



AVICENNA DENTAL COLLEGE



ANNUAL RESEARCH REPORT 2024-2025

AVICENNA RESEARCH CELL



TABLE OF CONTENT

- 01. Executive Summary
- 02. Faculty Research and Publications
- 03. Student Research Seminar and Activities
- 04. Faculty Research Seminars
- 05. Faculty Development Research Series



EXECUTIVE SUMMARY

The 2024–2025 Annual Research Report showcases Avicenna Dental College’s strategic achievements in advancing academic excellence, research innovation, and community impact. This year, faculty and students demonstrated remarkable growth in research output, securing national and international publications, participating in high-profile academic conferences, and strengthening research capabilities. Coupled with impactful community outreach, these accomplishments reflect our unwavering commitment to evidence-based dentistry, institutional leadership, and societal responsibility.

RESEARCH AT A GLANCE

Avicenna Dental College • Annual Research Report 2024–2025

7 Faculty Research Publications	3 International Publications	4 National Publications	3 Faculty Research Seminar Topics
7 Faculty Development Workshop Series	3 Documented Student Research / Academic Engagements	2 Student Poster Awards / Positions	1 Student Case Report Presentation

Key Research Highlights

- Faculty research covered oral medicine, community dentistry, oral pathology, operative dentistry, and public health.
- Faculty publications included work in recognized national and international journals.
- Students represented the college at research contests, international health sciences conferences, and pathology conferences.
- Student achievements included a First Prize in Poster Presentation and a Third Position in a research poster contest.
- Faculty research seminars promoted discussion on dental research, clinical photography, diagnostic consistency, treatment planning, and orofacial pain management.
- The Faculty Development Research Series focused on practical research skills, including SPSS/data analysis and access to research journals and databases.

Note: The figures above are based only on activities and outputs documented in this annual report; they do not represent an exhaustive institutional research database.

FACULTY RESEARCH AND PUBLICATIONS

Avicenna Dental College continues to foster a vibrant research culture by encouraging faculty and students to actively engage in scholarly activities. Research efforts during the reporting period focused on oral medicine, community dentistry, oral pathology, operative dentistry, and public health, with outcomes published in recognized national and international journals.

INTERNATIONAL RESEARCH PUBLICATIONS

Dr. Lubna Yousaf, Dr. Amna Liaqat, and Dr. Huma Tahir published key research in international journals, strengthening Avicenna Dental College's global academic presence.

- **Dr. Lubna Yousaf (Assistant Professor - Community Dentistry)**

Article: Diet and Oral Health: An Investigation into the Impact of Pakistani Dentistry Habits on Oral Disease Prevalence

Journal: Cureus



- **Dr. Amna Liaqat (Assistant Professor - Oral Medicine)**

Article: Recurrent Aphthous Stomatitis and Its Predisposing Factors Among Undergraduate Dental Students

Journal: Journal of Population Therapeutics and Clinical Pharmacology

- **Dr. Huma Tahir (Associate Professor - Community Dentistry)**

Article: Social Capital and Trust in Primary Healthcare: Insights from Users' Perspectives

Journal: Journal of Population Therapeutics and Clinical Pharmacology

NATIONAL RESEARCH PUBLICATIONS

In addition to their international contributions, our faculty have actively published research in PMDC-recognized national journals. These efforts not only enhance the academic profile of Avicenna Dental College but also advance the field of dental science across Pakistan.



- **Prof. Dr. Rubab Zahra (Professor - Oral Medicine)**

Article: Efficacy of Sodium Tetradecyl Sulphate for the Treatment of Venous Malformation of the Head and Neck

Journal: Pakistan Armed Forces Medical Journal

- **Dr. Sultan M. Wahid (Assistant Professor - Oral Pathology)**

Article: Immunohistochemical Expression of Ki-67 in Malignant Salivary Gland Tumors

Journal: Journal of Islamabad Medical & Dental College

- **Dr. Lubna Yousaf (Assistant Professor - Community Dentistry)**

Article: Knowledge, Attitudes, and Perceptions Regarding Artificial Intelligence and Its Uses in Oral Radiology Among Dental Surgeons of Lahore

Journal: Journal of the Pakistan Dental Association

- **Dr. Ambreen Zahra (Senior Registrar - Operative Dentistry)**

Article: Mustard Gel versus Chlorhexidine Gel as Root-Canal Medicament Against Enterococcus Faecalis: An in vitro study



Journal: Journal of the College of Physicians and Surgeons
Pakistan

STUDENT RESEARCH SEMINAR AND ACTIVITIES

Students of Avicenna Dental College actively represented the institution at various academic forums.

