ORAL CANDIDAL SPECIES IN PATIENTS OF ORAL SQUAMOUS CELL CARCINOMA AND ORAL POTENTIALLY MALIGNANT DISORDERS      |
| DR. SMRITI SARKAR  | CARIES RISK ASSESSMENT AND DETECTION OF STREPTOCOCCUS MUTANS COUNT IN PLAQUE AND SALIVA USING MUTANS-SANGUIS AGAR                                |
| DR. VINOD KUMAR    | MITOCHONDRIAL DNA COPY NUMBER AS A PROGNOSTIC MARKER IN SQUAMOUS CELL CARCINOMA                                                                  |
| DR. RESHMI PAUL    | ROLE OF TISSUE-LEVEL BIOMARKERS B1 INTEGRIN, KI-67, AND ANP63A IN MALIGNANT TRANSFORMATION OF ORAL SUBMUCOUS FIBROSIS TO SQUAMOUS CELL CARCINOMA |
| DR. SNEHENI DEY    | COMPARATIVE ANALYSIS OF SERUM AND SALIVARY IGA IN RECURRENT APHTHOUS STOMATITIS                                                                  |

##### **Batch 2025-2028**

| NAME                | TOPIC                                                                                                                                                         |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DR. ANIRUDDHA SAHOO | EVALUATION OF SERUM AND SALIVARY SIALIC ACID AND TOTAL PROTEIN IN ORAL POTENTIALLY MALIGNANT DISORDERS AND ORAL SQUAMOUS CELL CARCINOMA : A COMPARATIVE STUDY |
| DR. APARNA SAMANTA  | RELATIONSHIP OF ALTERED SERUM VITAMIN B 12 LEVELS WITH RECURRENT APHTHOUS STOMATITIS AND ASSESSMENT OF ITS IMPACT ON PATIENTS QUALITY OF LIFE                 |
| DR. DIPANWITA DAS   | CORRELATION AND COMPARISON OF PALATAL RUGAE PATTERN AND CHEILOSCOPY WITH BLOOD GROUPS IN EAST SINGHBHUM POPULATION                                            |

  
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|-----------------------|----------------------------------------------------------------------------------------------------------------------------|
| DR. SAMRAT CHATTERJEE | ROLE OF VARIOUS HORMONES RELATED TO PYOGENIC GRANULOMA IN MALE AND FEMALES: A COMPARATIVE STUDY                            |
| DR. MAHADEO KUMAR     | COMPARATIVE EVALUATION OF CLEARING ABILITY AND BIO-FRIENDLY NATURE OF CARROT OIL, OLIVE OIL, PINE OIL, ROSE OIL AND XYLENE |

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# **AWADH DENTAL COLLEGE AND HOSPITAL**

## **DEPARTMENT OF PERIODONTOLOGY**

### **RESEARCH ACTIVITIES:**

#### **2023-2026:**

**Dr. Deepayan Banerjee** – Comparison of the efficacy of papilla preservation flap with or without bone graft in anterior maxillary intrabony defects.

**Dr. Nilanjana Mustafi** – Effects of intermittent fasting in periodontal inflammation in healthy, obese and diabetic patients.

**Dr. Indibor Choudhury**– Comparative evaluation of bite force produced by implant and contralateral natural tooth: a CBCT Study.

**Dr. Syed Shah Alam** – Comparative Study Of local versus systemic antimicrobials on leukocyte and Platelet- Rich fibrin; In Vitro.

**Dr. Rajesh Maity** – Is dietary melatonin supplementation a viable adjunctive therapy for chronic periodontitis?- A randomized controlled clinical trial

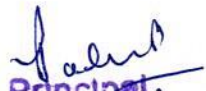
#### **2024-2027:**

**Dr. Abhishek Dasgupta** – Compaction autografting vs Conventional drilling: A clinical comparison of bone density changes in relation to cortico-cancellous thickness.

**Dr. Arkadeep De** – Evaluating Socket Shield Technique in contrast to conventional immediate implant placement: A clinico-radiographic study.

**Dr. Rohit Kumar Shaw** – The effect of non-thermal atmospheric pressure plasma application on wound healing after gingivectomy.

**Dr. Sujay Mallik** – Evaluation of efficiency of collagen sponge in palatal donor site to increase the thickness of its fibromucosa – a clinical and histological study.

