

Maharashtra University of Health Sciences, Nashik

List of Approved Title of Dissertation for Academic Year 2010-11 under the Faculty of Dentistry (Post Graduate)

| Sr. No. | Approved Title of Dissertation |
|--|--|
| Oral Pathology & Microbiology | |
| 1 | Quantitative estimation of salivary total protein and evaluation of Candidal status in Diabetes Mellitus. |
| 2 | A comparative study of influence of inflammation and collagen deposition in cystic wall of infected and non-infected Odontogenic Keratocyst (OKC) using Picrosirius Red and Polarizing microscopy. |
| 3 | Quantification of oral candidial carriage rate and prevalence of oral candidial species in HIV patients with and without HAART. |
| 4 | A comparative study of serum Cyfra 21-1 levels in oral squamous cell carcinoma patients and its clinicopathologic correlation. |
| 5 | A comparative study of micronucleus cell count in exfoliated oral epithelial cells of oral submucous fibrosis & its clinico-pathologic correlation. |
| 6 | A comparative evaluation of oratest with salivary streptococcus mutans count as a method for assessing dental caries activity among 6 to 12 years old school children. |
| 7 | Double blind comparative study to determine the effectiveness of curcumin in oral submucous fibrosis and oral lichen planus. |
| 8 | Study of genetic prediposition in oral cancer and precancer patients by dermatoglyphic analysis. |
| 9 | Comparative study of oral mucosal micronuclei frequency in normal, oral submucous fibrosis and malignant epithelium using PAP and MGG stains. |
| 10 | Comparative evaluation of collagen fibers in oral submucous fibrosis under polarizing microscopy - A clinicopathologic study. |
| 11 | Determination of ABO blood group from pulp tissue of extracted teeth at different time period- A forensic odontology study. |
| 12 | To assess osteopontin (OPN) expression in different grades of oral submucous fibrosis (OSFM). |
| 13 | Immunohistochemical evaluation of p73 marker in odontogenic cysts. |

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| Sr.No. | Approved Title of Dissertation |
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| Prosthodontics & Crown & Bridge | |
| 1 | A comparative evaluation of microleakage in three different luting agents used for posterior full metal crowns- An in vitro study. |
| 2 | A comparative evaluation of marginal accuracy of cast restorations by ringless and metal ring investment system: An in vitro study. |
| 3 | An in- vitro evaluation of the effect of different surface treatment on shear bond strength of silicon based soft liners to a denture base resin. |
| 4 | An in vitro evaluation of the effect of different surface treatment on the shear bond strength of a resin cement with Ni-Cr alloy. |
| 5 | Dimensional accuracy of resultant casts made by one stage and two stage putty wash impression technique, an in vitro study. |
| 6 | Evaluation of the effect of various Silane systems on the bond strength between dental ceramic and resin cements (An in-vitro study). |
| 7 | Influence of different ceramic systems on the polymerization of dual- cured resin cement, evaluated immediately and after 24 hours- An in- vitro study. |
| 8 | Comparison of the Veneering ceramic- zirconia bond strength, following different surface treatments of the zirconia core: An in-vitro study. |
| 9 | Evaluation and comparison of the effect of three different finish line designs on the marginal discrepancy of Zirconia copings- An in vitro study. |
| 10 | A comparative evaluation of teeth movement during processing of complete denture prosthesis in different palatal forms- An in vivo study. |
| 11 | Comparative evaluation of solubility of five commercially available Glass ionomer luting cements in dynamic artificial saliva- An in vitro study. |
| 12 | Comparative evaluation of dimensional accuracy of irreversible hydrocolloid impression material using four different types of tray with and without tray adhesive- An in vitro study. |
| 13 | The effect of storage time and framework design of wax pattern on the accuracy of fit of cast partial denture frameworks - An in vitro study. |
| 14 | Evaluation of treatment outcomes for immediate loading one stage over denture implants retained by two different attachment system in rehabilitation of mandibular ridges, An in vivo study. |
| 15 | Dimensional accuracy and surface detail reproduction of two hydrophilic vinyl polysiloxane impression materials tested under dry, moist and wet conditions- An in vitro study. |
| 16 | The evaluation of bond strength of different resilient liners to denture base resin following denture base resin surface pre-treatments- An in vitro study. |