INNOVATIVE CLINICAL CASE PRESENTATION/ RESEARCH CONTEST - LMDC

On **October 31st, 2024**, students from batches **D-19, D-20, and D-21** proudly represented Avicenna Dental College at the **“Innovative Clinical Case Presentation/ Research Contest-LMDC** hosted by Lahore Medical and Dental College. The event brought together participants from multiple institutions, fostering a spirit of academic exchange and collaboration.



Our Vice Principal and Head of the Prosthodontics Department, Prof. Dr. Usman Munir, along with the Head of the Orthodontics Department, Prof. Dr. Nadia Bhutta, were honored to serve as **judges** at this prestigious contest.



We are especially proud of our **students** from **D-21, Sahar Mubeen and Meh Laqa**, who secured **Third Position** with their insightful research poster on **“Dental Phobia and Its Impact on Quality of Life”**.



Their achievements were recognized with certificates and cash prizes, a testament to their dedication and the vibrant research culture at Avicenna Dental College.

FUR - FMS 1ST INTERNATIONAL INTEGRATED HEALTH SCIENCES AND RESEARCH CONFERENCE - 2025 (POSTER PRESENTATION)

In **2025**, **BDS 3rd-year** students from Avicenna Dental College achieved a remarkable milestone by securing **First Prize** in Poster Presentation at the **FUR–FMS 1st International Integrated Health Sciences and Research Conference**. Competing alongside participants from diverse health science institutions, the students demonstrated academic excellence, research insight, and presentation skills at an international platform.



This achievement was made possible under the expert guidance and supervision of **Dr. Lubna Yousaf, Head of the Department of Community Dentistry**, whose mentorship played a pivotal role in the college's successful representation. The accomplishment reflects Avicenna Dental College's strong commitment to undergraduate research, faculty mentorship, and academic distinction.



Avicenna Dental College proudly recognized the **BDS 3rd-year students** for their achievement of **First Prize** at the FUR–FMS 1st International Integrated Health Sciences and Research Conference 2025, awarding them **prizes** in appreciation of their academic excellence and research distinction.

45TH INTERNATIONAL CONFERENCE OF PAKISTAN ASSOCIATION OF PATHOLOGISTS

We are proud to share that student **Abu-Huraira** of **D-23** represented **Avicenna Dental College** at the **45th International Conference of the Pakistan Association of Pathologists and the 10th Joint Conference of Societies of Pathology**, held at **Serena Hotel, Faisalabad**, on **October 5-6, 2024**. Under the mentorship of **Prof. Dr. Asifa Iqbal**, he presented a remarkable case report titled, **“A Benign Disease with a Malignant Stigma - A 34-year-old Male with Fibrous Dysplasia”**





Avicenna Dental College deeply appreciates Abu-Huraira's hard work, dedication, and achievements at such a prestigious platform. His success reflects the talent and potential of our students, and we encourage others to take inspiration from his journey, pursue their research interests with passion, and continue to represent our college at national and international levels.





FACULTY RESEARCH SEMINAR

Monthly Faculty Research Seminars were conducted to promote academic discussion and research dissemination.

-  Foundations of Dental Research: Guided by Philosophy and Curiosity
-  Impact of Standardized Clinical Photography on Diagnostic Consistency and Treatment Planning in Orthodontic Practice
-  Orofacial Pain Management in a Dental Clinical Setting



RESEARCH AT THE HELIM:

Insights From Our Principal

As part of the Faculty Research Seminar, our Principal, **Prof. Dr. Sohail Abbas Khan**, delivered an inspiring talk titled “**Foundations of Dental Research: Guided by Philosophy and Curiosity**”

He began by sharing his own understanding of “research”, describing it not as the mere pursuit of data but as a thoughtful exploration of questions that challenge curiosity and knowledge forward. He explained how research ideas can arise from many sources - books, libraries, the internet, colleagues, or even patients - and highlighted the two origins of ideas:

- Observational and Spontaneous
- Targeted and Planned

IMPACT OF STANDARDIZED CLINICAL PHOTOGRAPHY ON DIAGNOSTIC CONSISTENCY AND TREATMENT PLANNING IN ORTHODONTIC PRACTICE



This research was presented by **Dr. Anum Aziz**, highlighting the role of standardized clinical photography in enhancing diagnostic consistency and improving treatment planning accuracy in orthodontic practice.