  
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**Dr. Sunidhi Singh** – Evaluation of the antibacterial and wound healing efficacy of Aloe vera-coated 3-0 silk sutures in comparison to uncoated 3-0 silk sutures following flap surgery – A randomized clinical trial.

## **2025-2028:**

**Dr. Arnami Roy Choudhury** – A Comparative Clinical and Radiographic Assessment of Vitamin D (Calcitriol) Biofunctionalized Implants and Conventional Implants: A Novel Approach.

**Dr. Avik Barman** – The Efficacy of Combined IGF-1 and Bioactive Glass Therapy in the Treatment of Class II Furcation Defects: A Randomized Controlled Trial.

**Dr. Debarati Mallick** – Comparative evaluation of PRF alone vs PRF combined with Vitamin C in Periodontal Flap Surgery.

**Dr. Debmalya Debnath** – Conserving Crestal Bone using Papilla Preservation Flap Design in Single Tooth Platform Switch Implants – A Six Month Follow-Up Study.

**Dr. Soumya Kanti Bose** – Comparative evaluation of 1% Metformin Gel as an Adjunct to  $\beta$ -TCP Bone Graft vs  $\beta$ -TCP Bone Graft alone in Treatment of Periodontal Infrabony Defects.

  
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# DEPARTMENT OF CONSERVATIVE DENTISTRY AND ENDODONTICS

## LIST OF RESEARCH TOPICS

**SESSION(2025-2028)**

| NAME OF STUDENTS                                                                                          | TOPIC                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dr.Michael subal pramanik                                                                                 | Static Guided Endodontics Versus Conventional Access Cavity Preparation of Mandibular Incisors: An in vivo comparative split-mouth study of substrate loss                                       |
| Dr. Avishek Chanda                                                                                        | COMPARATIVE EVALUATION OF MECHANICAL PROPERTIES BETWEEN NANOHYDROXYAPATITE INCORPORATED IN CERAMIC-REINFORCED GIC AND GLASS HYBRID IONOMER CEMENT: AN IN-VITRO STUDY                             |
| Dr. Avritti Sarkar                                                                                        | Evaluation of Tooth Survival and Dentin Integrity Following Use of Novel Nano-Based Intracanal Medicaments: An in-vitro study                                                                    |
| Dr.Shreya Verma                                                                                           | A Comparative Evaluation Of Sodium Hypochlorite Gel Penetration Using Diode Laser And Passive Ultrasonic Activation After Apicoectomy: An In Vitro Study With Confocal Laser Scanning Microscopy |
| Dr.Banerjee sourav<br> | COMPARING THE INCIDENCE OF FILE SEPARATION IN SHAPING THE ENDODONTIC ROOT CANAL WITH CROWN DOWN AND A NEW NOVEL TECHNIQUE USING THREE ROTARY FILE SYSTEMS - AN IN VITRO STUDY                    |

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| Dr.Pritam mitra | COMPARATIVE VOLUMETRIC IN VITRO ANALYSIS FOR REMOVAL OF SILICONE OIL-BASED CALCIUM HYDROXIDE FROM ROOT CANAL SYSTEM BY 10% CITRIC ACID, 7% MALEIC ACID AND 70% ETHANOL WITH PASSIVE ULTRASONIC IRRIGATION |
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### SESSION(2024-2027)

| NAME OF STUDENTS       | TOPIC                                                                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dr. Soham Mallik       | A COMPARATIVE ANALYSIS OF THE FRACTURE OF MANDIBULAR PREMOLAR TOOTH AFTER USING NOVEL FILE SYSTEMS FOR BIOMECHANICAL PREPARATION OF THE ROOT CANALS:AN IN-VITRO STUDY |
| Dr. Sarabita Chowdhury | AN IN VITRO STUDY: INFLUENCE OF LOAD CAPACITY ON ENDODONTICALLY TREATED TEETH WITH MINIMALLY INVASIVE ACCESS PREPARATION AND DIFFERENT RESTORATIVE MATERIAL.          |
| Dr. Reshmi Singh       | COMPARATIVE EVALUATION OF DISINFECTION TECHNIQUE ON THE PUSH-OUT BOND STRENGTH OF NISHIKA CANAL SEALER EMPLOYED AS ROOT CANAL APICAL PLUG: AN IN VITRO STUDY          |
| Dr. Harsha             | EFFECT OF THE EFFECT 5% NAOCL AND 17% EDTA,AT 24HRS AND 8DAYS ,ON THE MICROHARDNESS OF MTA,BIODENTINE AND BIO-C REPAIR -AN IN VITRO STUDY                             |
| Dr. Anyesha Tripathy   | THE EFFECT OF IMMEDIATE DENTIN SEALING ON THE BOND STRENGTH OF RESIN OF RESIN COMPOSITE TO DENTINE BONDED WITH UNIVERSAL BONDING AGENT AN IN VITRO STUDY              |



