



MNR DENTAL COLLEGE AND HOSPITAL

“NAAC ACCREDITED”

(Recognized by MH&FW, Govt. of India & Affiliated to KNR University of Health Sciences)

MNR Nagar, Narsapur Road, Fasalwadi, Sangareddy 502294

**E COPIES OF GUIDESHIP LETTERS OF THE
SPECIFIED SCHOLARS AND GUIDES**

**KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES, WARANGAL,
TELANGANA.**





ANNEXURE-I

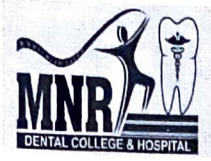
PROFORMA FOR REGISTRATION OF SUBJECT FOR DISSERTATION

1.	NAME OF THE CANDIDATE AND ADDRESS	DR. SHRUTI AGARWAL H-NO 7-1-215/A, FLAT NO 101, RAJ ROYAL MAJESTIC, DHARAM KARAM ROAD, BALKAMPET, HYDERABAD- 500016
2.	NAME OF THE INSTITUTION	MNR DENTAL COLLEGE & HOSPITAL, MNR HIGHER EDUCATIONAL CAMPUS, SANGAREDDY, MEDAK DISTRICT, TELANGANA - 502294
3.	COURSE OF THE STUDY AND SUBJECT	MASTER OF DENTAL SURGERY (M.D.S) CONSERVATIVE DENTISTRY AND ENDODONTICS
4.	DATE OF ADMISSION IN TO COURSE	3-11-2021
5.	TITLE OF THE TOPIC	INFLUENCE OF VARIABLE APICAL PREPARATION SIZE AND TAPER ON ROOT CANAL WALL CLEANLINESS AND IRRIGANT EXTRUSION-AN IN VITRO STUDY.
6.	BRIEF RESUME OF INTENDED WORK	Aim of the study: The aim of the present study is to evaluate the influence of variable apical size and taper on root canal cleanliness and apical extrusion of irrigant.

7.	INTRODUCTION	<p>Irrigation plays an important role during root canal treatment of the teeth. An irrigant helps to exclude the micro - organisms, other debris and unwanted content from the canal which if not removed can block the dentinal tubules and will prevent the intra canal medicament and the obturating material to fully penetrate the tubules and achieve good disinfection.</p> <p>Sodium hypochlorite is the main irrigating solution used to dissolve organic matter and kill microbes effectively.</p> <p>The long-term success of the root canal treatment depends on successful elimination of the smear layer because any remaining debris can lead to reinfection and necessitate a retreatment of the previously treated root canal teeth.</p> <p>However, NaOCl is tissue cytotoxic and accidental extrusion of NaOCl beyond the apical constriction can lead to possible complications like soft tissue necrosis, post operative pain, delayed healing, and periapical inflammation.</p> <p>Hence, keeping the irrigating solution within the confines of the root canal is very important for preventing the extrusion of irrigant apically and for thorough cleanliness of the root canal.</p>
8.	NEED FOR THE STUDY	<p>There is scarcity of data evaluating the influence of variable size and taper of basic root canal preparation on root canal cleanliness and apical extrusion of irrigant.</p> <p>Hence, this study aims to evaluate the association among all the parameters and establish a co-relation.</p>
9.	MATERIALS AND METHODS	<p>MATERIALS</p> <p>SAMPLE: 60 single rooted extracted human teeth.</p> <p>INCLUSION AND EXCLUSION CRITERIA:</p> <ul style="list-style-type: none"> ▪ Freshly extracted single rooted human teeth with mature apices and straight canals will be selected. ▪ Teeth with open apices, visible caries, cracks or fractures, developmental anomalies, resorption will be excluded.

		<p>METHODOLOGY:</p> <ul style="list-style-type: none"> ▪ Following extraction, the teeth will be stored at room temperature in a solution of 10% buffered formalin phosphate. ▪ Preoperative radiographs will be taken to assess the inclusion and exclusion criteria. ▪ A flat occlusal surface will be made as a reference point for determining the working length and the pulp chamber of each tooth was accessed with a #2 round bur. ▪ Biomechanical preparation will be done for each sample to the required size and taper. ▪ A standardized irrigation protocol will be followed using sodium hypochlorite and EDTA. ▪ Lastly, the root canal cleanliness will be assessed under scanning electron microscope and the amount of irrigant extruded will be measured indirectly via the extent of colour changes of the dye by the gel diffusion technique photographed using digital camera.
10.	10.1 Does the study require any investigation or interventions to be concluded on patients or other humans or animals?	NO
	10.2 Has the ethical clearance been obtained from your institution in case of 10.1?	