This study highlights how standardized clinical photography improves diagnostic accuracy and consistency, supporting more precise treatment planning and enhanced clinical decision-making in orthodontic practice.



The findings highlight its role in enhancing treatment planning, case documentation, and overall clinical decision-making.

OROFACIAL PAIN MANAGEMENT IN A DENTAL CLINICAL SETTING

Presented by Dr. Shanzay, this presentation addressed the comprehensive evaluation and management of orofacial pain within dental clinical practice. It emphasized evidence-based diagnostic approaches, interdisciplinary management strategies, and patient-centered treatment planning aimed at improving pain control, enhancing patient comfort, and achieving better clinical outcomes.



FACULTY RESEARCH DEVELOPMENT SERIES

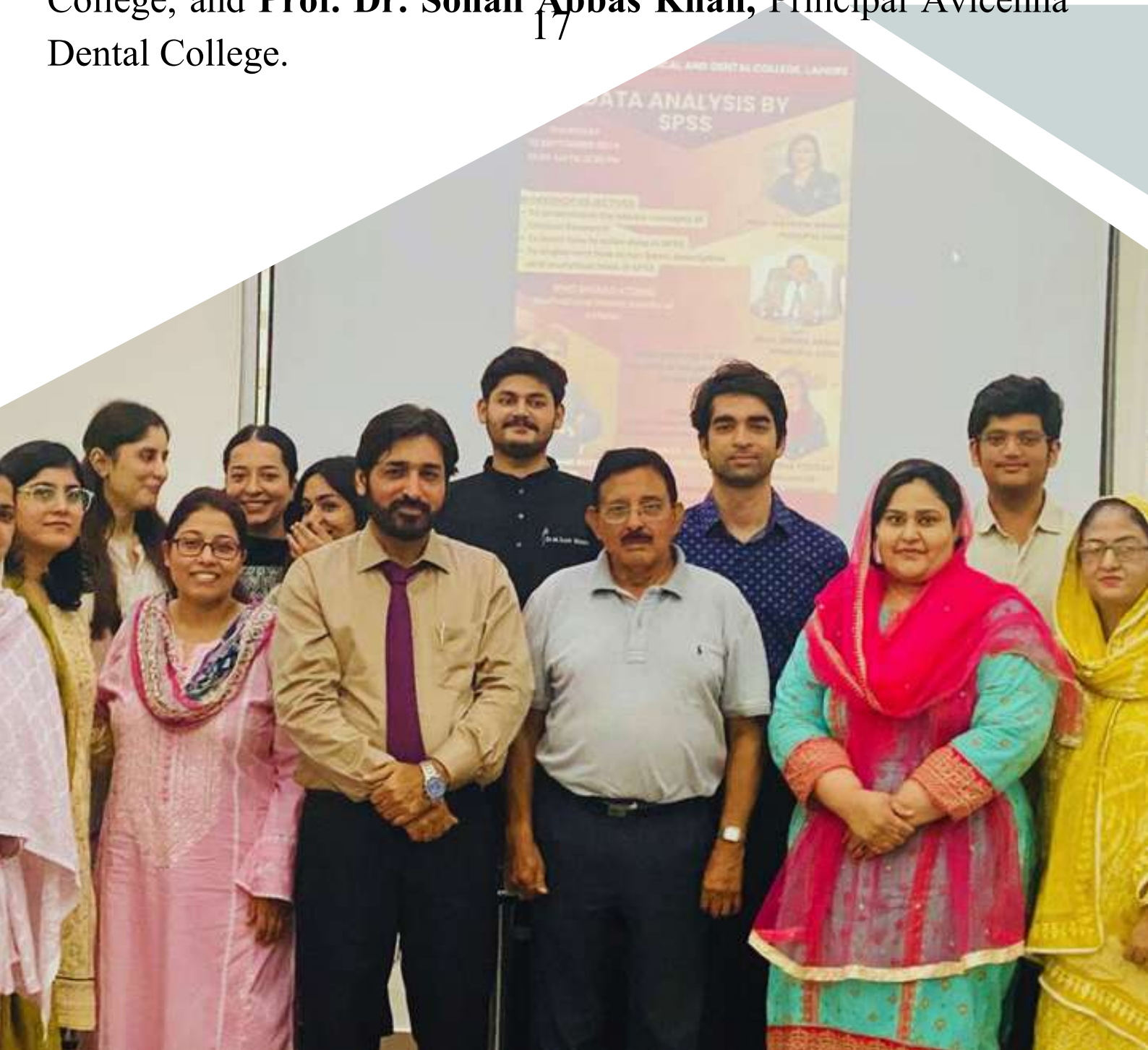


Avicenna Dental College conducts a regular Faculty Research Development Series, designed to equip faculty members with practical tools and guidance to support their scholarly work. Through hands-on workshops and interactive sessions, the series introduces participants to a variety of research resources and methodologies, helping them streamline their projects and strengthen the quality of their academic output