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### SESSION(2023-2026)

| NAME OF STUDENTS      | TOPIC                                                                                                                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dr. Sinthia De        | Comparative evaluation of effect of intra orifice barriers and bleaching agents on the fracture resistance of endodontically treated maxillary first premolars :an in vitro study          |
| Dr. Puja kalyan       | The Impact of hot and cold beverages on the flexural strength of compomer and giomer:an in vitro study                                                                                     |
| Dr. Khushbu Mehrotra  | Comparative evaluation of postoperative pain following irrigation with EDTA versus Etidronic Acid;A Randomized controlled clinical trial                                                   |
| Dr. Somnath Mukherjee | THE EFFECTIVENESS OF LINING MATERIALS IN REDUCING MICROLEAKAGE IN CLASS II COMPOSITE RESIN RESTORATIONS USING THE SANDWICH TECHNIQUE: A STEREOMICROSCOPIC INVESTIGATION: AN IN-VITRO STUDY |
| Dr. Oindrilla Sarkar  | Comparative evaluation of peracetic acid & chlorhexidine as final irrigant on the push out bond strength of different sealers:- an in vitro study                                          |



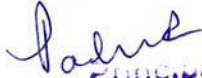
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## DEPARTMENT OF ORAL MEDICINE AND RADIOLOGY

### LIST OF RESAERCH TOPICS

SESSION: 2025-2028

|    | Name of Students                 | Research Topic                                                                                                                                          |
|----|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | <b>Dr. Mohd. Mubashshir Alam</b> | Evaluation of prevalence and risk factors for oral potentially malignant disorders in Jamshedpur population : A cross sectional study                   |
| 2. | <b>Dr. Sushiksha Shwetam</b>     | Forensic evaluation of tongue morphology (glossology) for human identification: a cross-sectional study                                                 |
| 3. | <b>Dr. Nairik roy</b>            | Evaluation of Relationship of Maxillary 1st molar roots with the floor of maxillary sinus in cone beam computed tomography view: A retrospective Study. |

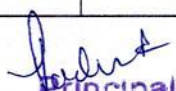
  
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# RESEARCH ACTIVITIES

Dept. Of Orthodontics and Dentofacial Orthopaedics,  
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| TOPICS                                                                                                                                                      | BATCH   | NAME                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------|
| Comparative evaluation of beta angle, yon angle, w Angle & sar angle to assess sagittal skeletal jaw Discrepancies – a cephalometric study                  | 2022-25 | <b>Dr. Sanghita De</b>       |
| Comparative evaluation of shear bond strength of new and re-bonded metal orthodontic brackets using conventional methods-An in-vitro study.                 | 2022-25 | <b>Dr. Nikita Pal</b>        |
| Assessment of surface characteristics and fracture resistance of new and retrieved micro implants – An in vitro comparative study.                          | 2022-25 | <b>Dr. Rikta Mishra</b>      |
| To compare and evaluate the effect of Correlation between mini screw stability & bone density in orthodontic patients                                       | 2022-25 | <b>Dr. Jugal Burela</b>      |
| To compare and evaluate the effect of Premolar extraction on vermilion border and lip area in bimaxillary protrusion and Crowding cases– photographic study | 2022-25 | <b>Dr. Chandrima Goswami</b> |