11.	SIGNATURE OF THE CANDIDATE	
12.	REMARKS OF THE GUIDE	FORWARDED AND RECOMMENDED
13.	NAME AND DESIGNATION OF THE GUIDE SIGNATURE	DR. VIJETHA BADAMI, M.D.S. PROFESSOR AND HEAD OF DEPARTMENT 
14.	NAME AND DESIGNATION OF H.O.D SIGNATURE	DR. VIJETHA BADAMI, M.D.S. PROFESSOR AND HEAD OF DEPARTMENT  Professor & Head Dept. of Conservative Dentistry & Endodontics M.N.R. Dental College & Hospital SANGAREDDY
15.	REMARKS OF THE PRINCIPAL SIGNATURE AND SEAL	 DR. RAVINDRA SV, M.D.S. PRINCIPAL INCHARGE MNR DENTAL COLLEGE & HOSPITAL PRINCIPAL MNR Dental College & Hospital MNR Nagar, Narsapur Road, SANGAREDDY Dist. - 502 294 (T.S.)



MNR DENTAL COLLEGE & HOSPITAL

(Recognised by DCI & Affiliated to Dr. KNR University of Health Sciences)

MNR Nagar, Fasalwadi, Sangareddy-502 294, Sangareddy Dist. Telangana

Phone No: +91 85000 56668, (08455) 230675, 230699

Fax No. (0455)-230533/230555, 130699

E-mail: mnrindia.org Website: www.mnrindia.org

CERTIFICATE FROM THE ETHICS COMMITTEE

Document for Institutional Ethical Committee Clearance

Dated:28/04/2022

Title : **INFLUENCE OF VARIABLE APICAL PREPARATION SIZE AND TAPER ON ROOT CANAL WALL CLEANLINES AND IRRIGANT EXTRUSION-AN IN VITRO STUDY.**

Name of the Principal Investigator: DR. SHRUTI AGARWAL

Course : MDS - DEPARTMENT OF CONSERVATIVE DENTISTRY AND ENDODONTICS

Date : 28/04/2022

The above proposal has been reviewed by the MNR Dental College & Hospital Institutional Ethics Committee (IEC) and the committee recommends that the project be:

Approved Resubmitted Rejected Needs Modifications

NAME OF THE MEMBER	ROLE IN IEC
SRI. ANANTHRAO KULKARNI, LLB	CHAIRPERSON
DR. SUNITHA J.D	MEMBER SECRETARY
DR. VIJETHA BADAMI	SCIENTIFIC MEMBER
DR. K. PAWAN KUMAR	SCIENTIFIC MEMBER
DR. B. RUPA RANI	CLINICIAN
DR. RAVI D MALA	BASIC SCIENTIST
DR. PARVATHEEPATHI	LAYPERSON
MR. KISHAN MOHAN JANARDHAN	SOCIAL SCIENTIST

The PI is required to inform the IEC about annual progress of the study, any serious adverse event, any further revision in the study protocol & informed consent document. At the end of the study, a copy of the final study report should be given.

Secretary

Signature & Seal



Principal

Signature & Seal

PRINCIPAL

MNR Dental College & Hospital
MNR Nagar, Narsapur Road,
SANGAREDDY Dist. - 502 294 (T.S.)

ACKNOWLEDGEMENT

I, SHRUTI AGARWAL, student of PG MDS DEPARTMENT OF CONSERVATIVE DENTISTRY AND ENDODONTICS (Speciality) of 2021-2022 Admission batch hereby acknowledge that I have gone through the KNRUHS PG MDS Dissertation Topics of previous 3 years pertaining to my speciality and the dissertation work titled is not a repetitive work.

I understand that undertaking a repetitive work of dissertations which is submitted within last 3 years will lead to rejection of my dissertation topic and I need to submit new synopsis.

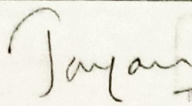
Signature of the candidate with date: Shruti 28/04/2022

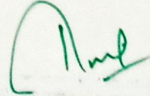
Place: SANGAREDDY

College: MNR DENTAL COLLEGE AND HOSPITAL



KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES
: WARANGAL - 506 002 - TELANGANA STATE
REPORT OF THE EXAMINER ON DISSERTATION SUBMITTED BY THE CANDIDATES APPEARING FOR MDS
EXAMINATIONS IN MAY-2023

Name of the Examiner (Internal Examiner)		Dr. Jayaprakash T.R.
Address		MNR Dental College & Hospital MNR Nagar, Fasalwadi Sangareddy - 502 294
1.	Name of the Candidate	DIKSHA
2.	Registration Number	20200108001
3.	College Studied	MNR Dental College & Hospital
4.	Course/Subject	MDS IN ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS
5.	Topic on which the candidate submitted the dissertation	A COMPARITIVE EVALUATION OF OXIDATIVE STRESS LEVELS IN PATIENTS UNDERGOING FIXED ORTHODONTIC TREATMENT WITH SELF-LIGATING, STAINLESS STEEL AND CERAMIC BRACKETS.
6.	Month & Year of the Examination	May - 2023
7.	Report of the Examiner	Approved / Not-Approved
8.	Remarks of the Examiner	-
9.	Signature and Official Seal	 Professor & HOD Dept. of Orthodontics M.N.R. Dental College & Hospital SANGAREDDY
10.	No. of corrections if any	-


PRINCIPAL
MNR DENTAL COLLEGE & HOSPITAL
MNR Nagar, Narsapur Road
Sangareddy, Medak Dist.-502 294 (T.S.)