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| Sr.No. | Approved Title of Dissertation |
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| Orthodontics & Dentofacial Orthopaedics | |
| 1 | Measure, compare and evaluate frictional resistance in sliding mechanics using different ligation methods with stainless steel brackets, active self ligating brackets & passive self ligating brackets- An in vitro study. |
| 2 | Measure, compare and evaluate the frictional resistance of pre-adjusted edgewise stainless steel brackets with active self-ligating brackets and passive self- ligating brackets using wires of different cross section and alloy- An in vitro study. |
| 3 | Pattern of stress distribution in the supporting periodontium around mandibular anterior teeth held together with different types of lingual bonded retainers- A finite element method study. |
| 4 | Comparison of etching pattern and shear bond strength of two different etching techniques for orthodontic bonding of molar tubes with and without enamel deproteinization with sodium hypochlorite- An in vitro SEM study. |
| 5 | Variants of cephalometric craniofacial features and facial photographic features in Indian parents and their offspring - An epidemiological study. |
| 6 | Evaluation of surface topography and frictional resistance of various orthodontic alloys and comparing it with surface topography and frictional resistance of orthodontic alloys coated with nanoparticles- An invitro study. |
| 7 | Effective EN-MASSE retraction design with orthodontic mini-implant anchorage : A finite element analysis. |
| 8 | Teeth calcification as a skeletal maturity indicator- A radiographic study |
| 9 | Assessment of skeletal maturation in monozygotic and dizygotic twins using serum IGF-1 and salivary IGF-1 (A longitudinal study) |
| 10 | Comparison of manual Vs computer assisted Cephalometric measurement in mixed Indian population. |
| 11 | The relationship between personality traits, pain perception and attitude towards orthodontic treatment in an urban Indian population. |
| 12 | Assessment of flexural and impact strength of autopolymerizing acrylic resin containing pigments glitters, novel design and combination of these- An in vitro study. |

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| Orthodontics & Dentofacial Orthopaedics | |
| 13 | An Ex vivo study of the effect of storage media on the shear bond strength of orthodontic brackets. |
| 14 | To compare BETA angle & YEN angle for determining sagittal discrepancy- A Cephalometric study. |
| 15 | Clinical comparison of a low friction attachment device with conventional elastomeric ligature during levelling and alligning stage. |
| 16 | Determination of transverse maxillary deficiency in Class II & Class III Malocclusion by using posteroanterior cephalogram and study models. |
| 17 | A comparison of surface conditioning properties of normal and flavored etchants and its resultant effect on shear bond strength : An In-vitro study |
| 18 | A comparative evaluation of reliability of various anteroposterior skeletal parameters of some commonly used lateral cephalometric analysis in Navi Mumbai population. |
| 19 | Comparative assessment of efficacy of four different types of retraction loops using Beta Titanium arch wire: A Finite Element Study. |
| 20 | Estimation and comparison of Tip values of mandibular canines, premolars & molars with or without presence of third molars. |
| 21 | Effect of CPP-ACP paste and CPP-ACP with fluoride paste on the shear bond strength of the orthodontic brackets- An in vitro study. |
| 22 | Comparison of the shear bond strength of orthodontic brackets by using laser etching, etching with self etching primer (SEP) & conventional acid etching - An in vitro study. |
| 23 | The assessment of the enamel surface morphology to evaluate the effectiveness of three finishing and polishing system- An invitro study. |