  
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| CBCT evaluation of root resorption during retraction with NiTi coil spring and active tiebacks using microosteoperforation:A comparative study.                                                  | 2023-26 | <b>Dr. Arpan Kumar Das</b> |
| A comparative study of change in optical properties of clear aligners when subjected to different cuisines - An in vitro study                                                                   | 2023-26 | <b>Dr. Yeptasam Yasmin</b> |
| Assessment of round and rectangular copper niti archwires in leveling the curve of spee-An Invitro study                                                                                         | 2023-26 | <b>Dr. Ankit tibrewal</b>  |
| Establishment of Cephalometric norms for local population of Jharkhand using Steiner's Analysis                                                                                                  | 2023-26 | <b>Dr. Ritik Roshan</b>    |
| A comparative analysis of surface characteristics and bacterial adhesion on esthetics arch wires(Ceramic coated arch wires,Epoxy coated arch wires,Rhodium coated arch wires)-An in vitro study. | 2023-26 | <b>Dr. Anirban De</b>      |
| Comparative evaluation of shear bond strength of ceramic SLB & metal SLB bonded to different types of crowns with and without silane coupling agent.-An in-vitro study                           | 2024-27 | <b>Dr Shivangi Sinha</b>   |

  
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| Morphological variation and fracture resistance of retrieved Stainless steel Vs titanium alloy mini implant with same diameter - An in-vitro study    | 2024-27 | <b>Dr. Saheb Seth</b>        |
| Effect of two different penetration depths of micro osteoperforation on the rate of en-masse retraction.<br>A split-mouth randomized controlled trial | 2024-27 | <b>Dr Shreya Samanta</b>     |
| Soft tissue cephalometric norms of the facial region in the ethnic group of Jharkhand population -arnett n holdaway analysis                          | 2024-27 | <b>Dr. Sabnam Kumari Rai</b> |
| Frictional forces on teflon coated wire in different types of SLB - An in-vitro study                                                                 | 2024-27 | <b>Dr. Arunava Roy</b>       |
| To Compare and assess various cephalometric parameters for determining vertical skeletal dysplasia in jharkhand population                            | 2025-28 | <b>Dr.Saima Parween</b>      |
| Evaluation of the effect of low level laser therapy on the rate of single canine retraction at different time intervals                               | 2025-28 | <b>Dr.Sushmita</b>           |
| Comparative assessment of articular tubercle bone adaptation in subjects between mesofacial and dolichofacial morphology -an invitro study            | 2025-28 | <b>Dr.Shruti</b>             |
| Effect of Cleansers of chemical composition and mechanical properties of orthodontic aligners- An Invitro study                                       | 2025-28 | <b>Dr.Shashank</b>           |
| Comparison of archwidth,alveolar width and buccolingual inclination of teeth between Class II div 1 and Class III malocclusion                        | 2025-28 | <b>Dr.Diksha</b>             |

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| Perception of smile attractiveness among laypeople and orthodontist regarding the buccal corridor and tooth size-an invitro study | 2025-28 | Dr.Barnali |
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**DEPARTMENT OF OMFS (BATCH 2023-2026)**  
**AWADH DENTAL COLLEGE & HOSPITAL, JAMSHEDPUR**

| SL NO. | NAME OF PGT 3RD YEAR | THESIS                                                                                                                                                                                                                    |
|--------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | DR ABHISHEK MISHRA   | DETERMINATION & MANAGEMENT OF LINGUAL SPLAYING OF MANDIBLE WHILE DOING BUCCAL PLATING OF SYMPHYSIS & PARASYMPHYSIS FRACTURE REGION                                                                                        |
| 2      | DR ARPA CHATTERJEE   | TO COMPARE THE EFFICACY OF CHLORHEXIDINE & POVIONE IODINE IN THE TREATMENT OF ORAL WOUNDS AT DIFFERENT TIME INTERVALS.                                                                                                    |
| 3      | DR MD AKBAR ALI      | A RANDOMIZED PROSPECTIVE CLINICAL STUDY TO EVALUATE THE EFFICACY OF TRANSDERMAL PATCH OF BUPRENORPHINE, PATCH OF DICLOFENAC SODIUM AND TABLET OF DICLOFENAC SODIUM IN SURGICAL REMOVAL OF IMPACTED MANDIBULAR THIRD MOLAR |
| 4      | DR PRIYANKA KUMARI   | A PROSPECTIVE COMPARATIVE STUDY TO EVALUATE SURGICAL OUTCOME OF IMPACTED MANDIBULAR THIRD MOLAR REMOVAL USING PHYSIODISPENSER VS CONVENTIONAL ROTARY HANDPIECE                                                            |
| 5      | DR SOUMYAJIT BANGAL  | TO EVALUATE THE BENEFITS OF CLOSED REDUCTION OVER OPEN REDUCTION OF MANDIBULAR CONDYLAR FRACTURE USING HYPOMOCHLION: A PROSPECTIVE STUDY                                                                                  |