BUILDING SKILLS: DATA ANALYSIS WITH SPSS

As part of the Faculty Research Development Series, Avicenna Dental College organized a hands-on workshop on “**Data Analysis by SPSS**” on **September 12th 2024**, under the coordination of Dr. Lubna Yousaf.

The workshop was led by our esteemed guest speaker, **Dr. Zeeshan Butt**, and was attended by distinguished chief guests - **Prof. Dr. Gulfteen Waheed**, Principal of Avicenna Medical College, and **Prof. Dr. Sohail Abbas Khan**, Principal Avicenna Dental College.



The event reflected the institution's continued commitment to strengthening the research capacity of its faculty by providing them with the tools and skills needed to carry out high-quality research.

In his engaging session, **Dr. Zeeshan** discussed the fundamentals of clinical research and guided participants through the practical use of SPSS software. Faculty members were taught how to enter data accurately, manage datasets, and perform essential descriptive and analytical tests, which are key for interpreting and presenting research findings.

The interactive format allowed participants to clarify their queries and gain confidence in applying statistical techniques to their own research projects. The faculty found the workshop to be highly beneficial, describing it as a fruitful and practical step toward enhancing their research capabilities.

INTRODUCTION TO DATA ANALYSIS AND RESEARCH JOURNALS

29-SEP-2025



Ms. Qurratul Ain delivered a brief introduction to **SPSS data analysis**, during which participants practiced data entry and basic analysis on their laptops. The workshop significantly enhanced participants' research skills and awareness of digital research resources.

INTRODUCTION TO DATA ANALYSIS & RESEARCH JOURNALS

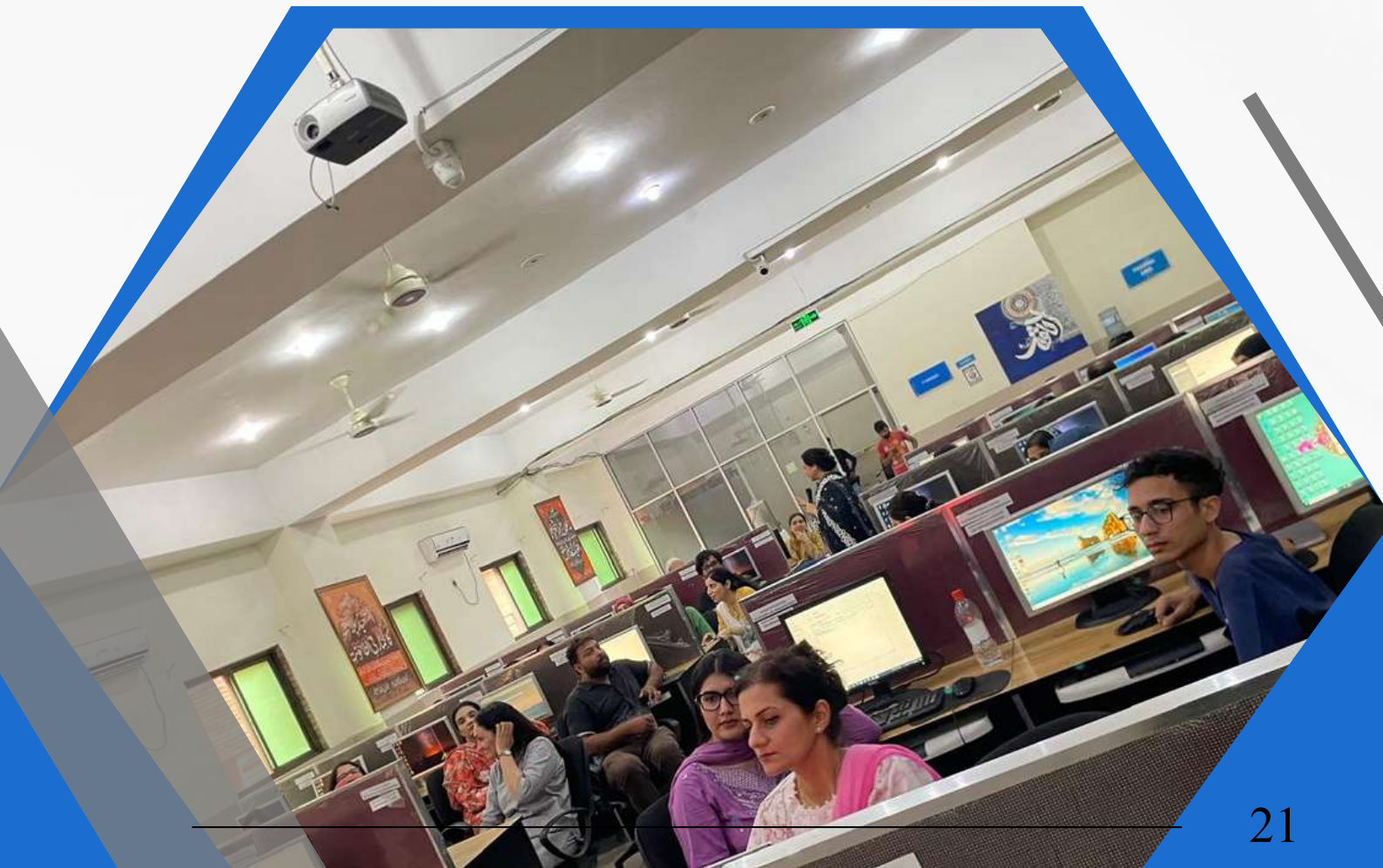
Tour of E-Library and Electronic Journal Resources