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| Sr. No. | Approved Title of Dissertation |
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| Periodontology | |
| 1 | Comparative evaluation of blood parameters in chronic periodontitis patients and healthy patients for signs of anaemia in males and females- A clinical study. |
| 2 | To evaluate the relationship between periodontal status of the pregnant women with pre-term or low birth weight deliveries in Sangli district - A case control study. |
| 3 | Effect of non-surgical periodontal therapy on serum lipid and C- reactive protein levels : A clinico-biochemical study. |
| 4 | An assessment of the relationship between obesity and periodontitis an epidemiological study. |
| 5 | A clinical study to evaluate the effectiveness of sub epithelial connective tissue graft to reconstruct interdental papillae. |
| 6 | A comparative evaluation of the effect of smoking and tobacco chewing on periodontal disease and its response to non surgical treatment. |
| 7 | To evaluate the effect of platelet rich plasma in coronally advanced flap root coverage procedure. |
| 8 | A comparative evaluation of effects of chronic periodontitis and initial periodontal treatment on bite force- A clinical study. |
| 9 | Comparative evaluation of the efficacy of a herbal gel with chlorhexidine gel on the gingival status. A clinical study. |
| 10 | Quantitative estimation of serum albumin level to evaluate the relationship between periodontal disease and general health status. |
| 11 | A comparative evaluation of efficacy of three different mouthwashes as an adjunct to non-surgical periodontal therapy in the treatment of chronic periodontitis - A double blind clinical study. |
| 12 | Evaluation of the use of a diode laser as an adjunct to non-surgical & surgical debridement in the treatment of chronic periodontitis. |
| 13 | Comparative clinical and radiographic evaluation of the effect of porous hydroxyapatite (Alloplast) bone graft in two different particle sizes in the treatment of intrabony defects in chronic periodontitis patients. |

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| Periodontology | |
| 14 | Comparative evaluation of the effect of single-flap approach with buccal access and conventional - access flap in the treatment of intraosseous defects using bioactive glass putty graft (Alloplast) on soft tissue healing and bone fill in chronic periodontitis patients. |
| 15 | Prevalence and association of obesity and ABO blood groups in chronic periodontitis patients in Mumbai. |
| 16 | Assosiation between Vascular endothelial growth factor, periodontitis and diabetes: An immunohistochemical study. |
| 17 | Estimation of the levels of soluble intercellular cell adhesion molecules-1 (sicam-1) in gingival crevicular fluid from healthy and diseased periodontium. |

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| Oral Medicine & Radiology | |
| 1 | Comparative evaluation of short wave diathermy and conventional therapy in treatment of myogenous temporomandibular disorder. |
| 2 | Comparative study on efficacy of tissue autofluorescence (VELscope) and toluidine blue as screening method in oral cancer and pre-cancer lesions. |
| 3 | Evaluation of the role of CT scan in the diagnosis of maxillofacial trauma. |
| 4 | Fractal analysis of periapical reactive bone in response to root canal treatment. |
| 5 | To determine radiographic features of maxillary sinus in endo antral syndrome cases using 3-D imaging modality. |
| 6 | A comparative study of salivary dehydroepiandrosterone levels in patients with and without the complaint of burning mouth. |
| 7 | Radiographic survey of third molar development in relation to chronological age among Indian population. |
| 8 | Viability of human dental pulp in determination of sex of an individual by identifying SRY GENE through DNA analysis - A single blind study. |
| 9 | Establishing parameters in panoramic radiography for differentiation of radiolucent lesions. |
| 10 | Comparison of glucose levels between Gingival, Capillary and Venous Blood. |
| 11 | Estimation of stature from odontometry and cephalo-facial anthropometry. |
| 12 | Determination of sex using canine index. |
| 13 | Association of human Papilloma Virus 16/18 with precancerous lesions and oral cancer. |
| 14 | Detection of human papilloma 16/18 virus in saliva of oral precancerous and cancerous patients. |
| 15 | Pre evaluation dental implant site by CBCT. |

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| Oral Medicine & Radiology | |
| 16 | Individual identification using uniqueness of frontal sinus. |
| 17 | Evaluation of ponticulus posticus on digital lateral cephalogram in migraine patients and normal individuals -A comparative study. |
| 18 | The significance of Ag NOR count as tissue marker for evaluating malignant potential in patients with oral submucous fibrosis and leukoplakia :A clinico-histopathological study. |
| 19 | Evaluation of the efficacy of power Doppler ultrasonography in the diagnosis of cervical lymphadenopathy as compared to histopathological features. |