**DEPARTMENT OF OMFS (BATCH 2024-2027)**  
**AWADH DENTAL COLLEGE & HOSPITAL,**  
**JAMSHEDPUR**

| SL NO | NAME OF PGT 2ND YEAR | THESIS                                                                                                                                                                    |
|-------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | DR DAUD DEBBARMA     | EFFICACY OF INTRAORAL HYALURONIC ACID INJECTION ON SWELLING, PAIN AND TRISMUS AFTER SURGICAL EXTRACTION OF IMPACTED MANDIBULAR THIRD MOLAR- A RANDOMIZED CONTROLLED TRIAL |
| 2     | DR KARUNA RAJ        | HEALING OF EXTRACTION SOCKET WITH OR WITHOUT GELATEMP AFTER IMPACTED THIRD MOLAR SURGERY: A PROSPECTIVE, COMPARATIVE RANDOMIZED, SPLIT MOUTH STUDY                        |
| 3     | DR MOUSAMI KUNDU     | THERAPEUTIC EFFICACY OF BROMELAIN, RUTOSIDE, TRYPSIN COMBINATION FOLLOWING THIRD MOLAR SURGERY: A PROSPECTIVE STUDY                                                       |
| 4     | DR RAJESH RAUSHAN    | EVALUATION OF IMPLANTS PLACED IMMEDIATELY OR DELAYED INTO EXTRACTION SITES                                                                                                |
| 5     | DR VATSALA PRASAD    | COMPARATIVE EVALUATION FOR EFICACY OF 2 LINEAR MINIPATE VS 3D MINIPATES FOR INTERNAL FIXATION OF PARASYMPHYSIS & SYMPHYSIS FRACTURE OF MANDIBLE                           |



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**DEPARTMENT OF OMFS (BATCH 2025-2028)**  
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| SL NO | NAME OF PGT<br>1ST YEAR   | THESIS                                                                                                                                                                                                    |
|-------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | DR ANIKET BOSE            | IMMEDIATE & DELAYED IMPANT IN POSTERIOR MANDIBULAR REGION                                                                                                                                                 |
| 2     | DR MD IRFAN TARIF MISTRY  | PAIN CONTROLWITH KETOROLAC VS IBUPROFEN AFTER WISDOM TOOTH EXTRACTION                                                                                                                                     |
| 3     | DR MAYUKH GHOSH           | DEXAMETHASONE LOADED TITANIUM PLATELET RICH FIBRIN VS TITANIUM PLATELET RICH FIBRIN ALONE FOR POST OPERATIVE SEQUELAE FOLLOWING MANDIBULAR THIRD MOLAR SURGERY- A DOUBLE BLINDED RANDOMISED CONTROL TRIAL |
| 4     | DR NEIOSHREE SAIKIA       | DIAGNOSTIC ACCURACY OF CONE BEAM COMPUTED TOMOGRAPHY WITH PANORAMIC RADIOGRAPHY IN DETERMINING THE POSITION OF IMPACTED MANDIBULAR THIRD MOLAR IN RELATION TO MANDIBULAR CANAL                            |
| 5     | DR SAGNIK DAS             | COMPARISON BETWEEN PHYSICS FORECEPS AND PERIOTOME IN NON SURGICAL EXTRACTION OF SINGLE ROOTED MAXILLARY AND MANDIBULAR TEETH A DOUBLE BLINDED RANDOMISED CONTROL TRIAL                                    |
| 6     | DR QUAZI MUDASSAR HUSSAIN | A COMPARATIVE STUDY FOR EFFECTIVENESS OF 2.0 MM CONVENTIONAL MINIPLATES COMPARED TO 2.0 MM LOCKING MINIPLATES IN MANAGEMENT OF MANDIBULAR FRACTURE                                                        |



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