

# RESEARCH

We believe that, “No Health Care Institute is complete without highest standard in Research and Academics”

As per the mission of our Institute we are committed to research and health care of the society at affordable cost.

Institute has a Research committee which promotes following activities:

- ▶ Faculty members & student members to participate actively in research activities
- ▶ Acceptable research proposals for ethical clearance.
- ▶ Incentives to faculty and students for research projects & publications.
- ▶ Intramural funds available for research by the institution.
- ▶ Collaborations and linkages.
- ▶ Guidance for presentations and publications.
- ▶ Continuing Dental Education Programmes , Workshops and conferences on regular basis.

## Implementations & impact of research activities

Participation in 'Avishkar since 2009.

An Innovation Competition at Maharashtra University of Health Sciences (more than 320 colleges)

Projects selected for Presentation from our Institution – **Total 13** (out of these 7 project selected in 2017-18)

Among all faculties i.e Medical, Dental, Ayurveda, Physiotherapy & Other.

- ▶ Presentations of innovations at 'Avishkar' (2006-2018)
- ▶ Karuna Kochar – Occupational Hazards in Dentistry 2009-2010
- ▶ Lubna Sayyed - oral manifestation of Systemic diseases 2015-16

- ▶ *Alka Rohda - Neem in Dentistry 2015-16*
- ▶ *Mrunal Bandiwar - Waste Disposal 2015-16*
- ▶ *Ruchika Bharshankar - Nanotechnology in Dentistry 2015-16*
- ▶ *Cordless Piezoelectric Dental Scaler - Dr. Akhilesh Shewale – Teacher Category 2016-17*
- ▶ *Glossary of Orthodontic Terms-An android App – Dr.Chinmay Rathod – P.G. Category*
- ▶ *Suction with illumination- Dr. Ankita Bhagat –P.G.Category*
- ▶ *Suction with continuous irrigation- Dr.Rahul Thanvi- P.G. Category*
- ▶ *Myofacial Pain Dysfunction Syndrome among Dental Students -Dr. Amir Bidiwala -P.G.Category*
- ▶ *EK Impactor-(A new design to trap bioaerosols)- Eknoor Gulati- U.G.Category*
- ▶ *AWARDS WON AT AVISHKAR Innovation Competition at Maharashtra University of Health sciences*

## Total Projects selected for Presentation – 13

### Awards :

- ▶ *Karuna Kochar (2009) - UG Category - Occupational Hazards in Dentistry*
- ▶ *Dr. Akhilesh Shewale (2017) – Teacher Category – Cordless Piezoelectric Dental Scaler.*
- ▶ *Dr. Chinmay Rathod (2017) – PG category - Glossary of Orthodontic Terms an Android App.*

These award winners of Maharashtra University Of Health Sciences competed at Interuniversity State Level Competition.

## Participation in State level Research Conference 2017-18 by MUHS

Projects presented in Competitive Category – 3

Awards: 3 (from amongst participants from all dental colleges of Maharashtra)

Sr. No	NAME	CATEGORY	RESEARCH TOPIC
1	Eknour Kaur	UG	Bioaerosols in Dental Clinics
2	Dr. Vaishali Agrawal	PG	Novel Diagnostic Method for Asthama
3	Dr. Akhilesh Shewale	Faculty	Natural Bone Substitute

## Long Term & Short Term Research Projects – MUHS Funding

Year 2016-17

- STRG Projects (Under Graduates) – 3 Ongoing; 2 Completed
- LTRG Projects (Faculty) – 2 Ongoing; 3 Completed

Year 2017 -18

- STRG Projects (Under Graduates) – Submitted 19 Projects- 8 Selected
- LTRG Projects (Faculty) – Submitted 2 projects- 1 Selected

## TOTAL NO OF RESEARCH PROJECTS

❖ SINCE LAST 5 YEARS -235

## RESEARCH PROJECTS (Other than Thesis)

- ▶ Completed Projects
  - Faculty - 81
  - PG students - 58
- ▶ Ongoing Projects

- Faculty - 38
- PG students - 19

- ▶ MUHS Funded Projects (UG)- 5
- ▶ Proposed Projects- 20
- ▶ Institutional Funded Projects- 9(2016-17)
- ▶ 10(2017-18)
- ▶ MUHS Funded Projects (Faculty)- 5

### Research Projects with Institutional funding

Sr.No.	Name	Title	Fund Approved
1	Nilesh Malode Guide – Dr. A Joshi	Awareness about needle stick injuries and sharp disposal	Rs.8000
2	Mansvi Lanjewar Guide – Dr. N Fating	Extraction of asymptomatic tooth with and without antibiotic therapy	Rs 9580
3	Himani Thawle Guide – Dr. D Palve	Areca Nut & Tobacco Products– The hidden gateway for oral malignancies amongst school going children	Rs 5000
4	Nilima Bhojar Guide – Dr.D Gattani	Infection control – knowledge and compliance amongst the under graduate students	Rs 5000
5	Krishna Bonde Guide – KL Lahoti	Evaluation of awareness of implant amongst qualified dental practitioners in central India	Rs 5000
	Total		Rs .32580/-