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| Paedodontics & Preventive Dentistry | |
| 1 | Prevalence of traumatic injuries to anterior teeth in 9-14 year old school going children in Mumbai. |
| 2 | An in vivo study of combined effects of Fluoride varnish and probiotics on salivary streptococcus mutans levels. |
| 3 | Prevalence of dental caries and dental anomalies in children undergoing chemotherapy for malignant diseases. |
| 4 | Evaluation and comparison of the longevity & failures of fiber posts with omega shaped stainless steel wire posts in primary maxillary anterior teeth - An in vivo study. |
| 5 | A comparative study of the remineralization potential of Beta-Tri calcium phosphate, caesin phospho peptide-amorphous calcium phosphate fluoride & novamin on previously demineralized teeth: An ESEM & EDS analysis, An in- vitro study. |
| 6 | An in vivo comparison of antibacterial efficacy of formocresol, calcium hydroxide and honey as root canal medicaments in pulpectomy for primary molars. |
| 7 | Evaluation flow rate pH & buffering capacity in caries free and severe early childhood caries children (S- ECC) aged 3-5 years. |

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| Sr.No. | Approved Title of Dissertation |
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| Conservative Dentistry & Endodontics | |
| 1 | An in vitro comparative evaluation of two different electronic Apex locators in determining working length in presence of irrigants (viz.2% Chlorhexidine & 5.25% Sodium hypochlorite) actually as an electrolytes. |
| 2 | Histopathological evaluation of pulpal response to cavity preparation using medium speed cutting tools, high speed cutting tools & ER:CR YSGG Laser. |
| 3 | An in vitro comparative evaluation of the incidence of apical transportation of root canals after placement and removal of calcium hydroxide. |
| 4 | An in vitro study to evaluate influence of final rinse technique on ability of Ethylenediamine tetra-acetic acid in removing smear layer. |
| 5 | An in vitro comparative short term study to determine the strength of root dentine with and without use of intracanal calcium hydroxide. |
| 6 | Comparative evaluation of effectiveness of multi-step and single - step polishing system on surface roughness of nano-composites- An in vitro study. |
| 7 | A microbial analysis of symptomatic & asymptomatic teeth with primary endodontic infections using polymerase chain reaction. |
| 8 | Root canal configuration and prevalence of C-shaped canals in permanent mandibular second molars in the population of western Maharashtra- An in vitro study. |
| 9 | Comparison of three bleaching agents using the laser activated in-office bleaching at different wavelengths- An in vitro study ESEM & colorimetric evaluation. |
| 10 | To study the effect of surface treatment on the tensile bond strength of glass fiber posts using silanization, air abrasion, hydrofluoric acid and ER:YAG laser : An in vitro study. |
| 11 | A comparative culture study for the bactericidal effect of Nd:YAG laser and two different wavelengths of diode laser when used in conjunction with three irrigating solutions - an in vitro study. |
| 12 | Evaluation of the effect of different surface treatments on the retention of glass fiber posts- An in vitro study. |

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| Conservative Dentistry & Endodontics | |
| 13 | Evaluation of apical sealing ability of endodontic sealers- An in vitro study. |
| 14 | Frequency of second mesiobuccal canal in permanent maxillary first molar as determined by surgical operating microscope- A clinical study. |
| 15 | A comparative evaluation of the effect of power bleaching on human enamel microhardness activated by two different light sources- An in vitro study. |
| 16 | Comparative analysis of fracture resistance of endodontically treated teeth restored with three post system to evaluate it's mode of fracture - An in vitro study. |
| 17 | To study and compare on radiovisiography the photographic transportation of curved canals during biomechanical preparation of teeth using chelating agent (EDTA) in paste or liquid form: An in vitro study. |
| 18 | Comparison of apical leakage between immediate versus delayed post space preparation: An in vitro study. |
| 19 | Comparative evaluation of shear bond strength of microfilled and nanofilled composite resin cured under light emitting diode (LED) : An in vitro study. |
| 20 | Assessment of sealing ability of Resilon-Epiphany obturation system after retreatment of root canal system by dye penetration: An in vitro study. |
| 21 | Comparison of shear bond strength of resin modified glass ionomer to conditioned and unconditioned mineral trioxide aggregate surface: An in Vitro study. |
| 22 | An evaluation and comparison of shear bond strength of three adhesive systems to enamel and dentin- An in vitro study. |
| 23 | Effect of application of different irrigation solutions, as a final irrigant on removal of intracanal smear layer - An in vitro SEM study. |

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