CONDUCTED BY:
MISS NAJMA ABDUL HAKIM
(LIBRARIAN) &
MISS QURRAT UL AIN
(LIBRARIAN)

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DATA WORKSHOP

On **29 September 2025**, a hands-on workshop titled **“Introduction to Data Analysis and Research Journals”** was conducted in the e-Library of Avicenna College. The workshop was attended by faculty members and students from all departments, promoting interdisciplinary research learning. **Ms. Najama** (Librarian) provided a detailed orientation on the **HEC e-Library**, highlighting that Avicenna College has secured a **one-year subscription worth PKR 10 lac**, enabling access to multiple international research databases, **including paid journals and articles**. She also demonstrated the effective use of the HEC e-Library portal for literature searching.



Course Title

Research Writing for Health Professionals

A Series of Research Workshops

1st Workshop

Evidence to Impact:
Healthcare Research Horizons

Facilitator

Prof. Dr. Gulfreen Waheed

MBBS, FCPS, MHPE, PhD Scholar HPE
Principal, Director DME
HOD Obstetrics & Gynaecology
Avicenna Medical College

Co-Facilitator

Mr. Kashif Siddiqui
MSc Biostatistics

Course Coordinator

Dr. Amna Haroon
0322 4853 041

**18th
DEC**

FACULTY DEVELOPMENT RESEARCH SERIES (7 WORKSHOP SERIES)

FACULTY DEVELOPMENT RESEARCH SERIES

(7 WORKSHOP SERIES)

Workshop 1

Evidence to Impact: Healthcare Research Horizons

Workshop 2

**Selection of Topic, Problem Identification,
Research Question, Hypothesis, Objective**

Workshop 3

**Workshop on Sample Size Calculation in Medical
Research**

Workshop 4

**Introduction to Research Methodology: Data
Analysis Plan**

FUTURE DIRECTIONS

Strengthening a Sustainable Culture of Dental Research

Building on the achievements documented during 2024–2025, Avicenna Dental College aims to further strengthen research capacity, mentorship, collaboration, and the translation of research into meaningful clinical and academic outcomes.

Strengthen Faculty and Student Research

Expand faculty-led and undergraduate research initiatives and encourage sustained participation in scholarly activities.

Expand Research Mentorship

Strengthen mentorship and guidance for students and faculty throughout topic development, methodology, data analysis, scientific writing, and dissemination.

Increase Research Publications

Encourage high-quality research with the goal of increasing national and international scholarly publications.

Continue Faculty Development

Sustain and expand hands-on training in research methodology, biostatistics, SPSS/data analysis, scientific writing, and research resources.

Promote Research Dissemination

Encourage participation in conferences, poster competitions, case presentations, and other platforms that showcase research achievements.

Build Interdisciplinary Collaboration

Promote collaborative research across dental, medical, public health, and other relevant disciplines to address complex healthcare questions.

Maximize Research Resources

Improve utilization of available research resources, including the HEC e-Library and international research databases, to support evidence-informed scholarship.