## LTRG Research Projects:- Funded by MUHS ( Faculty)

Sr. No	Name	Title	Fund Received	Current Status
1	Dr. PV Hazarey	Orthodontic treatment need for school going children in Nagpur using Modified Index of Orthodontic Treatment Need	43,500	110 patients done. Study ongoing
2	Dr. Sunita Kulkarni	Efficacy of occimumsanctum (tulsi) and oral antioxidant (SM Fibro ) in the management of oral submucous fibrosis – A randomized clinical trial	1,00,000 Justification of Budget Submitted	Sample size completed . Further extending the study with more samples.
3	Dr. Jasmeet Chandhok	An innovative method of using an unused implant fixture mount as an implant analog and impression coping for making a definitive prosthesis using open mouth impression technique	1,06,009	Samples collected
4	Dr. D Chandhok	Replacement versus minimal intervention of defective restorations- A prospective longitudinal cohort clinical study	1,06,329	Samples collected
5	Dr. Bhalerao Dr. Aarzo Agarwal	Effect of Gutka Ban on the rural young population in and around Nagpur	1,00,000	Sent for statistical analysis

## Research Projects with Institutional funding

Sr. No.	Topic	Name of Investigator	Fund Allotment
1	Comparison and evaluation of mitotic figures in oral squamous cell carcinoma in crystal violet along with nuclear fast as counter stain and feugen reaction	Dr. Priyanka Kadoo	5000/75,000- Rs allotted to the investigator.
2	A survey of Dental fluorosis at Wakdhara village	Dr ( Mrs) PV Hazarey Dr.HarishAtram Dr J Rasool	5000/15,000- Rs allotted to the investigator.
3	Incidence of musculoskeletal disorders in dental profession	Abha Hedoo (UG)	5000/10,000- Rs allotted to the investigator.
4	customized buccal screen	Dr. CR Bande	5000/15,000- Rs allotted to the investigator.
5	Evaluation of Periodontal status in leprosy Patient	Atharva Beley(UG) Dr. Anand Wankhede	5000/- Rs allotted to the investigator.
6	Burden of oral diseases in Nagpur City – A Pilot Study	Dr.Akhilesh Shewale	5000/- Rs allotted to the investigator.
7	Awareness of dental law and jurisprudence among dental fraternity	Gauri Ingle(UG)	5000/- Rs allotted to the investigator.
8	Effect of herbal neem extract oral gel and mouthwash on plaque and gingival scores :A comparative clinical study	Dr. MB wankhede Dr N Choudhary	5000/- Rs allotted to the investigator.
9	Effect of alveolar bone loss along various surfaces of tooth on the position of centre of resistance – A 3D Finite Element Analysis	Dr. Asmita Kharche (PG)	15,000 /- allotted to the investigator

	2016-17	2017-18 (On going)
UG	3	4
PG	1	4
FACULTY	5	2
COMPLETED	6	-
ONGOING	3	-
PUBLISHED	2	-
TOTAL	9	10

## Inter-institutional collaborative projects

### National Collaboration

1. ICT , Mumbai
2. Shivaji Science College,Nagpur
3. Ramdeobaba Engineering College, Nagpur

### International collaborations

1. Digital learning project in collaboration with Center of Microdentistry, California, USA is in process.
2. Brassler ,USA
3. BioMTA,USA

## LINKAGES

Sr. No	
1	Praj Metallurgical Laboratory
2	Om Diagnostic laboratory
3	Laser Dental Care Centre, Nagpur
4	Dhruv Pathology & Microbiology Lab Nagpur
5	IPV World Pvt. Ltd. ,Pune
6	Ayam Engineering solutions, Yavatmal
7	Raymond, Textile division, Madhya Pradesh
8	Department of Chemistry, Savitribai Phule Pune University
9	Anacon Lab, Nagpur
10	Nisha Herbal Pvt.Ltd., Nagpur
11	Institute of Chemical Technology, Mumbai
12	Fredna Dentx3D,Mumbai
13	T.R.E.S.S, Delhi
14	National Institute of Miners' Health, Nagpur
15	VNIT, Nagpur
16	Malpani Group



- OUR Institute is recognized as a nodal center for i4c

INSTITUTE HAS APPLIED FOR ATAL INCUBATION CENTER' NITI AYOOG,GOVT.OF INDIA

## RESEARCH PUBLICATIONS OF THE INSTITUTE ( Last 5 years)

- 580 Total research publication of in Peer Reviewed Journals
- 255 research publication in International Journals by Faculty
- 325 research publication in National Journals by Faculty
- 115 research publications in Peer Reviewed Journals by PG Students since 2012
- 10 UG students received awards for best paper presentation
- 55 PG students received awards for best paper presentation
- 05 faculties received awards for best paper presentation

